13.09.2022

SEMESTER I

I Somostor

I Semester			
PLANNING STUDIO - I AREA APPRECIATION AND SPACE PERCEPTIONS			
Course Code	21 PLN11	CIE Marks	50
Teaching Hours/Week (L:T:S:P:SM:SS)	0:0:0:10:0:0	SEE Marks	50
Total Hours of Pedagogy	160	Total Marks	100
Credits	5	Exam Hours	-

Course objectives:

• First-semester will focus on understanding basic terminologies in planning through study of different areas. It would also focus on developing observation and mapping skills

Teaching-Learning Process (General Instructions)

These are sample Strategies, which teachers can use to accelerate the attainment of the various course outcomes.

- Planning requires hands-on experience to utilize the knowledge gained out of theoretical subjects. This is done through exposure to site visits and site studies
- The faculty can make the students think based on small activity based exercises and projects, manual sheets are to be prepared.

Elements of a city: Understanding various building blocks of a city; Developing understanding about city planning elements using movies, lectures and city tours

Distance and Area Perception: Developing an understanding about distance and area and translating the same to scale on drawings.

Space Perception: Study of areas with varying characters to appreciate the concepts of built form, activities and people. Appreciate various elements of built form such as plot sizes, FAR, densities, building heights and open spaces; Understanding how built form supports various activities in different areas.

Neighbourhood Perception: Mapping of a neighbourhood and appreciating the basic characteristics of a neighbourhood; Creation of base maps, recording and presenting information on maps, both manually and digitally.

Use of mapping and presentation skill and representations learnt in planning communication into studios

Taashing	Practical field based exercises to be undertaken, studios help students to work in teams,
Learning	and get acquainted with live case areas and their problems and help them prepare a
Process	professional plan that is relevant to the residents and local bodies, also enables them to
1100055	critically analyse the area around them and appreciate the same.

Course outcome (Course Skill Set)

Upon the completion of this course, the students would be able:

- 1. To develop an understanding of the key components of a city and show familiarity with the basic planning terminologies.
- 2. To show understanding of different patterns and forms that forms the physical fabric of a city.
- 3. To express awareness of planners' sensibilities.
- 4. To develop skills to prepare technical drawings and maps for small areas.
- 5. To develop the ability to visualize areas in two and three dimensions and draw them accurately.
- 6. To show ability to observe, record, map and present different activities and spaces.

Assessment Details (both CIE and SEE)

(methods of CIE need to be define topic wise i.e.- MCQ, Quizzes, Open book test, Seminar or micro project)

The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The student has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% marks of maximum marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together. Semester End Exam (SEE) is conducted for 100 marks and scaled down to 50 marks. Based on this grading will be awarded.

Continuous Internal Evaluation:

• Continuous Internal Evaluation (CIE): The CIE marks awarded in case of Studio shall be based on the weekly evaluation of progress of the studio works after the conduction of every Presentation

Semester End Examination:

• Planning Studio SEE will be conducted by the University as per scheduled time table, in a batch wise with External examiner and Internal Examiner reviewing the works of the students through Viva voice.

Suggested Learning Resources:

Books

1. Brownill, S. (ed.) (2017) Localism and Neighbourhood Planning, Policy Press, Bristol.

2. Parker, G., Salter, K. and Wargent, M. (2019) Neighbourhood Planning in Practice, Lund Humphries Publishers, London.

Web links and Video Lectures (e-Resources):

- <u>https://www.my-mooc.com/en/categorie/urban-planning</u>
- <u>https://www.youtube.com/watch?v=knUerjiLmNw</u>

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

• Site visits and physical case studies based learning to be adapted

FUNDAMENTAL	S OF URBAN AND REGIO	NAL PLANNING	
Course Code	21 PLN12	CIE Marks	50
Teaching Hours/Week (L:T:P: S)	3:0:0:0:0:0	SEE Marks	50
Total Hours of Pedagogy	48	Total Marks	100
Credits	3	Exam Hours	3
 Course objectives: To introduce to students, the b processes, planning organization 	asic concepts and rationales of ons, and theories of urbanizati	f planning, plan making on.	9
 Pedagogy (General Instructions) These are sample Strategies, which tea outcomes. FURP components of planning out 	the scan use to accelerate the g to be focused upon, various p	attainment of the varie	ous course s to be brought
 Innovative lecture methodolog Visits to concerned site studie Short videos for better underst Encourage collaborative (Group 	gies to be adapted to improve t s, if need be anding	he teaching and learnin	ng process
 Encourage collaborative (Group Learning) learning in the class Ask at least three HOT (Higher order Thinking) questions in the class, which promotes critical thinking Adopt Problem Based Learning (PBL), which fosters students Analytical skills, develop thinking skills such as the ability to evaluate, generalize, and analyse information rather than 			
 Discussion in class to elevate 	thinking and different methodo Module-1	ologies of problem solv	ving
Various definitions of town and count Benefits of planning; Planning as a di planners.	try planning; Goals, objectives scipline and multidisciplinary	and components of planature of planning; Dif	anning; fferent roles of
Tudgit unough ppts un	Modulo 2		
Foundations of Planning Orthodoxies of planning; Component its forms in planning; Planning know Economic and societal aspects as base	s of sustainable urban and reg ledge and its various forms; A es of town and country plannir	ional development; Re rguments for and again ng.	easoning and nst planning;
Pedagogy Taught through ppts	and pdf materials		
	Module-3		
Development Plans and Planning O Defining development plan; Types an plan, town planning scheme, layout Hierarchy of plans and its significance	Organizations nd scope of development plans plan; Structure plan, district p e; Development regulations;	s: regional plan, maste lan, action area plan, s	r plan, zonal subject plan;
Pedagogy Taught through ppts, p	df materials and group discussion	lons	
	Module-4		
Governance of Planning Local government of India; District P Different development authorities and	lanning Committees and Metro d other organizations like impr	opolitan Planning Com ovement trusts.	mittees;

Pedagogy	Taught through group ppts, pdf materials and group discussions
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Module-5

Theories of Urbanization and Role of Planning Organizations

Theories of urbanization including Concentric Zone Theory, Sector Theory, Multiple Nuclei Theory and other latest theories; Land Use and Land Value Theory of William Alonso; Meanings and forms of globalization; Characteristics of a global city; Principles for planning for a global city.

Pedagogy Taught through group ppts, pdf materials and group discussions

Course outcome (Course Skill Set)

At the end of the course the student will be able to :

- To demonstrate understanding about the foundational concepts and rationales of planning, learn processes affecting preparation, content and types of development plans.
- To develop knowledge of theories of urbanization

Assessment Details (both CIE and SEE)

(methods of CIE need to be define topic wise i.e.- MCQ, Quizzes, Open book test, Seminar or micro project)

The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The student has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% marks of maximum marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together. Theory Semester End Exam (SEE) is conducted for 100 marks (3 hours' duration) and scaled down to 50 marks. Based on this grading will be awarded.

Continuous Internal Evaluation:

- 1. Methods suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc.
- 2. The class teacher has to decide the topic for closed book test, open book test, Written Quiz and Seminar. In the beginning only the teacher has to announce the methods of CIE for the subject.

Semester End Examination:

Theory SEE will be conducted by University as per scheduled time table, with common question papers for subject

- 1. The question paper will have ten questions. Each question is set for 20 marks. Marks scored shall be proportionally reduced to 50 marks
- 2. There will be 2 questions from each module. Each of the two questions under a module (with a maximum of 3 sub questions), should have a mix of topics under that module.
- 3. The students have to answer 5 full questions, selecting one full question from each module

Suggested Learning Resources:

Books

1. Alexander, E.R. (1987) Planning as Development Control: Is That All Urban Planning Is For? Town Planning Review, Vol. 58, No. 4, pp. 453-467.

2. Baer, W.C. (2007) General Plan Evaluation Criteria: An Approach to Making Better Plans, Journal of the American Planning Association, Vol. 63, Issue 3, pp. 329-344.

3. Branch, M.C. (2018) Comprehensive City Planning: Introduction and Explanation, Routledge. First Edition published in 1985

4. Kasarda, J.D. and Crenshaw, E.M. (1991) Third World Urbanization: Dimensions, Theories, and Determinants, Annual Review of Sociology, Vol. 17, pp. 467-501.

5. King, A. (1976) Colonial Urban Development: Culture, Social Power, and Environment, Routledge and Kegan Paul, New York.

- 6. Klosterman, R.E. (1985) Arguments for and Against Planning, Town Planning Review, Vol. 56, No. 1, pp. 5-20.
- 7. Patel, S.B. (1997) Urban Planning by Objectives, Economic and Political Weekly, Vol. 32, No. 16, pp. 822-826.

8. Roberts, T. (2002) The Seven Lamps of Planning [with Comments] by Cliff Hague, Glyn Roberts and Lesley Punter, Town Planning Review, Vol. 73, No. 1, pp. 1-15.

9. Vidyarthi, S. (2018) Spatial Plans in Post-liberalization India: Who's making the plans for fast-growing Urban Regions? Journal of Urban Affairs, DOI: 10.1080/07352166.2018.1527658

Web links and Video Lectures (e-Resources):

- <u>https://www.my-mooc.com/en/categorie/urban-planning</u>
- https://www.youtube.com/watch?v=g18a4I9fMtk
- <u>https://nptel.ac.in/courses/124/107/124107158/</u>

Activity-Based Learning (Suggested Activities in Class)/ Practical Based learning

- Module based activity related to topics
- Presentation preparation related to the given topics
- Debate on various topics from the module or current affairs

I Semester

	ТЕСН	NIQUES OF PLANNING I		
Course Code		21PLN13	CIE Marks	50
Teaching Hou	urs/Week (L:T:S:P:SM:SS)	2:1:0:1:0:0	SEE Marks	50
Total Hours of	Pedagogy	64	Total Marks	100
Credits		3	Exam Hours	3
Course object This c and m manne	ives: ourse introduces students to kno ap data collected for a neighbou er.	w the data requirements for pla rhood and a city and present it i	nning and undertake s in a coherent and analy	urveys ⁄tical
Pedagogy (Ger These are samp • Techn be bro • Innov • Visits • Short • Encou • Ask a thinki • Adopt such a • Discu	neral Instructions) ble Strategies, which teachers ca iques of planning components bught out ative lecture methodologies to b to concerned site studies, if nee videos for better understanding trage collaborative (Group Learn t least three HOT (Higher orden ng : Problem Based Learning (PBL as the ability to evaluate, general ssion in class to elevate thinking	n use to accelerate the attainment to be focused upon, various co e adapted to improve the teaching d be ning) learning in the class er Thinking) questions in the of L), which fosters students Analy ize, and analyse information rates and different methodologies of Module-1	nt of the various course ncepts, parameters and ng and learning proces class, which promotes ytical skills, develop t ther than simply recall problem solving	e outcomes. d analysis to s critical hinking skills it
Types of Date	and Sources of Data for Plan	ning		
Understanding Reliable source and secondary	g difference between data, info res of data and information; Data data; Overview of data availabi	rmation and knowledge; Disting a requirements for urban and reg lity from different sources inclu- naterials	nction between facts a gional planning; Sourc Iding Census of India,	and opinions; es of primary NSSO, etc.
I cuagogy	raught unough ppts and par h			
		Module-2		
Data Collecti Questionnaire verification; (ethnographic	on Methods - Socio-Economic design, design of sample surve Qualitative data collection met methods; Validity and reliability	Surveys eys, types of sampling, measur hods: focus group surveys, in of data.	ement scales, data coo ndividual interviews,	ding and data observations,
Pedagogy	Taught through ppts and pc	lf materials		
		Module-3		
Data Collection Physical Survey base maps; La and other survey collection met	on Methods - Physical Surveys eys and Mapping Physical surve and use classifications; Techniqu veys needed for planning; Use hods.	and Mapping eys for the preparation of base nues for conducting field surveys of information, communication	maps at different scale s for land use, buildin and technology (IC	s, contents of g use, density Γ) based data
Pedagogy	Taught through ppts and pdf m	naterials, group discussion and a	octivities	
		Module-4		
Data Analysis, Data tabulatio content analys Suitability ana	, reasoning and relationships n, statistical methods, frequency is, Land Use classification syste ilysis, housing analysis, develop	distribution, classification, me m, planning standards, populati ment of indicators.	an, median, mode, cor on and economic anal	relation, ysis, Land
Pedagogy	Taught through ppts and pdf m	naterials, group discussion and a	octivities	

Module-5
Data Presentation Preparation of tables and charts; Interpreting statistical, qualitative and spatial data to identify trends, patterns
and processes; Communication of data through presentations, reports, etc.
Pedagogy Taught through ppts and pdf materials, group discussion and activities
Course outcome (Course Skill Set)
At the end of the course the student will be able to :
• To develop the skills for preparing a base map at different scales and representation of relevant planning
information on it. To know data requirements for planning and to demonstrate skills for undertaking surveys
 To know data requirements for planning and to demonstrate skills for undertaking surveys. To produce data through tables, charts and reports.
Assessment Details (both CIE and SEE)
(methods of CIE need to be define topic wise i.e MCO, Ouizzes, Open book test, Seminar or micro project)
The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The
student has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% marks of maximum
marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE (Continuous
Internal Evaluation) and SEE (Semester End Examination) taken together. Theory Semester End Exam (SEE) is
conducted for 100 marks (3 hours' duration) and scaled down to 50 marks. Based on this grading will be awarded.
Continuous Internal Evaluation:
3. Methods suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc.
4. The class teacher has to decide the topic for closed book test, open book test, written Quiz and Seminar. In the beginning only the teacher has to announce the methods of CIE for the subject
Semester End Examination:
Theory SEE will be conducted by University as per scheduled time table, with common question papers for subject
 The question paper will have ten questions. Each question is set for 20 marks. Marks scored shall be proportionally reduced to 50 marks
5. There will be 2 questions from each module. Each of the two questions under a module (with a maximum of
3 sub questions), should have a mix of topics under that module.
6. The students have to answer 5 full questions, selecting one full question from each module
Suggested Learning Resources: Books
 Berke, P.R. and Goodschalk, D.R., Kaiser, E.J. and Rodriguez, D.A. (2006) Urban Land Use Planning, University of Illinois Press, Champaign, Illinois. Fifth Edition.
2. Dandekar, H.C. (ed.) (2019) The Planner's Use of Information, Routledge, New York. Third Edition.
3. Guthrie, G. (2010) Basic Research Methods: An Entry to Social Science Research, Sage, Los Angeles.
4. Krueckeberg, D.A. and Silvers, A.L. (1974) Urban Planning Analysis: Methods and Models, Wiley, London.
5. Monmonier, M. (1996) How to Lie with Maps, University of Chicago Press, Chicago.
 Wang, X., Rainer, A. and Hofe, V. (2007) Research Methods in Urban and Regional Planning, Springer, Berlin
Web links and Video Lectures (e-Resources):
 <u>https://www.my-mooc.com/en/categorie/urban-planning</u> https://www.youtube.com/watch?v=Ywrag8amNsU
Activity Based Learning (Suggested Activities in Class)/ Practical Based learning Group activities, group presentations

• Assignment on various topics from the modules

I Semester				
	PLA	NNING COMMUNICATION I		7 0
Course Code		21 PLN14	CIE Marks	50
Teaching Hou	irs/Week (L:T:P: S)	2:0:0:0:0	SEE Marks	-
Total Hours of	f Pedagogy	32	I otal Marks	50
Credits		Ζ	Exam Hours	-
Course object • To in	tives: troduce to students appl	ications of computer software for r	eport writing, dat	a analysis
and p	resentations required for	planning. To expose students to the	e use AutoCAD a	nd similar
softw	are to prepare drawings	and presentations. This course inte	nds to equip the s	tudents to
prese	nt their work through re	ports and learn how to critically ex	amine literature r	eview for
the pi	rposes of developing an	Understanding about a particular to	opic.	
Pedagogy (G These are san outcomes. Expon- princia Innov Short Encou Ask a thinki Adop thinki simpl Discu Visual studio buildings, st Sketching as	eneral Instructions) nple Strategies, which testing students to manual ples rative lecture methodolog videos, model making a urage collaborative (Grou at least three HOT (High ing t Problem Based Learn ing skills such as the abil y recall it assions on grammar and on munication – Drawings es about use of line, sh reets, cities with specia	eachers can use to accelerate the a sheet preparation, manual drafting gies to be adapted to improve the tea nd activity based methods to be ada up Learning) learning in the class her order Thinking) questions in the ing (PBL), which fosters students ity to evaluate, generalize, and anal other language and software oriente <u>Module-1</u> ape, form, texture, color, compos I emphasis on rhythms, balance, I ion: Techniques of preparation of	attainment of the g and architectura aching and learnin pted for better und e class, which pro- s Analytical skills yses information of d technical topics ition, and scale i harmony and pro-	various course l design g process derstanding omotes critical s, develop rather than n cities and portion etc.; ea_city and
regional leve	1. Presentation of	ion, rechniques of preparation of	ouse maps at a	ca, enty and
planning info	prmation through maps. t	hematic maps		
Pedagogy Chalk and talk method and various teaching aid				
		Module-2		
Verbal Com Language an Body langua Pedagogy	munication d communication; Differ ge, eye contact, speech, a Chalk and talk meth	rences between speech and writing, and spoken expression, Elements of od and various teaching aid	distinct features o a good verbal pre	f speech; sentation.
		Module-3		
Photography Photography photography different mat study of basi	y and Model Making as a tool for visual info , use of camera and its erials for models and bu c land and built forms th	rmation; Images and history; Deve s functions; Elements of good ph ilt form models to understand the c rough models, and presentation mod	loping basic unde notographs; Under oncepts learnt in t dels.	rstanding of rstanding of he studio; A
Pedagogy	Chalk and talk method	and various teaching aid		

Module-4
Intrapersonal Communication, Listening Skills, Self-Awareness
Listening as an active skill; Types of listeners; Listening for general content; Listening to fill up information; Intensive listening; Listening for specific information; Can intensive listening improve
understanding
Pedagogy Chalk and talk method and various teaching aid
Module-5
Introduction to Computer Application in planning Various software packages, utility of computers in planning assignments, current trends in planning with respect to use of computer applications, advanced features of MS word - Use of MS Word in report preparation, Adding and updating table of contents, Spell check, thesaurus, working with columns, tabs and indents, creation and working with tables, margins and space management in a document; Adding references and graphics; Importing and exporting across various formats; Creating questionnaires using macros, PowerPoint and Advanced features of MS excel - Defining data and database management; Working with census data; Data analysis using various functions and tools; Creating formulas, using formulas, cell references, replication, sorting, filtering, functions; Preparation of charts and graphs, creating trend lines, and simple macros. Introduction to AutoCAD; Concept of Mapping and Drafting techniques, introduction to AutoCAD, Understanding the fundamental concepts and the terminologies used in CAD; Tools for digitization; Modifying tools; Layer creation and management; Creating Blocks; Annotation; Scaling; Plotting and Printing and hand-on exercises. Introduction to Google Sketch. Pedagogy Chalk and talk method and laboratory exposure to various planning software
Chark and tark include and raboratory exposure to various plaining software
 At the end of the course the student will be able to : Upon the completion of this course, the students would be able: To show the ability to appreciate the basic elements of composition in drawings and photographs. To demonstrate the ability to prepare base maps at different scales. To demonstrate the ability to prepare a model for a given area. To identify and name feelings and become aware of patterns of communication of the self To design and produce written reports using software, and perform analysis of data. To compose data in the form of graphs, charts and also able to prepare maps, plans and sketches to present planning information.
 Assessment Details (both CIE and SEE) (methods of CIE need to be define topic wise i.e MCQ, Quizzes, Open book test, Seminar or micro project) The weightage of Continuous Internal Evaluation (CIE) is 100% and for Semester End Exam (SEE) is Nil, No Semester End Exam (SEE) for the subject. The student has to obtain a minimum of 40% marks in CIE. Grading will be awarded based on CIE. Continuous Internal Evaluation: Methods suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc. The class teacher has to decide the topic for closed book test, open book test, Written Quiz and Seminar.
Suggested Learning Resources:
Books
1. Machi A.L., McEvoy B.T. (2016) Literature Review: Six Steps to Success, Corwin (Sage), New Delhi.
 Kousoulas, C.A. (2019) Writing for Planners: Handbook for Students and Professionals in Writing, Editing, and Document Production, CRC Press, New York
 Macris, N. (2002) Writing in Planning English: Writing Tips for Urban and Environmental Planners, Routledge, New York.
Web links and Video Lectures (e-Resources):
 <u>https://www.my-mooc.com/en/categorie/urban-planning</u> <u>https://www.youtube.com/watch?v=eLZc-jGXQ8A</u>

- <u>https://www.youtube.com/watch?v=H_GVANPyI18</u>
- https://www.youtube.com/watch?v=w8LCcTm1o5U
- <u>https://www.youtube.com/watch?v=O5A58npxsps</u>

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

- Design principles and manual sheet preparation
- Various activities such as model making and photography adapted innovatively
- Manual architectural plan drafting assignments, measure the actual dimensions and draw in
- converted metric scales and Planning software assignments

I Semester			
QUANTITATIVE AND	QUALITATIVE METHOD	S FOR PLANNERS	
Course Code	21PLN15	CIE Marks	50
Teaching Hours/Week (L:T:S:P:SM:SS)	1:2:0:0:0:0	SEE Marks	50
Total Hours of Pedagogy	48	Total Marks	100
Credits	2	Exam Hours	3
 To comprehend various techniques To show how these techniques of taking planning decisions. To expose students to various que planning practice and research. 	ues and methods of quantit could be used to identify pl nalitative analysis techniqu	ative analysis relevant anning problems and he es and their relevance f	for planning. elp in `or
 Pedagogy (General Instructions) These are sample Strategies, which teacher outcomes. Orienting Planners towards various 	ers can use to accelerate the	e attainment of the vario	ous course

- Innovative lecture methodologies to be adapted to improve the teaching and learning process
- Short videos for better understanding
- Encourage collaborative (Group Learning) learning in the class
- Ask at least three HOT (Higher order Thinking) questions in the class, which promotes critical thinking
- Adopt Problem Based Learning (PBL), which fosters students Analytical skills, develop thinking skills such as the ability to evaluate, generalize, and analyse information rather than simply recall it
- Discussion in class to elevate thinking level and different problem solving levels

Module-1 Correlation and Regression Analysis

Degree of correlation, Scatter Diagram, correlation analysis, correlation coefficient, co– efficient of rank correlation, partial correlation analysis and multiple correlation, simple Linear and nonlinear regression, lines of

regression, coefficient of regression; Multiple Regression Analysis; Use of SPSS and its applications in planning

Pedagogy Taught in presentations and pdf materials, problem solving in class

Teuagogy	raught in presentations and put materials, problem solving in class
	Module-2
Statistical In	ference and Chi-Square Test and Analysis of Variance
Types of estir	nation; Point, interval, testing of hypothesis, statistical hypothesis, simple and composite
tests of signif	cance, null hypothesis, alternative hypothesis; Types of errors, level of significance,
critical region	; Two tailed and one tailed tests, large and small sample tests for mean and proportion;
Chi-square di	stribution: applications of chi-square distribution; Test of goodness of fit; ANOVA
distribution; U	Jse of SPSS; Applications in planning
Dedeess	Taught in presentations and pdf materials, problem solving in class, group ppts related
Pedagogy	to topics etc
	Module-3
Mathematical Programming Techniques Mathematical Programming models, linear programming problems, transportation problems, assignment problems, applications in planning	

Pedagogy	Taught in presentations and pdf materials, group ppts related to topics etc
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Module-4 **Oualitative Methods** Dimensions of qualitative research; Designing qualitative research; Terms and principles in qualitative data analysis; Content analysis; Narrative analysis; Discourse analysis for planning. Taught in presentations and pdf materials, problem solving in class, group ppts Pedagogy related to topics etc Module-5 **Decision Theory** Decision making under conditions of certainty, uncertainty, and conditions of risk decision trees, payoff matrix, applications in planning Taught in presentations and pdf materials, problem solving in class, group ppts related to Pedagogy topics etc **Course outcome (Course Skill Set)** Upon the completion of this course, the students would be able: 1. To demonstrate use of quantitative and qualitative techniques for planning analysis. 2. To show knowledge about interpreting findings from such analysis to pursue planning decisions. **Assessment Details (both CIE and SEE)** (methods of CIE need to be define topic wise i.e.- MCQ, Quizzes, Open book test, Seminar or micro project) The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The student has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% marks of maximum marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together. Theory Semester End Exam (SEE) is conducted for 100 marks (3 hours' duration) and scaled down to 50 marks. Based on this grading will be awarded. **Continuous Internal Evaluation:** 1. Methods suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc. 2. The class teacher has to decide the topic for closed book test, open book test, Written Quiz and Seminar. In the beginning only the teacher has to announce the methods of CIE for the subject. **Semester End Examination:** Theory SEE will be conducted by University as per scheduled time table, with common question papers for subject 1. The question paper will have ten questions. Each question is set for 20 marks. Marks scored shall be proportionally reduced to 50 marks 2. There will be 2 questions from each module. Each of the two questions under a module (with a maximum of 3 sub questions), should have a mix of topics under that module. 3. The students have to answer 5 full questions, selecting one full question from each module **Suggested Learning Resources:** Books 1. Gelman, A. and Hill, J. (2006) Data Analysis Using Regression and Multilevel and Hierarchical Models, Colombia University Press, New York. 2. Molugaram, K. and Rao, G.S. (2017) Statistical Techniques for Transportation Engineering, BSP Books Pvt. Ltd. Published by Elsevier, London. 3. Kambo, N.S. (2008) Mathematical Programming Techniques, Affiliated East-West Press Pvt. Ltd. New Delhi.

4. Braun, V. and Clarke, V. (2013) Successful Qualitative Research: A Practical Guide for Beginners, Sage, New Delhi

- 5. Gupta S.C., 'Fundamentals of Statistics'. Himalaya Publishing House, Delhi. (BOOK)
- 6. Ash Robert B., 'Basic Probability Theory' Dover Publications, New york.
- 7. Veerarajan T., 'Probability Statistics and Random Processes, India

Web links and Video Lectures (e-Resources):

- <u>https://www.youtube.com/watch?v=V3iEsLPAD68&list=PLU6SqdYcYsfLRq3tu-g_hvkHDcorrtcBK</u>
- <u>https://www.youtube.com/watch?v=COI0BUmNHT8&list=PLyqSpQzTE6M_JcleDbrVyPnE0Pi</u> <u>xKs2JE</u>
- http://www.sagepub.in/upmdata/43350_4.pdf
- https://www.youtube.com/watch?v=wRZwrcPnmc4
- https://www.youtube.com/watch?v=VK-rnA3-41c

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

- Presentation preparation on the given topics from each module
- Problem solving on topics

I Semester			
Rural Development and Management			
Course Code	21PLN16	CIE Marks	50
Teaching Hours/Week (L:T:S:P:SM:SS)	2:2:0:0:0:0	SEE Marks	50
Total Hours of Pedagogy	64	Total Marks	100
Credits	3	Exam Hours	3

Course objectives:

Significance of rural development and management could not be better explained than the fact that a majority of Indians still live in rural areas. The chief objective of this subject is to introduce rural development and management by concentrating on understanding the idea of rural development, and how we planned for rural areas and people after 1947 to 2020. Second, we seek to teach students how institutions of local self-government developed after the most important amendment to the Constitution of India was made in 1992.

Pedagogy (General Instructions)

These are sample Strategies, which teachers can use to accelerate the attainment of the various course outcomes.

- 1. Lecturer method (L) does not mean only traditional lecture method, but different types of teaching methods may be adopted to develop the outcomes.
- 2. Arrange visits to nearby power plants, receiving stations and substations to give brief information about the electrical power generation.
- 3. Show Video/animation films to explain functioning of various machines
- 4. Encourage collaborative (Group Learning) Learning in the class
- 5. Ask at least three HOTS (Higher order Thinking) questions in the class, which promotes critical thinking
- 6. Adopt Problem Based Learning (PBL), which fosters students Analytical skills, develop thinking skills such as the ability to evaluate, generalize, and analyze information rather than simply recall it.
- 7. Topics will be introduced in a multiple representation.
- 8. Show the different ways to solve the same problem and encourage the students to come up with their own creative ways to solve them.
- 9. Discuss how every concept can be applied to the real world and when that's possible, it helps improve the students' understanding.

10. Individual teachers can devise innovative pedagogy to improve teaching-learning.

Module-1

Introduction to Rural Development

Meaning, nature and scope of development; Nature of rural society in India; Hierarchy of settlements; Social, economic and ecological constraints for rural development.

Pedagogy Chalk and talk method, Power Point Presentation

	Module-2		
Roots of Ru	ral Development in India		
Rural recor	instruction and Sarvodaya programme before independence: Impact of voluntary effort and		
Sarvodaya Movement on rural development; Constitutional direction, directive principles; Panchayat			
Raj	Rai - beginning of planning and community development: National extension services.		
Pedagogy	Chalk and talk method, Power Point Presentation		
	Module-3		
Post-Indepe Balwant Rai participation and rural de including – government	And ence Rural Development Mehta Committee - three tier system of rural local Government; Need and scope for people's and Panchayat Raj; Ashok Mehta Committee - linkage between Panchayat Raj, participation evelopment; Five Year Plans and Rural Development; 73rd Constitution Amendment Act, XI Schedule, devolution of powers, functions and its implications; Critical appraisal of initiatives and their implementation.		
Pedagogy	Chalk and talk method, Power Point Presentation		
	Module-4		
Planning pro and monitor plans; Deve weaker sect rural develop	bocess at National, State, Regional and District levels; Planning, development, implementing ing organizations and agencies; Urban and rural interface - integrated approach and local lopment initiatives and their convergence; Special component plan and sub-plan for the ion; Micro-eco zones; Data base for local planning; decentralized planning; Sustainable poment.		
Pedagogy	Chalk and talk method, Power Point Presentation		
	Module-5		
Infrastructu Community Developmen and its diver Developmen	Tral Intervention & Rural Economy driven rights-based development; Rural marketing and mobility: the last mile distribution; at of market and warehouse; Rural housing and sanitation. Rural Economy Rural livelihood rights of profiling rural economy; Increasing shift to rural nonfarm Sector; atal challenges.		
Pedagogy	Chalk and talk method, Power Point Presentation		
Course outco	ome (Course Skill Set)		
At the end of	the course the student will be able to :		
 To de evolu To de To s develu 	evelop knowledge about rural development and management with a particular focus on the ation of the idea of rural development. Hemonstrate knowledge about how rural areas were planned from 1947 to 2020. How knowledge about how institutions and organizations of local self-government loped after 1992.		

Assessment Details (both CIE and SEE)

(methods of CIE need to be define topic wise i.e.- MCQ, Quizzes, Open book test, Seminar or micro project)

The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The student has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% marks of maximum marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together. Theory Semester End Exam (SEE) is conducted for 100 marks (3 hours' duration) and scaled down to 50 marks. Based on this grading will be awarded.

Continuous Internal Evaluation:

- 1. Methods suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc.
- 2. The class teacher has to decide the topic for closed book test, open book test, Written Quiz and Seminar. In the beginning only teacher has to announce the methods of CIE for the subject.

Semester End Examination:

Theory SEE will be conducted by University as per scheduled time table, with common question papers for subject

- 1. The question paper will have ten questions. Each question is set for 20 marks. Marks scored shall be proportionally reduced to 50 marks
- 2. There will be 2 questions from each module. Each of the two questions under a module (with a maximum of 3 sub questions), should have a mix of topics under that module.
- 3. The students have to answer 5 full questions, selecting one full question from each module

Suggested Learning Resources:

Books

- 1. Gandhi, F.V. (2018) A Rural Manifesto: Realizing India's Future through her Villages, Rupa, New Delhi.
- 2. Gupta, K.R. (2010) Rural Development in India, Atlantic Publishers, New Delhi. Volume 4.
- 3. Jodhka, S.S. (2018) A Handbook of Rural India, (Readings on the Economy, Polity and Society), Orient Black Swan, New Delhi.
- 4. Jodhka, S.S. and Simpson, E. (2019) India's Villages in the 21st Century: Revisits and Revisions, Oxford University Press, New Delhi.
- 5. Ministry of Rural Development (2017) Sustainable Rural Development, Ministry of Rural Development, Government of India.
- 6. Paul, S.K. (2015) Rural Development: Concept and Recent Approaches, Concept Publishing Company Private Limited, New Delhi.
- 7. Singh, K. and Shishodia, A. (2019) Rural Development: Principles, Policies, and Management, Fourth Edition, Sage, New Delhi.

Web links and Video Lectures (e-Resources):

- https://www.panchayat.gov.in/spatial-planning
- https://niti.gov.in/planningcommission.gov.in/docs/sectors/rural.php?sectors=rural
- http://dpal.kar.nic.in/11%20of%201963%20(E).pdf

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

• A site visit to a nearby village to understand the economy, the culture, the development pattern.

I Semester

INNOVATION AND DESIGN THINKING			
Course Code	21PLN17 / 21IDT19	CIE Marks	50
Teaching Hours/Week (L:T:S:P:SM:SS)	1:0:0:0:0:0	SEE Marks	50
Total Hours of Pedagogy	16	Total Marks	100
Credits	1	Exam Hours	1

Course Category: Foundation

Preamble: This course provides an introduction to the basic concepts and techniques of engineering and reverse engineering, process of design, analytical thinking and ideas, basics and development of engineering drawing, application of engineering drawing with computer aide.

Course objectives:

- To explain the concept of design thinking for product and service development
- To explain the fundamental concept of innovation and design thinking
- To discuss the methods of implementing design thinking in the real world.

Teaching-Learning Process (General Instructions)

These are sample Strategies, which teacher can use to accelerate the attainment of the various course outcomes.

- 1. Lecturer method (L) does not mean only traditional lecture method, but different type of teaching methods may be adopted to develop the outcomes.
- 2. Show Video/animation films to explain concepts
- 3. Encourage collaborative (Group Learning) Learning in the class
- 4. Ask at least three HOTS (Higher order Thinking) questions in the class, which promotes critical thinking
- **5.** Adopt Problem Based Learning (PBL), which fosters students Analytical skills, develop thinking skills such as the ability to evaluate, generalize, and analyse information rather than simply recall it.
- 6. Topics will be introduced in a multiple representation.
- 7. Show the different ways to solve the same problem and encourage the students to come up with their own creative ways to solve them.
- **8.** Discuss how every concept can be applied to the real world and when that's possible, it helps improve the students' understanding.

Module-1

PROCESS OF DESIGN

Understanding Design thinking

Shared model in team based design – Theory and practice in Design thinking – Exploring work of Designers across globe – MVP or Prototyping

	Introduction about the design thinking : Chalk and Talk method		
Pedagogy	Theory and practice through presentation		
	MVP and Prototyping through live examples and videos		
	Module-2		
Tools for Des	ign Thinking		
Real-Time design interaction capture and analysis – Enabling efficient collaboration in digital space			
– Empathy for design – Collaboration in distributed Design			
	Case studies on design thinking for real-time interaction and analysis		
Pedagogy	Simulation exercises for collaborated enabled design thinking		

I caugogy	Simulation exercises for conductated endoted design timking			
	Live examples on the success of collaborated design thinking			

Г

Design '	Wiodule-5		
D .	Thinking in IT		
Design	Thinking to Business Process modelling – Agile in Virtual collaboratio	n environment – Scenario	
based F	Prototyping		
Pedago	Case studies on design thinking and business acceptance of the design		
- vango	Simulation on the role of virtual eco-system for collaborated prototyping		
	Module-4		
DT For	strategic innovations		
Growth	- Story telling - Predictability - Strategic Foresight - Change - Sense Making	- Maintenance Relevance – Value	
redefini	ition - Extreme Competition – experience design - Standardization – Humaniza	tion - Creative Culture	
– Rapid	l prototyping, Strategy and Organization – Business Model design.		
Business model examples of successful designs			
redago	gy Presentation by the students on the success of design Live project on design thinking in a group of 4 students		
	Module-5		
Design	thinking workshop		
Design	Thinking Work shop Empathize Design Ideate Prototype and Test		
Design			
Pedago	gy 8 hours design thinking workshop from the expect and then presentation	on by the students on the	
~ .			
Course (Outcomes:		
Upon th	ne successful completion of the course, students will be able to:		
	-		
CO		Knowledge Level (Based	
Nos.	Course Outcomes	on revised Bloom's	
1105		Taxonomy)	
CO1	Appreciate various design process procedure	K2	
	Generate and develop design ideas through different		
CO2	technique	K2	
	1 1		
203	Identify the significance of reverse Engineering to Understand products	K2	
CO3	Identify the significance of reverse Engineering to Understand products	K2	
CO3 CO4	Identify the significance of reverse Engineering to Understand products Draw technical drawing for design ideas ment Details (both CIE and SEE)	K2 K3	
CO3 CO4 Assess	Identify the significance of reverse Engineering to Understand products Draw technical drawing for design ideas ment Details (both CIE and SEE) ds of CIE, need to be defined tonic wise i.e. Tests, MCO, Ouizzes, Se	K2 K3	
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be scaled down to 50 marks CIE methods /question paper is designed to attain the different levels of Bloom's taxonomy as per the outcome defined for the course. **Semester End Examination:** Theory SEE will be conducted by University as per the scheduled timetable, with common question papers for subject SEE paper will be set for 50 questions of each of 01 marks. The pattern of the question paper is MCQ. The time allotted for SEE is 01 hours **Suggested Learning Resources: Text Books :** 1. John.R.Karsnitz, Stephen O'Brien and John P. Hutchinson, "Engineering Design", Cengage learning (International edition) Second Edition, 2013. 2. Roger Martin, "The Design of Business: Why Design Thinking is the Next Competitive Advantage", Harvard Business Press, 2009. 3. Hasso Plattner, Christoph Meinel and Larry Leifer (eds), "Design Thinking: Understand - Improve -Apply", Springer, 2011 Idris Mootee, "Design Thinking for Strategic Innovation: What They Can't Teach You at Business or Design 4. School", John Wiley & Sons 2013. **References**: Yousef Haik and Tamer M.Shahin, "Engineering Design Process", CengageLearning, Second 1. Edition. 2011. Book - Solving Problems with Design Thinking - Ten Stories of What Works (Columbia Business School 2. Publishing) Hardcover – 20 Sep 2013 by Jeanne Liedtka (Author), Andrew King (Author), Kevin Bennett (Author). Web links and Video Lectures (e-Resources): www.tutor2u.net/business/presentations/. /productlifecvcle/default.html 1. 2. https://docs.oracle.com/cd/E11108 02/otn/pdf/. /E11087 01.pdf 3. www.bizfilings.com > Home > Marketing > Product Development 4. https://www.mindtools.com/brainstm.html 5. https://www.quicksprout.com/. /how-to-reverse-engineer-your-competitor 6. www.vertabelo.com/blog/documentation/reverse-engineering https://support.microsoft.com/en-us/kb/273814 7. https://support.google.com/docs/answer/179740?hl=en 8. https://www.youtube.com/watch?v=2mjSDIBaUIM thevirtualinstructor.com/foreshortening.html 9. https://dschool.stanford.edu/.../designresources/.../ModeGuideBOOTCAMP2010L.pdf 10. https://dschool.stanford.edu/use-our-methods/ 11. https://www.interaction-design.org/literature/article/5-stages-in-the-design-thinkingprocess 12. http://www.creativityatwork.com/design-thinking-strategy-for-innovation/49 13. https://www.nngroup.com/articles/design-thinking/ 14. https://designthinkingforeducators.com/design-thinking/ 15. www.designthinkingformobility.org/wp-content/.../10/NapkinPitch Worksheet.pdf Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

http://dschool.stanford.edu/dgift/

I Semester

I beinester				
COMMUNICATIVE ENGLISH				
Course Code	21EGH18	CIE Marks	50	
Teaching Hours/Week (L:T:S:P:SM:SS)	1:1:0:1:0:0	SEE Marks	50	
Total Hours of Pedagogy	48	Total Marks	100	
Credits	2	Exam Hours	2	

Course objectives:

The course (21EGH18) will enable the students,

- To know about Fundamentals of Communication Skills
- To impart basic English grammar and essentials of language skills
- To train to identify the nuances of phonetics, intonation and enhance pronunciation skills
- To enhance with English vocabulary and language proficiency
- To learn about Techniques of Information Transfer through presentation

Language Lab: To augment LSRW, grammar, and Vocabulary skills (Listening, Speaking, Reading, Writing and Grammar, Vocabulary) through tests, activities, exercises etc., comprehensive web-based learning and assessment systems can be referred as per the AICTE /VTU guidelines.

Teaching-Learning Process (General Instructions)

These are sample Strategies, which teacher can use to accelerate the attainment of the various course outcomes.

- 1. Teachers shall adopt suitable pedagogy for effective teaching learning process. The pedagogy shall involve the combination of different methodologies which suit modern technological tools and software's to meet the present requirements of the Global employment market.
 - (i) Direct instructional method (Low /Old Technology),
 - (ii) Flipped classrooms (High/advanced Technological tools),
 - (iii) Blended learning (combination of both),
 - (iv) Enquiry and evaluation based learning,
 - (v) Personalized learning,
 - (vi) Problems based learning through discussion,
 - (vii) Following the method of expeditionary learning Tools and techniques,
 - (viii) Use of audio visual methods through language Labs in teaching of of LSRW skills.
- 2. Apart from conventional lecture methods, various types of innovative teaching techniques through videos, animation films may be adapted so that the delivered lesson can progress the students In theoretical applied and practical skills in teaching of communicative skills in general.

Module-1

Introduction to Communicative English

Introduction, Language as a Tool, Fundamentals of Communicative English, Process of Communication, Barriers to Effective Communicative English, Different styles and levels in Communicative English (Communication Channels). Interpersonal and Intrapersonal Communication Skills, How to improve and Develop Interpersonal and Intrapersonal Communication Skills.

	Chalk and talk method, Videos, PowerPoint presentation to teach Communication skills		
Teaching-Learning	(LSRW Skills), Creating real time stations in classroom discussions, Giving activities		
Process	and assignments (Connecting Campus & community with companies real time		
	situations).		

Module-2

Introduction to Phonetics

Introduction, Phonetic Transcription, English Pronunciation, Pronunciation Guidelines Related to consonants and vowels, Sounds Mispronounced, Silent and Non-silent Letters, Syllables and Structure, Word Accent and Stress Shift, – Rules for Word Accent, Intonation – purposes of intonation, Spelling Rules and Words often Misspelt – Exercises on it. Common Errors in Pronunciation.

Module-3

Basic English Communicative Grammar and Vocabulary PART - I

Grammar: Basic English Grammar and Parts of Speech - Nouns, Pronouns, Adjectives, Verbs, Adverbs, Conjunctions, Articles and Preposition. Preposition, kinds of Preposition and Prepositions often Confused. Articles: Use of Articles – Indefinite and Definite Articles, Pronunciation of 'The', words ending 'age', some plural forms. Introduction to Vocabulary, All Types of Vocabulary –Exercises on it.

	Chalk and talk method, Videos, PowerPoint presentation to teach Grammar, Animation		
Teaching-Learning	videos on communication and language skills, creating real-time stations in classroom		
Process	discussions, Giving activities and assignments (Connecting Campus & community with		
	companies' real time situations).		

Module-4

Basic English Communicative Grammar and Vocabulary PART – II

Question Tags, Question Tags for Assertive Sentences (Statements) – Some Exceptions in Question Tags and Exercises, One Word Substitutes and Exercises. Strong and Weak forms of words, Words formation - Prefixes and Suffixes (Vocabulary), Contractions and Abbreviations. Word Pairs (Minimal Pairs) – Exercises, Tense and Types of tenses, The Sequence of Tenses (Rules in use of Tenses) and Exercises on it.

	Chalk and talk method, PowerPoint presentation to teach Grammar and phonetics,		
Teaching-	Animation videos on communication and language skills, creating real time stations in		
Learning Process	classroom discussions, Giving activities and assignments (Connecting Campus &		
	community with companies' real time situations).		

Module-5

Communication Skills for Employment

Information Transfer: Oral Presentation - Examples and Practice. Extempore / Public Speaking, Difference between Extempore / Public Speaking, Communication Guidelines for Practice. Mother Tongue Influence (MTI) – South Indian Speakers, Various Techniques for Neutralization of Mother Tongue Influence – Exercises. Reading and Listening Comprehensions – Exercises.

Teaching- Learning Process Chalk and talk method, Videos, PowerPoint presentation to teach Grammar and phonetics, Animation videos on communication and language skills, creating real time stations in classroom discussions, Giving activities and assignments (Connecting Campus & community with companies' real time situations).

Course outcome (Course Skill Set)

At the end of the course(21EGH18) the student will be able to :

- 1. Understand and apply the Fundamentals of Communication Skills in their communication skills.
- 2. Identify the nuances of phonetics, intonation and enhance pronunciation skills.
- 3. To impart Basic English grammar and essentials of language skills as per present requirement.
- 4. Understand and use all types of English vocabulary and language proficiency.
- 5. Adopt the Techniques of Information Transfer through presentation.

Assessment Details (both CIE and SEE)

(methods of CIE need to be define topic wise i.e.- MCQ, Quizzes, Open book test, Seminar or micro project)

The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The student has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% marks of maximum marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together. Theory Semester End Exam (SEE) is conducted for 100 marks (3 hours' duration) and scaled down to 50 marks. Based on this grading will be awarded.

Continuous Internal Evaluation:

Three Unit Tests each of 20 Marks (duration 01 hour)

- 1. First test at the end of 5th week of the semester
- 2. Second test at the end of the 10th week of the semester
- 3. Third test at the end of the 15th week of the semester

All the tests are preferred similar to SEE pattern; however, teacher may follow test pattern similar to other theory courses of Engineering

Two assignments each of 10 Marks

- 4. First assignment at the end of 4th week of the semester
- 5. Second assignment at the end of 9th week of the semester

Report writing /Group discussion/Seminar any one of three suitably planned to attain the COs and POs for 20 Marks (duration 01 hours)

6. At the end of the 13th week of the semester

The sum of three tests, two assignments, and quiz/seminar/group discussion will be out of 100 marks and will be scaled down to 50 marks

CIE methods /question paper is designed to attain the different levels of Bloom's taxonomy as per the outcome defined for the course.

Semester End Examination:

SEE paper will be set for 100 questions of each of 01 marks. The pattern of the question paper is MCQ. The time allotted for SEE is 120 minutes. Marks scored are scaled down to 50 Marks. (Time duration may be made 90 minutes to train the students for engineering / non-engineering competitive examination) 1.

- Communicative English has become a very important component in all engineering and nonengineering competitive examinations. In exams like GRE, TOEFL, IELTS and GATE exam, all state and Central Government recruitment examinations, placement tests and other Examinations, so the pattern of question paper, in general, will be in a multiple-choice question (MCQ) Pattern. So, to meet the relevance of the recruitment requirement of our Engineering students "Communicative English" Semester end examination (SEE) will be conducted in a multiple choice question (MCQ) pattern.
- 2. MCQ Pattern (Multiple Choice Questions) Semester End Exam (SEE) is conducted for 50 marks (120 minutes duration).

Suggested Learning Resources:

- 1) Communication Skills by Sanjay Kumar and Pushp Lata, Oxford University Press 2018.
- 2) A Textbook of English Language Communication Skills, Infinite Learning Solutions (Revised Edition) 2020.
- 3) English for Engineers by N.P.Sudharshana and C.Savitha, Cambridge University Press 2018.
- 4) **Technical Communication** by Gajendra Singh Chauhan and Et al, Cengage learning India Pvt Limited [Latest Revised Edition] 2019.
- 5) English Language Communication Skills Lab Manual cum Workbook, Cengage learning India Pvt Limited [Latest Revised Edition] – 2019.
- 6) **Practical English Usage** by Michael Swan, Oxford University Press 2016.
- 7) **Technical Communication** Principles and Practice, Third Edition by Meenakshi Raman and Sangeetha Sharma, Oxford University Press 2017.
- 8) **Effective Technical Communication** Second Edition by M. Ashraf Rizvi, McGraw Hill Education

(India) Private Limited – 2018.

Web links and Video Lectures (e-Resources):

- 1. icao.int/APAC/Meetings/2012_CMC/FUNDAMENTALS%200F%20COMMUNICATI ON.pdf
- 2. <u>https://www.youtube.com/watch?v=u16EPwFmdis</u>
- 3. https://www.youtube.com/watch?v=5XsvUjNvLZE

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

1. Group discussions and presentations

13.09.2022

SEMESTER II

II Semester

PLANNING STUDIO – II: VILLAGE PLANNING AND URBAN NEIGHBOURHOOD PLANNING

Course Code	21PLN21	CIE Marks	50	
Teaching Hours/Week (L:T:S:P:SM:SS)	0:0:0:10:0:0	SEE Marks	50	
Total Hours of Pedagogy	160	Total Marks	100	
Credits	5	Exam Hours	-	

Course objectives:

• This studio intends to develop vocabulary in planning and develop an ability to observe, record and present data in meaningful ways with the purpose of understanding planning issues.

Pedagogy (General Instructions)

These are sample Strategies, which teachers can use to accelerate the attainment of the various course outcomes.

- Classification of land and exposing the students to the Planning guidelines (URDPFI)
- Innovative lecture methodologies to be adapted to improve the teaching and learning process
- Short videos for better understanding
- Encourage collaborative (Group Learning) learning in the class
- Ask at least three HOT (Higher order Thinking) questions in the class, which promotes critical thinking
- Adopt Problem Based Learning (PBL), which fosters students Analytical skills, develop thinking skills such as the ability to evaluate, generalize, and analyse information rather than simply recall it
- Discussion in class to elevate thinking level and different problem solving levels

Course Contents

Neighbourhood Study

- This component is divided in two parts. In the first part students undertake a study of different land uses other than the residential land use. Through land use case studies, students are expected to develop understanding of basic principles of land use planning such as categorization, hierarchy, permissibility, compatibility, etc. and supporting infrastructure required for various land uses.
- Second part of this component focuses on residential land use. Building on the understanding of residential neighbourhood developed in the previous semester, students would also develop an understanding of typologies of residential development with respect to built form, evolution, ownership, etc. and requirements of facilities and infrastructure in residential areas.
- Students are expected to apply data collection methods learnt in Planning Techniques class including primary surveys to understand different activities, socio-economic conditions, and infrastructure availability.

Village study

- Village study would involve an analysis of a rural settlement by comprehending social, economic, physical and political aspects. This exercise would also focus on the understanding of the history of a village and its people, basis of spatial organisation of a village and its transformations over the years.
- This would further include understanding of land between abadi area and revenue boundary of a village. Lastly, a study of government schemes for the entire village would be undertaken. Students would be expected to develop sensitivity to development issues in a rural settlement.

Pedagogy

Through site visits and site studies from both physical study as well as literature study, the studio should focus on the development of various conceptual models and ideas of the students into Plans

Course outcome (Course Skill Set)

At the end of the course the student will be able to :

• To explain the basic terminologies in planning. To apply data collection methods in field surveys. To identify ways in which we observe, record and present data in meaningful ways. To demonstrate familiarity with the functioning of a neighbourhood and a village through processes of experiential learning.

Assessment Details (both CIE and SEE)

(methods of CIE need to be define topic wise i.e.- MCQ, Quizzes, Open book test, Seminar or micro project)

The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The student has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% marks of maximum marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together. Theory Semester End Exam (SEE) is conducted for 100 marks and scaled down to 50 marks. Based on this grading will be awarded.

Continuous Internal Evaluation:

• Continuous Internal Evaluation (CIE): The CIE marks awarded in case of Studio shall be based on the weekly evaluation of progress of the studio works after the conduction of every Presentation

Semester End Examination:

Planning Studio SEE will be conducted by the University as per scheduled time table, in a batch wise with External examiner and Internal Examiner reviewing the works of the students through viva voice.

Suggested Learning Resources:

Books

Text Books and References:

- 1. Berke, P. and Goodschalk, D.A., (2006) Urban Land Use Planning, University of Illinois Press, Champaign, Illinois.
- 2. Jodhka, S.S. (ed.) (2012) Village Society, Orient Blackswan, Hyderabad.
- 3. Talen, E. (2012) City Rules: How regulations affect urban form, Island Press, Washington.
- 4. Stevens, N.J., Salmon, M.P., Walker, H.G., and Stanton, A.N. (2008) Human Factors in Land Use Planning and Design, CRC Press, New York.
- 5. Sheth, A., and Panchal, N. and Patel, S.B. (2007) Urban Layouts, Densities and the Quality of Urban Life, Economic and Political Weekly Vol. 42, No. 26, pp. 2725-2736.
- 6. Vidyarthi, S. (2015) One Idea Many Plans: An American City Design Concept in Independent India, Routledge, New York.

Web links and Video Lectures (e-Resources):

- http://mohua.gov.in/link/urdpfi-guidelines.php
- <u>https://www.youtube.com/watch?v=mrcCagx8M1w</u>
- <u>https://www.youtube.com/watch?v=nSOBTRKUmQQ</u>
- https://rural.nic.in/departments/departments-of-mord/department-rural-development
- https://rural.nic.in/sites/default/files/Guidelines_Evaluation_Impact_Assessment_Research_Stu dies_Econ omic_Monitoring_Wing.pdf

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

- Physical site visits and case studies to enhance the knowledge of the students, field studies to be based on the Village Planning and Urban Neighbourhood Planning
- Literature study ppts and class discussions

II Semester

CITIES IN HISTORY			
Course Code	21PLN22	CIE Marks	50
Teaching Hours/Week (L:T:S:P:SM:SS)	2:0:0:0:0:1	SEE Marks	50
Total Hours of Pedagogy	48	Total Marks	100
Credits	2	Exam Hours	3

Course objectives:

• History informs the present in various ways. The chief objective of this subject is to understand historical processes of human settlements and development of different patterns. Second, to understand common characteristics of settlements in different time periods, and to appreciate influences of political, economic, technological, social and cultural factors in shaping the city and its role in shaping these societal processes.

Pedagogy (General Instructions)

These are sample Strategies, which teachers can use to accelerate the attainment of the various course outcomes.

- Innovative lecture methodologies to be adapted to improve the teaching and learning process
- Short videos for better understanding of ancient cities in history
- Various forms of Art. Various ideologies of Aristotle and Plato
- Encourage collaborative (Group Learning) learning in the class
- Ask at least three HOT (Higher order Thinking) questions in the class, which promotes critical thinking
- Adapt Problem Based Learning (PBL), which fosters students Analytical skills, develop thinking skills such as the ability to evaluate, generalize, and analyse information rather than simply recall it

Module-1

• Discussion in class to elevate thinking level and different problem solving levels

History and Historical Processes

Significance of studying historical processes; Interpreting history for planning purposes; Concept of time as a dimension of built form; Human settlements as a material expression of civilizational development.

Pedagogy	Taught through ppts, pdf materials and discussions
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Module-2

Settlements in History

Cities in India from medieval to colonial era; Medieval planning in India and their common and distinct elements; Colonial history, built form and town planning; Colonialism and the modernist city in India.

Pedagogy	Taught through ppts, pdf materials and discussions	
Module-3		
Urban Proce	SSES	
Criteria of location and development of towns in Asian history; Political, economic, technological,		
social and cultural factors shaping settlements through history; Indian city typologies and study of		
urban growth, decline, renewal in different cities based on functions, locations, etc.		
Pedagogy	Taught through ppts, pdf materials and discussions	

Module-4

History of Cities in South Asia

Evolution of cities in South Asia, Urban patterns and trends, similarities and differences from Indian cities; Historical challenges and interventions in Asian cities; Examples and case studies from South Asia.

Pedagogy	Taught through group ppts, pdf materials and discussions
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Module-5

Definition and symbols of culture

Concepts of beauty and ugliness; Classical theories of aesthetics; Relationship of aesthetics with other cultural values; Concepts of scale, space, form and structure. Concept of time as dimension of the built form; concept of space and scale as followed through different cultures; the elements of the town, the house, the street, the chowk; social and cultural criteria of location of towns and activities within it

Pedagogy Taught through group ppts, pdf materials and discussions

Course outcome (Course Skill Set)

At the end of the course the student will be able to :

 Upon the completion of this course, the students would be able: To analyse historical processes for overview of urban settlements and their various urban patterns. To identify common elements for categorization of urban patterns based on different parameters. To demonstrate familiarity with chronological evolution of different cities and their functional and spatial characteristics in different time periods. To develop understanding about various urban processes and different parameters affecting the Functioning of a city in terms of its character and pattern.

Assessment Details (both CIE and SEE)

(methods of CIE need to be define topic wise i.e.- MCQ, Quizzes, Open book test, Seminar or micro project)

The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The student has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% marks of maximum marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together. Theory Semester End Exam (SEE) is conducted for 100 marks (3 hours' duration) and scaled down to 50 marks. Based on this grading will be awarded.

Continuous Internal Evaluation:

- 5. Methods suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc.
- 6. The class teacher has to decide the topic for closed book test, open book test, Written Quiz and Seminar. In the beginning only the teacher has to announce the methods of CIE for the subject.

Semester End Examination:

Theory SEE will be conducted by University as per scheduled time table, with common question papers for subject

- 7. The question paper will have ten questions. Each question is set for 20 marks. Marks scored shall be proportionally reduced to 50 marks
- 8. There will be 2 questions from each module. Each of the two questions under a module (with a maximum of 3 sub questions), should have a mix of topics under that module.
- 9. The students have to answer 5 full questions, selecting one full question from each module

Suggested Learning Resources:

Books

- 1. Banga, I. (1991) The City in Indian History, Manohar Publishers and Distributors, New Delhi.
- **2.** Beverley, E. (2011) Colonial Urbanism and South Asian Cities, Social History, Vol. 36, No. 4, pp. 482–497.
- 3. Bosselmann, P. (2008) Urban Transformation, Island Press, Washington, D.C.
- **4.** Chandavarkar, R. (2009) History, Culture, and the Indian City, Cambridge University Press, New Delhi.
- 5. Geddes, P. (1915) Cities in Evolution, Williams and Norgate, London.
- 6. Gallion, A.B. (1950) The Urban Pattern, John Wiley and Sons, London.

Gooptu, N. (2001) The Politics of the Urban Poor in Early Twentieth-Century India, Cambridge University Press, Cambridge.

- 8. Heitzman, J. (2008) The City in South Asia, Routledge, London.
- 9. Kenoyer, J. (1998) Ancient Cities of the Indus Valley Civilization, Oxford University Press, New Delhi.

10. King, A. (1976) Colonial Urban Development: Culture, Social Power, and Environment, Routledge and Kegan Paul, New York.

11. Kostof, S. (1993) The City Shaped: Urban Patterns and Meanings through History, Bullfinch Publishing, Stockholm.

12. Mumford, L. (1961) The City in History: Its Origins, Its Transformations, and Its Prospects, Mariner Books, New York.

13. Richards, J. (1993) The Mughal Empire, Cambridge University Press, New Delhi.

14. Sharma, Y. and Malekandathil, P. (2014) Cities in Medieval India, Primus Books, New Delhi.

15. Smith, M.L. (2003) The Social Construction of Ancient Cities, Smithsonian Books, Washington, D.C.

Web links and Video Lectures (e-Resources):

<u>https://www.my-mooc.com/en/categorie/urban-planning</u>
<u>https://www.youtube.com/watch?v=H1jHdnZ2U3o</u>

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

• Group presentations and discussions on the topics from the modules

SPATIAL DATA INFRASTRUCTURE FOR PLANNING – I			
Course Code	21 PLN23	CIE Marks	50
Teaching Hours/Week (L:T:S:P:SM:SS)	1:0:0:2:0:0	SEE Marks	50
Total Hours of Pedagogy	48	Total Marks	100
Credits	2	Exam Hours	3

Course objectives:

• To expose students to the modern techniques of remote sensing and photo interpretation required for planning. To provide exposure to the students to the available spatial data and organizations involved in providing planning information and also to impart skills for the use of this planning information.

Pedagogy (General Instructions)

These are sample Strategies, which teachers can use to accelerate the attainment of the various course outcomes.

- Innovative lecture methodologies to be adapted to improve the teaching and learning process
- Short videos for better understanding, introduction to practical hands on experience of the softwares
- Encourage collaborative (Group Learning) learning in the class
- Ask at least three HOT (Higher order Thinking) questions in the class, which promotes critical thinking
- Adapt Problem Based Learning (PBL), which fosters students Analytical skills, develop thinking skills such as the ability to evaluate, generalize, and analyze information rather than simply recall it
- Discussion in class to elevate thinking level and different problem solving levels

Module-1

Remote Sensing and Photo Interpretation Remote Sensing:

Definition, aerial and satellite remote sensing; Aerial photo interpretation, qualitative and quantitative elements of photo-interpretation; Satellite remote sensing, geo-stationary and sun-synchronous satellites, principles of electromagnetic radiations, resolutions; Introduction to digital image processing; salient features of popular

remote sensing satellites; Applications in planning along with laboratory exercises

Pedagogy Taught through ppts and pdf materials

Module-2

Photogrammetry Limitations of traditional surveys in planning;

Photogrammetry as an alternative tool for surveying; Aerial photographs, and their classification; Principles of stereoscopic vision; Basic instruments like Stereopair, Pocket and Mirror Stereoscopes, Parallax Bars; Principles of photogrammetry, Measurement of heights and depths; Introduction to digital photogrammetry

Pedagogy Taught through ppts and pdf materials

Module-3

Planning Information Systems

Systems approach to planning as basis for planning information systems; Systems, hierarchy, types; Data and information, value of information, information flows and loops; Information sharing and security; Information systems, types, limitations; New sources of data such as big data and real data.

Pedagogy Taught through group ppts, pdf materials and group discussions Module-4 Human Settlements and Planning Information Systems Information needs, scales and levels of human settlements; Preconditions for using planning information systems; Introduction to various planning information systems

Pedagogy		Taught through group ppts, pdf materials and group discussions
		Module-5
Introduction to spatial data infrastructure Planning information systems in India: NNRMS, NUIS, National Urban Observatory, Municipal information systems, land information systems, cadastre systems; Tools for spatial data handling; Introduction to GIS; BHUVAN; Agencies responsible for generating spatial data. Pedagogy Taught through group ppts, pdf materials, group discussions, laboratory introduction to		
Course oute	softwa	res
Course outc		ourse Skill Set)
• Upon t use of r To show	the course he comp emote s v the ab	pletion of this course, the students would be able: To demonstrate skills about the ensing and photointerpretation for the preparation of land use and land cover maps. ility to use planning information for making planning decisions.
Assessment	Details	(both CIE and SEE)
(methods of project)	CIE ne	ed to be define topic wise i.e MCQ, Quizzes, Open book test, Seminar or micro
TThe weight	age of (Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is
50%. The stu	ident ha	s to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35%
marks of max	ximum 1	marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total
of the CIE	(Contin	uous Internal Evaluation) and SEE (Semester End Examination) taken together.
Theory Seme	ester En	d Exam (SEE) is conducted for 100 marks (3 hours' duration) and scaled down to
50 marks. Ba	used on t	this grading will be awarded.
1. Meth 2. The Se	nods sug class tea minar.	ggested: Test, Open Book test, Written Quiz, Seminar, report writing etc. acher has to decide the topic for closed book test, open book test, Written Quiz and In the beginning only the teacher has to announce the methods of CIE for the
Semester En	nd Exan	nination:
1.]	Theory	SEE will be conducted by University as per scheduled time table, with common
2. T	The que shall be	papers for subject stion paper will have ten questions. Each question is set for 20 marks. Marks scored proportionally reduced to 50 marks
3. (4.]	There w (with a r The stud	fill be 2 questions from each module. Each of the two questions under a module naximum of 3 sub questions), should have a mix of topics under that module. lents have to answer 5 full questions, selecting one full question from each module
Suggested L	earning	g Resources:
Books		
1. Lille Wil	sand, T. ey, Lon	., Kiefer, R.W., and Chipman, J. (2011) Remote Sensing and Image Interpretation, don.
2. Weil New	berg M. York.	. (ed.) (2016) Photogrammetry and Remote Sensing, Syrawood Publishing House,
3. Ralp Bost	h, M.S., on.	, George, W. R. (2016) Fundamentals of Information Systems, Cengage Learning,
4. Hero and	old, M. a Prospec	and Gamba, P. (2009) Global Mapping of Human Settlement: Experiences, Datasets, cts, CRC Press, Taylor and Francis, Boca Raton, Florida.
Web links a	nd Vide	eo Lectures (e-Resources):

- <u>https://www.youtube.com/watch?v=-5dfbW57EwE</u>
- https://www.youtube.com/watch?v=vJAQHA5XQWI&list=PL3MO67NH2XxLAFn3jc7gOhX LD9YFx- oew
- https://www.youtube.com/watch?v=WVC3sKCp6IM

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

- Theoretical discussions on various topics from the modules
- Research based activities

II Semester

PLANNING COMMUNICATION II			
Course Code	21 PLN24	CIE Marks	50
Teaching Hours/Week (L:T:S:P:SM:SS)	1:2:0:0:0:0	SEE Marks	-
Total Hours of Pedagogy	48	Total Marks	50
Credits	2	Exam Hours	-

Course objectives:

• The primary objective of this course is to develop verbal, visual and interpersonal communication skills.

Pedagogy (General Instructions)

These are sample Strategies, which teachers can use to accelerate the attainment of the various course outcomes.

- Innovative lecture methodologies to be adapted to improve the teaching and learning process
- Short videos, model making and activity based methods to be adapted for better understanding
- Encourage collaborative (Group Learning) learning in the class
- Ask at least three HOT (Higher order Thinking) questions in the class, which promotes critical thinking
- Adapt Problem Based Learning (PBL), which fosters students Analytical skills, develop thinking skills such as the ability to evaluate, generalize, and analyse information rather than simply recall it
- Discussions on grammar and other language and software oriented technical topics

Module-1

Written communication

Language and communication, differences between speech and writing, distinct features of speech, distinct features of writing, Reading Skills to find out particular information and get the gist through notes, letters, articles, reports. English comprehension, paraphrasing, summarizing and editing.

Pedagogy Taught through teaching aid, discussion, chalk and talk method, group activities

Module-2

Undertaking Literature Review

Identification of credible journals, books, reports, etc.; How to read literature; Styles of referencing such as Harvard Style of Referencing, APA, etc., Understanding an argument, developing your own interpretations What is an argument, validity and strength of arguments, common fallacies of reasoning, use and abuse of language in reasoning

 Pedagogy
 Taught through teaching aid, discussion, chalk and talk method, group activities

 Module-3

Format and Elements of Reports

Type; Types of reports, difference between technical, scientific, legal and other types of communication; specific characteristics of writing technical reports. Preliminaries: contents, preface, acknowledgements, list of tables and figures; Key words and indexing, Body: introduction, sections and subsections, or chapters, conclusions and recommendations; Appendices; References; knowledge of indexing and available reference materials

Pedagogy	Taught through teaching aid, chalk and talk method, group/individual works discussion, group activities
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Module-4

Writing a Report

Developing a coherent structure for a term paper and report; Introductory, developmental, transitional and concluding paragraphs, linguistic unity, coherence and cohesion, descriptive, narrative, expository and argumentative writing. Report writing,

Pedagogy	Taught through teaching aid, chalk and talk method, group/individual works discussion, group Activities	
	Module-5	
Leadership		
Meaning, Nature and definition, features, f and types of decisi situational approach organization and Soc	d Functions, Leadership styles in organization, Decision Making Decision making; factors, essentials and hindrances in sound decision-making; structure of decisions ons; approaches to study leadership; trait-approach, behavioural approach and ; Leadership in Teams, Meaning and Nature, Types Of power, Relevance in iety. This unit could be covered in workshop format.	
Pedagogy Taught group a	through teaching aid, chalk and talk method, group/individual works discussion, activities	
Course outcome (Co	ourse Skill Set)	
At the end of the course and the course of t	rse the student will be able to :	
 To snow admity To demonstrate 	to read	
 To demonstrate To demonstrate 	the ability to prepare a report.	
• To identify and	name feelings and become aware of patterns of communication of the self.	
• To demonstrate	the ability to undertake literature review.	
• To demonstrate	written communication skills in English.	
• To show knowle	edge about the elements of a report and correct ways of citing sources.	
To show knowle	edge and ability of structuring a report.	
(methods of CIE ne	(DOTA CIE and SEE) ed to be define tonic wise i.e. MCO. Ouizzes. Open book test. Seminar or micro	
project)	ed to be define topic wise he wieg, guizzes, open book test, seminar of micro	
The weightage of Co	ontinuous Internal Evaluation (CIE) is 100% and for Semester End Exam (SEE) is	
Nil, No Semester En	d Exam (SEE) for the subject. The student has to obtain a minimum of 40% marks	
in CIE. Grading will	be awarded based on CIE.	
Continuous Interna	l Evaluation:	
The class teacher has t the beginning only the	o decide the topic for closed book test, open book test, Written Quiz, Seminar, report writing etc. teacher has to announce the methods of CIE for the subject.	
Suggested Learning	Resources:	
Books		
1. Sontang, S. (2014) On Photography, Penguin, Delhi.	
2. Jardin, V. (20	017) Street Photography: Creative Vision behind the Lens, Routledge, New York.	
3. Goleman, D	. (2009) Emotional Intelligence, Bloomsbury, New York.	
4. Zakia, R.D. Massachuset	and Page, D. (2010) Photographic Composition: A Visual Guide, Focal Press, tts.	
5. Field, K. (20	18) Cartography, ESRI Press, California.	
6. Hashimoto, A Charles Riv	A. and Clayton, M. (2009) Visual Design Fundamentals: A Digital Approach, er Media, Needham Heights, M.A.	
Web links and Vide	o Lectures (e-Resources):	
 <u>https://www.</u> <u>https://www.</u> 	inc.com/encyclopedia/written-communication.html teamwork.com/blog/10-ways_leaders_teams/	
• https://www.	00c.0rg/	
Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

- Various activities related to leadership
- Group ppts, group activities, group discussions, debates
- writing skills enhancing activities and assignments

SITE AND LAND DEVELOPMENT				
Course Code	21PLN25	CIE Marks	50	
Teaching Hours/Week (L:T:S:P:SM:SS)	2:2:0:0:0:0	SEE Marks	50	
Total Hours of Pedagogy	64	Total Marks	100	
Credits	3	Exam Hours	3	

Course objectives:

• To develop basic understanding about land development with a particular focus on surveys, geology and hydrology.

Pedagogy (General Instructions)

These are sample Strategies, which teachers can use to accelerate the attainment of the various course outcomes.

- Innovative lecture methodologies to be adapted to improve the teaching and learning process
- Short videos for better understanding, introduction to practical hands on experience of the software's
- Encourage collaborative (Group Learning) learning in the class
- Ask at least three HOT (Higher order Thinking) questions in the class, which promotes critical thinking
- Adapt Problem Based Learning (PBL), which fosters students Analytical skills, develop thinking skills such as the ability to evaluate, generalize, and analyse information rather than simply recall it
- Discussion in class to elevate thinking level and different problem solving levels
- Site visits for surveying etc

Module-1

Fundamentals of Surveying

Principles of surveying, types of surveying, classification of surveys and maps; Plan versus map, accuracy versus precision, sources and kinds of errors; Least squares adjustments and applications; Key principles of land surveying, basics of chain surveying, basics of levelling; Modern methods and instruments, accessories, operations, EDM without reflecting prisms; Total Station: types, instrument description, field techniques, Traversing, motorized total stations, field procedures for total stations in topographic surveys.

 Pedagogy
 Taught through chalk and talk method, ppts and pdf materials

 Module-2

 Topographical Surveying

 Concepts and Techniques and GPS Definitions and procedure for topographic surveying, uses of topographical maps; Relief, methods of representing relief, contours and contour intervals, characteristics of contours, methods of locating contours and interpolation of contours; Dam surveys; Various satellites used

contours, methods of locating contours and interpolation of contours; Dam surveys; Various satellites used by GPS: Differential GPS, Fundamentals of GPS, Application of GPS: GPS Receivers, Hand held GPS Receiver – Function – Field

procedure

Pedagogy	Taught through chalk and talk method, ppts and pdf materials
	Module-3

Geology

Geological structure, land forms, weathering, landslides and mass wasting; Instability of hill slopes; Land and terrain suitability for various types of development; Earthquakes, seismic zoning, disaster prevention and other planning considerations

Pedagogy	Taught through chalk and talk method, ppts and pdf materials
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Module-4

Ground Water

Concept and role in urban and regional planning in different types of terrains; Hydrologic cycle; Groundwater bearing properties of different lithological formations, surface water, reservoirs and springs; Artificial recharge and groundwater mound; Hydrological features in relation of seepage, fluctuation of water table and hydrographs, geological structure and underground passages for water supply; Hydrology and its links with planning; Implications on site selection and development.

Pedagogy Taught through chalk and talk method, PowerPoint Presentations and pdf materials

Module-5

Fundamentals of Geomorphology

Geomorphic classification and Evolution of landforms; Geomorphic cycle and their interpretation; Evolution of typical geomorphic features of India; Description and classification of folds, faults, joints, unconformities, fault planes; Landform types; Landslides, instability of hill slopes and its prevention

Pedagogy Taught through chalk and talk method, ppts and pdf materials, group discussions

Course outcome (Course Skill Set)

At the end of the course the student will be able to :

- To show knowledge and skills about land surveys by actually conducting land surveys by using a range of methods and technologies.
- To demonstrate knowledge and skills about geological and hydrological aspects of land development.

Assessment Details (both CIE and SEE)

(methods of CIE need to be define topic wise i.e.- MCQ, Quizzes, Open book test, Seminar or micro project) The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The student has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% marks of maximum marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together. Theory Semester End Exam (SEE) is conducted for 100 marks (3 hours' duration) and scaled down to 50 marks. Based on this grading will be awarded.

Continuous Internal Evaluation:

- 1. Methods suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc.
- 2. The class teacher has to decide the topic for closed book test, open book test, Written Quiz and Seminar. In the beginning only teacher has to announce the methods of CIE for the subject.

Semester End Examination:

Theory SEE will be conducted by University as per scheduled time table, with common question papers for subject

- 1. The question paper will have ten questions. Each question is set for 20 marks. Marks scored shall be proportionally reduced to 50 marks
- 2. There will be 2 questions from each module. Each of the two questions under a module (with a maximum of 3 sub questions), should have a mix of topics under that module.
- 3. The students have to answer 5 full questions, selecting one full question from each module

Suggested Learning Resources:

Books

- 1. Beer, A.R. and Higgins, C. (2000) Environment Planning for Site Development: A manual for sustainable local planning and design, Second Edition, E and FN Spon, London.
- 2. Dewberry, S.O. (2008) Land Development Handbook: Planning, Engineering, and Surveying, Third Edition, McGraw Hill, New York.
- 3. Syms, P. (2010) Land Development and Design, Wiley, Oxford.

Web links and Video Lectures (e-Resources):

- <u>https://www.youtube.com/watch?v=qaEUB_G75dY</u>
- https://www.youtube.com/watch?v=6COT986SYTQ
- https://prs3.com/site-landplanning/#:~:text=An%20important%20precursor%20of%20any,will%20work%20in%20the%20sp ace.

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

- Group discussions and group ppts
- Surveying a site, principles and methodology
- Usage of lab equipment

ECONOMICS FOR PLANNERS					
Course Code	21PLN26	CIE Marks	50		
Teaching Hours/Week (L:T:S:P:SM:SS)	3:0:0:0:0:0	SEE Marks	50		
Total Hours of Pedagogy	48	Total Marks	100		
Credits	3	Exam Hours	3		
 Creatis Formal planning activity is focused on master plan making and policy implementation. This results in the distribution of critical resources such as land and built environment. Therefore, it is imperative that planners have a good knowledge of macro-economic aspects. Keeping this in view, the main objective of this course is to comprehend and analyse the significance of economic aspects for planning cities and regions. Pedagogy (General Instructions) These are sample Strategies, which teachers can use to accelerate the attainment of the various course outcomes. Innovative lecture methodologies to be adapted to improve the teaching and learning process Various concepts, models in economics for urban and regional planning Visits to concerned site studies, if need be Short videos for better understanding 					
 Ask at least three HOT (Higher order Thinking) questions in the class, which promotes critical thinking Adapt Problem Based Learning (PBL), which fosters students Analytical skills, develop thinking skills such as the ability to evaluate, generalize, and analyse information rather than simply recall it Discussion in class to elevate thinking and different methodologies of problem solving Module-1 Definition and Scope of Economics in Planning Central problems of economics; Micro and macro-economic decisions, and use of economics in planning; 					
economic forces and planning.	an and regional planning and	related sectors; Relatio	onship between		
PedagogyPowerPoint preparation, ca	ase studies, pdf materials				
	Module-2				
Theory of Demand and Supply Laws of demand and supply; Elasticity o	f demand and supply, and its	uses in urban and region	onal planning		
Pedagogy PowerPoint preparation	n, case studies, pdf materials,	problem solving			
Module-3					
Theory of Firm ProductionPerfect and imperfect markets, and market demand and supply; Pricing under different market conditions;Theory of production, factors of production, costs, scale of production; Economies of scale; Economies of agglomeration.					
Pedagogy PowerPoint preparation, ca	Pedagogy PowerPoint preparation, case studies, pdf materials				
	Module-4				
Concepts of Income, Employment and Money Classical and modern approaches; Growth and development indicators; Measures of national income; Defining development and under development through various approaches.					
Pedagogy PowerPoint preparation, c	case studies, pdf materials, pr	oblem solving			

Module-5 **Introduction to Urban and Regional Economics** Use of economic concepts in urban planning, housing, transport, taxes, land use, location, etc.; use of economic concepts in regional planning; location, disparities in development, input output techniques, sectoral development etc. Economic Analysis. Economic Planning in India National and Urban level. PowerPoint preparation, case studies, pdf materials Pedagogy **Course outcome (Course Skill Set)** At the end of the course the student will be able to : Upon the completion of this course, the students would be able: To demonstrate the basic knowledge about macro-economic aspects of the Indian economy and its relationship with urban and regional

planning.

Assessment Details (both CIE and SEE)

(methods of CIE need to be define topic wise i.e.- MCQ, Quizzes, Open book test, Seminar or micro project) The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The student has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% marks of maximum marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together. Theory Semester End Exam (SEE) is conducted for 100 marks (3 hours' duration) and scaled down to 50 marks. Based on this grading will be awarded.

Continuous Internal Evaluation:

- 1. Methods suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc.
- 2. The class teacher has to decide the topic for closed book test, open book test, Written Quiz and Seminar. In the beginning only teacher has to announce the methods of CIE for the subject.

Semester End Examination:

Theory SEE will be conducted by University as per scheduled time table, with common question papers for subject

- 1. The question paper will have ten questions. Each question is set for 20 marks. Marks scored shall be proportionally reduced to 50 marks
- 2. There will be 2 questions from each module. Each of the two questions under a module (with a maximum of 3 sub questions), should have a mix of topics under that module.
- 3. The students have to answer 5 full questions, selecting one full question from each module

Suggested Learning Resources: Books

- - 1. Basu, K. and Maertens, A. (eds.) (2011) The Concise Oxford Companion to Economics in India, Oxford University Press, New Delhi.
 - 2. Bertaud, A. (2018) Order without Design: How Markets Shape Cities, MIT Press, Massachusetts.
 - 3. Behrman, J. and Srinivasan, T.N. (1995) Handbook of Development Economics, Volumes I-III, Elsevier Science, Amsterdam
 - 4. Clark, G.L., Feldman, M.P., Gertler, M.S., Wójcik, D. and Kaiser, A. (eds.) (2018) The New Oxford Handbook of Economic Geography, Oxford University Press, Oxford.
 - 5. Duranton, G., Henderson, J.V., and Strange, W.C. (2015) Handbook of Regional and Urban Economics, Volume 5, Elsevier, Amsterdam.
 - 6. Feldman, M.M.A. (1987) What Kind of Economics for What Kind of Planning? Journal of the American Planning Association, Vol. 53, Issue 4, pp. 427-429.

7. Jacobs, J. (1970) The Economy of Cities, Random House, New York.

- Jenkins, R., Kennedy, L., Mukhopadhyay, P., & Pradhan, K. (2015) Special Economic Zones in India: Interrogating the Nexus of Land, Development and Urbanization, Environment and Urbanization Asia, Vol. 6, No. 1, pp. 1–17.
- 9. Klosterman, R.E. (1985) Arguments for and against planning, Town Planning Review, Vol. 56, No. 1, pp. 5-20.
- Mayer, P. (1993) An Economist's Work in a City Planning Department, Business Economics, Vol. 28, No. 2, pp. 55-58
- 11. Mohanty, P. (2019) Planning and Economics of Cities: Shaping India's Form and Future, Sage, New Delhi.
- 12. Windsor, D. (1986) Why planners need economics, Journal of the American Planning Association, Vol. 52, Issue 3, pp. 260-261

Web links and Video Lectures (e-Resources):

- <u>https://www.worldbank.org/en/research/brief/economic-monitoring</u>
- https://documents1.worldbank.org/curated/en/212581468764694501/pdf/multi0page.pdf
- https://www.youtube.com/watch?v=DQq-zJPSf4U
- https://www.youtube.com/watch?v=hwAr1zbRWLs
- https://www.youtube.com/watch?v=LwLh6ax0zTE

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

- Activities which include applications of economic concepts on regional planning
- Case analysis from each module and problem solving from module 2 & 4

II SEMESTER

PROFESSIONAL WRITING SKILLS IN ENGLISH					
Course Code 21PLN27 / 21EGH28 CIE Marks50					
Teaching Hours/Week (L:T:S:P:SM:SS)	1:1:0:1:0:0	SEE Marks	50		
Total Hours of Pedagogy	48	Total Marks	100		
Credits	2	Exam Hours	2		

Course objectives:

The course (21EGH27) will enable the students,

- To Identify the Common Errors in Writing and Speaking of English.
- To achieve better Technical writing and Presentation skills for employment.
- To read Technical proposals properly and make them to write good technical reports.
- Acquire Employment and Workplace communication skills.
- To learn about Techniques of Information Transfer through presentation in different level.

Language Lab :

To augment LSRW, grammar and Vocabulary skills (Listening, Speaking, Reading, Writing and Grammar, Vocabulary) through tests, activities, exercises etc., comprehensive web-based learning and assessment systems can be referred as per the AICTE / VTU guidelines.

Teaching-Learning Process (General Instructions)

These are sample Strategies, which teacher can use to accelerate the attainment of the various course outcomes.

• Teachers shall adopt suitable pedagogy for effective teaching - learning process. The pedagogy shall involve the combination of different methodologies which suit modern technological tools and

software's to meet the present requirements of the Global employment market.

- (i) Direct instructional method (Low /Old Technology),
- (ii) Flipped classrooms (High/advanced Technological tools),
- (iii) Blended learning (combination of both),
- (iv) Enquiry and evaluation based learning,
- (v) Personalized learning,
- (vi) Problems based learning through discussion,
- (vii) Following the method of expeditionary learning Tools and techniques,

(viii) Use of audio visual methods through language Labs in teaching of of LSRW skills.

• Apart from conventional lecture methods, various types of innovative teaching techniques through videos, animation films may be adapted so that the delivered lesson can progress the students In theoretical applied and practical skills in teaching of communicative skills in general

Module-1

Identifying Common Errors in Writing and Speaking English :

- Advanced English Grammar for Professionals with exercises, Common errors identification in parts of speech, Use of verbs and phrasal verbs, Auxiliary verbs and their forms, Subject Verb Agreement (Concord Rules with Exercises).
- Common errors in Subject-verb agreement, Noun-pronoun agreement, Sequence of Tenses and errors Identification in Tenses. Advanced English Vocabulary and its types with exercises – Verbal Analogies, Words Confused/Misused.

Pedagogy	Chalk and talk method, Power Point presentation to teach Communication skills (LSRW Skills), Creating real time stations in classroom discussions, Giving activities and assignments	
	(Connecting Campus & community with companies' real time situations).	

	Module-2			
Nature and	Style of sensible writing :			
• Organizing Principles of Paragraphs in Documents, Writing Introduction and Conclusion, Importance				
of	Proper Punctuation, The Art of Condensation (Precise writing) and Techniques in Essay writing,			
Co	mmon Errors due to Indianism in English Communication, Creating Coherence and Cohesion,			
Se	ntence arrangements exercises, Practice of Sentence Corrections activities. Importance of			
Su	mmarizing and Paraphrasing.			
Misplaced r	nodifiers, Contractions, Collocations, Word Order, Errors due to the Confusion of words, Common			
errors in the	use of Idioms and phrases, Gender, Singular & Plural. Redundancies & Clichés.			
Pedagogy	Chalk and talk method, Power Point presentation to teach Communication skills (LSRW Skills), Creating real time stations in classroom discussions, Giving activities and assignments			
	(Connecting Campus & community with companies' real time situations).			
	Module-3			
Technical I	Reading and Writing Practices :			
• Reading I	Process and Reading Strategies, Introduction to Technical writing process, Understanding of			
writing	process, Effective Technical Reading and Writing Practices, Introduction to Technical Reports			
writing,	Significance of Reports, Types of Reports.			
Introducti Propose	on to Technical Proposals writing, Types of Technical Proposals, Characteristics of Technical			
• Grammar	Voice and Speech (Active and Passive Voices) and Reported Speech. Spotting Error			
Exercise	- voice and speech (Active and Fassive voices) and Reported Speech, Spotting Error			
Exercis	Chalk and talk method. Power Point presentation to teach Communication skills (LSRW			
Pedagogy	Skills). Creating real time stations in classroom discussions. Giving activities and assignments			
I caugogj	(Connecting Campus & community with company's real time situations).			
	Module-4			
Professiona	l Communication for Employment :			
• The	Listening Comprehension, Importance of Listening Comprehension, Types of Listening,			
Unc	lerstanding and Interpreting, Listening Barriers, Improving Listening Skills. Attributes of a good			
and	poor listener.			
• Rea	aing Skills and Reading Comprehension, Active and Passive Reading, Tips for effective reading.			
• Flej	Jorning for Job Application, Components of a Formar Letter, Formats and Types of official,			
effe	ctive resume for employment, Model Letter of Application (Cover Letter) with Resume, Emails.			
Blo	g Writing, Memos (Types of Memos) and other recent communication types.			
	Chalk and talk method, Power Point presentation to teach Communication skills (LSRW			
Pedagogy	Skills), Creating real time stations in classroom discussions, Giving activities and assignments			
0.01	(Connecting Campus & community with companies' real time situations).			
Module-5				
Professiona	l Communication at Workplace :			
• Group Discussions – Importance, Characteristics, Strategies of a Group Discussions. Group				
Discussions is a Tool for Selection. Employment/ Job Interviews - Importance, Characteristics,				
Stra	Strategies of a Employment/ Job Interviews. Intra and Interpersonal Communication Skills -			
Imp	ortance, Characteristics, Strategies of a Intra and Interpersonal Communication Skills. Non- Verbal			
Cor	nmunication Skills (Body Language) and its importance in GD and PI/JI/EI.			
• Pres	sentation skills and Formal Presentations by Students - Importance, Characteristics, Strategies of			
Pres	Presentation Skills. Dialogues in Various Situations (Activity based Practical Sessions in class by			
Stu	Students).			

Pedagogy	Chalk and talk method, Power Point presentation to teach Communication skills (LSRW Skills), Creating real time stations in classroom discussions, Giving activities and assignments (Connecting Campus & community with companies' real time situations).
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Course outcome (Course Skill Set)

At the end of the course (21EGH27) the student will be able :

- 1. To understand and identify the Common Errors in Writing and Speaking.
- 2. To Achieve better Technical writing and Presentation skills.
- 3. To read Technical proposals properly and make them to Write good technical reports.
- 4. Acquire Employment and Workplace communication skills.
- To learn about Techniques of Information Transfer through presentation in different level.

Assessment Details (both CIE and SEE)

(methods of CIE need to be define topic wise i.e.- MCQ, Quizzes, Open book test, Seminar or micro project) The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The student has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% marks of maximum marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together. Theory Semester End Exam (SEE) is conducted for 100 marks (3 hours' duration) and scaled down to 50 marks. Based on this grading will be awarded.

Continuous Internal Evaluation (CIE):

- 1. Continuous internal evaluation (CIE) needs to be conducted for 50 marks like engineering courses without any changes as per the University scheme and regulation (Modifications are not allowed).
- 2. Methods suggested: Quizzes, written quizzes and tests, Reports writing, Seminar and activities).
- 3. The class teacher has to decide the topic for the closed book test, Written Quiz, and Seminar. In the beginning, only the teacher has to announce the methods of CIE for the subject

Semester End Examination (SEE):

- 1. Professional Writing Skills in English has become a very important component in all engineering and non-engineering competitive examinations. In exams like GRE, TOEFL, IELTS and GATE exam, all state and Central Government recruitment examinations, placement tests and other Examinations, so the pattern of question paper, in general, will be in multiple choice question (MCQ) Pattern. So, to meet the relevance of the recruitment requirement of our Engineering students "Communicative English" Semester end examination (SEE) will be conducted in a multiple choice question (MCQ) pattern.
- 2. MCQ Pattern (Multiple Choice Questions) Semester End Exam (SEE) is conducted for 100 marks . 100 MCQ questions will be set. Duration of examination is 02 hours. Marks scored shall be proportionally reduced to 50 marks

Suggested Learning Resources:

1. A Course in Technical English, Cambridge University Press – 2020.

2. Functional English (As per AICTE 2018 Model Curriculam) Cengage learning India Pvt

Limited [Latest Revised Edition] - 2020.

3. Communication Skills by Sanjay Kumar and Pushp Lata, Oxford University Press - 2018. **Refer it's workbook** for activities and exercises – "Communication Skills – I (A Workbook)" published by Oxford University Press – 2018.

4. Professional Writing Skills in English, Infinite Learning Solutions – (Revised Edition) 2021.

5. Technical Communication – Principles and Practice, Third Edition by Meenakshi Raman and Sangeetha Sharma, Oxford University Press 2017.

6. High School English Grammar & Composition by Wren and Martin, S Chandh & Company Ltd – 2015.
7. Effective Technical Communication – Second Edition by M Ashraf Rizvi, McGraw Hill

Education (India) Private Limited – 2018.

8. Intermediate Grammar, Usage and Composition by M.L.Tichoo, A.L.Subramanian, P.R.Subramanian, Orient Black Swan – 2016.

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

- 1. Contents related activities (Activity-based discussions)
- 2. For active participation of students instruct the students to prepare Flowcharts and Handouts
- 3. Organizing Group wise discussions Connecting to placement activities
- 4. Quizzes and Discussions, Seminars and assignments

II SEMESTER

HEALTH & WELLNESS (SCIENTIFIC FOUNDATIONS OF HEALTH)				
Course Code	21PLN28 / 21SFH29	CIE Marks	50	
Teaching Hours/Week (L:T:S:P:SM:SS)	1:0:0:0:0:1	SEE Marks	50	
Total Hours of Pedagogy	32	Total Marks	100	
Credits	01	Exam Hours	1	
Course objectives:				
The course (21SFH28) will enable the stu	dents,			
• To know about Health and wellne	ess (and its Beliefs),			
• To acquire Good Health & It's ba	lance for positive mindset			
• To Build the healthy lifestyles for	good health for their better fu	iture		
• To Create of Healthy and caring r	elationships to meet the require	rements of MNC and	l LPG world	
 To learn about Avoiding risks and future 	l harmful habits in their camp	us and outside the ca	mpus for their bright	
• To Prevent and fight against harm	ful diseases for good health th	rough positive mind	lset	
	Module-1			
Good Health and It's balance for positi	ve mindset:			
What Health, Why Now? – What influence	es your Health?			
Health and Behaviour, Health beliefs and	advertisements,			
Advantages of good health (Short term an	d long term			
benefits), Health and Society, health and f	family,			
health and Personality - Profession.				
Health and behaviour, Disparities of healt	h in different vulnerable			
groups. Health and psychology, Methods	to improve good			
psychological health.				
Psychological disorders (Stress and Healt	h - Stress management), how t	o maintain good hea	lth, Mindfulness for	
Spiritual and Intellectual health,				
Changing health habits for good				
health. Health and personality				
1 2	RBT Levels	: L1, L2 & L3		
Module-2				
Building of healthy lifestyles for better	future:			
Developing a healthy diet for good health	,			
Food and health, Nutritional guidelines for good health and well				
beingness, Obesity and overweight disorders and its management,				
Eating disorders and proper exercises for	its maintenance (Physical activ	vities for		
health), Fitness components for health,				
Wellness and physical function,				
How to avoid exercise injuries.				
RBT Levels : L1, L2 & L3				

Module-3				
Creation of Healthy and caring relationships :				
Building communication skills (Listening and speaking),				
Friends and friendship - education, the value of				
relationships and communication, Relationships for				
Better or worsening of life, understanding of basic				
instincts of life (more than a biology), Changing health				
behaviours through social engineering,				
RBT Levels : L1, L2 & L3				
Module-4				
Avoiding risks and harmful habits :				
Characteristics of health compromising behaviors,				
Recognizing and avoiding of addictions,				
How addiction develops and addictive behaviors,				
Types of addictions, influencing factors for				
addictions,				
Differences between addictive people and non-addictive people and their behavior with				
society, Effects and health hazards from addictions Such as,				
how to recovery from addictions,				
RBT Levels : L1, L2 & L3				
Module-5				
Preventing and lighting against diseases for good nearth :				
How to protoct from different types of transmitted infections such				
now to protect from different types of transmitted infections such				
as, Current trends of socio economic impact of reducing your risk				
Deducing risks and coming with chapteric conditions				
Management of abronic illness for Quality of life				
Management of chronic timess for Quanty of file,				
Measuring of health and wealth status				
PPT Levels + L1 L2 & L3				
KB1 Levels : L1, L2 & L3				
At the end of the course the student will be able to :				
CO 1: To know about Health and wellness (and its Beliefs) and To know about Health and wellness (and its				
CO(1.10 know about Health and weinless (and its beliefs) and 10 know about Health and weinless (and its Beliefs) $CO(2)$. To acquire Good Health & It's balance for positive mindset				
CO 3: To Build the healthy lifestyles for good health for their better future				
CO 4: To Create of Healthy and caring relationships to meet the requirements of MNC and LPG world				
CO 5: To learn about Avoiding risks and harmful habits in their campus and outside the campus for their				
bright future				
onghi futuro				
CO 6: To Prevent and fight against harmful diseases for good health through positive mindset				

Assessment Details (both CIE and SEE)

(methods of CIE need to be defined topic wise i.e.- Tests, MCQ, Quizzes, Seminar or micro project/Course Project, Term Paper) The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The student has to obtain a minimum of 35% of maximum marks in SEE and a minimum of 40% of maximum marks in CIE. Semester End Exam (SEE) is conducted for 50 marks (hours' duration). Based on this grading will be awarded. The student has to score a minimum of 40% (40 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together. **Continuous Internal Evaluation (CIE)**:

Continuous Internal Evaluation (CIE): Three Unit Tests each of 20 Montes (duration 0

Three Unit Tests each of 20 Marks (duration 01 hour)

- 1. First test at the end of 5th week of the semester
- 2. Second test at the end of the 10th week of the semester
- 3. Third test at the end of the 15th week of the semester

(All testsare similar to the SEE pattern i.e question paper pattern is MCQ) Two assignments each of 10 Marks 4. First assignment at the end of 4th week of the semester

5. Second assignment at the end of 9th week of the semester Report writing /Group discussion/Seminar any one of three suitably planned to attain the COs and POs for 20 Marks(duration 01 hours)

6. At the end of the 13th week of the semester

The sum of three tests, two assignments, and quiz/seminar/group discussion will be out of 100 marks and will be scaled down to 50 marks

CIE methods /question paper is designed to attain the different levels of Bloom's taxonomy as per the outcome defined for the course.

Semester End Examination (SEE):

Theory SEE will be conducted by University as per the scheduled timetable, with common question papers for subject

SEE paper will be set for 50 questions of each of 01 marks. The pattern of the question paper is MCQ. The time allotted for SEE is 01 hours

Suggested Learning Resources:

- 1. **Health Psychology** (Second edition) by Charles Abraham, Mark Conner, Fiona Jones and Daryl O'Connor Published by Routledge 711 Third Avenue, New York, NY 10017.
- 2. **Health Psychology A Textbook,** FOURTH EDITION by Jane Ogden McGraw Hill Education (India) Private Limited Open University Press
- 3. **HEALTH PSYCHOLOGY (Ninth Edition)** by SHELLEY E. TAYLOR University of California, Los Angeles, McGraw Hill Education (India) Private Limited Open University Press
- 4. General Books published for university and colleges references on Health and Wellness.
- 5. SWAYAM / NPTL/ MOOCS/ We blinks/ Internet sources/ YouTube videos and other materials / notes

13.09.2022



Course Code	21 PLN31	CIE Marks	50	
Teaching Hours/Week (L:T:S:P:SM:SS)	0:0:0:10:0:0	SEE Marks	50	
Total Hours of Pedagogy	160	Total Marks	100	
Credits	5	Exam Hours	-	
 Course objectives: With a mix of field visits and studio teach students about techniques and preparation of traffic circulation pla 	o classes involving theory, I methods of traffic and tra an and mobility plan.	the main objective of nsportation planning	this subject is to required for the	
 Pedagogy (General Instructions) These are sample Strategies, which teachers can use to accelerate the attainment of the various course outcomes. Theory subjects and studio to go hand in hand Exposing the students to the Planning guidelines (URDPFI), IRC Innovative lecture methodologies to be adapted to improve the teaching and learning process Short videos for better understanding, physical site visits for understanding the scale and all the aspects of site planning Encourage collaborative (Group Learning) learning in the class Ask at least three HOT (Higher order Thinking) questions in the class, which promotes critical thinking. Adapt Problem Based Learning (PBL), which fosters students Analytical skills, develop thinking skills such as the ability to evaluate, generalize, and analyze information rather than simply recall it. Discussion in class to elevate thinking level and different problem solving levels 				
 This studio focuses on the interrelationship between transportation and land uses, and related economic, social and environmental issues. The key learning objectives are: To appreciate the difference between travel demand and transport supply. As part of travel demand, to learn techniques for assessment, mitigation and management of traffic impact of current and proposed development. To understand key techniques for management and enhancement of transport supply. Area Mobility Plan with an objective to promote and make way for sustainable mobility patterns, improve accessibility and promote liveability. Travel Patterns Study involves analysis of the mobility profile of residents and workers within an area, modes used, trip lengths, trip purpose, etc. Origin destination survey includes analysis by comparing travel patterns with socio economic condition, housing typologies and private vehicle ownership. This will also include public opinion on traffic, noise, accessibility and local environment. Assessment of Travel Demand involves understanding of basic techniques for assessment of traffic impact of existing uses; Surveys and analysis related to traffic generation rates and patterns, parking demand, non-motorized traffic, traffic conditions on surrounding roads and intersections; Basic principles of travel demand modelling could be used to simulate scenarios to test how change in the intensity of use of land could impact traffic in an area. Transport Supply Analysis will diagnose the key transportation issues in an area by undertaking 				

-

studies undertaken earlier.

• Impact of transport on the local environment involves analysis of noise, emissions, safety and quality of life; Developing indicators; Consideration of the needs of excluded groups such as children, elderly and women; Development of strategies consisting of planning, design and management measures.

Pedagogy The theory subject and studio to go hand-in-hand, the application of the theory is to be undertaken for the studio

Course outcome (Course Skill Set)

At the end of the course the student will be able to :

• Upon the completion of this course, the students would be able: To demonstrate skills and knowledge to prepare a traffic and transportation plan, circulation plan or traffic management plan for a human settlement.

Assessment Details (both CIE and SEE)

(methods of CIE need to be define topic wise i.e.- MCQ, Quizzes, Open book test, Seminar or micro project) The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The student has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% marks of maximum marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together. Semester End Exam (SEE) is conducted for 100 marks and scaled down to 50 marks. Based on this grading will be awarded.

Continuous Internal Evaluation:

• Continuous Internal Evaluation (CIE): The CIE marks awarded in case of Studio shall be based on the weekly evaluation of progress of the studio works after the conduction of every Presentation

Semester End Examination:

• Planning Studio SEE will be conducted by the University as per scheduled time table, in a batch wise with external examiner and Internal Examiner reviewing the works of the students.

Suggested Learning Resources:

Books

- 1. Kadiyali L.R. (1999) Traffic Engineering and Transport Planning, Khanna Publishers, New Delhi.
- 2. Sarkar, P.K., Maitri, V. and Joshi, G.J. (2014) Transportation Planning: Principles, Practices and Policies, Prentice Hall India, New Delhi.
- 3. Verma, A. and Ramanayya, T.V. (2014) Public Transport Planning and Management in Developing Countries, CRC Press, London.
- 4. Relevant codes of Indian Road Congress, New Delhi

Web links and Video Lectures (e-Resources):

- https://www.youtube.com/watch?v=uTywQgFmmgI&list=RDCMUCgp23vdLNaUitOkCxxVnRrg&star t_radio=1&rv=uTywQgFmmgI&t=2
- <u>https://www.youtube.com/watch?v=0EIUnwcNLQY</u>
- <u>https://www.youtube.com/watch?v=uTywQgFmmgI</u>
- http://mohua.gov.in/upload/uploadfiles/files/Chap-4.pdf
- http://www.irc.nic.in/

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

• Physical site visits and questionnaire survey to be done, data to be analysed for the studio in order to understand the inter-relationship between transportation and land use.

Pl	LANNING THEORY – I		
Course Code	21 PLN32	CIE Marks	50
Teaching Hours/Week (L:T:S:P:SM:SS)	3:0:0:0:0:0	SEE Marks	50
Total Hours of Pedagogy	48	Total Marks	100
Credits	3	Exam Hours	3

Course objectives:

• This subject builds on the 'Fundamentals of Urban and Regional planning' taught in the first semester. The main objective of this subject is to introduce planning theory and its critical aspects such as rationality, globalization, modernism, postmodernism, sustainability, participation, implementation and evaluation. The second objective of this subject is to critically understand various forms cities have taken under variegated societal regimes.

Pedagogy (General Instructions)

These are sample Strategies, which teachers can use to accelerate the attainment of the various course outcomes.

- Innovative lecture methodologies to be adapted to improve the teaching and learning process
- Various models in planning theory
- Short videos for better understanding
- Encourage collaborative (Group Learning) learning in the class
- Ask at least three HOT (Higher order Thinking) questions in the class, which promotes critical thinking
- Adapt Problem Based Learning (PBL), which fosters students Analytical skills, develop thinking skills such as the ability to evaluate, generalize, and analyze information rather than simply recall it
- Discussion in class to elevate thinking

Module-1

Theory, Planning Theory and Paradigm Development

Definitions of theory in general; Definitions of planning theory including theory of planning, theory in planning and theory about planning; Definition of paradigm and its various stages of development by Kuhn; Significance of planning theory.

Pedagogy

Taught through ppts, pdf materials and discussions

Module-2

Participation in Planning

Public interest and its forms; History and significance of public participation; Methods of public participation; Impediments to public participation and conditions for effective public participation; Public participation and empowerment; Participation, policy formulation and implementation

 Pedagogy
 Taught through ppts, pdf materials and discussions

Module-3 Sustainability, Rationality and Globalization and Theories of City Development Sustainability and rationality in planning; Components of sustainable urban and regional development; Globalization, modernism and postmodernism debate; Pragmatism in planning; Regime theory and urban politics; Compact city approach: concept, advantages and limitations; Forms of cities in developing world, Forms of cities in the developed world; Forms of cities in the former and present socialist countries. Pedagogy Taught through ppts, pdf materials and discussions **Module-4 Theories of City Development** Compact city approach: concept, advantages and limitations; Forms of cities in developing world, Forms of cities in the developed world; Forms of cities in the former and present socialist countries. Taught through ppts, pdf materials and discussions Pedagogy Module-5 Planning, Implementation and Evaluation Need for evaluation; Inseparability of planning and evaluation; Planning theories and evaluation; Methods of evaluating development plans; Theories of implementation of planning policies and development plans. Taught through ppts, pdf materials and discussions Pedagogy **Course outcome (Course Skill Set)** At the end of the course the student will be able to : Upon the completion of this course, the students would be able: To demonstrate knowledge of some of the core concepts of planning theory. To develop critical understanding of various forms cities developed under diverse societal regimes. **Assessment Details (both CIE and SEE)** (methods of CIE need to be define topic wise i.e.- MCQ, Quizzes, Open book test, Seminar or micro project) The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The student has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% marks of

maximum marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together. Theory Semester End Exam (SEE) is conducted for 100 marks (3 hours' duration) and scaled down to 50 marks. Based on this grading will be awarded.

Continuous Internal Evaluation:

- 1. Methods suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc.
- 2. The class teacher has to decide the topic for closed book test, open book test, Written Quiz and Seminar. In the beginning only the teacher has to announce the methods of CIE for the subject.

Semester End Examination:

Theory SEE will be conducted by University as per scheduled time table, with common question papers for subject

- 1. The question paper will have ten questions. Each question is set for 20 marks. Marks scored shall be proportionally reduced to 50 marks
- 2. There will be 2 questions from each module. Each of the two questions under a module (with a maximum of 3 sub questions), should have a mix of topics under that module.
- 3. The students have to answer 5 full questions, selecting one full question from each module

Suggested Learning Resources: Books

1. Alexander, E.R. (2000) Rationality Revisited: Planning Paradigms in a Post-Postmodernist Perspective, Journal of Planning Education and Research, https://doi.org/10.1177/0739456X0001900303

2. Alexander, E.R. (2006) Evaluation in Planning: Evolution and Prospects, Routledge, London.

3. Alexander, E.R. (1989) Planning and plan implementation: notes on evaluation criteria, Environment and Planning B: Planning and Design, Vol. 16, pp. 127-140.

4. Baer, W.C. (1997) General Plan Evaluation Criteria: An approach to making better plans, Journal of the American Planning Association, Vol. 63, No. 3, pp. 329-344.

5. Breheny, M.J. and Hooper, A.J. (eds.) (1985) Rationality in Planning: Critical Essays on the Role of Rationality in Urban and Regional Planning, Pion, London.

6. Cornwall, A. (ed.) (2011) The Participation Reader, Zed Books, London.

7. Goodchild, B. (1990) Planning and the Modern/Postmodern, Debate, Town Planning Review, Vol. 61, No. 2, pp. 119-137.

8. Hull, A., Alexander, E.R., Khakee, A. and Woltzer, J. (eds.) (2012) Evaluation for Participation and Sustainability in Planning, Routledge, London.

9. Irving, A. (1993) The Modern/Postmodern Divide and Urban Planning, University of Toronto Quarterly, Vol. 62 Issue 4, pp. 474-487

10. Kaza, N. (2018) Vain Foresight: Against the Idea of Implementation in Planning, Planning Theory, pp. 1-18. https://doi.org/10.1177/1473095218815201

11. Quick, K.S. and Bryson, J.M. (2016) 'Public Participation', in Jacob Torbing and Chris Ansell (eds.) Handbook in Theories of Governance, Edward Elgar Press, London.

12. Ren, X. and Keil, R. (2018) The Globalization Cities Reader, Second Edition, Routledge, London.

13. Newman, P. and Kenworthy, J. (1999) Sustainability and Cities, Island Press, Washington, D.C.

14. Sassen, S. (ed.) (2002) Global Networks, Linked Cities, Routledge, New York.

15. Sassen, S. (2001) The Global City, Princeton University Press, Princeton.

Web links and Video Lectures (e-Resources):

- Davidoff, P (1965), Advocacy and Pluralism in Planning, Journal of American Institute of Planners, vol. 31. USA.(JOURNAL ARTICLE)
- Lane, M. B. 'Public Participation in Planning: An Intellectual History'. Australian Geographer, Carfax Publishing. 2005. 36 (3), 283-299 (JOURNAL ARTICLE)
- Innes, Judith; Booher, David. 'Public Participation in Planning: New Strategies for the 21st Century'. University of California, Berkeley: Institute of Urban and Regional Development, USA. 2000. (Working Paper)
- S Christensen (1985). Coping with Uncertainty in planning. Journal of the American Planning Association
- https://www.youtube.com/watch?v=HxfbVLE3VEE

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

- Group ppts and discussions of various models
- Ppt preparations on various topics of the modules

	TRAFFIC AND TRANSPORT PLANNING – I						
Course Code21 PLN33CIE Marks							
	Teaching Hours/Week (L:T:S:P:SM:SS)	3:0:0:0:0:0	SEE Marks	50			
	Total Hours of Pedagogy	48	Total Marks	100			
	Credits	3	Exam Hours	3			
	 Course objectives: To understand the concepts of me and their relationships to urban for surveys and their analyses, which plans. 	obility, transport modes, travel porms. To teach how to do vario will help in preparing circulation	patterns, transpor us traffic and trar n and network ma	t networks asportation anagement			
	 Pedagogy (General Instructions) These are sample Strategies, which teacher outcomes. Innovative lecture methodologies Short videos for better understand Giving an exposure to students on Encourage collaborative (Group L Ask at least three HOT (Higher or critical thinking Adapt Problem Based Learning (Fethinking skills such as the ability to simply recall it Discussion in class to elevate thin in the state outcomes in the state outcomes in the state outcomes. 	rs can use to accelerate the attai to be adapted to improve the tea ing the IRC, URDPFI, case study e cearning) learning in the class rder Thinking) questions in the c PBL), which fosters students An to evaluate, generalize, and anal king and problem solving metho	nment of the varie aching and learnin examples and good class, which prome alytical skills, dev yze information ra	ous course g process d practices otes velop ather than			
		Module-1					
	Introducing Transport Planning Transport planning and management; Principles of sustainable mobility; Transport modes, PT, IPT, NMT and their importance; Traffic, travel and their measures and characteristics; Relationship between transport networks and urban form.						
	Pedagogy Taught through ppts, pdfs,	discussions and chalk and talk r	nethod				
		Module-2					
	Transport Surveys Uses and applications of transport surveys; Methods of conducting, analysing and presenting transport surveys such as traffic volume survey, speed studies, pedestrian and walkability studies, PT and IPT studies, parking studies, and origin and destination survey Pedagegy Taught through ppts_pdfs_discussions and chalk and talk method						
		Module-3					
	Traffic Planning and EngineeringUrban and rural road hierarchy, under junctions; Street furniture and landscapin and guidelines; Pedestrian friendly design planning principles.PedagogyTaught through ppts, pdfs,	standing of networks analysis ng; Cycling and pedestrian infra n and planning principles; PT an discussions and chalk and talk r	; cross-sectional structure, norms, nd IPT stops, loca nethod	elements, standards tions and			
		Module-4					

Transport Systems Management

Traffic management methods, applications, advantages and disadvantages; Concept and importance of travel demand management; Methods of demand management.

		_
Pedagogy	Taught through ppts, pdfs, discussions and chalk and talk method	

Module-5

Safety and Environment Transport and Air Pollution, Traffic Noise: Units, sources, and impacts, Measurement of environmental impacts of transport Accidents, typology, accident black spots, Sources of data on accidents, Social Cost of accidents.

Pedagogy Taught through ppts, pdfs, discussions and chalk and talk method

Course outcome (Course Skill Set)

At the end of the course the student will be able to :

• Upon the completion of this course, the students would be able: To identify traffic and transportation planning problems of a human settlement based on various traffic and transportation surveys and their interpretations. To show the ability to prepare circulation and traffic management plans for human settlements.

Assessment Details (both CIE and SEE)

(methods of CIE need to be define topic wise i.e.- MCQ, Quizzes, Open book test, Seminar or micro project)

The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The student has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% marks of maximum marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together. Theory Semester End Exam (SEE) is conducted for 100 marks (3 hours' duration) and scaled down to 50 marks. Based on this grading will be awarded.

Continuous Internal Evaluation:

- 1. Methods suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc.
- 2. The class teacher has to decide the topic for closed book test, open book test, Written Quiz and Seminar. In the beginning only the teacher has to announce the methods of CIE for the subject.

Semester End Examination:

Theory SEE will be conducted by University as per scheduled time table, with common question papers for subject

- 1. The question paper will have ten questions. Each question is set for 20 marks. Marks scored shall be proportionally reduced to 50 marks
- 2. There will be 2 questions from each module. Each of the two questions under a module (with a maximum of 3 sub questions), should have a mix of topics under that module.
- 3. The students have to answer 5 full questions, selecting one full question from each module

Suggested Learning Resources:

Books

- 1. Giuliano, G. and Hanson, S. (eds.) (2017) The Geography of Urban Transportation, Fourth Edition, Guildford, London.
- 2. Kadiyali L.R. (1999) Traffic Engineering and Transport Planning, Khanna Publishers, New Delhi.
- 3. Rodrigue, J.P. (2013) The Geography of Transport Systems, Third Edition, Routledge, London.
- 4. Sarkar P.K., Maitri V. and Joshi G.J. (2014) Transportation Planning: Principles, Practices and Policies, Prentice Hall India Learning Private Limited, New Delhi.

- 5. Saxena, S.C. (1989) A Course in Traffic Planning and Design, Dhanpat Rai and Sons, New Delhi.
- 6. Verma, A. and Ramanayya, T.V. (2014) Public Transport Planning and Management in Developing Countries, CRC Press, London.

Web links and Video Lectures (e-Resources):

- <u>https://www.youtube.com/watch?v=0EIUnwcNLQY&list=PLSPmFdxUKM8aAhNBZFuoNlGAW7bzi6Vlx</u>
- <u>https://www.youtube.com/watch?v=oVnvzKZqXJ4&list=PLSPmFdxUKM8aAhNBZFuoNlGA</u> <u>W7bzi6Vlx&index=15</u>
- https://www.youtube.com/watch?v=Gy3eg49aXOw&list=PLSPmFdxUKM8aAhNBZFuoNlGA W7bzi6Vlx&index=22

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

- Questionnaire preparations
- Group ppt preparations
- Aspects and terminologies of Transportation, research based activities

PLN34 :0:0:0:0 48 3 alysis and preser ects and potentia ans. To provide and public partic ccelerate the attac o improve the te PFI, case study of ing in the class questions in the of	CIE Marks SEE Marks Total Marks Exam Hours ntation of data for als for development exposure to studer ipation in planning caching and learning examples and good class, which promo	50 50 50 100 3 t for the state about state ab
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sters students Ar neralize, and anal	nalytical skills, dev lyze information ra	elop other than
ution, classifica ; Land use class suitability analy	tion, mean, media sification systems; ysis, housing anal	n, mode, Planning ysis, and
b	bution, classifica s; Land use class suitability analy	bution, classification, mean, media s; Land use classification systems; suitability analysis, housing anal

Types and levels of plans, hierarchy of plans, planning process; Forecasting techniques, extrapolation techniques, cohort component techniques, economic analysis techniques; Goal formulation; Developing planning standards; Urban growth models and their uses in forecasting

Pedagogy	Taught through chalk and talk method, discussions
	Module-3
Methods of H	Plan Evaluation
Cost benefit	analysis, planning balance sheet, logical framework approach; Plan evaluation
techniques; P	Purpose of models, types of decision models, linear programming models, threshold
analysis; Age	ent based decision models, Multi-criteria decision models; Plan monitoring and
outcome eval	uation techniques.
Pedagogy	Taught through chalk and talk method
	Module-4
Public Partici	ipation Techniques
participatory n	nethods in planning
Pedagogy	Taught through chalk and talk method
	Module-5
Decision Mak	ting Models
Purpose of M	odels, types of decision models, linear programming models, threshold analysis and
other decision	models.
Pedagogy	Taught through chalk and talk method, discussions
Course outcome	e (Course Skill Set)
At the end of the • Upon the c perform pla type of deve for plan eva	course the student will be able to : completion of this course, the students would be able: To demonstrate the ability to anning data analysis, and make presentations. To identify issues and potentials for any elopment plan and project. To demonstrate the ability to provide technique based inputs luation involving public participation.
Assessment Deta	ails (both CIE and SEE)
(methods of CIE	a need to be define topic wise i.e MCQ, Quizzes, Open book test, Seminar or micro
project)	
The weightage o	of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is
50%. The student	t has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35%
marks of maximu	um marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total
of the CIE (Cor	ntinuous Internal Evaluation) and SEE (Semester End Examination) taken together.
Theory Semester	End Exam (SEE) is conducted for 100 marks (3 hours' duration) and scaled down to
50 marks. Based	on this grading will be awarded.
Continuous Inte	ernal Evaluation:
1. Methods	suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc.
2. The class	s teacher has to decide the topic for closed book test, open book test, Written Quiz and

Seminar. In the beginning only the teacher has to announce the methods of CIE for the subject.

Semester End Examination:

Theory SEE will be conducted by University as per scheduled time table, with common question papers for subject

- 1. The question paper will have ten questions. Each question is set for 20 marks. Marks scored shall be proportionally reduced to 50 marks
- 2. There will be 2 questions from each module. Each of the two questions under a module (with a maximum of 3 sub questions), should have a mix of topics under that module.
- 3. The students have to answer 5 full questions, selecting one full question from each module

Suggested Learning Resources:

Books

- 1. Kelley R.M. (1988) Planning Techniques (Basic and Advanced), Kelley Communication Development, Indiana University Press, Bloomington, Indiana.
- Jepson, E.J. and Jerry W. (2016) Fundamentals of Plan Making: Methods and Techniques, Routledge, New York.
- 3. Field, B. and MacGregor, B.D. (2018) Forecasting Techniques for Urban and Regional Planning, Taylor and Francis Group, London.
- 4. Klosterman R.E. (1990) Community Analysis and Planning Techniques, Rowman and Littlefield Publishers, Lanham, Maryland.

Web links and Video Lectures (e-Resources):

- Government of India (2015), Urban and Regional Development Plans Formulation and Implementation (URDPFI) Guidelines. Vol.I, Town and Country Planning Organisation, Ministry of Urban Development, New Delhi.
- https://planningtank.com/planningtechniques/methods-of-conductingdensity-survey-or-land-usesurvey-of-a-city 3. https://www.economicsnetwork.ac.uk/sites/ default/files/Dave%20Clark/1002a.pdf 4. www.tcd.ie/Economics/staff/paredesm/EC 2040/Lecture06.pdf

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

• Group presentations from various topics in the modules

	URBAN AND REGION	AL INFRASTRUCTURE F	PLANNING	
Course Code		21 PLN35	CIE Marks	50
Teaching Hours/	Week (L:T:S:P:SM:SS)	3:0:0:0:0:0	SEE Marks	50
Total Hours of P	edagogy	48	Total Marks	100
Credits		3	Exam Hours	3
Course objective • To facility to introd students	es: tate planning students to un uce basics of urban and reg for taking up innovative tee	derstand the role of planner ional infrastructure planning chniques for the provision of	in infrastructure pla To give exposure infrastructure.	nning and to
Pedagogy (Gene These are sample outcomes. •] • 2 • 4 • 4 • 4 • 4 • 4 • 4 • 4 • 4	eral Instructions) e Strategies, which teachers Innovative lecture methodo process Short videos for better unde Giving an exposure to stude Encourage collaborative (G Ask at least three HOT (Hig promotes critical thinking Adopt Problem Based Lear develop thinking skills such information rather than sim Various analysis at regional Discussion in class to eleva	can use to accelerate the atta logies to be adapted to impro- erstanding ents on the URDPFI, case stu- roup Learning) learning in th gher order Thinking) question ning (PBL), which fosters stu- as the ability to evaluate, ge- ply recall it l level te thinking	ainment of the vario ove the teaching and dy examples, speci- te class as in the class, which adents Analytical sl eneralize, and analy	ous course d learning al areas ch cills, ze
		Module-1		
Concepts and T Role of physica infrastructure p Infrastructure ne infrastructure gi	Cerminologies in Infrastru al planner in planning of planning and its implication etworks at urban, rural, and ven by various agencies.	acture Planning urban, rural and regional i ions for public health and l regional level; Manual, cod	nfrastructure; Obje environmental p e and standards for	ectives of rotection; different
 Pedagogy Ta	aught through chalk and tal	k methods, ppts and pdfs		
		Module-2		
Storm Water S Understanding precipitation and of runoff, hydro measures in ur harvesting syste	ystem hydrology, its classificati d its measurement techniqu ograph, discharge from sma ban and rural areas; Lay m at area level and beyond	on, hydrological cycle, ur es, rainfall analysis; Surface ll and big rivers; Flood frequ out and design of storm y	ban water cycle; water runoff, meas lencies, and flood p water systems; Ra	Types of surements protection in water
Pedagogy	Taught through chalk and	talk methods, ppts and pdfs		

Module-3

Water Supply

Sources of water and intakes; Treatment, quality and quantity, area requirements of components of water supply system; Water distribution system; Water requirements for different land uses, factors affecting water demand, per capita requirements and variations; Planning for various uses of water;

Pedagogy

gy Taught through chalk and talk methods, ppts and pdfs

Module-4

Sanitation and Sewerage Systems

Sources of water and intakes; Methods of sanitations; Off-site and onsite sanitation and technology; Low cost appropriate technologies; Standards for Indian cities; Sewerage system networks and layout planning; Sewage disposal methods, location criteria and capacity; Case studies of innovative sanitation approaches, financing and cost recovery for sewer system.

Pedagogy

Taught through chalk and talk methods, ppts, pdfs, discussions

Module-5

Solid Waste Management and Other Services

Solid waste management for Indian cities, quantity of solid waste and its character; Methods of solid waste management, collection, transportation and disposal; Land filling and composting, pre and post treatment, location and cost aspects of different methods of solid waste disposal systems; Community participation and involvement of NGOs in efficient solid waste management. Best Practices. Provision of telecommunication services- locational criteria for mobile phone towers. gas and oil pipelines., Electric substations requirements, capacity, location and space requirements.

Pedagogy Taught through chalk and talk methods, ppts, pdfs, discussions

Course outcome (Course Skill Set)

At the end of the course the student will be able to :

• Upon the completion of this course, the students would be able: To demonstrate knowledge and skills about techniques of infrastructure planning. To apply this knowledge for the preparation of different kind of development plans and projects at different scales.

Assessment Details (both CIE and SEE)

(methods of CIE need to be define topic wise i.e.- MCQ, Quizzes, Open book test, Seminar or micro project)

The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The student has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% marks of maximum marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together. Theory Semester End Exam (SEE) is conducted for 100 marks (3 hours' duration) and scaled down to 50 marks. Based on this grading will be awarded.

Continuous Internal Evaluation:

- 1. Methods suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc.
- 2. The class teacher has to decide the topic for closed book test, open book test, Written Quiz and Seminar. In the beginning only the teacher has to announce the methods of CIE for the subject.

Semester End Examination:

Theory SEE will be conducted by University as per scheduled time table, with common question papers for subject

1. The question paper will have ten questions. Each question is set for 20 marks. Marks scored

shall be proportionally reduced to 50 marks

- 2. There will be 2 questions from each module. Each of the two questions under a module (with a maximum of 3 sub questions), should have a mix of topics under that module.
- 3. The students have to answer 5 full questions, selecting one full question from each module

Suggested Learning Resources:

Books

- 1. Parkin J. and Sharma D. (1999) Infrastructure Planning, T. Telford, London.
- 2. Santen J.D. and Liptan, T.W. (2017) Sustainable Storm Water Management: A Landscape Driven Approach to Planning and Design, Timber Press, Portland, Oregon.
- 3. Sperling M.V. (1996) Wastewater Characteristics, Treatment and Disposal, IWA Publishing, London.
- 4. Chandrappa R., Das D.B. (2012) Solid Waste Management: Principles and Practice, Springer, Heidelberg

Web links and Video Lectures (e-Resources):

- <u>https://www.youtube.com/watch?v=bxNSXutf3N4&list=PLFGUksPYY9Qp5rLjedeUIwcu13eA</u> <u>eETkh</u>
- <u>https://www.youtube.com/watch?v=fed36kdoRlw&list=PLFGUksPYY9Qp5rLjedeUIwcu13eA</u> <u>eETkh&index=14</u>
- https://www.youtube.com/watch?v=rQB8Y5WHtaE&list=PLFGUksPYY9Qp5rLjedeUIwcu13e AeETkh&index=33

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

• Group ppt preparations and discussions on various topics in the modules

	SOCIAL CONN	ECT AND RESPONSIBILI	ГҮ				
Course Code		21 UHV36	CIE Marks	50			
Teaching Hou	rs/Week (L:T:S:P:SM:SS)	2:0:0:0:0:0	SEE Marks	50			
Total Hours o	f Pedagogy	32	Total Marks	100			
Credits		1	Exam Hours	3			
Course objec • Enabl social proble • Provie • Enabl	 Course objectives: Enable the student to do a deep drive into societal challenges being addressed by NGO(s), social enterprises & The government and build solutions to alleviate these complex social problems through immersion, design & technology. Provide a formal platform for students to communicate and connect to their surroundings. Enable to create of a responsible connection with society. Learning Outcomes: 						
Learning Out The students a 1. Und 2. Pra 3. Sho Contents: The course is to connect with students inr in activities cond been listed : Plantation and	The students are expected to have the ability to : 1. Understand social responsibility 2. Practice sustainability and creativity 3. Showcase planning and organizational skills Contents: The course is mainly activity-based that will offer a set of activities for the student that enables them to connect with fellow human beings, nature, society, and the world at large. The course will engage students inr interactive sessions, open mic, reading groups, storytelling sessions, and semester-long activities conducted by faculty mentors. In the following a set of activities planned for the course have been listed : Module-1						
group of B.Te describing the	group of B.Tech. students. They will also make an excerpt either as a documentary or a photoblog describing the plant's origin, its usage in daily life, and its appearance in folklore and literature.						
Pedagogy	Taught through chalk and tal	k methods, ppts and pdfs					
		Module-2					
Heritage wa connecting to and documen	Heritage walk and crafts corner: Heritage tour, knowing the history and culture of the city, connecting to people around through their history, knowing the city and its craftsman, photoblog and documentary on evolution and practice of various craft forms.						
Pedagogy	Taught through chalk and	talk methods, ppts and pdfs					
		Module-3					
Organic far	ming and waste managemen	t: usefulness of organic farmi	ng, wet waste man	nagement			
in neighborin	g villages, and implementation	n in the campus.					
Pedagogy	Taught through chalk and tal	k methods, ppts and pdfs					
Water Conse in the campus	rvation: knowing the present , documentary or photo blog p	Module-4 practices in the surrounding resenting the current practices	villages and implo	ementation			
Pedagogy	Taught through chalk and tal	k methods, ppts, pdfs, discuss	ions				
		Module-5					

Food Walk	City's	culinary	practices,	food	lore,	and	indigenous	materials	of	the	region	used	in
cooking.													

Pedagogy Taught through chalk and talk methods, ppts, pdfs, discussions

Activities

Jamming session, open mic, and poetry: Platform to connect to others. Share the stories with others. Share the experience of Social Connect. Exhibit the talent like playing instruments, singing, one-act play, art-painting, and fine art.

PEDAGOGY

The pedagogy will include interactive lectures, inspiring guest talks, field visits, social immersion, and a course project. Applying and synthesizing information from these sources to define the social problem to address and take up the solution as the course project, with your group. Social immersion with NGOs/social sections will be a key part of the course. Will all lead to the course project that will address the needs of the social sector?

COURSE TOPICS:

The course will introduce social context and various players in the social space, and present approaches to discovering and understanding social needs. Social immersion and inspiring conversional will culminate in developing an actual, idea for problem-based intervention, based on an in-depth understanding of a key social problem.

A total of 14-20 hrs engagement per semester is required for the 3rd semester of the B.E. /B.Tech. program. The students will be divided into 10 groups of 35 each. Each group will be handled by two **faculty mentors.** Faculty mentors will design the activities (particularly Jammingsessions open mic ,and poetry) **Faculty mentors** has to design the evaluation system.

Assessment Details (both CIE and SEE)

Continuous Internal Evaluation:

After completion of, the social connect, the student shall prepare, with daily diary as reference, a comprehensive report in consultation with the mentor/s to indicate what he has observed and learned in the social connect period. The report should be signed by the mentor. The report shall be evaluated on the basis of the following criteria and/or other relevant criteria pertaining to the activity completed.

Marks allotted for the diary are out of 50.

Planning and scheduling the social connect

Information/Data collected during the social connect

Analysis of the information/data and report writing

Considering all above points allotting the marks as mentioned below

Excellent	80 to 100
Good	60 to 79
Satisfactory	40 to 59
Unsatisfactory and fail	< 39

Semester End Examination:

This Jamming session will be conducted at the end of the course for 50 marks

Jamming session includes -Platform to connect to others. Share the stories with others. Share the experience of Social Connect. Exhibit the talent like playing instruments, singing, one-act play, art-painting, and fine art.

Faculty mentor has to design the evaluation system for Jamming session.

Suggested Learning Resources: Books

Web links and Video Lectures (e-Resources):

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

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SAMS	SKRUTHIKA KANNADA		
Course Code	21KSK37/21KBK37	CIE Marks	50
Teaching Hours/Week (L:T:S:P:SM:SS)	1:0:0:0:0:0	SEE Marks	50
Total Hours of Pedagogy	16	Total Marks	100
Credits	1	Exam Hours	1
 ವೃತ್ತಿಪರ ಪದವಿ ವಿದ್ಯಾರ್ಥಿಗಳಾಗಿರುವುದರಿಂದ ಮಾಡಿಕೊಡುವುದು. ಕನ್ನಡ ಸಾಹಿತ್ಯದ ಪ್ರಧಾನ ಭಾಗವಾದ ಅಧುನಿ ವಿದ್ಯಾರ್ಥಿಗಳಲ್ಲಿ ಸಾಹಿತ್ಯ ಮತ್ತು ಸಂಸ್ಕೃತಿಯ ಬಗ್ಗ 3. ತಾಂತ್ರಿಕ ವ್ಯಕ್ತಿಗಳ ಪರಿಚಯವನ್ನು ಹಾಗೂ ಅವರ 4. ಕನ್ನಡ ಶಬ್ದಸಂಪತ್ತಿನ ಪರಿಚಯ ಮತ್ತು ಕನ್ನಡ ಭಾ ಬೊಧನೆ ಮತ್ತು ಕಲಿಕಾ ವ್ಯವಸ್ಥೆ (Teaching-Learning F These are sample Strategies, which teacher can 1. ಸಾಂಸ್ಕೃತಿಕ ಕನ್ನಡವನ್ನು ಬೋಧಿಸಲು ತರಗಳ ಅನುಸರಿಸುವುದು. ಹ್ರಮುಖ ಅಂಶಗಳ ಚಾರ್ಟ್ ಅವುಗಳನ್ನು ಚರ್ಚಿಸಲು ಅವಕಾಶ ಮಾಡಿಕೊಡುವು 2. ಇತ್ತೀಚಿನ ತಂತ್ರಜ್ಞಾನದ ಅನುಕೂಲಗಳನ್ನು ಭ ಲೇಖನೆಗಳು ಮತ್ತು ಕಥ ಕಾವ್ಯಗಳ ಮೂಲ ರ ವಿಮರ್ಶಕರು ಬರದಿರುವ ವಿಮರ್ಶಾತ್ಮಕ ವಿಷಯಗ 3. ನವೀನ ಮಾದರಿಯ ಸಾಹಿತ್ಯ ಬೋಧನಗ ಸಂಬ ಅಳವಡಿಸಿಕೊಳ್ಳಬಹುದು. ಘಟಕ -1 ಲೇಖನೆಗಳು 	ದ ಕನ್ನಡ ಭಾಷೆ, ಸಾಹಿತ್ಯ ಮತ್ತು ಶಿಕ ಪೂರ್ವ ಮತ್ತು ಅಧುನಿಕ ಕಾವ್ಯಗಳ ಗ್ಗೆ ಅರಿವು ಹಾಗೂ ಆಸಕ್ತಿಯನ್ನು ಮೂಡಿಸ ಬಗಳ ಸಾಧಿಸಿದ ವಿಷಯಗಳನ್ನು ಪರಿಚಂ ಎಷೆಯ ಬಳಕೆ ಹಾಗೂ ಕನ್ನಡದಲ್ಲಿ ಪತ್ರ ಪ ನಾccess – General Instructions) : n use to accelerate the attainmer ತಿಯಲ್ಲಿ ಶಿಕ್ಷಕರು ಪ್ರಸ್ತುತ ಪುಸ್ತಕ ಆಧ ಗಳನ್ನು ತಯಾರಿಸಲು ವಿದ್ಯಾರ್ಥಿಗಳನ ವಿದು. ಬಳಸಿಕೊಳ್ಳುವುದು – ಅಂದರೆ ಕವಿ-ಕಾ ಅಂಶಗಳಿಗೆ ಸಂಬಂಧಪಟ್ಟ ಧ್ವನಿ ಚಿತ್ರಗ ಗಳನ್ನು ಟಿಪಿಟಿ, ಡಿಜಿಟಲ್ ಮಾಧ್ಯಮಗಳ ಂಧಪಟ್ಟ ವಿಧಾನಗಳನ್ನು ಶಿಕ್ಷಕರು ವಿದ್ಯಾಥಿ	ಕನ್ನಡದ ಸಂಸ್ಕೃತಿಯ ನ ಳನ್ನು ಸಾಂಕೇತಿಕವಾಗಿ ಪಡ ರುವುದು. ವ್ಯವಹಾರವನ್ನು ತಿಳಿಸಿಕೊಡ ಗ of the course outcom ಸಾರಿಸಿ ಬ್ಲಾಕ್ ಬೋರ್ಡ್ ನ್ನು ಪ್ರೇರೇಪಿಸುವುದು ಮತ್ತು ವ್ಯ ಪರಿಚಯದಲ್ಲಿ ಕವಿಗಳ ಳು, ಸಂಭಾಷಣೆಗಳು, ಈಗ ಮುಖಾಂತರ ವಿಶ್ಲೇಷಿಸುವುದು	ಪರಿಚಯ ರಿಚಯಿಸಿ ರಿವುದು. ಎಧಾನವನ್ನು ತರಗತಿಯಲ್ಲಿ ಚಿತ್ರಣ ಮತ್ತು ಗಾಗಲೇ ಇತರ ರೀತಿಯಲ್ಲಿ
 ಕರ್ನಾಟಕ ಸಂಸ್ಕೃತಿ - ಹಂಪ ನಾಗರಾಜಯ್ಯ 			
2. ಕರ್ನಾಟಕದ ಏಕೀಕರಣ : ಒಂದು ಅಪೂರ್ವ ಚ	ಕರಿತ್ರೆ - ಜಿ. ವೆಂಕಟಸುಬ್ಬಯ್ಯ		
3. ಆಡಳಿತ ಭಾಷೆಯಾಗಿ ಕನ್ನಡ - ಡಾ. ಎಲ್. ತಿಪ	ಮ್ಮೇಶ ಮತ್ತು ಪ್ರೋ. ವಿ. ಕೇಶವಮೂತಿಗ		
ಬೋಧನ ಪುಸ್ತಕ ಅಧಾರಿತ ಬ್ಲಾಕ್ ಬೋರ್ಡ್ ವಿಧ ಮತ್ತು ಕಲಿಕಾ ಮಾಧ್ಯಮದ ವಿಡಿಯೋಗಳನ್ನು ಬಳಸುವ ವಿಧಾನ	ರಾನ, ಪ್ರಮುಖ ಅಂಶಗಳ ಚಾರ್ಚ್ ಗಳನ್ನು ರಿದು, ವಿದ್ಯಾರ್ಥಿಗಳೊಂದಿಗೆ ಚಟುವಟಿಕೆಗಳ	ಬಳಸುವುದು, ಪಿಪಿಟಿ ಮತ್ತು ತಿ ಮುಖಾಂತರ ಚರ್ಚಿಸುವುದು	ದ್ರಶ್ಯ ೧.

ಘಟಕ -2 ಆಧ	ುನಿಕ ಪೂರ್ವದ ಕಾವ್ಯ ಭಾಗ
1. ವಚನಾ	ಗಳು : ಬಸವಣ್ಣ, ಅಕ್ಕಮಹಾದೇವಿ, ಅಲ್ಲಮಪ್ರಭು, ಆಯ್ದಕ್ಕಿ ಮಾರಯ್ಯ, ಜೇಡರದಾಸಿಮಯ್ಯ, ಆಯ್ದಕ್ಕಿ ಲಕ್ಕಮ್ಮ.
2. ද ීමේ ව	ನೆಗಳು : ಅದರಿಂದೇನು ಫಲ ಇದರಿಂದೇನು ಫಲ – ಪುರಂದರದಾಸರು
	ತಲ್ಲಣಿಸದಿರು ಕಂಡ್ಯ ತಾಳು ಮನವೇ – ಕನಕದಾಸರು
3. ತತ್ವವ	ದಗಳು : ಸಾವಿರ ಕೊಡಗಳ ಸುಬ್ಬ - ಶಿಶುನಾಳ ಶರೀಫ
ಬೋಧನ ಮತ್ತು	ಪುಸ್ತಕ ಅಧಾರಿತ ಬ್ಲಾಕ್ ಬೋರ್ಡ್ ವಿಧಾನ, ಪ್ರಮುಖ ಅಂಶಗಳ ಚಾರ್ಟ್ ಗಳನ್ನು ಬಳಸುವುದು, ಪಿಪಿಟಿ ಮತ್ತು ದೃಶ್ಯ
ಕಲಿಕಾ ವಿಧಾನ	ಮಾಧ್ಯಮದ ವಿಡಿಯೋಗಳನ್ನು ಬಳಸುವುದು, ವಿದ್ಯಾರ್ಥಿಗಳೊಂದಿಗೆ ಚಟುವಟಿಕೆಗಳ ಮುಖಾಂತರ ಚರ್ಚಿಸುವುದು.
ಘಟಕ -3 ಆಧು	ನಿಕ ಕಾವ್ಯಭಾಗ
1. යිඨස්	ರವರ ಮಂಕುತಿಮ್ಮನ ಕಗ್ಗದಿಂದ ಅಯ್ದ ಕೆಲವು ಭಾಗಗಳು
2. ಕುರುದ	ಶಿ ಕಾಂಚಾಣ : ದಾ.ರಾ. ಬೇಂದ್ರೆ
3. ಹೊಸಂ	ಬಾಳಿನ ಗೀತೆ : ಕುವೆಂಪು
ಬೋಧನ	ಪುಸ್ತಕ ಅಧಾರಿತ ಬ್ಲಾಕ್ ಬೋರ್ಡ್ ವಿಧಾನ, ಪ್ರಮುಖ ಅಂಶಗಳ ಚಾರ್ಚ್ ಗಳನ್ನು ಬಳಸುವುದು, ಪಿಪಿಟಿ ಮತ್ತು ದೃಶ್ಯ.
ಮತ್ತು ಕಲಿಕಾ	ಮಾಧ್ಯಮದ ವಿಡಿಯೋಗಳನ್ನು ಬಳಸುವುದು, ವಿದ್ಯಾರ್ಥಿಗಳೊಂದಿಗೆ ಚಟುವಟಿಕೆಗಳ ಮುಖಾಂತರ ಚರ್ಚಿಸುವುದು.
ವಿಧಾನ	
ಪಟಕ -4 ತಾ	ುತ್ತಿಕ ವ್ಯಕ್ತಿಗಳ ಪರಿಚಯ
1. ശി.ന	ುರ್. ಎಂ. ಎಶ್ವೀಶ್ವರಯ್ಯ : ವ್ಯಕ್ತ ಮತ್ತು ಬತಹ್ಯ - ಎ ಎನ್ ಮೂರ್ತರಾವ್ ಮು. ಮತ್ತಿರುವ ಮತ್ತು ಮತ್ತು ವರ್ಷವತ್ತಿಯ ನಿಜ್ಞಾನ ವರ್ಷವಾದ ನಿಜನವವನಿ
2. 8080	ಶಲ ಕಲಗಳು ಮತ್ತು ಪರಂಪರಯ ವಜ್ಞಾನ : ಕರೇಗೌಡ ಬೇಚನಹಳ್ಳ
ಬೋಧನ	ಪುಸ್ತಕ ಅಧಾರಿತ ಬ್ಲಾಕ್ ಬೋರ್ಡ್ ವಿಧಾನ, ಪ್ರಮುಖ ಅಂಶಗಳ ಚಾರ್ಚ್ ಗಳನ್ನು ಬಳಸುವುದು, ಪಿಪಿಟಿ ಮತ್ತು ದೃಶ್ಯ
ಮತ್ತು ಕಲಿಕಾ	ಮಾಧ್ಯಮದ ವಿಡಿಯೋಗಳನ್ನು ಬಳಸುವುದು, ವಿದ್ಯಾರ್ಥಿಗಳೊಂದಿಗೆ ಚಟುವಟಿಕೆಗಳ ಮುಖಾಂತರ ಚರ್ಚಿಸುವುದು.
ವಿಧಾನ	
ಘಟಕ -5 ಕಥೆ	ಮತ್ತು ಪ್ರವಾಸ ಕಥನ
1. ഡാന	ಾದಿ : ವಸುಧೇಂದ್ರ
2. ಮೆಗಾ	ನೆ ಎಂಬ ಗಿರಿಜನ ಪರ್ವತ : ಹಿ.ಚಿ. ಬೋರಲಿಂಗಯ್ಯ
ಬೋಧನ	ಪುಸ್ತಕ ಅಧಾರಿತ ಬ್ಲಾಕ್ ಬೋರ್ಡ್ ವಿಧಾನ, ಪ್ರಮುಖ ಅಂಶಗಳ ಚಾರ್ಚ್ ಗಳನ್ನು ಬಳಸುವುದು, ಪಿಪಿಟಿ ಮತ್ತು ದೃಶ್ಯ
ಮತ್ತು ಕಲಿಕಾ	ಮಾಧ್ಯಮದ ವಿಡಿಯೋಗಳನ್ನು ಬಳಸುವುದು, ವಿದ್ಯಾರ್ಥಿಗಳೊಂದಿಗೆ ಚಟುವಟಿಕೆಗಳ ಮುಖಾಂತರ ಚರ್ಚಿಸುವುದು.
ವಿದಾನ	
ಾಂಸ ತಿಕ ಕಾ	ುಡ ಕಲಿಕೆಯಿಂದ ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ ಆಗುವ ಪರಿಷಾಮಗಳು (course Outcomes):
1 ಕನಡು	್ಷ ಪ್ರಾಹಿತ ನುತ್ತು ಕನಡಗ ಸಂಸ್ಥ ತಿಯ ಪಡಿತಿಯವಾಗುತ್ತದೆ.
1. ບາລູເຜີຍ ງີ	ಸಾಜ, ನಾಹತ್ಯ ಮತ್ತು ರನ್ನಡದ ನರನ್ನ ಅದು ವಿರವಿಯದಾಗಿ ಶಕ್ತದೆ. ವಾಸಿ ವ ಕಾಸ್ತ್ರಾನ ಸ್ವಾರ್ತವನ್ನು ಅವು ಸಿಕ್ಕ ಸಾವ್ರಕ್ಷಣೆ, ಮತ್ತು ಸಂಸ್ಥೆ ಸಿಕ್ಕು ಬಸೆ ಅವಸಿಯು ಮಂಡುವಡೆ.
2. ON GA	ಾಹತ್ಯದ ಆಧುನಕ ಪೂರ್ವ ಮತ್ತು ಆಧುನಕ ಕಾರ್ಪ್ಯಗಳು ಮತ್ತು ನರನ್ನೈ ಆದು ಬಗ್ಗೆ ಅನಕ್ತಿಯು ಮೂಡುತ್ತದೆ. ನ ನ ಸಿನಟ್ ಪಡಿಸದೇವಾನುವನೆ
ა. დაიფ 	5 a,gn7 a0amanoga.
4. రన్నడ శ	ನಾಡಾಭ್ಯಾಸ, ಸಾಮಾನ್ಯ ಕನ್ನಡ ಹಾಗೂ ಆಡಳಿತ ಕನ್ನಡದ ಐದಗಳ ಪರಚಯವಾಗುತ್ತದೆ.
ಟೌಲ್ಯಮಾಪನ	ದ ವಿಧಾನ (Assessment Details- both CIE and SEE) :
nethods of Cl	E - MCQ, Quizzes, Open book test, Seminar or micro project)

The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The student has to obtain a minimum of 40% marks individually both in CIE and 35% marks in SEE to pass. Theory Semester End Exam (SEE) is conducted for 50 marks (01 hour duration). The student has to get 40% out of total marks for course (ie. CIE+SEE marks). Based on this grading will be awarded.

Continuous Internal Evaluation:

Three Tests each of 20 Marks (duration 01 hour)

- a. First test at the end of 5th week of the semester
- b. Second test at the end of the 10th week of the semester
- c. Third test at the end of the 15th week of the semester

Two assignments each of 10 Marks : 1. First assignment at the end of 4th week of the semester

2. Second assignment at the end of 9th week of the semester

Group discussion/Seminar/quiz any one of three suitably planned to attain the COs and POs for **20 Marks** (duration **01 hours**)

3. At the end of the 13th week of the semester

The sum of three tests, two assignments, and quiz/seminar/group discussion will be out of 100 marks and will be scaled down to 50 marks

CIE methods /question paper is designed to attain the different levels of Bloom's taxonomy as per the outcome defined for the course.

ಸಮಿಸ್ಟರ್ ಅಂತ್ಯದ ಪರೀಕ್ಷೆಯು ಈ ಕೆಳಗಿನಂತಿರುತ್ತದೆ - Semester End Exam (SEE):

SEE will be conducted by University as per the scheduled timetable, with common question papers for the subject.

- 1. The question paper will have 50 questions. Each question is set for 01 mark.
- 2. SEE Pattern will be in MCQ Model for 50 marks. Duration of the exam is 01 Hour.

Suggested Learning Resources:

Books

1. https://vtu.ac.in/pdf/2018syll/samskruthi.pdf

2. https://vtu.ac.in/pdf/2018syll/baleke.pdf

Web links and Video Lectures (e-Resources):

- <u>https://vtu.ac.in/pdf/2018syll/samskruthi.pdf</u>
- https://vtu.ac.in/pdf/2018syll/baleke.pdf

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

• Interactions, discussions and language learning activities
	BA	ALAKE KANNADA		
Course Code		21KSK37/21KBK37	CIE Marks	50
Teaching Hour	cs/Week (L:T:S:P:SM:SS)	1:0:0:0:0:0	SEE Marks	50
Total Hours of	Pedagogy	16	Total Marks	100
Credits		1	Exam Hours	1
2. ಇತ್ತೀಚಿನ 2. ಇತ್ತೀಚಿನ 2. ಇತ್ತೀಚಿನ 2. ಇತ್ತೀಚಿನ	ರಿಕೆಯ ಉದ್ದೇಶಗಳು (Course Lea o Create the awareness regard althy life. o enable learners to Listen and o speak, read and write Kanna o train the learners for correct re ವ್ಯವಸ್ಥೆ (Teaching-Learning Pr e Strategies, which teacher can ತ ಕನ್ನಡವನ್ನು ಬೋಧಿಸಲು ತರಗತಿ ವುದು. ಪ್ರಮುಖ ಅಂಶಗಳ ಚಾರ್ಚ್ ಚರ್ಚಿಸಲು ಅವಕಾಶ ಮಾಡಿಕೊಡುವುದ ತಂತ್ರಜ್ಞಾನದ ಅನುಕೂಲಗಳನ್ನು ಬ o ಮತ್ತು ಕಥೆ ಕಾವ್ಯಗಳ ಮೂಲ ಆ	rning Objectives): ing the necessity of learning loc d understand the Kannada langu da language as per requirement. and polite conservation. rocess - General Instructions) : use to accelerate the attainment හාරී විස්ප්රා න්නාලි නින්ද පෙල ෆ්ಳನ್ನು මගාවතියා බසැහිඳෆ්ಳನ್ನು ක. ඉතින්නේ - පංස්ර මබ-පෙබ් හමාරීන් නියා	al language for comf age properly. of the course outcom రిసి బాల్ బೋర్ వ్రోరోడినువుదు మెత్తు వై జరిజియదల్లి కవిగళ క రి, నంభాతణిగళు, తగా	es. ವಿಧಾನವನ್ನು ತರಗತಿಯಲ್ಲಿ ಚಿತ್ರಣ ಮತ್ತು ತಾಗಲೇ ಇತರ
evtන්යි.එස් Module-1 1. Intro 2. Easy	beduction, Necessity of learning y learning of a Kannada Lan	g a local language. Methods to lea guage: A few tips. Hints for co	arn the Kannada langu orrect and polite con	lage.
2 Kay	to Transcription			
4. ವೈಂ	ರು Transcription. ಬಕಿಕ. ಸಾಮಸೂಚಕ/ಸಂಬಂಧಿತ ಸಾರ್ವ	ನಾಮಗಳು ಮತು ಹತಾರ್ಥಕ ಪದಗಳು – Pe	rsonal Pronouns, Po	ssessive
Eo	rms. Interrogative words			
ಬೋಧನ ಮತು	ಪುಸಕ ಅಧಾರಿತ ಬಾಕ್ ಬೋರ್ಡ್	ವಿಧಾನ, ಪ್ರಮುಖ ಅಂಶಗಳ ಚಾರ್ಚ್ ಗಳನ	ತ್ತು ಬಳಸುವುದು, ಪಿಪಿಟಿ ಮ	ತು ದೃಶ್ಯ
ಕಲಿಕಾ ವಿಧಾನ	ಮಾಧ್ಯಮದ ವಿಡಿಯೋಗಳನ್ನು ಬಳಸ	ುವುದು, ವಿದ್ಯಾರ್ಥಿಗಳೊಂದಿಗೆ ಚಟುವಚಿಕೆಗ	ಗಳ ಮುಖಾಂತರ ಚರ್ಚಿಸುವ	්ත්.
Module-2				
1. ನಾವ 2. ಗುಣ, Num	ಹದಗಳ ಸಂಬಂಧಾರ್ಥಕ ರೂಪಗಳು, ಸಂದ of nouns, dubitive question and Re ಹರಿಮಾಣ ಮತ್ತು ವರ್ಣಬಣ್ಣ ವಿಶೇಷಣಗಳು erais	ೇಹಾಸ್ಪದ ಪ್ರಶ್ನೆಗಳು ಮತ್ತು ಸಂಬಂಧವಾಚಿಕ elative nouns , ಸಂಖ್ಯಾಪಾಚಿಕಗಳು Qualitative, Quantit	ನಾಮಪದಗಳು – Possessiv ative and Colour Adjecti	ve forms ves,
3. PÁş ¥Àa	ġÀPÀ gÀÆ¥ÀUÀ¼ÀÄ ªÀÄv evÀåAiÀÄ − (D, CzÀÄ, CªÀÅ	vÀÄÛ «¨sÀQÛ ¥ÀævÀåAiÀÄU Å, C°è) Predictive Forms, Loc	À¼ÀÄ - ,À¥ÀÛ«Ä ative Case	«"sÀQÛ
ಬೋಧನ ಮತ್ತು ಕಲಿಕಾ ವಿಧಾನ	ಪುಸ್ತಕ ಆಧಾರಿತ ಬ್ಲಾಕ್ ಬೋರ್ಡ್	ವಿಧಾನ, ಪ್ರಮುಖ ಅಂಶಗಳ ಚಾರ್ಚ್ ಗಳ	ನ್ನು ಬಳಸುವುದು, ಪಿಪಿಟಿ ಮ ಗಳ ಮುಖಾಂಗಗ ಗಣಿಂಗು	ತ್ತು ದೃಶ್ಯ ನದು
	marking organic lavit pay	പതിന്ന, നെജ്ഫ്ലപ്പങ്ങറന്വ വന്നാരുമ		

1. ZÀvÀÄ and Numera	yð «"sÀQÛ¥ÀævÀåAiÀÄzÀ §¼ÀPÉ ªÀÄvÀÄÛ 'ÀASÁåªÁZÀPÀUÀ¼ÀÄ - Dative Cases, s
4. ÀASÁ Ordinal	åUÀÄtªÁZÀPÀUÀ¼ÀÄ ªÀÄvÀÄÛ §ºÀĪÀZÀ£À £ÁªÀÄgÀÆ¥ÀUÀ¼ÀÄ - numerals and Plural markers
5. £ÀÆ UÀÄt	ŧ£À / ¤µÉÃzsÁxÀðPÀ QæAiÀiÁ¥ÀzÀUÀ¼ÀÄ ªÀÄvÀÄÛ ªÀtð ªÁZÀPÀUÀ¼ÀÄ
	Defective / Negative Verbs and Colour Adjectives
ಬೋಧನ ಮತ್ತು	ಪುಸ್ತಕ ಆಧಾರಿತ ಬ್ಲಾಕ್ ಬೋರ್ಡ್ ವಿಧಾನ, ಪ್ರಮುಖ ಅಂಶಗಳ ಚಾರ್ಚ್ ಗಳನ್ನು ಬಳಸುವುದು, ಪಿಪಿಟಿ ಮತ್ತು ದೃಶ್ಯ
ಕಲಿಕಾ ವಿಧಾನ	ಮಾಧ್ಯಮದ ವಿಡಿಯೋಗಳನ್ನು ಬಳಸುವುದು, ವಿದ್ಯಾರ್ಥಿಗಳೊಂದಿಗೆ ಚಟುವಚಿಕೆಗಳ ಮುಖಾಂತರ ಚರ್ಚಿಸುವುದು.
Module-4	
1 ಅವೃದ	/ ಒನ್ಬಿಗೆ, ನಿರ್ದೇಶನ, ಪ್ರೋತ್ಸಾಹ ಮತು ಒತ್ತಾಯ ಅರ್ಥರೂಹ ಹದಗಳು ಮತ್ತು ವಾಕ್ಯಗಳು
Perr 2. रणव्ये	nission, Commands, encouraging and Urging words (Imperative words and sentences) ನನ್ಯ ಸಂಭಾಷಣೆಗಳಲ್ಲಿ ದ್ವಿತೀಯ ವಿಭಕ್ತಿ ಪ್ರತ್ಯಯಗಳು ಮತ್ತು ಸಂಭವನೀಯ ಪ್ರಕಾರಗಳು
Accus	ative Cases and Potential Forms used in General Communication
6. ಹೋಲಿಕೆ ನಿತೇವ	(ತರತಮ), ಸಂಬಂಧ ಸೂಚಕ ಮತ್ತು ವಸ್ತು ಸೂಚಕ ಪ್ರತ್ಯಯಗಳು ಮತ್ತು
	apro acro uvo- Comparitive, Relationship, Identification and Negation words
ಬೋಧನ ಮತ್ತು ಕಲಿಕಾ ವಿಧಾನ	ತ್ರಾಕ ಹದಗಳ ಬಳಕ- Comparitive, Relationship, Identification and Negation Words ಪುಸ್ತಕ ಅಧಾರಿತ ಬ್ಲಾಕ್ ಬೋರ್ಡ್ ವಿಧಾನ, ಪ್ರಮುಖ ಅಂಶಗಳ ಚಾರ್ಚ್ ಗಳನ್ನು ಬಳಸುವುದು, ಪಿಪಿಟಿ ಮತ್ತು ದೃಶ್ಯ ಮಾಧ್ಯಮದ ವಿಡಿಯೋಗಳನ್ನು ಬಳಸುವುದು, ವಿದ್ಯಾರ್ಥಿಗಳೊಂದಿಗೆ ಚಟುವಟಿಕೆಗಳ ಮುಖಾಂತರ ಚರ್ಚಿಸುವುದು.
ಬೋಧನ ಮತ್ತು ಕಲಿಕಾ ವಿಧಾನ Module=5	ತರ್ಥಕ ಹದಗಳ ಬಳಕ- Comparitive, Relationship, Identification and Negation Words ಪುಸ್ತಕ ಆಧಾರಿತ ಬ್ಲಾಕ್ ಬೋರ್ಡ್ ವಿಧಾನ, ಪ್ರಮುಖ ಅಂಶಗಳ ಚಾರ್ಟ್ ಗಳನ್ನು ಬಳಸುವುದು, ಪಿಪಿಟಿ ಮತ್ತು ದೃಶ್ಯ ಮಾಧ್ಯಮದ ವಿಡಿಯೋಗಳನ್ನು ಬಳಸುವುದು, ವಿದ್ಯಾರ್ಥಿಗಳೊಂದಿಗೆ ಚಟುವಟಿಕೆಗಳ ಮುಖಾಂತರ ಚರ್ಚಿಸುವುದು.
ಬೋಧನ ಮತ್ತು ಕಲಿಕಾ ವಿಧಾನ Module-5 1. ಕಾಲ ಮತ್ತು Verbs 2. ದ್, -ತ್, - ವಾಕ್ಯ ರಚನ -	ತಾರ್ ಹದಗಳ ಬಳಕ- Comparitive, Relationship, Identification and Negation Words ಪುಸ್ತಕ ಅಧಾರಿತ ಬ್ಲಾಕ್ ಬೋರ್ಡ್ ವಿಧಾನ, ಪ್ರಮುಖ ಅಂಶಗಳ ಚಾರ್ಚ್ ಗಳನ್ನು ಬಳಸುವುದು, ಪಿಪಿಟಿ ಮತ್ತು ದೃಶ್ಯ ಮಾಧ್ಯಮದ ವಿಡಿಯೋಗಳನ್ನು ಬಳಸುವುದು, ವಿದ್ಯಾರ್ಥಿಗಳೊಂದಿಗೆ ಚಟುವಟಿಕೆಗಳ ಮುಖಾಂತರ ಚರ್ಚಿಸುವುದು. ಸಮಯದ ಹಾಗೂ ಕ್ರಿಯಾಪದಗಳ ವಿವಿಧ ಪ್ರಕಾರಗಳು - ifferent types of forms of Tense, Time and ತು, - ಇತು, - ಅಗಿ, - ಅಲ್ಲ, - ಗ್, -ಕ್, ಇದೆ, ಕ್ರಿಯಾ ಪ್ರತ್ಯಯಗಳೊಂದಿಗೆ ಭೂತ, ಭವಿಷ್ಯತ್ ಮತ್ತು ವರ್ತಮಾನ ಕಾಲ Formation of Past, Future and Present Tense Sentences with Verb Forms
ಬೋಧನ ಮತ್ತು ಕಲಿಕಾ ವಿಧಾನ Module-5 1. ಕಾಲ ಮತ್ತು Verbs 2. ದ್, -ತ್, - ವಾಕ್ಯ ರಚನ - 3. Kannada	ತ್ಯಾಕಕ ತದಗಳ ಬಳಕ- Comparitive, Relationship, Identification and Negation Words ಪುಸ್ತಕ ಅಧಾರಿತ ಬ್ಲಾಕ್ ಬೋರ್ಡ್ ವಿಧಾನ, ಪ್ರಮುಖ ಅಂಶಗಳ ಚಾರ್ಚ್ ಗಳನ್ನು ಬಳಸುವುದು, ಪಿಪಿಟಿ ಮತ್ತು ದೃಶ್ಯ ಮಾಧ್ಯಮದ ವಿಡಿಯೋಗಳನ್ನು ಬಳಸುವುದು, ವಿದ್ಯಾರ್ಥಿಗಳೊಂದಿಗೆ ಚಟುವಟಿಕೆಗಳ ಮುಖಾಂತರ ಚರ್ಚಿಸುವುದು. ಸಮಯದ ಹಾಗೂ ಕ್ರಿಯಾಹದಗಳ ವಿವಿಧ ಪ್ರಕಾರಗಳು - ifferent types of forms of Tense, Time and ತು, - ಇತು, - ಅಗಿ, - ಅಲ್ಲ ಗ್, -ಕ್, ಇದೆ, ಕ್ರಿಯಾ ಪ್ರತ್ಯಯಗಳೊಂದಿಗೆ ಭೂತ, ಭವಿಷ್ಯತ್ ಮತ್ತು ವರ್ತಮಾನ ಕಾಲ Formation of Past, Future and Present Tense Sentences with Verb Forms Vocabulary List : ಸಂಭಾಷಣೆಯಲ್ಲಿ ದಿನೋಡಯೋಗಿ ಕನ್ನಡ ಹದಗಳು - Kannada Words in Conversation
ಬೋಧನ ಮತ್ತು ಕಲಿಕಾ ವಿಧಾನ Module-5 1. ಕಾಲ ಮತ್ತು Verbs 2. ದ್, -ತ್, - ವಾಕ್ಯ ರಚನ - 3. Kannada	ತಾಕಕ ತದಗಳ ಬಳಕ- Comparitive, Relationship, Identification and Negation words ಪುಸ್ತಕ ಅಧಾರಿತ ಬ್ಲಾಕ್ ಬೋರ್ಡ್ ವಿಧಾನ, ಪ್ರಮುಖ ಅಂಶಗಳ ಚಾರ್ಟ್ ಗಳನ್ನು ಬಳಸುವುದು, ಪಿಪಿಟಿ ಮತ್ತು ದೃಶ್ಯ ಮಾಧ್ಯಮದ ವಿಡಿಯೋಗಳನ್ನು ಬಳಸುವುದು, ವಿದ್ಯಾರ್ಥಿಗಳೊಂದಿಗೆ ಚಟುವಟಿಕೆಗಳ ಮುಖಾಂತರ ಚರ್ಚಿಸುವುದು. ಸಮಯದ ಹಾಗೂ ಕ್ರಿಯಾಪದಗಳ ವಿವಿಧ ಪ್ರಕಾರಗಳು - ifferent types of forms of Tense, Time and ತು, - ಇತು, - ಅಗಿ, - ಅಲ್ಲ, - ಗ್, -ಕ್, ಇದೆ, ಕ್ರಿಯಾ ಪ್ರತ್ಯಯಗಳೊಂದಿಗೆ ಭೂತ, ಭವಿಷ್ಯತ್ ಮತ್ತು ವರ್ತಮಾನ ಕಾಲ Formation of Past, Future and Present Tense Sentences with Verb Forms Vocabulary List : ಸಂಭಾಷಣೆಯಲ್ಲಿ ದಿನೋಡಯೋಗಿ ಕನ್ನಡ ಪದಗಳು - Kannada Words in Conversation
ಬೋಧನ ಮತ್ತು ಕಲಿಕಾ ವಿಧಾನ Module-5 1. ಕಾಲ ಮತ್ತು Verbs 2. ದ್, -ತ್, - ವಾಕ್ಯ ರಚನ - 3. Kannada ಬೋಧನ ಮತ್ತು ಕಲಿಕಾ ವಿಧಾನ	ತಥ್ ಕ ಹದಗಳ ಬಳಕ- Comparitive, Relationship, Identification and Negation Words ಪುಸ್ತಕ ಆಧಾರಿತ ಬ್ಲಾಕ್ ಬೋರ್ಡ್ ವಿಧಾನ, ಪ್ರಮುಖ ಅಂಶಗಳ ಚಾರ್ಟ್ ಗಳನ್ನು ಬಳಸುವುದು, ಪಿಷಿಟಿ ಮತ್ತು ದೃಶ್ಯ ಮಾಧ್ಯಮದ ವಿಡಿಯೋಗಳನ್ನು ಬಳಸುವುದು, ವಿದ್ಯಾರ್ಥಿಗಳೊಂದಿಗೆ ಚಟುವಟಿಕೆಗಳ ಮುಖಾಂತರ ಚರ್ಚಿಸುವುದು. ಸಮಯದ ಹಾಗೂ ಕ್ರಿಯಾಪದಗಳ ವಿವಿಧ ಪ್ರಕಾರಗಳು - ifferent types of forms of Tense, Time and ತು, - ಇತು, - ಅಗಿ, - ಅಲ್ಲ ಗ್ಕ್. ಇದೆ, ಕ್ರಿಯಾ ಪ್ರತ್ಯಯಗಳೊಂದಿಗೆ ಭೂತ, ಭವಿಷ್ಯತ್ ಮತ್ತು ವರ್ತಮಾನ ಕಾಲ Formation of Past, Future and Present Tense Sentences with Verb Forms Vocabulary List : ಸಂಭಾಷಣೆಯಲ್ಲಿ ದಿನೋಡೆಯೋಗಿ ಕನ್ನಡ ಹೆದಗಳು - Kannada Words in Conversation ಪುಸ್ತಕ ಅಧಾರಿತ ಬ್ಲಾಕ್ ಬೋರ್ಡ್ ವಿಧಾನ, ಪ್ರಮುಖ ಅಂಶಗಳ ಚಾರ್ಟ್ ಗಳನ್ನು ಬಳಸುವುದು, ಪಿಪಿಟಿ ಮತ್ತು ದೃಶ್ಯ ಮಾಧ್ಯಮದ ವಿಡಿಯೋಗಳನ್ನು ಬಳಸುವುದು, ವಿದ್ಯಾರ್ಥಿಗಳೊಂದಿಗೆ ಚಟುವಟಿಕೆಗಳ ಮುಖಾಂತರ ಚರ್ಚಿಸುವುದು.
ಬೋಧನ ಮತ್ತು ಕಲಿಕಾ ವಿಧಾನ Module-5 1. ಕಾಲ ಮತ್ತು Verbs 2. ದ್, -ತ್, - ವಾಕ್ಯ ರಚನ - 3. Kannada ಬೋಧನ ಮತ್ತು ಕಲಿಕಾ ವಿಧಾನ ಬಳಕೆ ಕನ್ನಡ ಹೆದ್ದ	ತಥ್ ಕ ವದಗಳ ಬಳಕ- Comparitive, Relationship, identification and Negation Words ಪುಸ್ತಕ ಆಧಾರಿತ ಬ್ಲಾಕ್ ಬೋರ್ಡ್ ವಿಧಾನ, ಪ್ರಮುಖ ಅಂಶಗಳ ಚಾರ್ಚ್ ಗಳನ್ನು ಬಳಸುವುದು, ಪಿಪಿಟಿ ಮತ್ತು ದೃಶ್ಯ ಮಾಧ್ಯಮದ ವಿಡಿಯೋಗಳನ್ನು ಬಳಸುವುದು, ವಿದ್ಯಾರ್ಥಿಗಳೊಂದಿಗೆ ಚಟುವಟಿಕೆಗಳ ಮುಖಾಂತರ ಚರ್ಚಿಸುವುದು. ಸಮಯದ ಹಾಗೂ ಕ್ರಿಯಾಹದಗಳ ವಿವಿಧ ಪ್ರಕಾರಗಳು - ifferent types of forms of Tense, Time and ತು, - ಇತು, - ಅಗಿ, - ಅಲ್ಲ, - ಗ್, -ಕ್, ಇದೆ, ಕ್ರಿಯಾ ಪ್ರತ್ಯಯಗಳೊಂದಿಗೆ ಭೂತ, ಭವಿಷ್ಯತ್ ಮತ್ತು ವರ್ತಮಾನ ಕಾಲ Formation of Past, Future and Present Tense Sentences with Verb Forms Vocabulary List : ಸಂಭಾಷಣೆಯಲ್ಲಿ ದಿನೋಪಯೋಗಿ ಕನ್ನಡ ಪದಗಳು - Kannada Words in Conversation ಪುಸ್ತಕ ಅಧಾರಿತ ಬ್ಲಾಕ್ ಬೋರ್ಡ್ ವಿಧಾನ, ಪ್ರಮುಖ ಅಂಶಗಳ ಚಾರ್ಟ್ ಗಳನ್ನು ಬಳಸುವುದು, ಪಿಪಿಟಿ ಮತ್ತು ದೃಶ್ಯ ಮಾಧ್ಯಮದ ವಿಡಿಯೋಗಳನ್ನು ಬಳಸುವುದು, ವಿದ್ಯಾರ್ಥಿಗಳೊಂದಿಗೆ ಚಟುವಟಿಕೆಗಳ ಮುಖಾಂತರ ಚರ್ಚಿಸುವುದು.
ಬೋಧನ ಮತ್ತು ಕಲಿಕಾ ವಿಧಾನ Module-5 1. ಕಾಲ ಮತ್ತು Verbs 2. ದ್, -ತ್, - ವಾಕ್ಯ ರಚನ - 3. Kannada ಬೋಧನ ಮತ್ತು ಕಲಿಕಾ ವಿಧಾನ ಬಳಕೆ ಕನ್ನಡ ಪತ್ಯದ (Course Skill Se	ತಥಾಕ ತದಗಳ ಬಳಕ- Comparitive, Relationship, identification and Negation Words ಪುಸ್ತಕ ಆಧಾರಿತ ಬ್ಲಾಕ್ ಬೋರ್ಡ್ ವಿಧಾನ, ಪ್ರಮುಖ ಅಂಶಗಳ ಚಾರ್ಚ್ ಗಳನ್ನು ಬಳಸುವುದು, ಪಿಪಿಟಿ ಮತ್ತು ದೃಶ್ಯ ಮಾಧ್ಯಮದ ವಿಡಿಯೋಗಳನ್ನು ಬಳಸುವುದು, ವಿದ್ಯಾರ್ಥಿಗಳೊಂದಿಗೆ ಚಟುವಟಿಕೆಗಳ ಮುಖಾಂತರ ಚರ್ಚಿಸುವುದು. ಸಮಯದ ಹಾಗೂ ಕ್ರಿಯಾಪದಗಳ ವಿವಿಧ ಪ್ರಕಾರಗಳು - ifferent types of forms of Tense, Time and ತು, - ಇತು, - ಅಗಿ, - ಅಲ್ಲ, - ಗ್, -ಕ್, ಇದೆ, ಕ್ರಿಯಾ ಪ್ರತ್ಯಯಗಳೊಂದಿಗೆ ಭೂತ, ಭವಿಷ್ಯತ್ ಮತ್ತು ವರ್ತಮಾನ ಕಾಲ Formation of Past, Future and Present Tense Sentences with Verb Forms Vocabulary List : ಸಂಭಾಷಣೆಯಲ್ಲಿ ದಿನೋಡೆಯೋಗಿ ಕನ್ನಡ ಪದಗಳು - Kannad a Words in Conversation ಪುಸ್ತಕ ಅಧಾರಿತ ಬ್ಲಾಕ್ ಬೋರ್ಡ್ ವಿಧಾನ, ಪ್ರಮುಖ ಅಂಶಗಳ ಚಾರ್ಟ್ ಗಳನ್ನು ಬಳಸುವುದು, ಪಿಪಿಟಿ ಮತ್ತು ದೃಶ್ಯ ಮಾಧ್ಯಮದ ವಿಡಿಯೋಗಳನ್ನು ಬಳಸುವುದು, ವಿದ್ಯಾರ್ಥಿಗಳೊಂದಿಗೆ ಚಟುವಟಿಕೆಗಳ ಮುಖಾಂತರ ಚರ್ಚಿಸುವುದು. ಶ ಕಲಿಕೆಯಿಂದ ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ ಆಗುವ ಅನುಕೊಲಗಳು ಮತ್ತು ಫಲಿತಾಂಶಗಳು: course Outcomes t): At the end of the Course. The Students will be able
ಬೋಧನ ಮತ್ತು ಕಲಿಕಾ ವಿಧಾನ Module-5 1. ಕಾಲ ಮತ್ತು Verbs 2. ದ್, -ತ್, - ವಾಕ್ಯ ರಚನ - 3. Kannada ಬೋಧನ ಮತ್ತು ಕಲಿಕಾ ವಿಧಾನ ಬಳಕೆ ಕನ್ನಡ ಪಠ್ಯದ (Course Skill Sc 1.	ತಾರ್ಗ ಕ ಪದಿಗಳ ಬಳಕ- Comparitive, Relationship, Identification and Negation Words ಪುಸ್ತಕ ಆಧಾರಿತ ಬ್ಲಾಕ್ ಬೋರ್ಡ್ ವಿಧಾನ, ಪ್ರಮುಖ ಅಂಶಗಳ ಚಾರ್ಚ್ ಗಳನ್ನು ಬಳಸುವುದು, ಪಿಪಿಟಿ ಮತ್ತು ದೃಶ್ಯ ಮಾಧ್ಯಮದ ವಿಡಿಯೋಗಳನ್ನು ಬಳಸುವುದು, ವಿದ್ಯಾರ್ಥಿಗಳೊಂದಿಗೆ ಚಟುವಟಿಕೆಗಳ ಮುಖಾಂತರ ಚರ್ಚಿಸುವುದು. ಸಮಯದ ಹಾಗೂ ಕ್ರಿಯಾಪದಗಳ ವಿವಿಧ ಪ್ರಕಾರಗಳು - ifferent types of forms of Tense, Time and ತು, - ಇತು, - ಅಗಿ, - ಅಲ್ಲ ಗ್, -ಕ್, ಇದೆ, ಕ್ರಿಯಾ ಪ್ರತ್ಯಯಗಳೊಂದಿಗೆ ಭೂತ, ಭವಿಷ್ಯತ್ ಮತ್ತು ವರ್ತಮಾನ ಕಾಲ Formation of Past, Future and Present Tense Sentences with Verb Forms Vocabulary List : ಸಂಭಾಷಣೆಯಲ್ಲಿ ದಿನೋಪಯೋಗಿ ಕನ್ನಡ ಪದಗಳು - Kannada Words in Conversation ಪುಸ್ತಕ ಅಧಾರಿತ ಬ್ಲಾಕ್ ಬೋರ್ಡ್ ವಿಧಾನ, ಪ್ರಮುಖ ಅಂಶಗಳ ಚಾರ್ಟ್ ಗಳನ್ನು ಬಳಸುವುದು, ಪಿಪಿಟಿ ಮತ್ತು ದೃಶ್ಯ ಮಾಧ್ಯಮದ ವಿಡಿಯೋಗಳನ್ನು ಬಳಸುವುದು, ವಿದ್ಯಾರ್ಥಿಗಳೊಂದಿಗೆ ಚಟುವಟಿಕೆಗಳ ಮುಖಾಂತರ ಚರ್ಚಿಸುವುದು. ಶ ಕಲಿಕೆಯಿಂದ ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ ಆಗುವ ಅನುಕೂಲಗಳು ಮತ್ತು ಫಲಿತಾಂಶಗಳು: course Outcomes t): At the end of the Course, The Students will be able To understand the necessity of learning of local language for comfortable life.
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Assessment Details (both CIE and SEE)

The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The minimum passing mark for the CIE is 40% of the maximum marks (20 marks). A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to each subject/ course if the student secures not less than 35% (18 Marks out of 50) in the semester-end examination(SEE), and a minimum of 40% (40 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together

Continuous Internal Evaluation:

Three Tests each of 20 Marks (duration 01 hour)

- a. First test at the end of 5th week of the semester
- b. Second test at the end of the 10^{th} week of the semester
- c. Third test at the end of the 15th week of the semester

Two assignments each of **10 Marks : 1.** First assignment at the end of 4th week of the semester. 2. Second assignment at the end of 9th week of the semester

Group discussion/Seminar/quiz any one of three suitably planned to attain the COs and POs for 20 Marks (duration 01 hours)

3. At the end of the 13th week of the semester

The sum of three tests, two assignments, and quiz/seminar/group discussion will be out of 100 marks and will be scaled down to 50 marks

CIE methods /question paper is designed to attain the different levels of Bloom's taxonomy as per the outcome defined for the course.

ಸಮಿಸ್ಟರ್ ಅಂತ್ಯದ ಪರೀಕ್ಷೆಯು ಈ ಕೆಳಗಿನಂತಿರುತ್ತದೆ - Semester End Exam (SEE):

SEE will be conducted by University as per the scheduled timetable, with common question papers for the subject.

- 3. The question paper will have 50 questions. Each question is set for 01 mark.
- 4. SEE Pattern will be in MCQ Model for 50 marks. Duration of the exam is 01 Hour.

Textbook :

ಬಳಕೆ ಕನ್ನಡ

ಲೇಖಕರು : ಡಾ. ಎಲ್. ತಿಮ್ಮೇಶ

ಪ್ರಸಾರಾಂಗ, ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಳಗಾವಿ.

Suggested Learning Resources:

Books

- 3. https://vtu.ac.in/pdf/2018syll/samskruthi.pdf
- 4. https://vtu.ac.in/pdf/2018syll/baleke.pdf

Web links and Video Lectures (e-Resources):

- <u>https://vtu.ac.in/pdf/2018syll/samskruthi.pdf</u>
- https://vtu.ac.in/pdf/2018syll/baleke.pdf

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

• Interactions, discussions and language learning activities

13.09.2022

SEMESTER IV

PLANNING S	STUDIO: SITE PLANNIN	١G	
Course Code	21 PLN41	CIE Marks	50
Teaching Hours/Week (L:T:S:P:SM:SS)	0:0:0:10:0:0	SEE Marks	50
Total Hours of Pedagogy	160	Total Marks	100
Credits	5	Exam Hours	-
Course objectives:	aka a saatar laval subdivisid	on and plan for a raci	dontial

• Objective of this studio is to undertake a sector level subdivision and plan for a residential site with sensitivity to its immediate as well as the city context within the sector.

Pedagogy (General Instructions)

These are sample Strategies, which teachers can use to accelerate the attainment of the various course outcomes.

- Theory subjects and studio to go hand in hand
- Exposing the students to the Planning guidelines (URDPFI), NBC and local byelaws
- Innovative lecture methodologies to be adapted to improve the teaching and learning process
- Short videos for better understanding, physical site visits for understanding the scale and all the aspects of site planning
- Making the student understand sector planning, housing issues, densities, demographics and various other aspects of planning in order to prepare a masterplan for the studio.
- Encourage collaborative (Group Learning) learning in the class
- Ask at least three HOT (Higher order Thinking) questions in the class, which promotes critical thinking
- Adapt Problem Based Learning (PBL), which fosters students Analytical skills, develop thinking skills such as the ability to evaluate, generalize, and analyze information rather than simply recall it
- Discussion in class to elevate thinking level and different problem solving levels
- Sector Planning: Through developing an understanding of the city level context and with specific focus on housing issues, students are required to prepare a subdivision plan for an identified sector of not less than 50 ha. with an emphasis on the basics of densities, land subdivision, street layout, built form, facility distribution and integration of these elements with socioeconomic profile and housing options as a response to the context.
- This exercise will allow the students to do analysis of demographic, socio-economic and physical characteristics of an area, to help them develop concepts that are relevant to the context of a site.
- Factors such as location and type of land uses and infrastructural facilities are required to be considered along with the existing and proposed future growth of an area.. Entire work plan of the studio would include the following steps:
- Site Planning: Second stage of the studio would include selection of a residential plot not less than 5 ha for a detailed site plan within the context of proposed sector plan. The proposal will be presented and will include identification of issues, explanation of the concept, site layout, landscape plan, site services plan, node details, housing details, unit designs, roads, parking and other relevant details, project cost outline, along with a physical model of the site plan.
- The final submission may include a written report of the entire work with relevant analysis,

	plans and drawings.		
		Physical study to be undertaken, the various aspects of the site both architectural and	
	Pedagogy	planning to be brought into the minds of the students. Application of concepts to the	
6	ourse outcor	na masterpian proposal to be done for the studio.	
	ourse outcon	ile (Course Skin Set)	
A	t the end of th	ne course the student will be able to :	
	• Upon the	completion of this course, the students would be able:	
	• To summ	arize different elements of subdivision layouts and site planning	
	• To develo	op sensitivity to the site and city contexts.	
	• To apply	development regulations at subdivision and site level.	
	• To plan fo	or housing, services and landscape for a small site.	
A	ssessment Do	etails (both CIE and SEE)	
(1	nethods of C	IE need to be define topic wise i.e MCO. Ouizzes. Open book test. Seminar or micro	
p	roject)		
Ť	he weightage	of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is	
5	0%. The stude	ent has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35%	
n	arks of maxin	num marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total	
0	f the CIE (C	ontinuous Internal Evaluation) and SEE (Semester End Examination) taken together.	
S	emester End	Exam (SEE) is conducted for 100 marks and scaled down to 50 marks. Based on this	
g	rading will be	awarded.	
C	Continuous In	ternal Evaluation:	
	• Contin	uous Internal Evaluation (CIE): The CIE marks awarded in case of Studio shall be based	
	on the	weekly evaluation of progress of the studio works after the conduction of every	
	Present	tation	
S	emester End	Examination:	
	• Plannii	ng Studio SEE will be conducted by the University as per scheduled time table, in a batch	
	wise with external examiner and Internal Examiner reviewing the works of the students.		
S	uggested Lea	rning Resources:	
B	ooks		
	5. LaGro, J.A	. Jr. (2013) Site Analysis: Informing Context-Sensitive and Sustainable Site Planning	
	and Desig	n, Third Edition, Wiley International, New York. Lynch, K. (1984) Site Planning, Third	
	Edition M	IIT Press, USA. McHarg, I. (2008) Design with Nature, Twenty Fifth Edition, Wiley	
	Internation	nal, New York. Russ, T. (2009) Site Planning and Design Handbook, Second Edition,	
	McGraw]	Hill, New York.	
V	Veb links and	Video Lectures (e-Resources):	
	• • • • //	r_{1}	
	• $\frac{\text{http://r}}{\text{IV} \% 20}$	npiownpian.nic.in/act%20&%20Kules/NationalBuilding%20Code%20Part- (Fire%20Safety) pdf	
	 https:// 	www.bis.gov.in/index.php/standards/technical-department/national-building-code/	
	• https://	www.bis.gov.in/index.php/standards/technical-department/national-building-code/	
	• http://v	vww.naredco.in/notification/pdfs/Bangalore-Building-Byelaws.pdf	
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Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

- Site visit as physical case study to learn various aspects of site planning
- Site calculations
- Reviews and final proposed master plan outcome

PLANNING THEORY - II			
Course Code	21 PLN42	CIE Marks	50
Teaching Hours/Week (L:T:S:P:SM:SS)	3:0:0:0:0:0	SEE Marks	50
Total Hours of Pedagogy	48	Total Marks	100
Credits	3	Exam Hours	3
 Course objectives: The chief objective of 'Planning Theory – II' is to critically examine major theories of planning. 			of
 Pedagogy (General Instructions) These are sample Strategies, which teacher outcomes. Innovative lecture methodologies Short videos for better understand Encourage collaborative (Group I Ask at least three HOT (Higher or critical thinking Adapt Problem Based Learning (I thinking skills such as the ability simply recall it Various analysis at regional level Discussion in class to elevate thinking 	ers can use to accelerate the attai to be adapted to improve the tea ling, group discussion and termin Learning) learning in the class rder Thinking) questions in the c PBL), which fosters students An to evaluate, generalize, and analy king	nment of the vario aching and learnin nologies knowledg class, which promo alytical skills, dev yze information ra	g process ge check otes relop uther than
	Module-1		
Scientific Rationalism and Planning Defining instrumental rationality; Systems view of planning; Chief characteristics of Comprehensive Rational Planning Model and implications for planning practice; Systematic and systemic change.			
Pedagogy Taught through ppts, pdfs,	discussions		
	Module-2		
Advocacy Planning, Pluralism and Equity PlanningMeaning, historical background and purposes of Advocacy Planning Model; Main features ofAdvocacy Planning Model; Relevance for planning practice; Equity and its various definitions;Major components of the Equity Planning Model; Implications on the role of planners in planningpractice.		atures of finitions; planning	
Pedagogy Taught through ppts, pc	lfs, discussions		
	Module-3		
Political Economy Theories and the Ci Defining the term political economy; Ro Manuel Castells and others; Richard Fog	ty le of the state in planning; Cont lesong and the property contradi	ributions of David	l Harvey,

Pee	Pedagogy Taught through ppts, pdfs, discussions			
		Module-4		
Co Va Inn sto	llaborati arious con les and o rytelling;	ve and Communicative Planning mponents of Collaborative Planning Model; Contributions of Patsy Healey and Judith thers; Deliberative policy analysis; Role of trust in planning; Planning as persuasive Pragmatic planning theory.		
Pe	dagogy	Taught through ppts, pdfs, discussions		
		Module-5		
Hu De cap Caj reli	Human Development Approach Defining functioning and capabilities; Exploring relevance of Amartya Sen and Nussbaum's capabilities to planning; Role of planning and planners in enhancing capabilities of the poor; Capabilities perspective on slums and squatters; Feminist planning theory; Planning, caste and religion; Planning rights and responsibilities.			
Pe	dagogy	Taught through ppts, pdfs, discussions		
Cours	se outcon	ne (Course Skill Set)		
At the	 At the end of the course the student will be able to : Upon the completion of this course, the students would be able: To show knowledge of planning theories, and if possible, demonstrate application of these planning theories to Indian planning practices. To develop an understanding about the human development approach and its significance to urban and regional planning in India. 			
Asses	sment De	etails (both CIE and SEE)		
(meth project The v 50%. marks of the Theor 50 ma	(methods of CIE need to be define topic wise i.e MCQ, Quizzes, Open book test, Seminar or micro project) The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The student has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% marks of maximum marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together. Theory Semester End Exam (SEE) is conducted for 100 marks (3 hours' duration) and scaled down to 50 marks. Based on this grading will be awarded.			
Conti	inuous In	ternal Evaluation:		
1. N 2. T Seme Theor	lethods su he class t eminar. Ir ster End ry SEE wi biect	aggested: Test, Open Book test, Written Quiz, Seminar, report writing etc. teacher has to decide the topic for closed book test, open book test, Written Quiz and in the beginning only the teacher has to announce the methods of CIE for the subject. Examination: Ill be conducted by University as per scheduled time table, with common question papers		
1. T pr 2. T m 3. T	he question roportiona here will haximum of he studen	on paper will have ten questions. Each question is set for 20 marks. Marks scored shall be ally reduced to 50 marks be 2 questions from each module. Each of the two questions under a module (with a of 3 sub questions), should have a mix of topics under that module. ts have to answer 5 full questions, selecting one full question from each module		

Suggested Learning Resources: Books

1. Agarwal, B., Humphries, J. and Robeyns (eds.) Capabilities, Freedom, and Equality: Amartya Sen's work from a gender perspective, Oxford University Press, New Delhi.

2. Allmendinger, P. (2009) Planning Theory, Palgrave Macmillan, New York.

3. Clavel, P. (1994) The Evolution of Advocacy Planning, Journal of American Planning Association, Vol. 60, No. 2, pp. 146–149.

4. Davidoff, P. (1965) Advocacy and Pluralism in Planning, Journal of the American Institute of Planners, Vol. 31, No 4, pp. 331–338. 58

5. Faludi, A. (1973) Planning Theory, Pergamon Press, New York.

6. Fincher, R. and Iveson, K. (2008) Planning and Diversity in the City, Palgrave Macmillan, New York.

7. Fukuda-Parr, S. and Shiva Kumar, A.K. (eds.) (2009) Handbook of Human Development: Concepts, measures, and policies, Oxford University Press, New Delhi.

8. Healey, P. (1997) Collaborative Planning: Shaping Places in Fragmented Societies, Macmillan Press Limited, London.

9. Hoch, C. (2019) Pragmatic Spatial Planning: Practical Theory for Professionals, Routledge, New York.

10. Krumholz, N. and Forester, J. (1990) Making Equity Planning Work: Leadership in the public sector, Temple University Press, Philadelphia.

11. Kumar, A. and Paddison, R. (2000) Trust and Collaborative Planning Theory: The Case of the Scottish Planning System, International Planning Studies, Vol. 5, No. 2, pp. 205-223.

12. McLoughlin, J.B. (1969) Urban and Regional Planning: A Systems Approach, Faber and Faber, London.

13.Sandercock, L. (1998) Towards Cosmopolis: Planning for Multicultural Cities, Wiley, New York.

14.Sager, T. (2013) Reviving Critical Planning Theory: Dealing with pressure, neoliberalism, and responsibility in communicative planning, Routledge, New York.

15.Sandercock, L. (1998) Cosmopolis II: Mongrel Cities, Continuum, New York. 16.Sen, A. (1999) Development as Freedom, Alfred A Knopf, New York.

Web links and Video Lectures (e-Resources):

- <u>https://www.youtube.com/watch?v=LMhDd11joP4</u>
- https://www.youtube.com/watch?v=mWRLc4OLek0
- https://www.youtube.com/watch?v=8CH3v8eFnzI

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

• Various activities and ppt preparation from the topics in the modules

	PLANNING PRACTICE – I				
Course Code		21 PLN43	CIE Marks	50	
Teaching Hours	Week (L:T:S:P:SM:SS)	1:2:0:0:0:0	SEE Marks	50	
Total Hours of F	Pedagogy	48	Total Marks	100	
Credits		2	Exam Hours	3	
Course objectiv • This cou and issu	 Course objectives: This course intends to provide an understanding of the nature of planning practice in India and issues inherent in it. 				
Pedagogy (Gen These are sample outcomes. Innovati Short vi Encoura Ask at le critical te Adapt P thinking simply r Various Discussi	 Pedagogy (General Instructions) These are sample Strategies, which teachers can use to accelerate the attainment of the various course outcomes. Innovative lecture methodologies to be adapted to improve the teaching and learning process Short videos for better understanding, group discussion and terminologies knowledge check Encourage collaborative (Group Learning) learning in the class Ask at least three HOT (Higher order Thinking) questions in the class, which promotes critical thinking Adapt Problem Based Learning (PBL), which fosters students Analytical skills, develop thinking skills such as the ability to evaluate, generalize, and analyze information rather than simply recall it Various analysis at regional level 				
		 Module-1			
Planning as a l Definition of pr of planner in pr	Profession rofession; Planning as a pr actice; Planner in relation	rofession and Role of a Planne with other professions	r in society, diffe	rent roles	
Pedagogy 1	aught through discussions	and interactions, ppt, pdf mater	nais		
		Module-2			
Planning as a p role of planner general and in I India, planning projects.	Nature of Planning Practice Planning as a profession and Role of a Planner, Definition of profession, planning as a profession, role of planner in the society, different roles of planner in practice; Nature of planning practice in general and in Indian context, global context and planning practice. legal framework for planning in India, planning and development organizations, current planning practices, study of selected projects.				
Pedagogy	Taught through discussion	ons and interactions, ppt, pdf m	aterials		
		Module-3			
Framework of Legal framewo and local level; other terms and	Framework of Planning Practice Legal framework for planning in India, planning and development organisations at Central, state and local level; planning practice in the private sector; Scope of work in planning practice, fees and other terms and conditions of planning work.		ttral, state		
Pedagogy T	aught through discussions	and interactions, ppt, pdf mater	rials		
	Module-4				

	Planning Practice Cases				
	This unit wo	This unit would focus on developing critical reasoning and communication skills through study of			
	planning cas	ses including planning permissions, court cases, attending public meetings etc.,			
	application of	f concepts of previous units through study of planning practice; documentation of cases.			
	Pedagogy	Taught through discussions and interactions, ppt, pdf materials			
		Module-5			
	Planning Pra	actice in the field (or field work)			
	This unit wor departments	uld focus on the types of analysis and field works carried out as a planner, the various which get involved in the process, documents filing and conduct			
	Pedagogy	Taught through discussions and interactions, ppt, pdf materials			
(ourse outcom	e (Course Skill Set)			
	ourse outcom				
А	t the end of the	e course the student will be able to :			
	• Upon the	completion of this course, the students would be able: To demonstrate the ability to			
	distinguish	between profession and business and limitations of planning as a profession. To show			
	familiarity	with public and private planning practices in India and their legal contexts. To develop			
	competence	ies to understand planning issues for technically examining planning proposals.			
D	efinition of pr	rofession; Planning as a profession and Role of a Planner in society, different roles of			
p	lanner in practi	ice; Planner in relation with other professions			
A	ssessment Det	tails (both CIE and SEE)			
(1	nethods of CI	E need to be define topic wise i.e MCQ, Quizzes, Open book test, Seminar or micro			
p	roject)				
Т	he weightage	of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is			
5	0%. The stude	nt has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35%			
n	arks of maxim	num marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total			
0	t the CIE (Co	ontinuous Internal Evaluation) and SEE (Semester End Examination) taken together.			
	heory Semeste	er End Exam (SEE) is conducted for 100 marks (3 hours' duration) and scaled down to			
5	0 marks. Basec	i on this grading will be awarded.			
	Ontinuous Int	ernal Evaluation:			
1 2	The close to	ggested. Test, Open Book test, written Quiz, Seminar, report writing etc.			
2	Seminar In	the beginning only the teacher has to announce the methods of CIE for the subject			
S	emester End I	Examination.			
Т	heory SEE wil	be conducted by University as per scheduled time table, with common question papers			
fo	or subject				
1	. The question	n paper will have ten questions. Each question is set for 20 marks. Marks scored shall be			
	proportional	lly reduced to 50 marks			
2	. There will	be 2 questions from each module. Each of the two questions under a module (with a			
	maximum o	f 3 sub questions), should have a mix of topics under that module.			
3	. The students	s have to answer 5 full questions, selecting one full question from each module			
S	uggested Lear	ming Resources:			
B	ooks				
1	1. Verma, N. (1995) What is Planning Practice? The Search of Suitable Categories. Journal of Planning				
	Education and Research, Vol. 14, pp. 178 – 182. 2.				

- 2. Stevens, N.J., Salmon, M.P., Walker, H.G. and Stanton, A.N. (2008) Human Factors in Land Use Planning and Design, CRC Press, New York. 3.
- 3. Kulshreshtha, S.K. (2012) Urban and Regional Planning in India: A Handbook for Professional Practice, Sage, New Delhi.

Web links and Video Lectures (e-Resources):

- <u>https://www.researchgate.net/publication/249051513_Critical_Theory_and_Planning_Practice</u>
- <u>https://www.in.undp.org/content/india/en/home/about-us/legal-framework.html</u>
- http://spa.ac.in/writereaddata/tcpo.pdf

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

- Activities based on topics in the modules
- Group discussions and ppt preparations

	TRAFFIC AND TRANSPORT PLANNING – II			
Course Code		21 PLN44	CIE Marks	50
Teaching Hou	urs/Week (L:T:S:P:SM:SS)	3:0:0:0:0:0	SEE Marks	50
Total Hours of	of Pedagogy	48	Total Marks	100
Credits		3	Exam Hours	3
Course object To un study	 Course objectives: To understand types, forms and components of urban and regional transport systems. To study transport policy and transport economics for urban and regional transport systems. 			
Pedagogy (G These are san outcomes. Innov Short Enco Ask a critic Adap think simpl Vario Discu	eneral Instructions) nple Strategies, which teacher vative lecture methodologies to videos for better understandi urage collaborative (Group La at least three HOT (Higher ord al thinking of Problem Based Learning (P ing skills such as the ability to ly recall it ous analysis at regional level assion in class to elevate think	es can use to accelerate the attain to be adapted to improve the tean ng, group discussion and termine earning) learning in the class der Thinking) questions in the c BL), which fosters students An problem solving meth	nment of the vario aching and learnin nologies knowled class, which promo alytical skills, dev yze information ra	ous course ag process ge check otes velop ather than
		Module-1		
Transport IEvolution oftransport popolicies: TraPedagogy	Transport PolicyEvolution of transport policy in India, current transport policy in India, Asian perspective on transport policy; Interactions between transport and other policy areas; Land use and transport policies: Translation of national policy in city and local level plans.PedagogyTaught through ppts, pds materials and discussions			
		Module-2		
Urban Tran Urban form quality of 1 techniques, 1 land use tran small towns transport	Urban Transport System Urban form and transport systems; Impact of land use on transport and vice versa; Transport and quality of life planning for transport in cities and towns; Data requirements and planning techniques, travel behaviour and its determinants, choice modelling, influencing travel behaviour, land use transport models for cities; Provision of new mass transit in cities; Specific challenges of small towns and big cities; Roles and responsibilities of various agencies; Provision for freight			
Dedegeory	Taught through pote odf	s materials and discussions		
reuagogy		Modulo 2		
	Module-3			

	Regional Transport System				
	Planning for regional transport systems; Data requirements and planning techniques; Importance of				
	accessibility in regional transport planning; Indicators of accessibility to basic services; Planning				
	transport nodes: Poles and responsibilities of various agencies				
	Badagagy Taught through ppts_pdfs materials and discussions				
	Tuagogy	Taught through ppts, puts materials and discussions			
	T (1	Module-4			
	I ransport I	Conomics			
	Techniques	for estimating direct and indirect road user costs benefits: Monetization of costs and			
	benefits: Inv	restment criteria and public private partnerships in the transport sector			
	Pedagogy	Taught through ppts, pdfs materials and discussions			
	8 80	Module-5			
	Technology	and Transportation			
	Intelligent T	ransportation System: Big data analysis: Smart parking: smart ticketing: SCADA.			
	automated tr	ansportation options, etc			
	Pedagogy	Taught through ppts, pdfs materials and discussions			
C	Course outcor	ne (Course Skill Set)			
A	t the end of th	ne course the student will be able to :			
	• Upon the	completion of this course, the students would be able: To analyse and evaluate critically			
	those issue	as through policy and financial resource planning for implementation of affective			
	transport	plans and projects			
٨	Association and projects.				
(1	methods of C	IF need to be define tonic wise i.e. MCO. Quizzes. Onen book test. Seminar or micro.			
p	roject)	in need to be define topic wise i.e. wieg, guizzes, open book test, seminar of intero			
Î	he weightage	of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is			
5	0%. The stude	ent has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35%			
n	narks of maxin	num marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total			
0	f the CIE (C	continuous Internal Evaluation) and SEE (Semester End Examination) taken together.			
Т	heory Semest	er End Exam (SEE) is conducted for 100 marks (3 hours' duration) and scaled down to			
5	0 marks. Base	ed on this grading will be awarded.			
C	Continuous In	ternal Evaluation:			
1	. Methods su	aggested: Test, Open Book test, Written Quiz, Seminar, report writing etc.			
2	. The class	teacher has to decide the topic for closed book test, open book test, Written Quiz and			
	Seminar. In	n the beginning only the teacher has to announce the methods of CIE for the subject.			
S	emester End	Examination:			
T	heory SEE w	ill be conducted by University as per scheduled time table, with common question papers			
1	or subject				
	proportion	on paper will have ten questions. Each question is set for 20 marks. Marks scored shall be ally reduced to 50 marks			
2	. There will	be 2 questions from each module. Each of the two questions under a module (with a			
2	The studen	to 5 sub questions), should have a fills of topics under that module.			
3	. The studen	is have to answer 5 run questions, selecting one run question from each module			
L					

Suggested Learning Resources:

Books

- 1. Stopher, P. and Stanley J. (2014) Introduction to Transport Policy: A Public Policy View, Edward Elgar Publishing Ltd., Northampton, Massachusetts.
- 2. Grava, S. (2002) Urban Transportation Systems, McGraw Hill Professional, New York.
- 3. Verma, A. (2010) Integrated Public Transportation System, VDM Verlag.
- 4. Chris, N. (ed.) (2015) Handbook of Research Methods and Applications in Transport Economics and Policy, Edward Elgar Publishing Ltd, Cheltenham.
- 5. Kadiyali L.R. (1999) Traffic Engineering and Transport Planning, Khanna Publishers, New Delhi.
- 6. Sarkar, P.K., Maitri, V. and Joshi, G.J. (2014) Transportation Planning: Principles, Practices and Policies, Prentice Hall India, New Delhi. 3.
- 7. Verma, A. and Ramanayya, T.V. (2014) Public Transport Planning and Management in Developing Countries, CRC Press, London. 4.
- 8. Relevant codes of Indian Road Congress, New Delhi

Web links and Video Lectures (e-Resources):

- Ministry of Urban Development. 'Code of Practice (Part -1): Cross Section'. Institute of Urban Transport.2012. (CODES)
- IRC:54. 'Lateral and Vertical Clearances at Underpasses for Vehicular Traffic. Indian Road Congress. 1974. (CODES)

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

• Activities based on several topics in the modules

	ECOLOGY A	ND RESOURCE PLANNIN	G	
Course Code		21 PLN45	CIE Marks	50
Teaching Hours/	Week (L:T:S:P:SM:SS)	2:0:0:0:0:1	SEE Marks	50
Total Hours of P	edagogy	48	Total Marks	100
Credits		2	Exam Hours	3
Course objectiv • To provistudents regions.	es: de knowledge about ecolo to techniques of analysis c	gy, climate change and resourd f ecological parameters of hur	ce planning. To ex nan settlements, di	pose stricts and
 Pedagogy (Generation of the search sample outcomes. Innovative Short vice Encourage Ask at least the critical the Adapt Protection of the thinking simply results of the Various Discussion 	eral Instructions) e Strategies, which teachers we lecture methodologies to leos for better understanding ge collaborative (Group Le east three HOT (Higher ord hinking coblem Based Learning (PI skills such as the ability to ecall it analysis at regional level on in class to elevate think	s can use to accelerate the attain o be adapted to improve the tea ng, group discussion and termin earning) learning in the class ler Thinking) questions in the of BL), which fosters students Ar o evaluate, generalize, and anal ing and problem solving methe	inment of the vario aching and learnin nologies knowledg class, which promo alytical skills, dev yze information ra	g process ge check otes relop ther than
		Module-1		
Comprehendin Meaning and sc processes of ecc urbanization ar significance; Sc management; D development or management of sensitive areas i	g Ecology ope of ecology; Evolution ology; Resources and humand industrialization of m oil, water, land, vegetati efining ecologically sensitive n coastal areas, forests, h ecologically sensitive reg n India.	of ecology, components of na an settlements' impact on adva- ature; Urban ecosystem ap- tion and energy resources an ive areas, ESA as a resource ills and river ecology; Legis gions; Case studies for the m	ture and basic con anced agricultural proach, its evolu nd their developm for development; lation and policie nanagement of eco	cepts and methods, ition and nent and Impact of s for the ologically
Pedagogy Ta	aught through ppts, pds ma	terials and discussions		
		Module-2		
Quantitative E Introduction to different levels formats for da Ecological footp	cology quantitative ecology; Id like site planning, settle ta collection; Types of prints and carrying capacity	lentification of ecological pa ment planning and regional analysis required for evolvi y.	arameters for pla planning; Data n ng ecological pa	nning at eeds and rameters;
Pedagogy	Taught through ppts, pds	materials and discussions		

	Module-3		
Ecology sen	sitive areas		
What are Ed	cologically Sensitive Areas? ESA as a resource for development- use and over use.		
Impact of development on coastal, forest, hill and river ecology. Legislations and policies for			
management	management of ecologically sensitive regions. Case studies for management of ecologically		
sensitive are	sensitive areas- India and abroad.		
Pedagogy	Taught through ppts, pds materials and discussions		
	Module-4		
Resource Pla	Inning Development and Management		
Endowments,	, types of resources, exhaustive and renewable resources development; Utilization and		
conservation	of national, technological and human resources; Resource management, recycling of		
resources and	d resource equilibrium; Water resource management, waste land management; Rural		
industrializati	ion and use of nonconventional energy in rural development; Major resource		
development	programmes in 62 India; Case studies of resource development projects in agriculture,		
forestry, mine	erals, water, etc.		
Pedagogy	Taught through ppts, pds materials and discussions		
	Module-5		
Climate Cha	nge		
Cities and c	limate change; Impact of built environment and transportation on greenhouse gas		
emissions; R	ole of planning in climate change mitigation and adaptation; Management tools for		
sustainable re	etrofitting infrastructure; Critical review of policies and regulations in India regarding		
climate chan	ge; Examples of climate change plans where mitigation and adaptation strategies are		
translated into	o concrete actions; Emerging technologies; National policy framework on climate		
change, carbo	on credits and trade, carbon footprints.		
Pedagogy	Taught through ppts, pds materials and discussions		
Course outcom	e (Course Skill Set)		
At the end of the	e course the student will be able to :		
• Opon the c	parameters of any human settlement district or region. To apply these skills and		
lecological	for the momentation of development plans and projects integrating the cool original issues		
knowledge	s for the preparation of development plans and projects integrating the ecological issues.		
Assessment De	tans (Doin Cie and See)		
(methods of CI	E need to be define topic wise i.e MCQ, Quizzes, Open book test, Seminar or micro		
The weightage	of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is		
50% The stude	nt has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35%		
marks of maxim	tum marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total		
of the CIE (Co	ontinuous Internal Evaluation) and SEE (Semester End Examination) taken together.		
Theory Semeste	r End Exam (SEE) is conducted for 100 marks (3 hours' duration) and scaled down to		
50 marks. Based	I on this grading will be awarded.		
Continuous Int	ernal Evaluation:		
1. Methods su	ggested: Test, Open Book test, Written Ouiz, Seminar, report writing etc.		
2. The class te	eacher has to decide the topic for closed book test, open book test. Written Ouiz and		
Seminar. In	the beginning only teacher has to announce the methods of CIE for the subject.		

Semister End Examination: Theory SEE will be conducted by University as per scheduled time table, with common question papers

for subject

- 1. The question paper will have ten questions. Each question is set for 20 marks. Marks scored shall be proportionally reduced to 50 marks
- 2. There will be 2 questions from each module. Each of the two questions under a module (with a maximum of 3 sub questions), should have a mix of topics under that module.
- 3. The students have to answer 5 full questions, selecting one full question from each module

Suggested Learning Resources:

Books

- 1. Agarwal S.K. (2011) Fundamentals of Ecology, APH Publishing Corporation, New Delhi.
- 2. Schneider, D.C. (1994) Quantitative Ecology: Spatial and Temporal Scaling, Academic Press, London.
- 3. Sethi, M. (2017) Climate Change and Urban Settlements: A Spatial Perspective of Carbon Footprint and Beyond, Routledge, Oxon.
- 4. Wurbs, A.R. (ed.) (2013) Water Resources: Planning, Development and Management, InTech, Rijeka.

Web links and Video Lectures (e-Resources):

- https://www.youtube.com/watch?v=1zyjKYbBCw4
- <u>https://www.youtube.com/watch?v=ZngDF4jfRdw&list=PLyqSpQzTE6M_vO7rLpxKZWqai4u_JP2bDa</u>
- <u>https://www.youtube.com/watch?v=icuK1zoGia4&list=PLyqSpQzTE6M_vO7rLpxKZWqai4uJ</u> <u>P2bDa&index=4</u>

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

• PowerPoint preparations and group discussions based on topics in the module

1.	PROFESSIONAL ELECTIVE I - 1. ADVANCED SPATIAL DATA INFRASTRUCTURE FOR PLANNING					
Course Code		21 PLN46.1	CIE Marks	50		
Teaching Hou	urs/Week (L:T:S:P:SM:SS)	3:0:0:0:0:0	SEE Marks	50		
Total Hours of	f Pedagogy	48	Total Marks	100		
Credits		3	Exam Hours	3		
Course object • To tra plann	 Course objectives: To train students for skill development about concepts, scope and use of SDI for settlement planning so that they could ensure better planning using these new techniques. 					
Pedagogy (G These are sam outcomes. Innov Short Encor Ask a critica Adap thinka simpl Vario Discu	 Pedagogy (General Instructions) These are sample Strategies, which teachers can use to accelerate the attainment of the various course outcomes. Innovative lecture methodologies to be adapted to improve the teaching and learning process Short videos for better understanding, group discussion and terminologies knowledge check Encourage collaborative (Group Learning) learning in the class Ask at least three HOT (Higher order Thinking) questions in the class, which promotes critical thinking Adapt Problem Based Learning (PBL), which fosters students Analytical skills, develop thinking skills such as the ability to evaluate, generalize, and analyze information rather than simply recall it Various analysis at regional level Discussion in class to elevate thinking, and problem solving methods 					
		Module-1				
Basic Princi Spatial data with advanta planning and planning dec	Basic Principles and Broad Areas of SDI Spatial data infrastructures: concept, contents, nature and hierarchy and future directions of SDI with advantages and challenges; Understanding Spatial Data Infrastructure (SDI) for settlement planning and regional planning; Local, district and national level spatial data infrastructure for planning decision making; and SDI for efficient governance at city and regional levels.					
Pedagogy	Taught through ppts, pdfs and	nd discussions				
		Module-2				
Developing an SDI for a selected area and settlement for planning Building an SDI and using it in the planning and decision making processes; Data streaming and mining of spatial data infrastructure; Use of Remote Sensing and GIS for developing SDI for a selected area for planning and management or administrative decisions.						
Pedagogy	Pedagogy Taught through ppts, pdfs and discussions					
Module-3						
Application of open software for SDI Real time technologies and their applications, web based models for spatiotemporal predictions, and decentralised planning; Satellite based and other real time technologies and their use in identifying physical changes and transformations and their applications in urban and rural areas.						
Pedagogy	Taught through ppts, pdfs and	nd discussions				

	Module-4				
SDI for planning and decision makingRegional resource management, regional water and sanitation management and SDI; SDI foreconomic and environmental decision making, infrastructure planning and management,transportation planning, e-governance, flash flood warning systems in river and coastal belt, planningfor disaster prone, etc.					
Pedagogy Taught th	rough ppts, pdfs and discussions				
	Module-5				
Use of SDI SDI initiatives at global, success of SDI in differe	national, regional and local levels; Case study of implementation and nt levels of planning and resource management.				
Pedagogy Taught three	ough ppts, pdfs and discussions				
Course outcome (Course	Skill Set)				
At the end of the course the • Upon the completion settlement planning a infrastructure. To sho	student will be able to : of this course, the students would be able: To develop skills to use SDI for and decision making for development and management of resources and w the ability to prepare different levels of plans using the SDI.				
Assessment Details (both	CIE and SEE)				
 (methods of CIE need to be define topic wise i.e MCQ, Quizzes, Open book test, Seminar or micro project) The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The student has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% marks of maximum marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together. Theory Semester End Exam (SEE) is conducted for 100 marks (3 hours' duration) and scaled down to 50 marks. Based on this grading will be awarded. Continuous Internal Evaluation: 					
2. The class teacher has Seminar. In the beginni	to decide the topic for closed book test, open book test, Written Quiz and ng only the teacher has to announce the methods of CIE for the subject.				
Semester End Examination Theory SEE will be conduct for subject	n: eted by University as per scheduled time table, with common question papers				
 The question paper will have ten questions. Each question is set for 20 marks. Marks scored shall be proportionally reduced to 50 marks There will be 2 questions from each module. Each of the two questions under a module (with a maximum of 3 sub questions), should have a mix of topics under that module. The students have to answer 5 full questions, selecting one full question from each module 					
Suggested Learning Resources:					
 Books ESRI (2010) GIS Best BPPE 4.5 Course Title Masser, I. (ed.) (2019) Perspective, CRC Press 	Practices, Spatial Data Infrastructure (SDI), ESRI, New York. Course Code: Professional Elective – I Geographic Information Systems to Spatial Data Infrastructures: A Global , Boca Raton, Florida.				

- 3. Sadahiro, Y. (ed.) (2008) Spatial Data Infrastructure for Urban Regeneration, Springer, Germany.
- 4. Williamson, I., Rajabifard, A., and Feeny, M.E.F. (ed.) (2003) Developing Spatial Data Infrastructures: From concept to reality, Taylor and Francis, London,

Web links and Video Lectures (e-Resources):

- <u>https://www.youtube.com/watch?v=Mjr_V9KVo74</u>
- <u>https://www.youtube.com/watch?v=pOnIQ4X_28s</u>
- https://www.youtube.com/watch?v=KOPpQicK3Hg

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

• Software activities based on the modules

	PROFESSIONAL ELECTIVE – I 2. PUBLIC POLICY AND POLITICS IN PLANNING					
Course Code		21 PLN46.2	CIE Marks	50		
Teaching Hours	Week (L:T:S:P:SM:SS)	3:0:0:0:0:0	SEE Marks	50		
Total Hours of F	edagogy	48	Total Marks	100		
Credits		3	Exam Hours	3		
Course objectiv • The mai policies global e	 Course objectives: The main objective of this subject is to teach students how to analyse and comprehend public policies including planning policies with a particular focus on India but not to the relevant global environmental policies. 					
Pedagogy (Gen These are sample outcomes. Innovati Short vi Encoura Ask at le critical t Adapt P thinking simply r Various	eral Instructions) e Strategies, which teacher ve lecture methodologies deos for better understand ge collaborative (Group L east three HOT (Higher or hinking roblem Based Learning (F skills such as the ability t ecall it analysis at regional level on in class to elevate thin	rs can use to accelerate the attain to be adapted to improve the tea ing, group discussion and termin earning) learning in the class der Thinking) questions in the c PBL), which fosters students An- o evaluate, generalize, and analy	nment of the vario ching and learnin hologies knowled lass, which promo alytical skills, dev yze information ra	g process ge check otes velop ather than		
• Discussi		Module-1	Jus			
Nature and Ma Nature, scope distributive and analysis and pr agendas and w processes, and p of Harold Lassy	Nature and Making of Public PolicyNature, scope and significance of public policy; Types of public policy: Regulatory, welfare, distributive and redistributive; Evolution of public policy studies and public policy cycle; Policy analysis and process: Six steps in policy analysis; How are policies made, who influences policy agendas and what issues affect success and failure of policies, Role of institutions in policy processes, and motivations of policy actors; Models of public policy: Systems model, Contributions of Harold Lasswell, Herbert Simon, Charles Lindblom, Amitai Etzioni and others.					
redagogy	aught unough ppts, puis a	Madala 2				
Dublic Dolice	Module-2					
Overview of policy process models, Multi-stream approaches, policy implementation analysis, life- course approach to policy analysis and case studies in policy process analysis; Policy Integration: Possible areas of integration in planning; How are new information and communication technologies shaping public service delivery?; EGovernance, E-Municipalities, E-Panchayats, E- Markets, etc.; Transparency, Course Code: BPPE 4.5 Course Title Professional Elective – I No. of Credits 3 (L: 3; T: 0; P: 0) Internal Assessment 50 Marks End Semester Assessment 50 Marks Total Assessment Marks 100 Marks 111 accountability, accessibility and participatory mechanisms; Trends and pressures affecting public service organizations; Market based arrangements; Coordination and networks; Conflict and crisis management.						
Pedagogy	Taught through ppts, pd	fs and discussions				

	Module-3				
Planning an	d Policy Making in India				
Global Com	Global Commitments: Millennium Development Goals (MDGs), Sustainable Development Goals				
(SDGs), Env	(SDGs), Environment, etc. and its commitment at the National, State and Local Level; Land Policy:				
Interest grou	ps, acts, agents and policy making process; Institutional factors including legislature,				
executive, ju	diciary, NITI Ayog; Other forces in policy making such as public opinion, political				
parties, press	sure groups, media and professional bodies; External influencing agencies like UNDP,				
WHO, ILO,	UNEP, ADB, World Bank, and IMF; Studies of specific public and planning policies.				
Pedagogy	Taught through ppts, pdfs and discussions				
	Module-4				
Politics in Pl	anning				
Political insti	tutions at center, state and local political economy; Emergence of state in the federal set				
up; Politics of	of the state and bureaucracy; Politics and emergence of civil society; Regeneration and				
redevelopmen	nt politics; Property rights, norms and standards, Regulatory state, reforming state, rent-				
seeking state	and its spatial implications.				
Pedagogy	Taught through ppts, pdfs and discussions				
	Module-5				
Politics of Pr	rovision Land use politics				
Politics of pr	ovision of infrastructure and housing in urban and rural areas: Political decision making				
processes: Ca	ase studies from India and on planning and political decisions and their impact on rural				
and urban dev	velopment: Politics of displacement.				
Pedagogy	Taught through ppts, pdfs and discussions				
Commentation					
Course outcom	e (Course Skin Set)				
At the end of the	e course the student will be able to :				
• Upon the c	ompletion of this course, the students would be able: To show knowledge of theories of				
public poli	cies as well as show how these public policies are made. To analyse critically the				
politics of	planning in India.				
Assessment De	tails (both CIE and SEE)				
(methods of CI	E need to be define topic wise i.e MCQ, Quizzes, Open book test, Seminar or micro				
project)					
The weightage	of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is				
50%. The stude	nt has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35%				
marks of maxim	num marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total				
of the CIE (Co	ontinuous Internal Evaluation) and SEE (Semester End Examination) taken together.				
Theory Semester	er End Exam (SEE) is conducted for 100 marks (3 hours' duration) and scaled down to				
50 marks. Based	l on this grading will be awarded.				
Continuous Int	Continuous Internal Evaluation:				
1. Methods suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc.					
2. The class teacher has to decide the topic for closed book test, open book test, Written Quiz and					
Seminar. In the beginning only the teacher has to announce the methods of CIE for the subject.					
Semester End Examination:					
Theory SEE will	Theory SEE will be conducted by University as per scheduled time table, with common question papers				
for subject					
1. The question paper will have ten questions. Each question is set for 20 marks. Marks scored shall					
be proporti	onally reduced to 50 marks				
-					

- 2. There will be 2 questions from each module. Each of the two questions under a module (with a maximum of 3 sub questions), should have a mix of topics under that module.
- 3. The students have to answer 5 full questions, selecting one full question from each module

Suggested Learning Resources:

Books

1. Carmon, N. and Fainstein, S.S. (2013) Policy, Planning, and People: Promoting Justice in Urban Development, University of Pennsylvania Press, Philadelphia, PA.

2. Doshi, S. (2018) Greening Displacements, Displacing Green: Environmental Subjectivity, Slum Clearance, and the Embodied Political Ecologies of Dispossession in Mumbai, International Journal of Urban and Regional Research, Vol. 43, No. 1, pp. 112-132.

3. Cowan, T. (2018) Subaltern counter-urbanism: Work, dispossession and emplacement in Gurgaon, India, Geoforum, Vol. 92, pp. 152-160.

4. Fischer, F., Miller, G.J., and Sidney, M.S. (2006) Handbook of Public Policy Analysis: Theory, Politics, and Methods, CRC Press, London.

5. Moran, M., Rein, M. and Goodin, R.E. (2008) The Oxford Handbook of Public Policy, Oxford University Press, Oxford.

6. Rademacher, A. and Sivaramakrishnan, K. (2013) Ecologies of Urbanism in India: Metropolitan Civility and Sustainability, Hong Kong University Press, Hong Kong.

7. Shatkin, G. (2013) Contesting the Indian City: Global Visions and the Politics of the Local,

International Journal of Urban and Regional Research, Vol. 38, Issue 1, pp. 1-13.

8. Shatkin, G. (ed.) (2013) Contesting the Indian City: Global Visions and the Politics of the Local, Wiley-Blackwell, Oxford.

9. Storper, M. and Scott, A.J. (2016) Current Debates in Urban Theory: A critical assessment, Urban Studies, Vol. 53, No. 6, pp. 1114–1136.

Web links and Video Lectures (e-Resources):

 <u>https://www.youtube.com/watch?v=Xf0JwRm3ve0&list=PLyqSpQzTE6M8yxZn9rJK6QfZbGq</u> <u>OWA5-1</u>

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

• PowerPoint preparation, based on the topics in the modules

PROFESSIONAL ELECTIVE – I 3. RURAL BUSINESS MANAGEMENT						
Course Code		21 PLN46.3	CIE Marks	50		
Teaching Hou	urs/Week (L:T:S:P:SM:SS)	3:0:0:0:0:0	SEE Marks	50		
Total Hours of	of Pedagogy	48	Total Marks	100		
Credits		3	Exam Hours	3		
Course objec To ir plann agricu	Course objectives: To introduce students about the application of management principles in the rural sector, planning, organization, and control of cooperatives and related organizations in the field of agriculture and also learn about the entrepreneurial activities in the rural areas.					
Pedagogy (G These are san outcomes. Theor Expo Innov Short the as Encou Ask a critica Adap thinki simpl Discu	 Pedagogy (General Instructions) These are sample Strategies, which teachers can use to accelerate the attainment of the various course outcomes. Theory subjects and studio to go hand in hand Exposing the students to the Planning guidelines (URDPFI), IRC Innovative lecture methodologies to be adapted to improve the teaching and learning process Short videos for better understanding, physical site visits for understanding the scale and all the aspects of site planning Encourage collaborative (Group Learning) learning in the class Ask at least three HOT (Higher order Thinking) questions in the class, which promotes critical thinking Adapt Problem Based Learning (PBL), which fosters students Analytical skills, develop thinking skills such as the ability to evaluate, generalize, and analyse information rather than simply recall it Discussion in class to elevate thinking level and different problem solving levels 					
		Module-1				
Rural Societ Basic feature structure: Ph Pedagogy	Rural Society Basic features, Rural stratification, Values and value systems, Rural-urban differences, Rural social structure: Physical, social, cultural, regional, ideology and economic structures Delayer					
	0 0	Module-2				
Rural Comr Concept of Community development	Rural Community Development Concept of community, Function of Community, community profile: Process and tools. Community development: Characteristics, Principles and scope, Panchayat Raj and community development in India.					
Pedagogy Taught through chalk and talk methods, PowerPoints presentation and PDFs						
	Module-3					
Rural Power Structures and management Caste hierarchy, Landlord-labour relationship, Social power groups and their roles, Caste in rural Society, Tribes and their problems. Nature, Scope and challenges in marketing operations, human resources and finance in rural areas. Entrepreneurship opportunities in rural areas.						
Pedagogy	Pedagogy Taught through chalk and talk methods, PowerPoints presentation and PDFs					

Module-4				
Rural Administration Concept and scope, Administrative structure: State, District, Block, Gram panchayat and panchayat samities-Power, functions, elections and working problems				
PedagogyTaught through chalk and talk methods, PowerPoints presentation and PDFs				
Module-5				
 Entrepreneurship and Small Business Introduction: Concept of entrepreneur, Entrepreneurship functions and skills, Nature and importance, Types of entrepreneurs, Entrepreneurship and economic growth Theories of Entrepreneurship, Creativity and innovation, Entrepreneur and Intrapreneur, Factors affecting entrepreneurial growth and development, Women entrepreneurs. Institutional Support and Sickness in Small Business: Institutional support for SSI, Incentives and subsidies for small units, Technological upgradation, Business incubators, Sickness in Small Business- concept. magnitude, causes, consequences and corrective measures 				
PedagogyTaught through chalk and talk methods, PowerPoints presentation and PDFs				
Course outcome (Course Skill Set)				
 Understand the Concept, Nature, Characteristic about the Rural Society Students get knowledge about the various Caste, Family system, history of class, changing pattern etc. Understand the students about the nature and changing pattern of rural economy, type of agriculture labours and their problems Understand the students about the Poverty Factors, Education, Health and Infrastructure, Indebtedness, Agrarian crisis and farmers suicide 				
Assessment Details (both CIE and SEE)				
 (methods of CIE need to be define topic wise i.e MCQ, Quizzes, Open book test, Seminar or micro project) The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The student has to abtein a minimum of 40% merils of maximum marks in CIE and minimum. 				
50%. The student has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% marks of maximum marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together. Semester End Exam (SEE) is conducted for 100 marks and scaled down to 50 marks. Based on this grading will be awarded.				
Continuous Internal Evaluation:				
 Wethous suggested: Test, Open Book test, written Quiz, Seminar, report writing etc. The class teacher has to decide the topic for closed book test, open book test, Written Quiz and Seminar. In the beginning only the teacher has to announce the methods of CIE for the subject. 				
Semester End Examination: Theory SEE will be conducted by University as per scheduled time table, with common question papers for subject				
 The question paper will have ten questions. Each question is set for 20 marks. Marks scored shall be proportionally reduced to 50 marks There will be 2 questions from each module. Each of the two questions under a module (with a 				
maximum of 3 sub questions), should have a mix of topics under that module.3. The students have to answer 5 full questions, selecting one full question from each module				

Suggested Learning Resources:

Books

- 1. Hisrich, R.D., and Peters, M.P. "Entrepreneurship" Tata Mc Graw-Hill, New Delhi.
- 2. Roy, R. "Entrepreneurship" Oxford University Press, New Delhi.
- 3. Shukla, M.B. "Entrepreneurship and Small Business Management" Kitab Mahal, Allahabad.
- 4. Desai, V. "Management of Small Industry" Himalaya Publishing House, Mumbai.
- 5. Desai, V. "Dynamics of Entrepreneurial Development and Management." Himalaya Publishing House, New Delhi.
- 6. Khanka, S.S. "Entrepreneurial Development" S. Chand and Company, New Delhi.
- 7. Lekhi, R.K. "The Economics of Development and Planning" Kalyani Publishers, New Delhi.
- 8. Desai, V. "Fundamentals of Rural Management" Rawat Publications, New Delhi.
- 9. Satya Sundram,
- 10. I. "Rural Development" Himalaya Publishing House, New Delhi.
- 11. Prasad, B.K. "Rural Development: Concept, Scope and Strategy" Sarup and Sons, New Delhi.
- 12. Chamola, S.D., and Bharti, A. "Agriculture and Rural Development in India" Global Vision Publishing House, New Delhi.
- 13. Singh, K. "Rural Development: Principle, Policies and Management" Sage, New Delhi.

Web links and Video Lectures (e-Resources):

- <u>http://www.mgncre.org/pdf/publication/205%20Business%20Environment-%20English.pdf</u>
- <u>https://www.researchgate.net/publication/355207365_Management_Theory_and_Studies_for_R</u> <u>ural_Business_and_Infrastructure_Development</u>

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

- Module based activity related to topics
- Presentation preparation related to the given topics
- Debate on various topics from the module or current affairs

PROFES 4. STATISTICAL	SIONAL ELECTIVE – I APPLICATION IN PLAN	NING	
Course Code	21PLN46.4	CIE Marks	50
Teaching Hours/Week (L:T:S:P:SM:SS)	3:0:0:0:0:0	SEE Marks	50
Total Hours of Pedagogy	48	Total Marks	100
Credits	3	Exam Hours	3
Course objectives:			
 The course will consider Markov illustrated with examples from ope The purpose of this course is to a solve ordinary differential equation distribution and stochastic processor 	processes in discrete and co ration research, biology and e make students well conversa ns, complex analysis, samplin es arising in science and engin	ontinuous time. The economy. nt with numerical and theory and joint meering.	e theory is methods to probability
Pedagogy (General Instructions) These are sample Strategies which teacher	s can use to accelerate the att	ainment of the vario	ous course
outcomes.			
 Lecturer method (L) does not mean on methods may be adopted to develop the o Arrange visits to nearby power plants, n about the electrical power generation. Show Video/animation films to explate Encourage collaborative (Group Lease Ask at least three HOTS (Higher order thinking Adopt Problem Based Learning (PBL), skills such as the ability to evaluate, gener Topics will be introduced in a multiple Show the different ways to solve the sa own creative ways to solve them. Discuss how every concept can be appli improve the students' understanding. Individual teachers can device the in 	in functioning of various maring) Learning in the class receiving stations and substations and substation functioning of various maring) Learning in the class Thinking) questions in the class which fosters students Analy valize, and analyze information representation. In problem and encourage the lied to the real world - and when nnovative pedagogy to impresentation	ions to give brief in achines ass, which promotes rtical skills, develop n rather than simply ne students to come en that's possible, i ove the teaching-le	formation formation s critical o thinking y recall it. up with th t helps earning.
	Module 1		
Probability: Introduction. Sample space and events. At Events, Algebra of events and theorems Co	xioms of probability. Addition anditional probability, Bayes'	on & multiplication s theorem, problem	theorems, s.
Pedagogy Taught through chalk and ta	Ik methods, PowerPoints pres	sentation and PDFs	
	Module 2		
Probability Distributions:			
Review of basic probability theory. R mass/density functions. Binomial, Poisso derivation for mean and standard deviation	andom variables (discrete on, exponential and normal)-Illustrative examples.	and continuous), distributions- pro	probability blems (No

Pedagogy	Pedagogy Taught through chalk and talk methods, PowerPoints presentation and PDFs				
	Module 3				
Simulation N	Simulation Models				
Basic termin simulation pro investment an	Basic terminology, Random Number Generation through tables, types of simulation, steps in simulation process- Monte-Carlo technique, simulation application in planning, Demand, queries, and investment analysis. Role of computers in simulation.				
Pedagogy	Taught through chalk and talk methods, PowerPoints presentation and PDFs				
	Module 4				
Markov chai Stochastic Pro processes, Ge process in que Markov chain equations, Ra	Markov chains and Stochastic processesStochastic Processes: Definition and examples of stochastic processes, Classifications of stochasticprocesses, General concepts of queuing systems, Steady state and transient behaviour, Birth and deathprocess in queuing theoryMarkov chains: Definition and examples, Transition Probability matrices, Chapman-KolmogorovequationsBandom walkClassification of states of a Markov chainDetermination of higher order				
transition prol Reducible Ma	babilities, Graph theoretic approach, Markov chains with denumerable number of states, irkov chains, Markov Chains with continuous state spaces				
Pedagogy	Pedagogy Taught through chalk and talk methods, PowerPoints presentation and PDFs				
	Module 5				
Application of	Application of Statistical tools using MS-EXCEL				
Descriptive st Pearson's coor regressionpr	atistics 9 Mean, Median, Mode and standard deviation, Correlation and regression-Karl efficient of correlation and rank correlation -problems. Regression analysis- lines of roblems. Testing of hypothesis - Z-test ,Chi -square test and ANOVA				
Pedagogy	Taught through chalk and talk methods, PowerPoints presentation and PDFs				
Course outcome	e (Course Skill Set)				
At the end of the	e course the student will be able to:				
CO1: Solve systems of linear equations using matrix algebra.					
CO2: Apply the knowledge of numerical methods in modelling and solving engineering problems.					
CO3: Make use of analytical methods to solve higher order differential equations.					
CO4: Classify partial differential equations and solve them by exact methods.					
CO5: Apply elementary probability theory and solve related problems					

Assessment Details (both CIE and SEE)

(methods of CIE need to be define topic wise i.e.- MCQ, Quizzes, Open book test, Seminar or micro project)

The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The student has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% marks of maximum marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together. Theory Semester End Exam (SEE) is conducted for 100 marks (3 hours' duration) and scaled down to 50 marks. Based on this grading will be awarded.

Continuous Internal Evaluation:

- 1. Methods suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc.
- 2. The class teacher has to decide the topic for closed book test, open book test, Written Quiz and Seminar. In the beginning only the teacher has to announce the methods of CIE for the subject.

Semester End Examination:

Theory SEE will be conducted by University as per scheduled time table, with common question papers for subject

- 1. The question paper will have ten questions. Each question is set for 20 marks. Marks scored shall be proportionally reduced to 50 marks
- 2. There will be 2 questions from each module. Each of the two questions under a module (with a maximum of 3 sub questions), should have a mix of topics under that module.
- 3. The students have to answer 5 full questions, selecting one full question from each module

Suggested Learning Resources:

Books

- 1. 1 Advanced Engineering Mathematics E. Kreyszig John Wiley & Sons 10th Edition, 2015
- 2. 2 Engineering Mathematics N. P. Bali and Manish Goyal Laxmi Publishers 7th Edition, 2007
- 3. 3 Engineering Mathematics Vol. I Rohit Khurana Cengage Learning 1st Edition, 2015
- 4. Higher Engineering Mathematics B.S. Grewal Khanna Publishers 43rd Edition, 2015
- 5. Advanced Engineering Mathematics E. Kreyszig John Wiley & Sons 10th Edition, 2016
- 6. 2 Higher Engineering Mathematics B. S. Grewal Khanna Publishers 44th Edition, 2017
- 7. 3 Engineering Mathematics Srimanta Pal et al Oxford University Press 3 rd Edition, 2016
- Advanced Engineering Mathematics C. Ray Wylie, Louis C.Barrett McGraw-Hill 6 th Edition 1995
- 9. 2 Introductory Methods of Numerical Analysis S.S.Sastry Prentice Hall of India 4 th Edition 2010
- 10.3 Higher Engineering Mathematics B. V. Ramana McGraw-Hill 11th Edition, 2010
- 11.4 A Text Book of Engineering Mathematics N. P. Bali and Manish Goyal Laxmi Publications 2014
- 12.5 Advanced Engineering Mathematics Chandrika Prasad and Reena Garg Khanna Publishing, 2018
- 13. J. Medhi, Stochastic Processes, New Age Publishers, Second Edition, Reprint 2007.
- 14.S. Karlin and H. M. Taylor, A First Course in Stochastic Processes, Academic Press, Academic Press, 1975

Web links and Video Lectures (e-Resources):

- 1. 1. http://nptel.ac.in/courses.php?disciplineID=111
- 2. 2. http://www.class-central.com/subject/math(MOOCs)
- 3. 3. http://academicearth.org/
- 4. 4. VTU EDUSAT PROGRAMME 20

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

- A site study to be made to understand process involved in the delineation of the region
- A literature study on corridor development, road development projects, port development projects, airports and metro rail projects.

PROFESSIONAL ELECTIVE – I 5. SAMPLING & SURVEY TECHNIQUES IN PLANNING				
Course Code		21 PLN46.5	CIE Marks	50
Teaching Hour	rs/Week (L:T:S:P:SM:SS)	3:0:0:0:0:0	SEE Marks	50
Total Hours of	Pedagogy	48	Total Marks	100
Credits		3	Exam Hours	3
Course object The co stratifi standa Studer chance	tives: burse will cover the main tec ication, systematic selection rd errors will be derived. hts should be familiar with c e selection, expected values,	chniques used in actual samplin etc. From each sampling desig lescriptive statistics, the norma standarderors and confidence in	g- simple randon n, mean estimatio l and binomial di ntervals.	n sampling, n and their stributions,
 Chance selection, expected values, standarderors and confidence intervals. Pedagogy (General Instructions) These are sample Strategies, which teachers can use to accelerate the attainment of the various course outcomes. Theory subjects and studio to go hand in hand Exposing the students to the Planning guidelines (URDPFI), IRC Innovative lecture methodologies to be adapted to improve the teaching and learning process Short videos for better understanding, physical site visits for understanding the scale and all the aspects of site planning Encourage collaborative (Group Learning) learning in the class Ask at least three HOT (Higher order Thinking) questions in the class, which promotes critical thinking Adapt Problem Based Learning (PBL), which fosters students Analytical skills, develop thinking skills such as the ability to evaluate, generalize, and analyse information rather than simply recall it Discussion in class to elevate thinking level and different problem solving levels 				
		Module-1		
Elements of tl Technical terr questionnaire, Sampling Dist	he Sampling Problems and ms, selection of sample, I information in population an ribution .Estimations.	Statistics Design of sample survey, error and samples: Infinite Population	cors in survey, o and finite popula	design of tion case,
Pedagogy	Taught through chalk and ta	lk methods, PowerPoints prese	ntation and PDFs	
		Module-2		

Simple Random Sampling						
Drawing the	Drawing the simple random sample, Estimation of a population mean and total. Selecting sample					
size estimation	size estimation of a population mean and total, Estimation of a population proportion, Comparing					
Estimates.	Estimates.					
Pedagogy	Taught through chalk and talk methods, PowerPoints presentation and PDFs					
	Module-3					
Stratified Ra	ndom Sampling					
Estimation of total, Allocati allocating the	a Population mean and total, Selecting sample size estimation of a population mean and on of the sample, Estimation of a population proportion, Selecting the sample size and sample to estimate proportions. Additional comments on stratified sampling.					
Pedagogy	Taught through chalk and talk methods, PowerPoints presentation and PDFs					
	Module-4					
Systematic &	c Cluster Sampling					
Estimation of	a Population mean and total, estimation of a population proportion, selecting sample					
size, equal clu	ster sizes, comparison to simple random sampling, selecting sample size for estimation					
of a population	on mean and total, cluster sampling combined with stratification, cluster sampling with					
probabilities p	proportional to sizes, two - stage cluster with probabilities proportional to size.					
Pedagogy	Taught through chalk and talk methods, PowerPoints presentation and PDFs					
	Module-5					
Ratio, Regres	ssion, Difference Estimation & Population Size					
Surveys that require the use of ratios estimators, Ratio estimation using simple random sampling,						
selecting the	selecting the sample size, ration estimation in stratified random sampling, regression estimation,					
Estimation of	population size using direct sampling, Estimation of a population density and size from					
Quadrat samp	les. Estimation population, Density and size from stocked Quadrats. Adaptive sampling.					
Pedagogy	Taught through chalk and talk methods, PowerPoints presentation and PDFs					
Course outcom	e (Course Skill Set)					
 Students 	who successfully complete the course should:					
 understa 	nd the principles underlying sampling as a means of making inferences about a					
populati	on,					
• Understa	and the difference between randomization theory and model based analysis,					
• Understa	and the concepts of bias and sampling variability and strategies for reducing these,					
• Be able	to analyse data from multi-stage surveys,					
• Have an	appreciation of the practical issues arising in sampling studies					
Assessment Det	ails (both CIE and SEE)					
(methods of Cl	E need to be define topic wise i.e MCQ, Quizzes, Open book test, Seminar or micro					
project)						
The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is						
50%. The student has to obtain a minimum of 40% marks of maximum marks in CIE and minimum						
35% marks of maximum marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the						
sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken						
together. Seme	ster End Exam (SEE) is conducted for 100 marks and scaled down to 50 marks. Based					
on this grading	will be awarded.					
Continuous Inte	ernal Evaluation:					

- 1. Methods suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc.
- 2. The class teacher has to decide the topic for closed book test, open book test, Written Quiz and Seminar. In the beginning only the teacher has to announce the methods of CIE for the subject.

Semester End Examination:

Theory SEE will be conducted by University as per scheduled time table, with common question papers for subject

- 1. The question paper will have ten questions. Each question is set for 20 marks. Marks scored shall be proportionally reduced to 50 marks
- 2. There will be 2 questions from each module. Each of the two questions under a module (with a maximum of 3 sub questions), should have a mix of topics under that module.
- 3. The students have to answer 5 full questions, selecting one full question from each module

Suggested Learning Resources:

Books

- 1. Survey Sampling By Arijit Chaudhuri
- 2. Theory and Methods of Survey Sampling
- **3.** Elementary survey sampling 7th edition solutions

Web links and Video Lectures (e-Resources):

- <u>https://www.coursehero.com/textbook-solutions/Elementary-Survey-Sampling-7th-Edition-9780840053619-766/</u>
- https://luc.id/knowledgehub/methods-of-survey-sampling/
- <u>https://www.questionpro.com/blog/probability-sampling/</u>
- https://www150.statcan.gc.ca/n1/edu/power-pouvoir/ch13/prob/5214899-eng.htm

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

- Module based activity related to topics
- Presentation preparation related to the given topics
- Debate on various topics from the module or current affairs

	CONSTITUTION OF INDIA & PROFESSIONAL ETHICS						
Course Code		21PLN47	CIE Marks	50			
Teaching Hours/Week (L:T:S:P:SM:SS)		2:0:0:0:0:0	SEE Marks	50			
Total Hours of P	' edagogy	32	Total Marks	100			
Credits		2	Exam Hours	3			
Course objectiv • The main space.	 Course objectives: The main objective of this course is to get students acquainted with various perspectives on space. 						
Pedagogy (Gene These are sample outcomes. Innovati Short vid Encoura Ask at le critical t Adopt P thinking simply r Discussi	 Pedagogy (General Instructions) These are sample Strategies, which teachers can use to accelerate the attainment of the various course outcomes. Innovative lecture methodologies to be adapted to improve the teaching and learning process Short videos for better understanding, group discussion Encourage collaborative (Group Learning) learning in the class Ask at least three HOT (Higher order Thinking) questions in the class, which promotes critical thinking Adopt Problem Based Learning (PBL), which fosters students Analytical skills, develop thinking skills such as the ability to evaluate, generalize, and analyze information rather than simply recall it 						
		Module-1					
Introduction to	o the Constitution of Indi	a					
The Making of Constitution Fu	the Constitution and Salien ndamental Rights & its lin	tt features of the Constitution. In the teatures of the Constitutions	Preamble to the In	dian			
Pedagogy T	aught through ppts and pdf	fs materials					
		Module-2					
Directive Princ Directive Princi Duties, Union E	Directive Principles Directive Principles of State Policy & Relevance of Directive Principles State Policy Fundamental Duties, Union Executives – President, Prime Minister Parliament Supreme Court of India.						
Pedagogy	Pedagogy Taught through ppts and pdfs materials						
	Module-3						
State Executives State Executives – Governor Chief Minister, State Legislature High Court of State. Electoral Process in India, Amendment Procedures, 42nd, 44th, 74th, 76th, 86th & 91st Amendments.							
	Module-4						
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Special Pro	visions						
Special Pro	ovision for SC & ST Special Provision for Women, Children & Backward Classe						
Emergency	Provisions. Human Rights -Meaning and Definitions, Legislation Specific Themes in						
Human Rig	hts- Working of National Human Rights Commission in India, Powers and functions o						
Municipalit	ies, Panchayats and Co - Operative Societies.						
Pedagogy	Taught through ppts and pdfs materials						
	Module-5						
Scope & Ai	ms of Planning Ethics, Responsibility of Planners						
Impediment	s to Responsibility. Risks, Safety and liability of Planners, Honesty, Integrity &						
Reliability i	n Planning.						
Pedagogy	aught through ppts and pdfs materials						
Course outco	me (Course Skill Set)						
At the end of t	he course the student will be able to :						
• Upon the	e completion of this course, the students would be able: To show understanding of the						
idea of p	place and space and its relationship to city planning. To demonstrate the ability t						
comprehend the forces active in the formations and transformations of spaces with a particular							
· · · · · ·	and the follows weather in the following which during of spaces with a particular						
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Suggested Learning Resources:

Books

- 1. Choudhry, S., Khosla, M. and Mehta, P.B. (eds.) The Oxford Handbook of the Indian Constitution, Oxford University Press, New Delhi.
- 2. Sivaramakrishnan, K. (2013) Revisiting the 74th Constitutional Amendment for Better Metropolitan Governance, Economic and Political Weekly, Vol. 31, No. 13, pp. 86–94.
- 3. Sivaramakrishnan, K.C. and Maiti, A. (2009) Metropolitan Governance in India: An Overview of Selected Cities, East West Center, Honolulu.

Web links and Video Lectures (e-Resources):

- <u>https://www.youtube.com/watch?v=rUioc1ykCiA&list=PLyqSpQzTE6M8GOltz64mg0bB78Sv</u> <u>n0P6b</u>
- <u>https://www.youtube.com/watch?v=LDgz6EmZw54&list=PLyqSpQzTE6M8GOltz64mg0bB78</u> <u>Svn0P6b&index=8</u>
- <u>https://www.youtube.com/watch?v=JEay3YNPZd4&list=PLyqSpQzTE6M8GOltz64mg0bB78S</u> vn0P6b&index=19
- https://ncert.nic.in/textbook.php?keps2=0-10

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

• PowerPoint presentations and group discussions based on the topics in the modules

	UNIVER	SAL HUMAN VALUES		
Course Code		21PLN48/21UH49	CIE Marks	50
Teaching Ho	urs/Week (L:T:S:P:SM:SS)	1:0:0:0:0:1	SEE Marks	50
Total Hours of	of Pedagogy	32	Total Marks	100
Credits		1	Exam Hours	1
 Course objectives: This introductory course input is intended: 1. To help the students appreciate the essential complementarity between 'VALUES' and 'SKILLS' to ensure sustained happiness and prosperity which are the core aspirations of all human beings. 2. To facilitate the development of a Holistic perspective among students towards life and profession as well as towards happiness and prosperity based on a correct understanding of the Human reality and the rest of existence. Such a holistic perspective forms the basis of Universal Human Values and movement towards value-based living in a natural way. 3. To highlight plausible implications of such a Holistic understanding in terms of ethical human conduct trustful and mutually fulfilling human behaviour and mutually enriching interaction with 				
Nature. This course is enquiring min	Nature. This course is intended to provide a much-needed orientational input in value education to the young enquiring minds.			the young
Pedagogy (GThese are sanoutcomes.1.The meth	eneral Instructions) nple Strategies, which teacher odology of this course is expl	can use to accelerate the attain	nment of the vario	us course ves a
 The methodology of this course is explorational and thus universally adaptable. It involves a systematic and rational study of the human being vis-à-vis the rest of existence. The course is in the form of 20 lectures (discussions) It is free from any dogma or value prescriptions. 				
4. It is a profound as own right existence	4. It is a process of self-investigation and self-exploration, and not of giving sermons. Whatever is found as truth or reality is stated as a proposal and the students are facilitated to verify it in their own right, based on their Natural Acceptance and subsequent Experiential Validation – the whole existence is the lab and every activity is a source of reflection.			
5. This proc to begin v selfevolu	5. This process of self-exploration takes the form of a dialogue between the teacher and the students to begin with, and then to continue within the student in every activity, leading to continuous selfevolution.			
6. This self- beliefs.	6. This self-exploration also enables them to critically evaluate their pre-conditionings and present beliefs.			
		Module-1		
Introduction to Value Education (4 hours)Right Understanding, Relationship and Physical Facility (Holistic Development and the Role of Education) Understanding Value Education, Self-exploration as the Process for Value Education, Continuous Happiness and Prosperity – the Basic Human Aspirations, Happiness and Prosperity – Current Scenario, Method to Fulfil the Basic Human Aspirations				
Pedagogy	Introduction to Value Educa experiences, Live Examples	ation- Chalk and talk method, I and videos	Discussion, Sharin	g of
		Module-2		

	Harmony ir	n the Human Being (4 hours)		
	Understanding Human being as the Co-existence of the Self and the Body, Distinguishing between			
	the Needs of the Self and the Body, The Body as an Instrument of the Self, Understanding			
	Harmony in the Self, Harmony of the Self with the Body, Programme to ensure self-regulation and			
	Health			
	Pedagogy Introduction to the concepts- Chalk and talk method, Discussion, Sharing of			
		experiences, Live Examples and videos		
		Module-3		
	Harmony in	the Family and Society (4 hours)		
	Harmony in	the Family – the Basic Unit of Human Interaction, 'Trust' – the Foundational Value in		
	Relationship,	'Respect' – as the Right Evaluation, Other Feelings, Justice in Human-to-Human		
	Relationship,	Understanding Harmony in the Society, Vision for the Universal Human Order		
	Pedagogy	Introduction to the concepts- Chalk and talk method, Discussion, Sharing of		
		experiences. Live Examples and videos		
		Module-4		
	Harmony in	the Nature/Existence (4 hours)		
	Understandin	g Harmony in the Nature. Interconnectedness, self-regulation and Mutual Fulfilment		
	among the F	our Orders of Nature, Realizing Existence as Co-existence at All Levels. The Holistic		
	Perception of	Harmony in Existence		
	Pedagogy	Introduction to the concepts- Chalk and talk method. Discussion. Sharing of		
	I caugogy	experiences. Live Examples and videos		
	+	Module-5		
	Implications	of the Helistic		
	Understandin	of the Honster $a_{\mu\nu}$ a Look at Professional Ethics (4 hours) Natural Accentance of Human Values		
	Definitivenes	g – a Look at Horssional Ennes (4 nours) Natural Acceptance of Humanistic		
	Constitution	and Universal Human Order, Competence in Professional Ethics Helistic Technologies		
	Draduction S	and Universal Human Order, Competence in Professional Ethics Honster Technologies,		
	Volue based	Using and Profession		
	value-based			
	Dedeger	Introduction to the concenter Challs and talls method Discussion Sharing of		
	Pedagogy	introduction to the concepts- Chaik and talk method, Discussion, Sharing of		
	<u> </u>	experiences, Live Examples and videos		
	Lourse outcom	the course students are expected to become more aware of themselves, and their		
L	by the end of urroundings (f	amily society natural; they would become more responsible in life, and in handling		
5	with	sustainable solutions, while keeping human relationships and human nature, in mind		
Ч г	They would have	va better oritical ability		
r r	They would hav	to become consistive to their commitment towards what they have understood (human		
1	They would also become sensitive to their commitment towards what they have understood (human			
v h	alues, numan i	heir own self in different day to day settings in real life, at least a beginning would be		
1	ave learne to the	action		
	Therefore the e	ection.		
1	i nerefore, the c	ourse and further follow up is expected to positively impact common graduate attributes		
11				
	1. Holis	the vision of life		
	2. Socially responsible behaviour			
	3. Envir	ronmentally responsible work		
	4. Ethic	al numan conduct		
1	5. Havir	ng Competence and Capabilities for Maintaining Health and Hygiene		

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6. Appreciation and aspiration for excellence (merit) and gratitude for all

Assessment Details (both CIE and SEE)

(methods of CIE need to be define topic wise i.e.- MCQ, Quizzes, Open book test, Seminar or micro project)

The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The student has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% marks of maximum marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together. Semester End Exam (SEE) is conducted for 100 marks and scaled down to 50 marks. Based on this grading will be awarded.

Continuous Internal Evaluation:

Three Unit Tests each of 20 Marks (duration 01 hour)

- 1. First test at the end of 5th week of the semester
- 2. Second test at the end of the 10th week of the semester
- 3. Third test at the end of the 15th week of the semester

Two assignments each of 10 Marks

4. First assignment at the end of 4th week of the semester

5. Second assignment at the end of 9th week of the semester

Group discussion/Seminar/quiz any one of three suitably planned to attain the COs and POs for 20 Marks (duration 01 hours)

6. At the end of the 13th week of the semester.

The sum of three tests, two assignments, and quiz/seminar/group discussion will be out of 100 marks and will be **scaled down to 50 marks**

(to have less stressed CIE, the portion of the syllabus should not be common /repeated for any of the methods of the CIE. Each method of CIE should have a different syllabus portion of the course).

CIE methods /question paper is designed to attain the different levels of Bloom's taxonomy as per the outcome defined for the course.

Semester End Examination:

Theory SEE will be conducted by University as per the scheduled timetable, with common question papers for the subject (**duration 01 hours**)

- 1. The question paper will have 50 questions. Each question is set for 01 marks.
- 2. The students have to answer all the questions, selecting one full question from each module.

Suggested Learning Resources: Books

-READINGS:

Text Book and Teachers Manual

a. The Textbook A Foundation Course in Human Values and Professional Ethics, R R Gaur, R Asthana, G P Bagaria, 2nd Revised Edition, Excel Books, New Delhi, 2019. ISBN 978-93-87034-47-1

b. The Teacher"s Manual Teachers" Manual for A Foundation Course in Human Values and Professional Ethics, R R Gaur, R Asthana, G

Reference Book:

- 1. JeevanVidya: EkParichaya, A Nagaraj, JeevanVidyaPrakashan, Amarkantak, 1999.
- 2. Human Values, A.N. Tripathi, New Age Intl. Publishers, New Delhi, 2004.
- 3. The Story of Stuff (Book).
- 4. The Story of My Experiments with Truth by Mohandas Karamchand Gandhi
- 5. Small is Beautiful E. F Schumacher.

6. Slow is Beautiful - Cecile Andrews

7. Economy of Permanence - J C Kumarappa

- 8. Bharat Mein Angreji Raj Pandit Sunderlal
- 9. Rediscovering India by Dharampal
- 10. Hind Swaraj or Indian Home Rule by Mohandas K. Gandhi
- 11. India Wins Freedom Maulana Abdul Kalam Azad
- 12. Vivekananda Romain Rolland (English)
- 13. Gandhi Romain Rolland (English)
- 14. Sussan George, 1976, How the Other Half Dies, Penguin Press. Reprinted 1986, 1991

15. Donella H. Meadows, Dennis L. Meadows, Jorgen Randers, William W. Behrens III, 1972, Limits to Growth – Club of Rome's report, Universe Books.

- 16. A Nagraj, 1998, Jeevan Vidya Ek Parichay, Divya Path Sansthan, Amarkantak.
- 17. P L Dhar, RR Gaur, 1990, Science and Humanism, Commonwealth Publishers.
- 18. A N Tripathy, 2003, Human Values, New Age International Publishers.

19. SubhasPalekar, 2000, How to practice Natural Farming, Pracheen (Vaidik) KrishiTantraShodh, Amravati.

20. E G Seebauer & Robert L. Berry, 2000, Fundamentals of Ethics for Scientists & Engineers, Oxford University Press

21. M Govindrajran, S Natrajan & V.S. Senthil Kumar, Engineering Ethics (including Human Values), Eastern Economy Edition, Prentice Hall of India Ltd.

22. B P Banerjee, 2005, Foundations of Ethics and Management, Excel Books.

23. B L Bajpai, 2004, Indian Ethos and Modern Management, New Royal Book Co., Lucknow. Reprinted 2008.

Web links and Video Lectures (e-Resources):

1. Value Education websites, https://www.uhv.org.in/uhv-ii, http://uhv.ac.in, http://www.uptu.ac.in

2. Story of Stuff, <u>http://www.storyofstuff.com</u>

- 3. Al Gore, An Inconvenient Truth, Paramount Classics, USA
- 4. Charlie Chaplin, Modern Times, United Artists, USA
- 5. IIT Delhi, Modern Technology the Untold Story
- 6. Gandhi A., Right Here Right Now, Cyclewala Productions
- 7. https://www.youtube.com/channel/UCQxWr5QB_eZUnwxSwxXEkQw
- 8. https://fdp-si.aicte-india.org/8dayUHV_download.php
- 9. https://www.youtube.com/watch?v=8ovkLRYXIjE
- 10. https://www.youtube.com/watch?v=OgdNx0X923I
- 11. https://www.youtube.com/watch?v=nGRcbRpvGoU
- 12. https://www.youtube.com/watch?v=sDxGXOgYEKM

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

13.09.2022

SEMESTER V

PLANNING STUDIO: SUB-CITY PLAN			
Course Code	21PLN51	CIE Marks	50
Teaching Hours/Week (L:T:S:P:SM:SS)	0:0:0:10:0:	SEE Marks	50
Total Hours of Pedagogy	160	Total Marks	100
Credits	5	Exam Hours	-

Course objectives:

• Purpose of this studio is to understand the relationship between different hierarchies of plans and to know the level of detailing required at zone or local level.

Pedagogy (General Instructions)

These are sample Strategies, which teachers can use to accelerate the attainment of the various course outcomes.

- The student is required to visit site and organizations for the collection of data
- The student is asked to do multiple surveys for Transportation and Socio economic study for understanding the Issues and concerns in order to come up with a proposed sub-city plan
- Report Presentations and Sheets on final Analysis is to be submitted at the end of the studio.

Course Contents

This studio provides a link between site level and city level plans. This level details out land allocations and planning proposals given in statutory plans at the city level. It should help students to see interrelations amongst different sectors at the city level and how these need to be translated through detailed plans so as to achieve city level statutory plan objectives.

In this studio, students also develop familiarity with the legal frameworks for planning, concepts of master plan, comprehensive development plan, structure plan, sector plan, zonal plan, and their plan making processes. We adopt the approach to develop lower hierarchy plans such as zonal plan, ward plan and town planning scheme within the framework of a given master plan and relevant town planning or development acts.

The study and development of relevant planning standards for different land uses is also carried out. Detailing of specific sites in proposed zonal plans covering different land uses and finally preparation of detailed project reports would complete the studio exercise.

Pedagogy : Site Visit to government and non-governmental organizations ,Group discussions, Presentations

Course outcome (Course Skill Set)

At the end of the course the student will be able to :

- 1. To show knowledge about the hierarchy of development plans and their purposes.
- 2. To show knowledge about reading and interpreting master development plan documents.

3. To generate information across sectors and levels in order to develop proposals in the form of a local area plan.

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Assessment Details (both CIE and SEE)

(methods of CIE need to be define topic wise i.e.- MCQ, Quizzes, Open book test, Seminar or micro project) The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The student has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% marks of maximum marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together. Semester End Exam (SEE) is conducted for 100 marks and scaled down to 50 marks. Based on this grading will be awarded.

Continuous Internal Evaluation:

• Continuous Internal Evaluation (CIE): The CIE marks awarded in case of Studio shall be based on the weekly evaluation of progress of the studio works after the conduction of every Presentation

Semester End Examination:

• Planning Studio SEE will be conducted by the University as per scheduled time table, in a batch wise with external examiner and Internal Examiner reviewing the works of the students.

Suggested Learning Resources: Books

1. Berke, P. and Goodschalk, D.A. (2006) Urban Land Use Planning, University of Illinois Press, Champaign, Illinois.

2. Talen, E. (2012) City Rules: How regulations affect urban form, Island Press, Washington.

3. Sanyal, B., and Deuskar, C. (2012) 'A Better Way to Grow? Town Planning Schemes as a Hybrid Land Readjustment Process in Ahmedabad, India', in G.K. Ingram and Y.H. Hong (eds.) *Value Capture and Land Policies*, pp. 149–82, Lincoln Institute of Land Policy, Cambridge, MA.

Web links and Video Lectures (e-Resources):

- ndmc.gov.in/departments/Departments/Project/Report%20NDMC.pdf
- <u>http://mohua.gov.in/upload/uploadfiles/files/URDPFI%20Guidelines%20Vol%20I(2).pdf</u>
- <u>https://swayam.gov.in/nc_details/NPTEL</u>

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

- Site visits/ government and non-governmental organisations for data collection
- Undergoing Primary survey in different sectors for transportation, housing and other sectors.

	HOUSING		
Course Code	21PLN52	CIE Marks	50
Teaching Hours/Week (L:T:S:P:SM:SS)	2:0:0:0:0:0	SEE Marks	50
Total Hours of Pedagogy	48	Total Marks	100
Credits	2	Exam Hours	3

Course objectives:

• This is an introductory course to housing. The objectives of the course are to provide students with an understanding of the nature of housing problems and how housing needs are assessed and how government policies and development regulations affect housing outcomes particularly for the poor.

Pedagogy (General Instructions)

These are sample Strategies, which teachers can use to accelerate the attainment of the various course outcomes.

• Lecturer method (L) does not mean only traditional lecture method, but different type of teaching methods may be adopted to develop the outcomes

• Discuss how every concept can be applied to the real world - and when that's possible, it helps improve the students' understanding

• Topics will be introduced in a multiple representation

Module-1

Introduction

Housing: definition, housing as a verb and noun; Housing in relation to planning; Concepts of housing stock, need, demand, shortage; An overview of housing situation; Urban and rural housing scenario in India; Housing as a component of social and economic development; Key challenges of housing provision including housing for the poor, emergence of slums, unauthorised colonies, gentrification, displacement.

Pedagogy	Chalk and talk method, PowerPoint Presentation		
	Module-2		
Housing deve	lopment process		
Understanding	g of factors affecting residential location, theoretical knowledge of ecological, neoclassical,		
Institutional a	pproach to housing. Housing subsystems and their characteristics. Formal and non-formal		
housing Deve	lopment options and housing, costs, standards. Process of public and private sector housing		
development p	process. Housing Market and Real Estate Development.		
Pedagogy	Chalk and talk method, PowerPoint Presentation		
Module-3			
Housing Proj	ect Formulation		
Understanding	Understanding the community; Determinants of housing form including physical, social, economic, technical		
and aesthetic; Development options and housing; Housing costs, standards, densities and FAR; Housing			
projects and city level housing provisions.			
Pedagogy	Chalk and talk method, PowerPoint Presentation .And settlement study in terms of housing		
	status		

	Module-4	
City Level Ho	using Studies	
Components of	f housing, housing subsystems; Administrative, legal and financial frameworks for housing	
development;	Processes of housing development; Analysis of housing stress; Concepts of affordability and	
target identification	ation	
Pedagogy	Chalk and talk method, Power Point Presentation	
	Module-5	
Policy and Le	gislative Framework	
Evolution of h	busing policy in India; Components of housing policy at national and state level; Approaches to	
housing provis	ion for the poor, special groups and other vulnerable groups.	
Pedagogy	Chalk and talk method, Power Point Presentation	
Course outcor	ne (Course Skill Set)	
At the end of th To ana To sho To der	ne course the student will be able to : lyze the existing housing situation in a city. w familiarity with national housing policies and other related housing provisions. nonstrate understanding about the relationships between housing markets, housing standards and	
income	28.	
• To dev	elop knowledge about housing needs for the poor in India.	
• To dev	elop Knowledge about housing programmes and projects for the poor and their outcomes.	
Assessment D	etails (both CIE and SEE)	
(methods of Cl The weightage student has to maximum mar	E need to be define topic wise i.e MCQ, Quizzes, Open book test, Seminar or micro project) of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% marks of ks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE	
(Continuous Internal Evaluation) and SEE (Semester End Examination) taken together. Theory Semester End		
Exam (SEE) is conducted for 100 marks (3 hours' duration) and scaled down to 50 marks. Based on this		
grading will be	awarded.	
Continuous Ir	iternal Evaluation:	
1. Metho	ds suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc.	
2. The cl	ass teacher has to decide the topic for closed book test, open book test, Written Ouiz and	
Semin	ar. In the beginning only the teacher has to announce the methods of CIE for the subject.	

Semester End Examination:

Theory SEE will be conducted by University as per scheduled time table, with common question papers for subject. Duration of SEE is 03 hours

- 1. The question paper will have ten questions. Each question is set for 20 marks. Marks scored shall be proportionally reduced to 50 marks
- 2. There will be 2 questions from each module. Each of the two questions under a module (with a maximum of 3 sub questions), should have a mix of topics under that module.
- The students have to answer 5 full questions, selecting one full question from each module. 3.

Suggested Learning Resources: Books

- 1. Hardoy, J.E. and Satterthwaite, D. (1989) Squatter Citizen: Life in the Urban Third World, Routledge, London.
- 2. Verma, G.D. (2001) Slumming India, Penguin, New Delhi.
- 3. Cedric, P. (1990) Housing and Urbanisation: A Study of India, Sage, New Delhi.

- 4. Kohli, V.K. (2007) Housing Finance Agencies in India, Deep and Deep, New Delhi.
- 5. Jenkins, P., Smith, H. and Wang, Y.P. (2007) Planning and Housing in the Rapidly Urbanizing World, Routledge, New York.
- 6. 6. Mukhija, V. (2003) Squatters as Developers, Slum Redevelopment in Mumbai, Ashgate, New York.
- Web links and Video Lectures (e-Resources):
- <u>https://nptel.ac.in/courses/124/107/124107001/</u>;
- <u>https://onlinelibrary.wiley.com/doi/pdf/10.1111/j.1538-4632.1987.tb00126.x</u>

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

- Site visit to the neighbourhood /settlement understanding the various patterns of households, condition of the building and calculating the demand and supply.
- Analysis on existing government schemes on housing.

PROJECT FORMULATION APPRAISAL AND MANAGEMENT			
Course Code	21PLN53	CIE Marks	50
Teaching Hours/Week (L:T:S:P:SM:SS)	2:0:0:0:0:0	SEE Marks	50
Total Hours of Pedagogy	32	Total Marks	100
Credits	2	Exam Hours	3

Course objectives:

- To expose students to techniques of project formulation, appraisal and management.
- To provide inputs to students for learning project evaluation, monitoring and implementation.

Pedagogy (General Instructions)

These are sample Strategies, which teachers can use to accelerate the attainment of the various course outcomes.

- Lecturer method (L) does not mean only traditional lecture method, but different types of teaching methods may be adopted to develop the outcomes.
- Arrange visits to nearby power plants, receiving stations and substations to give brief information about the electrical power generation.
- Show Video/animation films to explain functioning of various machines
- Encourage collaborative (Group Learning) Learning in the class
- Ask at least three HOT (Higher order Thinking) questions in the class, which promotes critical thinking
- Adapt Problem Based Learning (PBL), which fosters students Analytical skills, develop thinking skills such as the ability to evaluate, generalize, and analyze information rather than simply recall it.
- Topics will be introduced in a multiple representation.
- Show the different ways to solve the same problem and encourage the students to come up with their own creative ways to solve them.
- Discuss how every concept can be applied to the real world and when that's possible, it helps improve the students' understanding.
- Individual teachers can devise innovative pedagogy to improve teaching-learning.

Module-1

Introduction to Project Formulation, Appraisal and Management

The concept of projects, Importance of project formulation, appraisal and management; reasons for shortfall in its performance; scientific management, lifecycle of project; detailed project report, and feasibility studies; techniques of financial appraisal, payback period, IRR, DCF, NPV, CBR.

Pedagogy	Chalk and talk method, PowerPoint Presentation, PDF notes, problem solving
	Module-2

Project Formulation

Definition, objectives; Stages of project formulation and their significance; Methodology for project identification and formulation; Feasibility studies, input analysis, financial cost-benefit analysis, social-cost benefit analysis; Project appraisal and report.

Pedagogy Chalk and talk method, Power Point Presentation, PDF notes, problem solving

	Module-3	
Project Appr	aisals	
Project form	lation: definition, objectives; Need for project appraisal; Project formulation: definition,	
objectives; Sta	ages of project form Network analysis; CPM, PERT, resource levelling and allocation, time-cost	
trade off asp	ects; Bar charts, Milestones, Standard oriented cost control techniques; Techno-economic	
analysis of pro	ojects.	
Pedagogy	Chalk and talk method, PowerPoint Presentation, PDF notes, problem solving	
	Module-4	
Project Impl	ementation, Monitoring and Evaluation	
Project implei	nentation, stages of implementation, Teamwork, actors in project implementation; Project	
monitoring: m	eaning objectives and significance; Monitoring techniques: integrated reporting, Milestones, time	
and cost overr	un and underrun, unit index techniques;	
Pedagogy	Chalk and talk method, PowerPoint Presentation, PDF notes, case studies on projects	
	Module-5	
Project evalu	ation	
Project evalua	ation: meaning, objectives, scope, stages, approach and steps, Life of a project; Techniques of	
project evalua	tion: input analysis, financial cost-benefit analysis, social-cost benefit analysis; case studies in	
urban and regi	ional development projects.	
Pedagogy	Chalk and talk method, PowerPoint Presentation, PDF notes, case studies on projects	
Course outco	me (Course Skill Set)	
At the end of	the course the student will be able to :	
• To she	ow knowledge about evaluating and monitoring of implementation of development projects.	
• To de	monstrate skills for the preparation of detailed reports of development projects	
Assessment D	Details (both CIE and SEE)	
(methods of C	IE need to be define topic wise i.e MCQ, Quizzes, Open book test, Seminar or micro project)	
The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The		
student has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% marks of		
maximum marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE		
(Continuous I	nternal Evaluation) and SEE (Semester End Examination) taken together. Theory Semester End	
Exam (SEE)	is conducted for 100 marks (3 hours' duration) and scaled down to 50 marks. Based on this	
grading will be awarded.		
Continuous I	nternal Evaluation:	
1. M	lethods suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc.	

2. The class teacher has to decide the topic for closed book test, open book test, Written Quiz and Seminar.

In the beginning only the teacher has to announce the methods of CIE for the subject.

Semester End Examination:

Theory SEE will be conducted by University as per scheduled time table, with common question papers for subject. Duration of SEE is 03 hours

- 1. The question paper will have ten questions. Each question is set for 20 marks. Marks scored shall be proportionally reduced to 50 marks
- 2. There will be 2 questions from each module. Each of the two questions under a module (with a maximum of 3 sub questions), should have a mix of topics under that module.

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3. The students have to answer 5 full questions, selecting one full question from each module

Suggested Learning Resources: Books

1. Agrawal, R. and Mehra, Y.S. (2017) Project Appraisal and Management, Taxmann Publisher, New Delhi.

2. Mattoo, P.K., (1978) Project Formulation in Developing Countries, South Asia Books, New Delhi

3. Johansson, P. and Kriström, B. (2016) Cost-Benefit Analysis for Project Appraisal, Cambridge University Press, Cambridge.

4. Gudda, P. (2011) A Guide to Project Monitoring and Evaluation, Author House, Bloomington, Indiana.

Web links and Video Lectures (e-Resources):

- <u>https://swayam.gov.in/nc_details/NPTEL</u>
- <u>https://www.ihmnotes.in/assets/Docs/Ignou/TS-03/Unit</u> 21%20Project%20Formulation%20&%20Appraisal.pdf
- http://epgp.inflibnet.ac.in/epgpdata/uploads/epgp_content/S000438BE/P000735/M014401/ET/1456896
 778BSE_P16_M5Etext.pdf
- https://www.pmi.org/business-solutions/case-studies
- https://www.pmi.org/business-solutions/case-studies/astrazeneca-case-study
- <u>https://www.pmi.org/business-solutions/case-studies/airbus-case-study</u>
- https://www.youtube.com/watch?v=OzsJ1J0MYaw
- https://www.youtube.com/watch?v=-PpAyWW5tZE
- https://www.youtube.com/watch?v=ZWmXi3TW1yA
- <u>https://www.youtube.com/watch?v=bt4LL_rKwFM</u>

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

- Students can formulate and work on a real project to apply the theory in practice. It enables them to do Project formulation and appraisal.
- Problem solving on module 1,2&3 and analysis of the different stages of project management

SPATIAL DATA INFRASTRUCTURE FOR PLANNING – II			
Course Code	21PLN54	CIE Marks	50
Teaching Hours/Week (L:T:S:P:SM:SS)	1:0:0:2:0:0	SEE Marks	50
Total Hours of Pedagogy	48	Total Marks	100
Credits	2	Exam Hours	3

Course objectives:

To provide technical inputs for the use of GIS in planning and perform planning analyses using • Geographic Information Systems as a tool.

Pedagogy (General Instructions)

These are sample Strategies, which teachers can use to accelerate the attainment of the various course outcomes.

- Lecturer method (L) does not mean only traditional lecture method, but different types of teaching • methods may be adopted to develop the outcomes.
- Arrange visits to nearby power plants, receiving stations and substations to give brief information about the electrical power generation.
- Show Video/animation films to explain functioning of various machines
- Encourage collaborative (Group Learning) Learning in the class
- Ask at least three HOTS (Higher order Thinking) questions in the class, which promotes critical • thinking
- Adopt Problem Based Learning (PBL), which fosters students Analytical skills, develop thinking skills • such as the ability to evaluate, generalize, and analyze information rather than simply recall it.
- Topics will be introduced in a multiple representation.
- Show the different ways to solve the same problem and encourage the students to come up with their own creative ways to solve them.
- Discuss how every concept can be applied to the real world and when that's possible, it helps improve the students' understanding.
- Individual teachers can devise innovative pedagogy to improve teaching-learning.

Module-1

Introduction to Geographic Information Systems (GIS) Introduction to Geoinformatics, concepts and definitions of GIS; Components and functions of GIS;

Understanding maps and layers; Understanding vector and raster datasets, map elements; Data types and requirements, sources of data and data handling techniques; Significance of GIS and its key application areas; Current developments and practices.

Chalk and talk method, PowerPoint Presentation Pedagogy

Module-2

Introduction to GIS Software

Introduction to GIS software, exploring Graphical User Interface (GUI); Supporting files and formats; Identifying toolbar and available tools and techniques for performing spatial analysis; Introduction to georeferencing, relevance of adding spatial information to scanned images, toposheets and satellite images; Understanding spatial and attribute data types; Creating a project in GIS software, creating or adding layers; Digitization methods, organization of layers, importing and exporting data.

Chalk and talk method, PowerPoint Presentation, Group Learning Pedagogy

	Module-3	
Data Analysi	s Techniques	
Understating	data analysis tools and techniques; Learning tools and techniques available in the GIS software	
for spatial an	d attribute data analysis; Exercises on adding database in attribute table; Adding information	
from other so	ources; Creating charts and graphs; Statistics summary, calculating geometry, query builder,	
buffering or	proximity analysis, and overlay analysis; Using relevant extensions for spatial analysis, 3D	
analysis, etc.		
Pedagogy	Chalk and talk method, PowerPoint Presentation	
	Module-4	
Displaying D	ata	
Understating	map elements, adding and changing symbology; Labelling and annotations; Creating map layouts;	
Inserting map	scale, legend, title, north symbol; Creating grids and saving layouts; Printing and exporting maps	
as images.		
Pedagogy	Chalk and talk method, PowerPoint Presentation	
	Module-5	
Spatial Analy	vtical Tools	
Land Matrix,	Land Utilization, Conducting a Land Suitability Analysis using GIS, Introduction to new	
concepts like	cloud computing, crowd sourcing etc.	
Pedagogy	Chalk and talk method, PowerPoint Presentation	
Course outco	ome (Course Skill Set)	
At the end of	the course the student will be able to .	
At the chd of	the course the student will be able to .	
• To de	emonstrate knowledge and skills to prepare maps in GIS platform, and to show the ability to	
perfo	rm planning analyses on GIS platform.	
• To de	velop skills to be used in a planning decision support system.	
Assessment I	Details (both CIE and SEE)	
(methods of C	CIE need to be define topic wise i.e MCQ, Quizzes, Open book test, Seminar or micro project)	
The weightag	e of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The	
student has to	o obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% marks of	
maximum marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE		
(Continuous Internal Evaluation) and SEE (Semester End Examination) taken together. Theory Semester End		
Exam (SEE)	is conducted for 100 marks (3 hours' duration) and scaled down to 50 marks. Based on this	
grading will b	e awarded.	
Continuous I	internal Evaluation:	
1. Meth	ods suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc.	
2. The o	class teacher has to decide the topic for closed book test, open book test, Written Ouiz and	
Semi	nar.	

3. In the beginning only the teacher has to announce the methods of CIE for the subject.

Semester End Examination:

Theory SEE will be conducted by University as per scheduled time table, with common question papers for subject. Duration of SEE is 03 hours

- 1. The question paper will have ten questions. Each question is set for 20 marks. Marks scored shall be proportionally reduced to 50 marks
- 2. There will be 2 questions from each module. Each of the two questions under a module (with a

- maximum of 3 sub questions), should have a mix of topics under that module.
- 3. The students have to answer 5 full questions, selecting one full question from each module

Suggested Learning Resources: Books

1. Chang K.T. (2017) Introduction to Geographic Information Systems, McGraw Hill Education, New York. 2. Singleton, A.D., Spielman, S. and Folch, D. (2018) Urban Analytics (Spatial Analytics and GIS), Sage, Thousand Oaks, California.

3. Okabe, A. (ed.) (2005) GIS-based Studies in the Humanities and Social Sciences, CRC Press, London.

Web links and Video Lectures (e-Resources):

- <u>https://www.coursera.org/specializations/gis-mapping-spatial-analysis.</u>
- <u>https://www.sciencedirect.com/science/article/pii/S0143622814001611</u>
- <u>https://www.esri.com/en-us/search/?q=land%20matrix</u>
- <u>https://www.esri.com/en-us/search/?q=graphical%20user%20interface</u>

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

• Students work on ArcGIS Software and execute all the tools taught in the theory to gain hands-on experience.

PROFESSIONAL ELECTIVE -II 1. SPATIAL JUSTICE				
Course Code	21PLN55 .1	CIE Marks	50	
Teaching Hours/Week (L:T:S:P:SM:SS)	3:0:0:0:0:0	SEE Marks	50	
Total Hours of Pedagogy	48	Total Marks	100	
Credits	3	Exam Hours	3	

Course objectives:

• Planning being a progressive profession, justice, fairness and equity has always remained its major concern. In this vein of thinking, the subject of spatial justice locates itself at the heart of planning as justice always has spatial manifestations. The chief objective of this subject is to teach students about the idea of spatial justice, which involves spatial thinking rather than land use thinking alone.

Pedagogy (General Instructions)

These are sample Strategies, which teachers can use to accelerate the attainment of the various course outcomes.

- Lecturer method (L) does not mean only traditional lecture method, but different types of teaching methods may be adopted to develop the outcomes.
- Arrange visits to nearby power plants, receiving stations and substations to give brief information about the electrical power generation.
- Show Video/animation films to explain functioning of various machines
- Encourage collaborative (Group Learning) Learning in the class
- Ask at least three HOTS (Higher order Thinking) questions in the class, which promotes critical thinking
- Adapt Problem Based Learning (PBL), which fosters students Analytical skills, develop thinking skills such as the ability to evaluate, generalize, and analyze information rather than simply recall it.
- Topics will be introduced in a multiple representation.
- Show the different ways to solve the same problem and encourage the students to come up with their own creative ways to solve them.
- Discuss how every concept can be applied to the real world and when that's possible, it helps improve the students' understanding.
- Individual teachers can devise innovative pedagogy to improve the teaching-learning

	Module-1		
Coming to ter	rms with Justice		
What is justice	e? What is territorial justice? What is spatial justice? John Rawls' and Amartya Sen's ideas of		
justice and their relevance to planning; What is a just city?			
Pedagogy	Chalk and talk method, PowerPoint Presentation, Group Learning		
Module-2			
Planning Rights and the City			
Defining planning rights; Forms of planning rights; Sources of planning rights; Utility of planning rights; The			
Right to the City: Expositions by David Harvey, Peter Marcuse, and Henri Lefebvre; A study of the Urban			
Revolution; The Right to the city and centrality.			
Pedagogy	Chalk and talk method, PowerPoint Presentation, Group Learning		

Module-3

Spatializing Planning

How space and place are understood in planning? Production of space according to Henri Lefebvre; Types of space: absolute, relative and relational space; Third space of Edward Soja; Power geometry as philosophy of space by Doreen Massey; Relationship between space and time.

Pedagogy

gy Chalk and talk method, PowerPoint Presentation, Group Learning

Spatial Justice

Understanding spatial justice; Forms of spatial justice; How spatial justice manifests itself in the city; Dialectics of spatial justice; Planning in divided cities; Urbanization of injustice; Segregation in the city; The creation of the urban commons; The right to land, shelter and infrastructure.

Module-4

Pedagogy

Module-5

Governance Arrangements

Politics and governance arrangements that enable and constrain effective urban planning action, governance structures (centralized versus decentralized states, local versus regional versus national authorities, participatory budgeting, etc.) and political conditions (democracy versus authoritarianism, neoliberal versus corporatist versus leftist party politics, social movements), implications of governance arrangements in different political contexts to achieve social justice and equity.

Pedagogy Chalk and talk method, PowerPoint Presentation, Group Learning

Chalk and talk method, PowerPoint Presentation, Group Learning

Course outcome (Course Skill Set)

At the end of the course the student will be able to :

- To demonstrate the limitations of thinking in causative ways.
- To show knowledge and understanding of analysing planning policies and projects in a dialectical way, unearthing complex and multiple links.

Assessment Details (both CIE and SEE)

(methods of CIE need to be define topic wise i.e.- MCQ, Quizzes, Open book test, Seminar or micro project) The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The student has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% marks of maximum marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together. Theory Semester End Exam (SEE) is conducted for 100 marks (3 hours' duration) and scaled down to 50 marks. Based on this grading will be awarded. **Continuous Internal Evaluation:**

- 1. Methods suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc.
- 2. The class teacher has to decide the topic for closed book test, open book test, Written Quiz and Seminar.
- 3. In the beginning only the teacher has to announce the methods of CIE for the subject.

Semester End Examination:

Theory SEE will be conducted by University as per scheduled time table, with common question papers for subject

- 1. The question paper will have ten questions. Each question is set for 20 marks. Marks scored shall be proportionally reduced to 50 marks
- 2. There will be 2 questions from each module. Each of the two questions under a module (with a maximum of 3 sub questions), should have a mix of topics under that module.

3. The students have to answer 5 full questions, selecting one full question from each module

Suggested Learning Resources:

Books

- 1. Dikeç, M. (2001) Justice and Spatial Imagination, Environment and Planning A: Economy and Space, https://doi.org/10.1068/a3467
- 2. Dikeç, M. (2007) Badlands of the Republic: Space, Politics and Urban Policy, Blackwell Publishing, Oxford.
- 3. Fainstein, S.S. (2010) The Just City, Cornell University Press, Ithaca.
- 4. Featherstone, D. and Painter, J. (2013) Spatial Politics, Wiley-Blackwell, Oxford.
- 5. Harvey, D. (1996) Justice, Nature and the Geography of Difference, Blackwell Publishing, Oxford.
- 6. Harvey, D. (2008) The Right to the City, New Left Review, Vol. 53, pp. 23-40.
- 7. Marcuse, P., Connolly, J., Novy, J., Olivo, I., Potter, C. and Steil, J. (2009) Searching for the Just City: Debates in urban theory and practice, Routledge, New York.
- 8. . Soja, E. (2010) Seeking Spatial Justice, University of Minnesota University Press, Minneapolis.
- 9. Zerah, M.H., Dupont, V., and Lama-Rewal, S.T. (eds.) (2011) Urban policies and the right to the city in India: rights, responsibilities and citizenship, UNESCO, New Delhi.

Web links and Video Lectures (e-Resources):

- <u>https://www.researchgate.net/publication/337030601_A_Rawls-Sen_Approach_to_Spatial_Injustice</u>
- https://core.ac.uk/download/pdf/268004254.pdf
- <u>https://swayam.gov.in/nc_details/NPTEL</u>
- <u>https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7153342/</u>
- <u>https://newleftreview.org/issues/i196/articles/doreen-massey-politics-and-space-time</u>

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

• Students can do a presentation and effectively criticize the policies and programmes initiated by the Government of India.

PROFESSIONAL ELECTIVE-II				
2. PARTICIPATORY INTEGRATED URBAN DEVELOPMENT				
Course Code	21PLN 55.2	CIE Marks	50	
Teaching Hours/Week (L:T:S:P:SM:SS)	3:0:0:0:0:0	SEE Marks	50	
Total Hours of Pedagogy	48	Total Marks	100	
Credits	3	Exam Hours	3	

Course objectives:

• The course intends to sensitize the students to the importance of participatory processes and integrated institutional arrangements for more effective, efficient and sustainable implementation.

Pedagogy (General Instructions)

These are sample Strategies, which teachers can use to accelerate the attainment of the various course outcomes.

- Lecturer method (L) does not mean only traditional lecture method, but different types of teaching methods may be adopted to develop the outcomes.
- Arrange visits to nearby power plants, receiving stations and substations to give brief information about the electrical power generation.
- Show Video/animation films to explain functioning of various machines
- Encourage collaborative (Group Learning) Learning in the class
- Ask at least three HOTS (Higher order Thinking) questions in the class, which promotes critical thinking
- Adapt Problem Based Learning (PBL), which fosters students Analytical skills, develop thinking skills such as the ability to evaluate, generalize, and analyze information rather than simply recall it.
- Topics will be introduced in a multiple representation.
- Show the different ways to solve the same problem and encourage the students to come up with their own creative ways to solve them.
- Discuss how every concept can be applied to the real world and when that's possible, it helps improve the students' understanding.
- Individual teachers can devise innovative pedagogy to improve the teaching-learning

Module-1

Understanding Public participation

Understanding participation, conditions for effective participation; idea of power and representation in participatory process, Arenas of participation; Brief introduction to theories on citizen and community participation such as Arnstein's ladder of citizen participation.

Pedagogy Chalk and talk method, PowerPoint Presentation		
Module-2		

Public Parti	cipation in India		
Channels of	public participation in plan making, plan implementation and governance in India; Legislative		
provisions: mandated and claimed spaces of participation: Requirements for planning a participatory process:			
evolution of	evolution of community participation in development projects: Pani Panchayats		
Pedagogy	. Chalk and talk method, PowerPoint Presentation		
	Module-3		
Horizontal a	and vertical integration		
Coordination	in planning, understanding various kinds of public agencies involved in urban development and		
coordination	for the purpose of planning projects and management in urban areas and regions; Current		
practices of a	cross-sectoral development, and case studies.		
1			
Pedagogy	Chalk and talk method, PowerPoint Presentation		
	Module-4		
Participator	y and integrated urban development – Case Studies		
Based on the	conceptual understanding developed in the first two parts of the course, this section will develop		
an understan	ding of the idea of Participatory and Integrated Urban Development through case studies of Multi-		
stakeholder p	projects.		
Pedagogy	Chalk and talk method, PowerPoint Presentation		
- • • • • • • • • • • • • • • • • • • •	Modulo 5		
DDD IN LIDI	Noune-5		
DDD in Urba	n Development Salient features of urban services: indispensability: risk profile constraints and		
nnoondition	a Overview of best prestings in urban development. Veriews forms of DDD monogement contrast		
precondition	s; Overview of best practices in urban development. Various forms of PPP- management contract,		
service contr	act, lease, divestiture and concessions; Strengths and weaknesses of each form. Promoting PPP:		
Advantages	of collaboration; Methods of promoting effective participation. PPP – Principles and Guidelines		
Cardinal pri	nciples in PPP; Regulations and guidelines; Development of project proposal; Due diligence		
process; Cor	npetitive bidding process and documentation (EOI, RFQ, PIM, DCA, RFP); Regulatory authority;		
Transaction	Adviser; Survey of PPP policies. Financing PPP projects Bankability of PPP project; Equity		
investment; l	Refinancing; Sources of PPP funding.		
Pedagogy	Chalk and talk method, PowerPoint Presentation		
Course outc	ome (Course Skill Set)		
At the end of	the course the student will be able to :		
• Upo	n the completion of this course, the students would be able:		
• Tod	emonstrate an understanding of the necessity of participatory and integrated urban development.		
• To d	emonstrate knowledge about the current mandates and practices of public participation in		
plan	ning.		
• To show the significance of horizontal and vertical integration of organizations, territories and plans.			
• To in	nplement participatory and integrated development processes.		
Assessment	Details (both CIE and SEE)		
(methods of	CIE need to be define topic wise i.e MCQ, Quizzes, Open book test, Seminar or micro project)		
The weightag	ge of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The		
student has	to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% marks of		
maximum m	maximum marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE.		
(Continuous Internal Evaluation) and SEE (Semester End Examination) taken together. Theory Semester End			
Exam (SEE)	is conducted for 100 marks (3 hours' duration) and scaled down to 50 marks. Based on this		
(~22)			

grading will be awarded. Continuous Internal Evaluation:

- 1. Methods suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc.
- 2. The class teacher has to decide the topic for closed book test, open book test, Written Quiz and Seminar. In the beginning only the teacher has to announce the methods of CIE for the subject.

Semester End Examination:

Theory SEE will be conducted by University as per scheduled time table, with common question papers for subject

- **1.** The question paper will have ten questions. Each question is set for 20 marks. Marks scored shall be proportionally reduced to 50 marks
- 2. There will be 2 questions from each module. Each of the two questions under a module (with a maximum of 3 sub questions), should have a mix of topics under that module.
- 3. The students have to answer 5 full questions, selecting one full question from each module

Suggested Learning Resources:

Books

- 1. Cornwall, A. (ed.) (2011) The Participatory Reader, Zed Books, London.
- **2.** Kochi Municipal Corporation and GIZ (2019) Multi-stakeholder Ente Kochi Initiative, Kochi Municipal Corporation and GIZ India, Kochi.
- **3.** Kumar, A. and Prakash, P. (eds.) Public Participation in Planning in India, Cambridge Scholars Publishing, Newcastle.
- **4.** Pune Smart City Development Corporation Ltd. (2016) Smart City Development Plan, Pune Smart City Development Corporation Ltd., Pune.
- **5.** UN Habitat (2018) Leading Change: Delivering the New Urban Agenda through Urban and Territorial Planning, UN Habitat, Nairobi.

Web links and Video Lectures (e-Resources):

- <u>https://swayam.gov.in/nc_details/NPTEL</u>
- <u>https://www.eukn.eu/policy-labs/policy-lab-for-cy-public-participation-in-the-development-process/general-introduction/what-is-public-participation/</u>
- https://www.cambridgescholars.com/resources/pdfs/978-1-4438-9707-5-sample.pdf
- <u>http://www.fao.org/3/ad346e/ad346e06.htm#:~:text=Participatory%20planning%20is%20a%20process</u>, <u>needed%2C%20but%20only%20as%20facilitators</u>.

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

• A project which was initiated through PPP model can be given to students to demonstrate the process and complete challenges and limitations of the project

PROFESSIONAL ELECTIVE II- 3. SETTLEMENT SOCIOLOGY				
Course Code	21PLN55.3	CIE Marks	50	
Teaching Hours/Week (L:T:S:P:SM:SS)	3:0:0:0:0:0	SEE Marks	50	
Total Hours of Pedagogy	48	Total Marks	100	
Credits	3	Exam Hours	3	

Course objectives:

• To introduce students to the concept and principles of sociology including information about the foundations of Social thought, Society, Culture, Social Change, Social Exclusion and related Planning aspects.

Pedagogy (General Instructions)

These are sample Strategies, which teachers can use to accelerate the attainment of the various course outcomes.

- Lecturer method (L) does not mean only traditional lecture method, but different types of teaching methods may be adopted to develop the outcomes.
- Arrange visits to nearby power plants, receiving stations and substations to give brief information about the electrical power generation.
- Show Video/animation films to explain functioning of various machines
- Encourage collaborative (Group Learning) Learning in the class
- Ask at least three HOTS (Higher order Thinking) questions in the class, which promotes critical thinking
- Adapt Problem Based Learning (PBL), which fosters students Analytical skills, develop thinking skills such as the ability to evaluate, generalize, and analyze information rather than simply recall it.
- Topics will be introduced in a multiple representation.
- Show the different ways to solve the same problem and encourage the students to come up with their own creative ways to solve them.
- Discuss how every concept can be applied to the real world and when that's possible, it helps improve the students' understanding.
- Individual teachers can devise innovative pedagogy to improve the teaching-learning.

Module-1

Foundation of Social Thought

Positivism, functionalism; conflict and interactionism; alternate development thought feminism, Environmentalism etc.

Pedagogy

Chalk and talk method, PowerPoint Presentation

Module-2

Society, Culture and Social Change

Processes of Social Change: industrialization, modernization, globalization etc. social Stratification concepts and basis; caste, class, power and gender. Social mobility. Social Problems in India.

Pedagogy	Chalk and talk method, PowerPoint Presentation		
Module-3			
Social Exclusion and Planning			
Concept of so	cial exclusion and its relevance for planning. Agents of social exclusion in Indian Cities and		
Development.	spanar segregation. Sociology of displacement, inigration and Resettlement. Gender and		
Pedagogy	Chalk and talk method, PowerPoint Presentation		
	Module-4		
Urban Sociol	ogy		
Culture of citi	ies, social environment of urban areas, social and urban fragmentation and gated communities,		
neighborhood	as a sociological concept, process of urbanization, industrialization, globalization and their social		
implication on	Indian cities.		
Pedagogy	Chalk and talk method, PowerPoint Presentation		
	Module-5		
Rural Sociolo	gy		
Social enviro	onment of rural areas, processes of rural change -westernization, sanskritization and		
and migrant la	borers		
Pedagogy	Chalk and talk method, PowerPoint Presentation		
At the end of t • Upon • To det	the course the student will be able to : the completion of this course, the students would be able: monstrate an understanding of the necessity of a Social environment in rural and urban areas		
To der	monstrate knowledge about the Social Exclusion and Planning.		
Assessment D	etails (both CIE and SEE)		
(methods of C The weightage student has to maximum mat (Continuous I Exam (SEE)	IE need to be define topic wise i.e MCQ, Quizzes, Open book test, Seminar or micro project) e of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The o obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% marks of rks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE internal Evaluation) and SEE (Semester End Examination) taken together. Theory Semester End is conducted for 100 marks (3 hours' duration) and scaled down to 50 marks. Based on this		
grading will be awarded. Continuous Internal Evaluation:			
1. Methods suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc.			
 I he class teacher has to decide the topic for closed book test, open book test, written Quiz and Seminar. In the beginning only the teacher has to announce the methods of CIE for the subject 			
Semester End Examination:			
Theory SEE will be conducted by University as per scheduled time table, with common question papers for			
subject	subject		
1. The quest	ion paper will have ten questions. Each question is set for 20 marks. Marks scored shall be		
 There will be 2 questions from each module. Each of the two questions under a module (with a maximum of 3 sub questions), should have a mix of topics under that module. 			
3. The studen	nts have to answer 5 full questions, selecting one full question from each module		

Suggested Learning Resources:

Books

- 1. Sociology: Understanding and Changing the Social World, Steve Barkan, Flat World Knowledge, 2010
- Introduction to Sociology, Ryan T. Cragun, Deborah Cragun, Wikibooks, 2006 Sociology, T.K.Oomenand C.N Venugopal, 2004
- 3. Basic concepts in Sociology, D.P.Mukerji, Rupa Publications India Pvt Ltd, 2004
- 4. Addressing Gender Concern in India's Urban Renewal Mission, Renu Khosla, UNDP, 2010

Web links and Video Lectures (e-Resources):

- <u>https://swayam.gov.in/nc_details/NPTEL</u>
- <u>https://courses.lumenlearning.com/boundless-sociology/chapter/urban-life/</u>
- <u>https://www.youtube.com/watch?v=5w9T10_JE8I</u>

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

• Presentation on case studies and literature study

PROFESSIONAL ELECTIVE II- 4. CONTEMPORARY URBAN PLANNING PRACTICES			
Course Code	21PLN55.4	CIE Marks	50
Teaching Hours/Week (L:T:S:P:SM:SS)	3:0:0:0:0:0	SEE Marks	50
Total Hours of Pedagogy	48	Total Marks	100
Credits	3	Exam Hours	3

Course objectives:

• To develop ability of the students to select the most viable planning approach (es), list the steps in scheme mapping and programme implementation, refer to the relevant clause of global urban agenda, appreciate ICT application in urban planning.

Pedagogy (General Instructions)

These are sample Strategies, which teachers can use to accelerate the attainment of the various course outcomes.

- Lecturer method (L) does not mean only traditional lecture method, but different types of teaching methods may be adopted to develop the outcomes.
- Arrange visits to nearby power plants, receiving stations and substations to give brief information about the electrical power generation.
- Show Video/animation films to explain functioning of various machines
- Encourage collaborative (Group Learning) Learning in the class
- Ask at least three HOTS (Higher order Thinking) questions in the class, which promotes critical thinking
- Adapt Problem Based Learning (PBL), which fosters students Analytical skills, develop thinking skills such as the ability to evaluate, generalize, and analyze information rather than simply recall it.
- Topics will be introduced in a multiple representation.
- Show the different ways to solve the same problem and encourage the students to come up with their own creative ways to solve them.
- Discuss how every concept can be applied to the real world and when that's possible, it helps improve the students' understanding.
- Individual teachers can devise innovative pedagogy to improve the teaching-learning.

Module-1		
Structure and Practice of Contemporary Urban Planning		
Contemporary urban planning: the reform agenda, planning and politics, and social issues; Tools of land use		
planning; Smart growth; Energy planning.		
Pedagogy	Chalk and talk method, PowerPoint Presentation	
Module-2		

Urban Pl	anning Approaches			
Approaches to land regularization and management; Green field development; Brownfield development;				
Compact	Compact city development; Land pooling / Town Planning scheme; Inner city development; Participatory			
process and partnerships; New urban forms and new urbanism				
Dadagage				
Pedagogy	Chaik and taik method, PowerPoint Presentation			
	Module-3			
Urban Pl	anning Programmes and Schemes in India			
Programm	es and schemes in urban sectors in India: Smart Cities, AMRUI, HRIDAY, Housing for			
All, Total	Sanitation Programme, RuRBAN Mission etc			
Pedagogy	Chalk and talk method, PowerPoint Presentation			
	Module-4			
Future G	obal Agenda			
New Urba	n Agenda, Sustainable Development Goals, Future cities, Case Studies			
Pedagogy	Chalk and talk method, PowerPoint Presentation			
	Module-5			
Technolo	gy and Urban Planning			
Need for 1	CT and big data in urban planning; Intelligent cities and people: Case studies			
Pedagogy	Chalk and talk method, PowerPoint Presentation			
Course of	tcome (Course Skill Set)			
At the end	of the course the student will be able to :			
• 0	pon the completion of this course, the students would be able:			
• T	b demonstrate an understanding of the necessity of Technology and Urban Planning			
• T	b) demonstrate knowledge about the current Urban Planning Programmes and Schemes in India.			
Assessme	nt Details (both CIE and SEE)			
(methods	of CIE need to be define topic wise i.e MCQ, Quizzes, Open book test, Seminar or micro project)			
The weigh	tage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The			
student ha	student has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% marks of			
maximum marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE				
maximum	marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE			
maximum (Continuo	marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE us Internal Evaluation) and SEE (Semester End Examination) taken together. Theory Semester End			
maximum (Continuo Exam (SI	marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE us Internal Evaluation) and SEE (Semester End Examination) taken together. Theory Semester End E) is conducted for 100 marks (3 hours' duration) and scaled down to 50 marks. Based on this			
maximum (Continuo Exam (SH grading w	marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE us Internal Evaluation) and SEE (Semester End Examination) taken together. Theory Semester End E) is conducted for 100 marks (3 hours' duration) and scaled down to 50 marks. Based on this III be awarded. Continuous Internal Evaluation:			
maximum (Continuo Exam (SH grading w 1. Metho	marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE us Internal Evaluation) and SEE (Semester End Examination) taken together. Theory Semester End E) is conducted for 100 marks (3 hours' duration) and scaled down to 50 marks. Based on this ill be awarded. Continuous Internal Evaluation: ds suggested: Test, Open Book test, Written Ouiz, Seminar, report writing etc.			
maximum (Continuo Exam (SF grading w 1. Metho 2. The c	marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE us Internal Evaluation) and SEE (Semester End Examination) taken together. Theory Semester End E) is conducted for 100 marks (3 hours' duration) and scaled down to 50 marks. Based on this ill be awarded. Continuous Internal Evaluation: ds suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc. ass teacher has to decide the topic for closed book test, open book test. Written Quiz and Seminar In			
maximum (Continuo Exam (SH grading w 1. Metho 2. The c the be	marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE as Internal Evaluation) and SEE (Semester End Examination) taken together. Theory Semester End E) is conducted for 100 marks (3 hours' duration) and scaled down to 50 marks. Based on this III be awarded. Continuous Internal Evaluation: ds suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc. ass teacher has to decide the topic for closed book test, open book test, Written Quiz and Seminar. In ginning only the teacher has to announce the methods of CIE for the subject			
maximum (Continuo Exam (SF grading w 1. Metho 2. The c the be	marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE us Internal Evaluation) and SEE (Semester End Examination) taken together. Theory Semester End E) is conducted for 100 marks (3 hours' duration) and scaled down to 50 marks. Based on this all be awarded. Continuous Internal Evaluation: ds suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc. ass teacher has to decide the topic for closed book test, open book test, Written Quiz and Seminar. In ginning only the teacher has to announce the methods of CIE for the subject.			
maximum (Continuo Exam (SF grading w 1. Metho 2. The c the be Semester	marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE us Internal Evaluation) and SEE (Semester End Examination) taken together. Theory Semester End E) is conducted for 100 marks (3 hours' duration) and scaled down to 50 marks. Based on this and suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc. ass teacher has to decide the topic for closed book test, open book test, Written Quiz and Seminar. In ginning only the teacher has to announce the methods of CIE for the subject. End Examination:			
 maximum (Continuo Exam (SF grading w 1. Method 2. The control of the beside of the second secon	 and a minimum of 40% marks of maximum marks in CEE and minimum 35% marks of marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE as Internal Evaluation) and SEE (Semester End Examination) taken together. Theory Semester End E) is conducted for 100 marks (3 hours' duration) and scaled down to 50 marks. Based on this ill be awarded. Continuous Internal Evaluation: ds suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc. ass teacher has to decide the topic for closed book test, open book test, Written Quiz and Seminar. In ginning only the teacher has to announce the methods of CIE for the subject. End Examination: E will be conducted by University as per scheduled time table, with common question papers for 			
maximum (Continuo Exam (SH grading w 1. Metho 2. The c the be Semester Theory SI subject	 and a minimum of 40% marks of maximum marks in CEE and minimum 35% marks of marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE as Internal Evaluation) and SEE (Semester End Examination) taken together. Theory Semester End E) is conducted for 100 marks (3 hours' duration) and scaled down to 50 marks. Based on this ill be awarded. Continuous Internal Evaluation: add suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc. ass teacher has to decide the topic for closed book test, open book test, Written Quiz and Seminar. In ginning only the teacher has to announce the methods of CIE for the subject. End Examination: EE will be conducted by University as per scheduled time table, with common question papers for the subject of the subj			
 maximum (Continuo Exam (SF grading w 1. Method 2. The control of the beside of the set of	 is to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% marks of marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE us Internal Evaluation) and SEE (Semester End Examination) taken together. Theory Semester End EE) is conducted for 100 marks (3 hours' duration) and scaled down to 50 marks. Based on this ill be awarded. Continuous Internal Evaluation: ds suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc. ass teacher has to decide the topic for closed book test, open book test, Written Quiz and Seminar. In ginning only the teacher has to announce the methods of CIE for the subject. End Examination: E will be conducted by University as per scheduled time table, with common question papers for uestion paper will have ten questions. Each question is set for 20 marks. Marks scored shall be trionally reduced to 50 marks 			
 maximum (Continuo Exam (SF grading w 1. Method 2. The control of the beside Semester Theory SF subject 1. The group of the propoint 2. There 	 is to obtain a minimum of 40% marks of maximum marks in CH2 and minimum 55% marks of marks of marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE as Internal Evaluation) and SEE (Semester End Examination) taken together. Theory Semester End E) is conducted for 100 marks (3 hours' duration) and scaled down to 50 marks. Based on this ill be awarded. Continuous Internal Evaluation: ds suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc. ass teacher has to decide the topic for closed book test, open book test, Written Quiz and Seminar. In ginning only the teacher has to announce the methods of CIE for the subject. End Examination: E will be conducted by University as per scheduled time table, with common question papers for uestion paper will have ten questions. Each question is set for 20 marks. Marks scored shall be tionally reduced to 50 marks 			

3. The students have to answer 5 full questions, selecting one full question from each module

Suggested Learning Resources:

Books

- 1. Contemporary Urban Planning, John M. Levy, Pearson, 2013
- 2. The Oxford Handbook of Urban Planning, Randall Crane and Rachel Weber, Oxford University
- **3.** Press, 2015
- 4. Contemporary Urban Planning, John M. Levy, Routledge, 2012
- 5. Urban Planning: Theory and Practice, M.P. Rao, CBS Publishers
- 6. Urban Planning Methods: Research and Policy Analysis, Ian Bracken, Routledge, 2007
- 7. Making Strategic Spatial Plans: Innovation in Europe, Patsy Healey, Routledge, 1997
- 8. Understanding Cities, A.R. Cuthbert, Routledge, 2011
- 9. Smart Cities, A. Picon, John Wiley & Sons, 2015
- 10. Creating Smart-er Cities, Mark Deakin (Ed.), Routledge, 2013
- 11. Urban Development Debates in the New Millennium (Vol. 1 & 2), K.R. Gupta, Atlantic, 2005
- **12.** Urban Planning and the Development Process, David Adams, Routledge, 2005

Web links and Video Lectures (e-Resources):

- <u>http://swachhbharaturban.gov.in/</u>
- <u>http://amrut.gov.in/content/</u>
- <u>https://smartcities.gov.in/</u>
- <u>https://mohua.gov.in/cms/about-day-nulm.php?url=about-day-nulm</u>
- https://nerudp.nic.in/

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

• Presentation on case studies and literature study

PROFESSIONAL ELECTIVE II- 5. PLANNING FOR SPECIAL AREAS				
Course Code	21PLN55.5	CIE Marks	50	
Teaching Hours/Week (L:T:S:P:SM:SS)	3:0:0:0:0:0	SEE Marks	50	
Total Hours of Pedagogy	48	Total Marks	100	
Credits	3	Exam Hours	3	

Course objectives:

• To develop the skills of students to delineate the functional domain of special areas, collate and tabulate the information on socio economic, geo historic, physical and political features of special areas, analyze the land management system in special areas, identify planning issues for special areas and refer to the relevant acts, standards, programme and policies for special areas

Pedagogy (General Instructions)

These are sample Strategies, which teachers can use to accelerate the attainment of the various course outcomes.

- Lecturer method (L) does not mean only traditional lecture method, but different types of teaching methods may be adopted to develop the outcomes.
- Arrange visits to nearby power plants, receiving stations and substations to give brief information about the electrical power generation.
- Show Video/animation films to explain functioning of various machines
- Encourage collaborative (Group Learning) Learning in the class
- Ask at least three HOTS (Higher order Thinking) questions in the class, which promotes critical thinking
- Adapt Problem Based Learning (PBL), which fosters students Analytical skills, develop thinking skills such as the ability to evaluate, generalize, and analyze information rather than simply recall it.
- Topics will be introduced in a multiple representation.
- Show the different ways to solve the same problem and encourage the students to come up with their own creative ways to solve them.
- Discuss how every concept can be applied to the real world and when that's possible, it helps improve the students' understanding.
- Individual teachers can devise innovative pedagogy to improve the teaching-learning.

Module-1

Classification of Special Areas

Need for Special Area Planning; Defining special areas; Typology of formal and functional special areas: boarder area, hill area, coastal area, desert area, extremist affected area, Special Economic Zones, port City, aerotropolis, medi-City, knowledge City, defence area etc.; Contemporary approaches for Special Area Planning..

Pedagogy	Chalk and talk method, PowerPoint Presentation

Module-2			
Characteristics of Special Area			
Socio econon	nic, physiographic, geographic and political features of special areas.		
Pedagogy	Chalk and talk method, PowerPoint Presentation		
	Module-3		
Governance	of Special Areas		
Governance framework of special areas; Land management in special areas; Survey of statutes Governing			
special areas.			
Pedagogy	Chalk and talk method, PowerPoint Presentation		
Module-4			
Infrastructu	re for Special Areas		
Unique infrastructural needs of special areas; Planning standards for special areas.			
Pedagogy	Chalk and talk method, PowerPoint Presentation		
	Module-5		
Programmes	s and Projects for Special Areas		
Survey of pro	grammes and projects for special areas; Best practices of Special Area Planning.		
Pedagogy	Chalk and talk method, PowerPoint Presentation		
Course outcome (Course Skill Set)			
At the end of	the course the student will be able to :		
• Upon the completion of this course, the students would be able:			
• To de	 To demonstrate an understanding of the necessity Infrastructure for Special Area 		
• To de	emonstrate knowledge about the current Programmes and Projects for Special Areas.		
Assessment	Details (both CIE and SEE)		
(methods of CIE need to be define topic wise i.e MCO. Quizzes. Open book test. Seminar or micro project)			
The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The			
student has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% marks of			
maximum marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE			
(Continuous Internal Evaluation) and SEE (Semester End Examination) taken together. Theory Semester End			
Exam (SEE)	Exam (SEE) is conducted for 100 marks (3 hours' duration) and scaled down to 50 marks. Based on this		
grading will b	be awarded. Continuous Internal Evaluation:		

- 1. Methods suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc.
- 2. The class teacher has to decide the topic for closed book test, open book test, Written Quiz and Seminar.
- 3. In the beginning only the teacher has to announce the methods of CIE for the subject.

Semester End Examination:

Theory SEE will be conducted by University as per scheduled time table, with common question papers for subject

- **1.** The question paper will have ten questions. Each question is set for 20 marks. Marks scored shall be proportionally reduced to 50 marks
- **2.** There will be 2 questions from each module. Each of the two questions under a module (with a maximum of 3 sub questions), should have a mix of topics under that module.
- 3. The students have to answer 5 full questions, selecting one full question from each module

Suggested Learning Resources:

Books

- 1. Contemporary Urban Planning, John M. Levy, Pearson, 2013
- 2. The Oxford Handbook of Urban Planning, Randall Crane and Rachel Weber, Oxford University
- **3.** Press, 2015
- 4. Contemporary Urban Planning, John M. Levy, Routledge, 2012
- 5. Urban Planning: Theory and Practice, M.P. Rao, CBS Publishers
- 6. Urban Planning Methods: Research and Policy Analysis, Ian Bracken, Routledge, 2007
- 7. Making Strategic Spatial Plans: Innovation in Europe, Patsy Healey, Routledge, 1997
- 8. Understanding Cities, A.R. Cuthbert, Routledge, 2011
- 9. Smart Cities, A. Picon, John Wiley & Sons, 2015
- 10. Creating Smart-er Cities, Mark Deakin (Ed.), Routledge, 2013
- 11. Urban Development Debates in the New Millennium (Vol. 1 & 2), K.R. Gupta, Atlantic, 2005
- 12. Urban Planning and the Development Process, David Adams, Routledge, 2005

Web links and Video Lectures (e-Resources):

- <u>http://swachhbharaturban.gov.in/</u>
- <u>http://amrut.gov.in/content/</u>
- <u>https://smartcities.gov.in/</u>
- <u>https://mohua.gov.in/cms/about-day-nulm.php?url=about-day-nulm</u>
- <u>https://nerudp.nic.in/</u>

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

• Presentation on case studies and literature study

OPEN ELECTIVE- I 1. SUSTAINABLE CITIES AND REGIONS					
Course Code	21PLN56.1	CIE Marks	50		
Teaching Hours/Week (L:T:S:P:SM:SS)	2:0:0:0:0:0	SEE Marks	50		
Total Hours of Pedagogy	32	Total Marks	100		
Credits	2	Exam Hours	3		

Course objectives:

• The primary purpose of this subject is to understand urban sustainability, measures of sustainability, and elements and intersectionality of Sustainable Development Goals. The second objective focuses on effective governance in order to ensure sustainability of a city and a region.

Pedagogy (General Instructions)

These are sample Strategies, which teachers can use to accelerate the attainment of the various course outcomes.

- Lecturer method (L) does not mean only traditional lecture method, but different types of teaching methods may be adopted to develop the outcomes.
- Arrange visits to nearby power plants, receiving stations and substations to give brief information about the electrical power generation.
- Show Video/animation films to explain functioning of various machines
- Encourage collaborative (Group Learning) Learning in the class
- Ask at least three HOTS (Higher order Thinking) questions in the class, which promotes critical thinking
- Adapt Problem Based Learning (PBL), which fosters students Analytical skills, develop thinking skills such as the ability to evaluate, generalize, and analyze information rather than simply recall it.
- Topics will be introduced in a multiple representation.
- Show the different ways to solve the same problem and encourage the students to come up with their own creative ways to solve them.
- Discuss how every concept can be applied to the real world and when that's possible, it helps improve the students' understanding.
- Individual teachers can devise innovative pedagogy to improve the teaching-learning.

Module-1

The Rise and fall of Urban Sustainability

Starting with Brundtland report, different perspectives on urban and regional sustainability; Economic development and sustainability; Healthy city; Dimensions and components of sustainable urban and regional development.

Chalk and talk method, PowerPoint Presentation				
Module-2				
Planning and Measuring Sustainability				
Elements of a new and improved paradigm of sustainability; Green cities, growing cities, just cities; Urban				
planning and the contradictions of sustainable development; Environmental justice and the sustainable city;				
Understanding urban and regional sustainability indicators; Sustainability assessment with a focus on				
community interests, etc.; Sustainability indicators used by a city of your choice.				

Pedagogy	Chalk and talk method, PowerPoint Presentation		
	Module-3		
Governance			
Genesis, histo	ry, and limits of carrying capacity; Urban ecological footprints, planning with ecological		
footprints; Go	vernance and local sustainability; Problematizing the politics of sustainability; New politics of		
sustainability	fixes.		
Pedagogy	Chalk and talk method, PowerPoint Presentation		
	Module-4		
Sustainability	Y .		
Environment and the entrepreneurial city: searching for the urban 'sustainability fix'; Third wave			
sustainability;	Sustainability schizophrenia or actually existing sustainability: toward a broader understanding		
of the politics	and promise of local sustainability; Alternative routes to the sustainable city with examples.		
Pedagogy	Chalk and talk method, PowerPoint Presentation		
	Module-5		
Sustainable I	Development Goals		
Understanding	g New Urban Agenda, Sustainable Development Goals, Paris Agreements; India's position of		
these global a	greements; industrial ecology, planning for eco-industrial parks, drivers and limitations for the		
successful de	velopment and functioning of eco-industrial parks; SEZs, and development of ports, airports and		
road and rall t	based corridors.		
Pedagogy	Chalk and talk method, PowerPoint Presentation		
Course outcome (Course Skill Set)			
 At the end of the course the student will be able to : To illustrate understanding of theories of structure, form, and processes responsible for the growth of urban settlements. To show the ability to comprehend approaches to making development plans 			
Assessment I	Details (both CIE and SEE)		
(methods of CIE need to be define topic wise i.e MCQ, Quizzes, Open book test, Seminar or micro project) The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The student has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% marks of maximum marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together. Theory Semester End Exam (SEE) is conducted for 100 marks (3 hours' duration) and scaled down to 50 marks. Based on this grading will be awarded. Continuous Internal Evaluation:			
1. N	Iethods suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc.		
2. T S	he class teacher has to decide the topic for closed book test, open book test, Written Quiz and eminar.		
3. Ir	the beginning only the teacher has to announce the methods of CIE for the subject.		
Semester End Examination:			
Theory SEE	will be conducted by University as per scheduled time table, with common question papers for		
subject			
1. T	he question paper will have ten questions. Each question is set for 20 marks. Marks scored shall e proportionally reduced to 50 marks		
2. T	here will be 2 questions from each module. Each of the two questions under a module (with a		

2. There will be 2 questions from each module. Each of the two questions under a module (with a maximum of 3 sub questions), should have a mix of topics under that module.

3. The students have to answer 5 full questions, selecting one full question from each module

Suggested Learning Resources: Books

1. Pacione, M. (2001) The Internal Structure of Cities in the Third World, Geography, Vol. 86, No. 3, pp. 189-209.

2. Pacione, M. (2013) Problems and Planning in Third World Cities, Routledge, New York.

3. Shatkin, G. (ed.) (2013) Contesting the Indian City: Global Visions and the Politics of the Local, Wiley, London.

4. Sivaramakrishnan, K. (2013) Re-visioning Indian Cities: The Urban Renewal Mission, Sage, New Delhi.

5. Vidyarthi, S., Mathur, S. and Agrawal, S. (2017) Understanding India's New Approach to Spatial Planning and Development, Oxford University Press, New Delhi.

6. Vidyarthi, S. (2019) Spatial plans in post-liberalization India: Who's making the plans for fast-growing Indian urban regions? Journal of Urban Affairs, pp. 1-18. DOI: 10.1080/07352166.2018.1527658

7. Wu, B.S. and Sui, d. (2015) Modelling Impacts of Globalization on Desakota Regions: A case study of Taipei Metropolitan Area, Environment and Planning B: Planning and Design, pp. 1-21, DOI: 10.1177/0265813515605216

Web links and Video Lectures (e-Resources):

- https://wri-india.org/our-work/project/sustainable-cities
- <u>https://www.unep.org/regions/asia-and-pacific/regional-initiatives/supporting-resource</u> <u>efficiency/sustainable-cities</u>

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

- A presentation on different schemes and methods introduced by the Government of India.
- A simple case study understanding the sustainability
| OPEN ELECTIVE -I
2. GENDER SENSITIZATION: SOCIETY, CULTURE AND CHANGE | | | |
|--|-------------|-------------|-----|
| Course Code | 21PLN56.2 | CIE Marks | 50 |
| Teaching Hours/Week (L:T:S:P:SM:SS) | 2:0:0:0:0:0 | SEE Marks | 50 |
| Total Hours of Pedagogy | 32 | Total Marks | 100 |
| Credits 2 Exam Hours 3 | | | |
| | | | |

Course objectives:

• The primary purpose of this subject is to understand our perception of gender, gender norms and gender roles is defined by patriarchy to a great extent. To understand and perceive gender hinges on society's patriarchal construction, and it is therefore highly flawed. There is a need to deconstruct the patriarchal understanding of society and take up gender issues with greater enthusiasm. The Gender Sensitisation: Society, Culture and Change programme discusses these topics.

Pedagogy (General Instructions)

These are sample Strategies, which teachers can use to accelerate the attainment of the various course outcomes.

- Lecturer method (L) does not mean only traditional lecture method, but different types of teaching methods may be adopted to develop the outcomes.
- Arrange visits to nearby power plants, receiving stations and substations to give brief information about the electrical power generation.
- Show Video/animation films to explain functioning of various machines
- Encourage collaborative (Group Learning) Learning in the class
- Ask at least three HOTS (Higher order Thinking) questions in the class, which promotes critical thinking
- Adapt Problem Based Learning (PBL), which fosters students Analytical skills, develop thinking skills such as the ability to evaluate, generalize, and analyze information rather than simply recall it.
- Topics will be introduced in a multiple representation.
- Show the different ways to solve the same problem and encourage the students to come up with their own creative ways to solve them.
- Discuss how every concept can be applied to the real world and when that's possible, it helps improve the students' understanding.
- Individual teachers can devise innovative pedagogy to improve the teaching-learning.

Module-1

Introduction

Understanding Gender and Related Concepts, The concept of gender; Sex versus Gender; Gender Boundaries, Gender Identity, Gender Stereotype, Gender Ideology

Pedagogy	Chalk and talk method, PowerPoint Presentation
	Module-2

Gender-sensitive Planning

Need for Gender Sensitive Planning; Gender-sensitive Indicators; Guide to Planning Gender-sensitive Indicators; Gender-sensitive Outcomes

Pedagogy	Chalk and talk method, PowerPoint Presentation
	Module-3
Gender-Sensi	tive Place-making
Key Concepts of a Generic U Advocating fo	for place-making, Understanding Gender, safety and urban place-making; Questioning the idea Jser in place-making; Applying Gender-sensitive Place-making Lens, Identifying Strategies; r gender-sensitive place-making
Pedagogy	Chalk and talk method, PowerPoint Presentation
	Module-4
Major Issues	and Alternatives in Gender Planning and Gender-Sensitive Planning
Political Will	and Adequate Financial and Other Resources; Development Planning and Macroeconomic
Policy; Institu	tional Concerns
Pedagogy	Chalk and talk method, PowerPoint Presentation
	Module-5
Case Studies National and I around the wo	nternational case studies which can be considered as a benchmark for inclusive and just cities rld.
Pedagogy	Chalk and talk method, PowerPoint Presentation
Course outco	me (Course Skill Set)
At the end of t • To illu other : • To bu	he course the student will be able to : ustrate understanding to deconstruct the prevailing patriarchal notions about women, men and sexualities ild understanding of women's status in our society and identify ways to address Gender

Sensitization: Society, Culture and Change.

Assessment Details (both CIE and SEE)

(methods of CIE need to be define topic wise i.e.- MCQ, Quizzes, Open book test, Seminar or micro project) The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The student has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% marks of maximum marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together. Theory Semester End Exam (SEE) is conducted for 100 marks (3 hours' duration) and scaled down to 50 marks. Based on this grading will be awarded. **Continuous Internal Evaluation:**

- 1. Methods suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc.
- 2. The class teacher has to decide the topic for closed book test, open book test, Written Quiz and Seminar.
- 3. In the beginning only the teacher has to announce the methods of CIE for the subject.

Semester End Examination:

Theory SEE will be conducted by University as per scheduled time table, with common question papers for subject

- 1. The question paper will have ten questions. Each question is set for 20 marks. Marks scored shall be proportionally reduced to 50 marks
- 2. There will be 2 questions from each module. Each of the two questions under a module (with a maximum of 3 sub questions), should have a mix of topics under that module.
- 3. The students have to answer 5 full questions, selecting one full question from each module

Suggested Learning Resources:

Books

- 1. IGNOU : Gender Sensitization: Society, Culture and Change (2019) BGSE001, New Delhi IGNOU
- 2. Jane Pilcher and Imelda Whelehan (2005) : Fifty Key Concepts in Gender Studies

Web links and Video Lectures (e-Resources):

• <u>https://www.youtube.com/watch?v=y2FSuXqnFWg&t=2s</u>

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

- A presentation on different schemes and methods introduced by the Government of India.
- A simple case study understanding the sustainability

OPEN ELECTIVE-1 3. MIGRATION, SPATIAL DISTRIBUTION AND URBANIZATION			
Course Code	21PLN56.3	CIE Marks	50
Teaching Hours/Week (L:T:S:P:SM:SS)	2:0:0:0:0:0	SEE Marks	50
Total Hours of Pedagogy	32	Total Marks	100
Credits	2	Exam Hours	3

Course objectives:

• The primary purpose of this subject is to understand Concepts, pattern, determinants and consequences of Urbanization, Settlements, Migration and issues related to these terms.

Pedagogy (General Instructions)

These are sample Strategies, which teachers can use to accelerate the attainment of the various course outcomes.

- Lecturer method (L) does not mean only traditional lecture method, but different types of teaching methods may be adopted to develop the outcomes.
- Arrange visits to nearby power plants, receiving stations and substations to give brief information about the electrical power generation.
- Show Video/animation films to explain functioning of various machines
- Encourage collaborative (Group Learning) Learning in the class
- Ask at least three HOTS (Higher order Thinking) questions in the class, which promotes critical thinking
- Adapt Problem Based Learning (PBL), which fosters students Analytical skills, develop thinking skills such as the ability to evaluate, generalize, and analyze information rather than simply recall it.
- Topics will be introduced in a multiple representation.
- Show the different ways to solve the same problem and encourage the students to come up with their own creative ways to solve them.
- Discuss how every concept can be applied to the real world and when that's possible, it helps improve the students' understanding.
- Individual teachers can devise innovative pedagogy to improve the teaching-learning.

Module-1

Urbanization and Space Urbanization and space:

Concepts and forms (formal and informal spaces); Differences between space, place and region; urbanization and space interaction: gravity model, distance decay model, forces of concentration and dispersion, urban agglomeration and spatial economy; Access to urban and right to the city

Pedagogy Chalk and talk method, PowerPoint Presentation

Module-2

Evolution of Spaces of Settlements

Settlement: evolution, characteristics and factors; settlement pattern and hierarchy; Urban morphology; Change in urban land use and population density; Rural-urban relationship: dichotomy or continuum; Role of urban centres in rural development.

Pedagogy	Chalk and talk method, PowerPoint Presentation

Module-3

Valuation and Adjustment of Demographic Data

Appraisal of the quality of demographic data; types and sources of errors; sampling and non-sampling errors; methods of detecting errors in population data; post-enumeration surveys; dual record system; brief introduction

to indirect methods. Evaluation and measurement of errors in age reporting; methods of adjustment for age-sex data; method of graduation.

Pedagogy	Chalk and talk method, PowerPoint Presentation
Module-4	

Measures of Migration

Direct estimation of lifetime and intercensal migration rates from census data. Indirect measures of net internal migration: Vital Statistics Method, National Growth Rate Method and Census and Life Table Survival Ratio methods. Methods of estimating international migration. Migration surveys

Pedagogy Chalk and talk method, PowerPoint Presentation

Module-5

Measures of Spatial Distribution and Urbanization

Selected measures of concentration of population-Density, percentage distribution and dissimilarity index; Selected measures of Degree and tempo of urbanization; Growth and distribution of urban population, Rank-Size rule and Primacy Index, Lorenz curve and Gini's concentration ratio.

Pedagogy Ch	halk and talk method, PowerPoint Presentation

Course outcome (Course Skill Set)

At the end of the course the student will be able to :

- To illustrate understanding of measures of Spatial Distribution and Urbanization
- To build an understanding about the measures, valuation methods on the analysis.

Assessment Details (both CIE and SEE)

(methods of CIE need to be define topic wise i.e.- MCQ, Quizzes, Open book test, Seminar or micro project) The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The student has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% marks of maximum marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together. Theory Semester End Exam (SEE) is conducted for 100 marks (3 hours' duration) and scaled down to 50 marks. Based on this grading will be awarded. **Continuous Internal Evaluation:**

- 1. Methods suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc.
- 2. The class teacher has to decide the topic for closed book test, open book test, Written Quiz and Seminar.
- 3. In the beginning only the teacher has to announce the methods of CIE for the subject.

Semester End Examination:

Theory SEE will be conducted by University as per scheduled time table, with common question papers for subject

- 1. The question paper will have ten questions. Each question is set for 20 marks. Marks scored shall be proportionally reduced to 50 marks
- 2. There will be 2 questions from each module. Each of the two questions under a module (with a maximum of 3 sub questions), should have a mix of topics under that module.
- 3. The students have to answer 5 full questions, selecting one full question from each module

Suggested Learning Resources:

Books

- 1. Cohen, Robin, (1996): Theories of Migration, The International Library of Studies on Migration, Edward Elgar, Cheltenham.
- 2. Eduardo Arriaga, (1975): "Selected Measures of Urbanization", in Sydney Goldstein and David Sly (Eds.) Measures of Urbanization and Projections of Urban Population, IUSSP Belgium

- 3. United Nations, (2004): World Urbanization Prospects, The 2003 Revision, New York.
- 4. United Nations, (1998): World Population Monitoring 1997, International Migration and Development, New York.
- 5. United Nations, (1974): Methods of Measuring Internal Migration, Manual VI, UN, New York.
- 6. Shryock, Henry S. Jacob S. Siegel and Associate, (1980): The Methods and Materials of Demography Vol.1 & 2, U.S. Bureau of the Census, Washington D.C.

Web links and Video Lectures (e-Resources):

- <u>https://www.yourarticlelibrary.com/population-geography/4-general-theories-of-migration-explained/43257</u>
- https://data.worldbank.org/indicator/SP.URB.TOTL.IN.ZS
- <u>https://www.un.org/en/development/desa/population/publications/pdf/manuals/projections/manual8/chapter3.pdf</u>

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

• Analysis on the different methods of demographic projections and problem solving.

OPEN ELECTIVE- I 4. BUSINESS PLAN DEVELOPMENT			
Course Code	21PLN56.4	CIE Marks	50
Teaching Hours/Week (L:T:S:P:SM:SS)	2:0:0:0:0:0	SEE Marks	50
Total Hours of Pedagogy	32	Total Marks	100
Credits	2	Exam Hours	3

Course objectives:

• The primary purpose of this subject is to understand and discuss planning in nascent firms from the perspective of nascent entrepreneurs and potential investors. It allows us to recognize opportunity and build business development models.

Pedagogy (General Instructions)

These are sample Strategies, which teachers can use to accelerate the attainment of the various course outcomes.

- Lecturer method (L) does not mean only traditional lecture method, but different types of teaching methods may be adopted to develop the outcomes.
- Arrange visits to nearby power plants, receiving stations and substations to give brief information about the electrical power generation.
- Show Video/animation films to explain functioning of various machines
- Encourage collaborative (Group Learning) Learning in the class
- Ask at least three HOTS (Higher order Thinking) questions in the class, which promotes critical thinking
- Adapt Problem Based Learning (PBL), which fosters students Analytical skills, develop thinking skills such as the ability to evaluate, generalize, and analyze information rather than simply recall it.
- Topics will be introduced in a multiple representation.
- Show the different ways to solve the same problem and encourage the students to come up with their own creative ways to solve them.
- Discuss how every concept can be applied to the real world and when that's possible, it helps improve the students' understanding.
- Individual teachers can devise innovative pedagogy to improve the teaching-learning.

	Module-1	
ENTREPREN	NEURIAL BUSINESS OPPORTUNITIES: BASIC LEARNING	
Introduction to	entrepreneurial management, Launching a new business venture: CD-ROM simulation	
("Venture Out	")	
Pedagogy	Chalk and talk method, PowerPoint Presentation	
Module-2		
RECOGNIZING OPPORTUNITY AND BUILDING BUSINESS MODELS		
Evaluating new venture opportunities, Opportunity analysis & building business models/basic questions,		
Financial projections.		
Pedagogy	Chalk and talk method, PowerPoint Presentation	
Module-3		

Processes involved in Business Plan

The Product Development Process and Operations ,The Management Team and Organizational Structure

Pedagogy	Chalk and talk method, PowerPoint Presentation
	Module-4
Challenges and Risks	
Critical Risks	and Problems in making business development models
Pedagogy	Chalk and talk method, PowerPoint Presentation
	Module-5
Financial Planning Financing sources and Finishing Touches in framing business development plan	
Pedagogy	Chalk and talk method, PowerPoint Presentation
Course outcome (Course Skill Set)	
At the end of the course the student will be able to :	

- To provide students with methods and tools for evaluating the entrepreneurial concept
- To understand the key elements required to write a successful business plan and the interrelationship between components
- To introduce students to aspects related to different exit routes strategies and harvesting the firm.

Assessment Details (both CIE and SEE)

(methods of CIE need to be define topic wise i.e.- MCQ, Quizzes, Open book test, Seminar or micro project) The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The student has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% marks of maximum marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together. Theory Semester End Exam (SEE) is conducted for 100 marks (3 hours' duration) and scaled down to 50 marks. Based on this grading will be awarded. **Continuous Internal Evaluation:**

- 1. Methods suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc.
- 2. The class teacher has to decide the topic for closed book test, open book test, Written Quiz and Seminar.
- 3. In the beginning only the teacher has to announce the methods of CIE for the subject.

Semester End Examination:

Theory SEE will be conducted by University as per scheduled time table, with common question papers for subject

- 1. The question paper will have ten questions. Each question is set for 20 marks. Marks scored shall be proportionally reduced to 50 marks
- 2. There will be 2 questions from each module. Each of the two questions under a module (with a maximum of 3 sub questions), should have a mix of topics under that module.
- 3. The students have to answer 5 full questions, selecting one full question from each module

- 1. Shepherd, D.A. and Ettenson, R. (2000). New venture strategy and profitability: a venture capitalist's assessment. Journal of Business Venturing, Vol. 15. Sykes, H.B and Dunham, D. (1995).
- 2. Critical assumption planning: a practical tool for managing business development risk. Journal of Business Venturing, 10. Landström, H. (1994).
- 3. Co-operation between venture capital companies and small firms. Entrepreneurship and Regional Development, 2(4). Hall, J. and Hofer, C.W. (1993).
- 4. Venture capitalists' decision criteria in new venture evaluation. Journal of Business Venturing, 9(1). Macmillan, I.C., Siegel, R., Narsimha, P.N. (1985)
- 5. Criteria used by venture capitalists to evaluate new venture proposals. Journal of Business Venturing, 1(1)

Web links and Video Lectures (e-Resources):

• <u>https://economictimes.indiatimes.com/industry/banking/finance/approach-to-financial-planning-investing-and-disinvest/articleshow/86799542.cms</u>

• <u>https://www.franklintempletonindia.com/investor/investor-education/video/importance-of-financial-plannng-</u>

io04og31#:~:text=Financial%20planning%20is%20a%20step,money%20and%20achieve%20your%20goals.

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

• Literature study on framework of different business development plan

OPEN ELECTIVE-I 5. INTRODUCTION TO ENTREPRENEURSHIP			
21PLN56.5	CIE Marks	50	
2:0:0:0:0:0	SEE Marks	50	
32	Total Marks	100	
Credits 2 Exam Hours 3			
	OPEN ELECTIVE-I CTION TO ENTREPRENEU 21PLN56.5 2:0:0:0:0:0 32 2	OPEN ELECTIVE-ICTION TO ENTREPRENEURSHIP21PLN56.5CIE Marks2:0:0:0:0:0SEE Marks32Total Marks2Exam Hours	

Course objectives:

• The primary purpose of this subject is to understand that Entrepreneurship is a will and capability to develop, organize and manage a business venture including its risk factors to make a profit. It combines land, labour, natural resources and capital.

Pedagogy (General Instructions)

These are sample Strategies, which teachers can use to accelerate the attainment of the various course outcomes.

- Lecturer method (L) does not mean only traditional lecture method, but different types of teaching methods may be adopted to develop the outcomes.
- Arrange visits to nearby power plants, receiving stations and substations to give brief information about the electrical power generation.
- Show Video/animation films to explain functioning of various machines
- Encourage collaborative (Group Learning) Learning in the class
- Ask at least three HOTS (Higher order Thinking) questions in the class, which promotes critical thinking
- Adapt Problem Based Learning (PBL), which fosters students Analytical skills, develop thinking skills such as the ability to evaluate, generalize, and analyze information rather than simply recall it.
- Topics will be introduced in a multiple representation.
- Show the different ways to solve the same problem and encourage the students to come up with their own creative ways to solve them.
- Discuss how every concept can be applied to the real world and when that's possible, it helps improve the students' understanding.
- Individual teachers can devise innovative pedagogy to improve the teaching-learning.

Module-1

Introduction

The Entrepreneur; definition; Emergence of entrepreneurial class; Theories of entrepreneurship; Role of Socioeconomic environment; Characteristics of entrepreneur; Leadership; Risk taking; Decision making and Business Planning

Pedagogy	Chalk and talk method, PowerPoint Presentation	
Module-2		
Promotion of Venture Types of venture; Opportunities analysis; External Environmental Analysis- economic, social, technological; Competitive factors; Legal requirements for establishment of a new unit; Raising of funds; Venture Capital sources and documentation required.		
Pedagogy	Chalk and talk method, PowerPoint Presentation	

	Module-3
Entrepreneu Entrepreneur	irial Behaviour ial behaviour and Psycho -Theories; Innovation and Entrepreneur; Social Responsibility
Pedagogy	Chalk and talk method, PowerPoint Presentation
	Module-4
Entrepreneu EDP, their ro	irial Development Programmes le, relevance and achievements; Role of Government in organizing EDPs; Critical Evaluation
Pedagogy	Chalk and talk method, PowerPoint Presentation
	Module-5
Role of ent Complement development meeting loca	repreneur in economic growth as an evaluator; Generation of employment opportunities; ing and supplementing economic growth; Bringing about social stability and balanced regional of industries; Role in export promotion and import substitution; Forex Earnings; Augmenting and I demand
Pedagogy	Chalk and talk method, PowerPoint Presentation
Course outc At the end of • To il urba • To sh	ome (Course Skill Set) The course the student will be able to : lustrate understanding of theories of structure, form, and processes responsible for the growth of n settlements. how the ability to comprehend approaches to making development plans.
Assessment	Details (both CIE and SEE)
(methods of The weightag student has maximum m (Continuous Exam (SEE) will be award	CIE need to be define topic wise i.e MCQ, Quizzes, Open book test, Seminar or micro project) ge of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% marks of arks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE Internal Evaluation) and SEE (Semester End Examination) taken together. Theory Semester End is conducted for 100 marks (3 hours' duration) and scaled down to 50 marks. Based on this grading led. Continuous Internal Evaluation:
 Meth The of In th 	nods suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc. class teacher has to decide the topic for closed book test, open book test, Written Quiz and Seminar, e beginning only the teacher has to announce the methods of CIE for the subject.

Semester End Examination:

Theory SEE will be conducted by University as per scheduled time table, with common question papers for subject

- 1. The question paper will have ten questions. Each question is set for 20 marks. Marks scored shall be proportionally reduced to 50 marks
- 2. There will be 2 questions from each module. Each of the two questions under a module (with a maximum of 3 sub questions), should have a mix of topics under that module.
- 3. The students have to answer 5 full questions, selecting one full question from each module

Suggested Learning Resources:

Books

- 1. Tendon ,C: Environment and Entrepreneur; Cliugh Publications, Allahabad.
- 2. Siner A David: Entrepreneurial Megabuks; John Wiley and Sons, New York.
- 3. Srivastava S. B: A Practical Guide to Industrial Entrepreneurs; Sultan Chand and Sons, New Delhi.
- 4. Prasanna Chandra: Protect Preparation, Appraisal, Implementation; Tata McGraw Hill. New Delhi.
- 5. Paudey I.M: Venture Capital The Indian Experience; Prentice Hall of India, New Delhi.

6. Holt: Entrepreneurship-New Venture Creation; Prentice Hall of India New Delhi.

Web links and Video Lectures (e-Resources):

- <u>https://byjus.com/commerce/what-is-entrepreneurship/</u>
- <u>https://www.tutorialspoint.com/entrepreneurship_skills/entrepreneurship_skills_roles_of_an_entreprene</u>ur.htm

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

- A case study on the different personalities and famous entrepreneurs .
- A group discussion on the challenges and limitations faced by the entrepreneurs.

PROFESSIONAL TRAINING – I				
Course Code	21PLN57	CIE Marks	-	
Teaching Hours/Week (L:T:S:P:SM:SS)	0:0:0:0:0:0	SEE Marks	100	
Total Hours of Pedagogy	-	Total Marks	100	
Credits	3	Exam Hours	-	

General Instructions:

Students will undergo professional training in a department approved organization on a project for 2 months. This will be supervised training by a senior professional from the organization. Satisfactory completion of training will be mandatory for the award of a degree. Training will be evaluated by the faculty in charge and Internship training Coordinator.

ENVIRONMENTAL STUDIES				
Course Code		21CIV 58	CIE Marks	50
Teaching Hours	/Week (L:T:S:P:SM:SS)	1:0:0:0	SEE Marks	50
Total Hours of I	Pedagogy	16	Total Marks	100
Credits		1	Exam Hours	1
Course objectiv Communicate of Understand and responsibilities, interconnected of	ves: complex environmental i evaluate the global scale o and identities as citize world.	nformation to both te f environmental problem ens, consumers and e	chnical and non-te ns; and. Reflect criti- environmental actor	chnical audiences; cally on their roles, rs in a complex,
 Pedagogy (General Instructions) These are sample Strategies, which teachers can use to accelerate the attainment of the various course outcomes. Orienting Planners towards various analysis involving statistical methods Innovative lecture methodologies to be adapted to improve the teaching and learning process Short videos for better understanding Encourage collaborative (Group Learning) learning in the class Ask at least three HOT (Higher order Thinking) questions in the class, which promotes critical thinking Adopt Problem Based Learning (PBL), which fosters students Analytical skills, develop thinking skills such as the ability to evaluate, generalize, and analyze information rather than simply recall it Discussion in class to elevate thinking level and different problem solving levels 				
		Module 1		
Ecosystems (Structure and Function): Forest, Desert, Wetlands, Riverine, Oceanic and Lake. Biodiversity: Types, Value; Hot-spots; Threats and Conservation of biodiversity, Forest Wealth, and Deforestation				
Pedagogy	Chalk and talk method, P	owerPoint Presentation		
		Module 2		
 Advances in Energy Systems (Merits, Demerits, Global Status and Applications): Hydrogen, Solar, OTEC, Tidal and Wind. Natural Resource Management (Concept and case-studies): Disaster Management, Sustainable Mining, Cloud Seeding, and Carbon Trading. 				
Pedagogy	Chaik and talk method, P	owerPoint Presentation		
Environmentel	Dollution (Courses Inc.	Module 3	avantiva maganes	Dolovont
Environmental Surface and Gro Waste Manage Bio-medical W	Acts, Case-studies): bundwater Pollution; Noise ment & Public Health As astes; Solid waste; Hazardo	pollution; Soil Pollution pects: pus wastes; E-wastes; In	n and Air Pollution. dustrial and Municip	bal Sludge.
Pedagogy	Chalk and talk method, P	owerPoint Presentation		

	Module 4		
Global Enviro	nmental Concerns (Concept, policies and case-studies):		
Ground water of	depletion/recharging, Climate Change; Acid Rain; Ozone Depletion; Radon and Fluoride		
problem in drin	king water; Resettlement and rehabilitation of people, Environmental Toxicology.		
Pedagogy Chalk and talk method, PowerPoint Presentation			
	Module 5		
Latest Develop G.I.S. & Remo	pments in Environmental Pollution Mitigation Tools (Concept and Applications) te Sensing, Environment Impact Assessment, Environmental Management Systems, ironmental Stewardship, NGOs		
Field work: V	isit to an Environmental Engineering Laboratory or Green Building or Water Treatmen		
Plant or Waste	water treatment Plant; ought to be Followed by understanding of process and its brie		
documentation	water treatment Flant, ought to be Followed by understanding of process and its offe		
documentation.			
Pedagogy	Chalk and talk method, PowerPoint Presentation		
Course outcomes			
At the end of the c	ourse, students will be able to:		
• CO1: Und water issue	lerstand the principles of ecology and environmental issues that apply to air, land, and es on a global scale,		
• CO2: Dev problem of	velop critical thinking and/or observation skills, and apply them to the analysis of a r question related to the environment.		
• CO3: Dem	nonstrate ecology knowledge of a complex relationship between biotic and a biotic		
componen	ts. CO4: Apply their ecological knowledge to illustrate and graph a problem and describe		
the realitie	s that managers face when dealing with complex issues.		
Assessment Detai	ls (both CIE and SEE)		
The weightage of	Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%		
The minimum pass	sing mark for the CIE is 40% of the maximum marks (20 marks out of 50). A student sha		
e deemed to have	satisfied the academic requirements and earned the credits allotted to each subject/ cours		
the student secu	res not less than 35% (18 Marks out of 50) in the semester-end examination (SFF) and		

Continuous Internal Evaluation:

Three Unit Tests each of 20 Marks (duration 01 hour)

1. First test at the end of 5th week of the semester

SEE (Semester End Examination) taken together.

- 2. Second test at the end of the 10th week of the semester
- 3. Third test at the end of the 15th week of the semester
- Two assignments each of 10 Marks
- 4. First assignment at the end of 4th week of the semester
- 5. Second assignment at the end of 9th week of the semester Group discussion/Seminar/quiz any one of three suitably planned to attain the COs and POs for 20 Marks (duration 01 hours)

minimum of 40% (40 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and

6. At the end of the 13th week of the semester

The sum of three tests, two assignments, and quiz/seminar/group discussion will be out of 100 marks and will be scaled down to 50 marks (to have less stressed CIE, the portion of the syllabus should not be common /repeated for any of the methods of the CIE.

Each method of CIE should have a different syllabus portion of the course). CIE methods /question paper is designed to attain the different levels of Bloom's taxonomy as per the outcome defined for the course.

Semester End Examination:

Theory SEE will be conducted by University as per the scheduled timetable, with common question papers for the subject (duration 01 hours) Question paper pattern:

- 1. The Question paper will have 50 objective questions.
- 2. Each question will be for 01 marks
- 3. Students will have to answer all the questions on an OMR Sheet.
- 4. The Duration of the Exam will be 01 hour

Suggested Learning Resources:

Books

- 1. Environmental Ecology Biodiversity & Climate Change Pratiyogita Darpan
- 2. Environment and Ecology Arihant
- 3. Environmental Studies: From Crisis to Cure R. Rajagopalan

Web links and Video Lectures (e-Resources):

- http://proxy.earlham.edu/login?url=http://earlham.worldcat.org/oclc/47009637
- http://earlham.worldcat.org/oclc/31901190
- http://proxy.earlham.edu/login?url=http://earlham.worldcat.org/oclc/228071686
- https://www.sciencedirect.com/topics/engineering/reference-environment

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

• Understanding the contractual and tender documents related practices.

PHYSICAL EDUCATION (SPORTS & ATHLETICS)/ YOGA/ NSS				
Course Code	21PE59/ 21YO59/ 21NS59	CIE Marks	50	
Teaching Hours/Week (L:T:S:P:SM:SS)	0:0:0:2:0:0	SEE Marks	50	
Total Hours of Pedagogy	32	Total Marks	100	
Credits	-	Exam Hours	-	

13.09.2022

<mark>SEMESTER VI</mark>

PLANNING STUDIO: MASTER DEVELOPMENT PLAN FOR A TOWN OR CITY			
Course Code	21PLN61	CIE Marks	50
Teaching Hours/Week (L:T:S:P:SM:SS)	0:0:0:10:0:0	SEE Marks	50
Total Hours of Pedagogy	160	Total Marks	100
Credits	5	Exam Hours	-

Course objectives:

• The chief objective of this studio is to train students to prepare a master development plan of a town or a city or a metropolis.

Pedagogy (General Instructions)

These are sample Strategies, which teachers can use to accelerate the attainment of the various course outcomes.

- The student is required to visit site and organizations for the collection of data
- The student is asked to do multiple surveys for Transportation and Socio economic study for understanding the Issues.
- Report Presentations and Sheets on final Analysis is to be submitted at the end of the studio

Course Contents

The study for this studio exercise shall be limited to the preparation of a comprehensive development plan of an urban settlement. The programme may carry a predetermined focus such as planning for tourism, energy conservation, heritage conservation etc. The studio programme is designed to expose the student to: Study and establish appropriate planning standards, techniques of population projection, Identification of the data to be collected and the sources thereof, organising surveys and collecting socio-economic, traffic and other data, Projecting the future with different scenarios and identification of 'action areas' (i.e., specific problems related with housing, services, circulation, etc.), Preparation and presentation of all relevant drawings and reports of complete comprehensive development plan proposal.

Practical Training

Training is an integral part of learning in real life situations. Following the closure of the 6th semester, each student is required to undertake a six-week professional training, during summer vacations, in an organization duly approved by the training coordinator. The work undertaken during this training shall be presented by the students in the training seminar before the faculty. Training will be supervised by a faculty and will be duly marked

Course outcome (Course Skill Set)

At the end of the course the student will be able to :

- 1. To analyse the existing policy and planning literature on urban development plans, and to examine field survey data and information.
- 2. To plan and design different future scenarios, priorities of development, action areas, phasing and monitoring, and to propose governance structures for the implementation of the plan.
- 3. To produce spatial policies, and to make planning proposals along with a land use plan for a selected urban settlement.

Assessment Details (both CIE and SEE)

(methods of CIE need to be define topic wise i.e.- MCQ, Quizzes, Open book test, Seminar or micro project) The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The student has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% marks of maximum marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together. Semester End Exam (SEE) is conducted for 100 marks and scaled down to 50 marks. Based on this grading will be awarded.

Continuous Internal Evaluation:

• Continuous Internal Evaluation (CIE): The CIE marks awarded in case of Studio shall be based on the weekly evaluation of progress of the studio works after the conduction of every Presentation

Semester End Examination:

• Planning Studio SEE will be conducted by the University as per scheduled time table, in a batch wise with external examiner and Internal Examiner reviewing the works of the students.

Suggested Learning Resources: Books

- 1. 1.Bureau of Indian Standards (2005) National Building Code of India, Bureau of Indian Standards, New Delhi
- 2. Delhi Development Authority (2007) Master Plan for Delhi, 2021, DDA, New Delhi.
- 3. Ministry of Urban Development (1996) The Urban Development Plan Formulation and Implementation (UDPFI) Guidelines, Government of India, New Delhi.
- 4. 4. Ministry of Urban Development (2015) The Urban and Regional Development Plan Formulation and Implementation (URDPFI) Guidelines, Government of India, New Delhi.

Web links and Video Lectures (e-Resources):

- <u>http://mohua.gov.in/upload/uploadfiles/files/URDPFI%20Guidelines%20Vol%20I(2).pdf</u>
- <u>https://planningtank.com/urban-regional-planning/concept-characteristics-preparation-master-plan</u>
- https://urban-regeneration.worldbank.org/node/51
- <u>http://www.itpi.org.in/pdfs/07_01.pdf</u>

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

- Feasibility Study, Strategic Framework to be worked.
- Data collection through primary and secondary study needs to be collected through site visits and visit to government and non –governmental organizations.

ENVIRONMENT PLANNING				
Course Code	21PLN62	CIE Marks	50	
Teaching Hours/Week (L:T:S:P:SM:SS)	3:0:0:0:0:0	SEE Marks	50	
Total Hours of Pedagogy	48	Total Marks	100	
Credits	3	Exam Hours	3	

Course objectives:

• To expose students to diverse concepts of sustainable development, community based environmental planning, environmental justice, and global environmental challenges

Pedagogy (General Instructions)

These are sample Strategies, which teachers can use to accelerate the attainment of the various course outcomes.

- Lecturer method (L) does not mean only traditional lecture method, but different types of teaching methods may be adopted to develop the outcomes.
- Arrange visits to nearby power plants, receiving stations and substations to give brief information about the electrical power generation.
- Show Video/animation films to explain functioning of various machines
- Encourage collaborative (Group Learning) Learning in the class
- Ask at least three HOTS (Higher order Thinking) questions in the class, which promotes critical thinking
- Adapt Problem Based Learning (PBL), which fosters students Analytical skills, develop thinking skills such as the ability to evaluate, generalize, and analyze information rather than simply recall it.
- Topics will be introduced in a multiple representation.
- Show the different ways to solve the same problem and encourage the students to come up with their own creative ways to solve them.
- Discuss how every concept can be applied to the real world and when that's possible, it helps improve the students' understanding.
- Individual teachers can devise innovative pedagogy to improve the teaching-learning.

Module-1

Sustainable Development

Origin of the term sustainable development and its diverse interpretations; Role of different actors from bottom-up to top-down, weak versus strong sustainability; Participatory challenges: green democracy versus participatory managerialism; Mainstreaming of sustainable development and its integration with development; Sustainable development agenda and different models of planning: planning models which emphasise delivery against sustainability targets i.e. linear rational model, those which emphasise collaboration i.e. integration of different forms of knowledge and expertise, and those which see planning as arena for debate and emphasise learning for sustainability.

Pedagogy Chalk and talk method, PowerPoint Presentation

Module-2

Environmental land use planning

Land Use Planning Relationship between land use, infrastructure and natural environment; Land use and environmental protection; Community-based environmental protection; Ecosystem management; Integrated water resource management; Hazard mitigation; Ecological restoration; Land conservation;

Pedagogy	Chalk and talk method, PowerPoint Presentation.
	Module-3
Community-	based Environmental Planning
A bottom-up	approach; Responsive and context-sensitive plans incorporating local knowledge, enhancing
local ownersh	ip; Define communities and understanding inequalities within communities; Capacities of
communities;	Relationships with other scales for environmental planning
Pedagogy	Chalk and talk method, PowerPoint Presentation.
	Module-4
Justice and L	and Use Planning
Origins of er minority neigh of diversity ar and political p Urban and rur Assessment in	al poor in developing countries and environmental justice issues; Environmental Impact India; Introduction to Strategic Environment Assessment.
Pedagogy	Chalk and talk method, PowerPoint Presentation
	Module-5
<u>Clabal anvin</u>	annontal problems and local planning
Debates over environmental Diversity, 199 certification, a agriculture, etc	climate change, forests and biodiversity depletion, water scarcity and food scarcity; International negotiations and treaties like 1987 Montreal Protocol, 1992 Rio Convention on Biologica 77 Kyoto Protocol, MDGs, SDGs, etc.; Local environmental planning issues like green building 1980 non-motorised transportation infrastructure, rainwater harvesting, grey water recycling, urbar 1990 c.
Pedagogy	Chalk and talk method, PowerPoint Presentation
Course outco	me (Course Skill Set)
At the end of t • To sho	he course the student will be able to : ow knowledge about the integration of sustainable development and other environmental theories
• To de	development plan. monstrate knowledge and skills to prepare environmental plans for human settlements.
Assessment D (methods of C The weightage student has to	Details (both CIE and SEE) IE need to be define topic wise i.e MCQ, Quizzes, Open book test, Seminar or micro project) e of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. Th o obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% marks c

maximum marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together. Theory Semester End Exam (SEE) is conducted for 100 marks (3 hours' duration) and scaled down to 50 marks. Based on this grading will be awarded.

Continuous Internal Evaluation:

- 1. Methods suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc.
- 2. The class teacher has to decide the topic for closed book test, open book test, Written Quiz and Seminar.
- 3. In the beginning only the teacher has to announce the methods of CIE for the subject.

Semester End Examination:

Theory SEE will be conducted by University as per scheduled time table, with common question papers for subject

- 1. The question paper will have ten questions. Each question is set for 20 marks. Marks scored out of 100 marks are proportionally reduced to 50 marks.
- 2. There will be 2 questions from each module. Each of the two questions under a module (with a maximum of 3 sub questions), should have a mix of topics under that module.
- 3. The students have to answer 5 full questions, selecting one full question from each module

Suggested Learning Resources:

Books

- 1. Pekmezovic, A., Walker, G. and Walker J. (2019) Sustainable Development Goals: Harnessing Business to Achieve the SDGs through Finance, Technology and Law Reform, John Wiley and Sons, New Jersey.
- 2. Randolph, J. (2003) Environmental Land Use Planning and Management, Island Press, Washington D.C.
- 3. Amanda, K. (2017) Environmental Justice and Land Use Conflict, Taylor and Francis, London.
- 4. Gupta, K.R. and Maiti, P. (2009) Global Environment: Problems and Policies, Atlantic Publisher, New Delhi.

Web links and Video Lectures (e-Resources):

- https://www.un.org/waterforlifedecade/iwrm.shtml
- <u>https://www.unep.org/explore-topics/disasters-conflicts/where-we-work/sudan/what-integrated-water-resources-management</u>
- <u>https://www.cbd.int/gbo1/chap-02.shtml</u>
- https://publications.gc.ca/Collection-R/LoPBdP/BP/bp317-e.htm

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

- Group presentation and discussion on the current trends of environmental issues and mitigation measures taken against
- Literature study on the development plans such as special area plans like coastal development plan ,eco city development plan etc for better understanding

LAND ECONOMICS AND LOCATION THEORY			
Course Code	21PLN63	CIE Marks	50
Teaching Hours/Week (L:T:S:P:SM:SS)	3:0:0:0:0:0	SEE Marks	50
Total Hours of Pedagogy	48	Total Marks	100
Credits	3	Exam Hours	3

Course objectives:

• Land and the institution of private property are foundational to the efficient working of the capitalist system. In this line of thinking, the primary objective of this subject is to teach students about land and property development and the functioning of their markets. On theoretical side, students will be taught the basics of land economics including location theories as they pertain to land uses and property

Pedagogy (General Instructions)

These are sample Strategies, which teachers can use to accelerate the attainment of the various course outcomes.

- Lecturer method (L) does not mean only traditional lecture method, but different types of teaching methods may be adopted to develop the outcomes.
- Arrange visits to nearby power plants, receiving stations and substations to give brief information about the electrical power generation.
- Show Video/animation films to explain functioning of various machines
- Encourage collaborative (Group Learning) Learning in the class
- Ask at least three HOTS (Higher order Thinking) questions in the class, which promotes critical thinking
- Adapt Problem Based Learning (PBL), which fosters students Analytical skills, develop thinking skills such as the ability to evaluate, generalize, and analyze information rather than simply recall it.
- Topics will be introduced in a multiple representation.
- Show the different ways to solve the same problem and encourage the students to come up with their own creative ways to solve them.
- Discuss how every concept can be applied to the real world and when that's possible, it helps improve the students' understanding.
- Individual teachers can devise innovative pedagogy to improve the teaching-learning.

Module-1

Introduction to Land Economics

Economics concepts of land, objectives and scope of land economics; relevance for spatial planning; economic principles of land use; economic rent, land use and land values, market mechanism and land use pattern.

Pedagogy	Chalk and talk method, PowerPoint Presentation	
Module-2		
Development of Land and Real Property		
Process of land development; Cost of development; Source of finance, financial calculation for private		
developers; Real property and its salient characteristics.		
Pedagogy	Chalk and talk method, PowerPoint Presentation	

Module-3 **Real Property Markets** Heterogeneity and imperfections, valuation of real property - principles and practices; private ownership and social control of land; disposal of land; land development charges and betterment levy; land use restrictions, compensation and requisition taxation of capital gain on land versus public ownerships, economic aspects of land policies at various levels of decision making. Chalk and talk method, PowerPoint Presentation Pedagogy Module-4 Factors Influencing Locational Decisions and Economic Analysis Analysis of location of specific uses like residential, industrial, commercial and institutional in the light of location theories in intra-regional and inter-regional context; Techniques of cost benefit analysis of urban development programmes, social costs and benefits, monetization of various costs and benefits, difference between financial and economic analysis. Chalk and talk method, PowerPoint Presentation Pedagogy Module-5 **Economic Analysis**

Techniques of cost benefit analysis of urban development programme, social costs and benefits, Monetization of various costs and benefits, difference between financial and economic analysis.

Pedagogy	Chalk and talk method, PowerPoint Presentation
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Course outcome (Course Skill Set)

At the end of the course the student will be able to :

• To develop knowledge about the nature of land and property development, and real estate markets as well as land economics including location theories.

• To show the relevance and use of this knowledge for the preparation of development plans and projects.

Assessment Details (both CIE and SEE)

(methods of CIE need to be define topic wise i.e.- MCQ, Quizzes, Open book test, Seminar or micro project) The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The student has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% marks of maximum marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together. Theory Semester End Exam (SEE) is conducted for 100 marks (3 hours' duration) and scaled down to 50 marks. Based on this grading will be awarded.

Continuous Internal Evaluation:

- 1. Methods suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc.
- 2. The class teacher has to decide the topic for closed book test, open book test, Written Quiz and Seminar.
- 3. In the beginning only the teacher has to announce the methods of CIE for the subject.

Semester End Examination:

Theory SEE will be conducted by University as per scheduled time table, with common question papers for subject

- 1. The question paper will have ten questions. Each question is set for 20 marks. Marks scored out of 100
 - marks are proportionally reduced to 50 marks.

- 2. There will be 2 questions from each module. Each of the two questions under a module (with a maximum of 3 sub questions), should have a mix of topics under that module.
- 3. The students have to answer 5 full questions, selecting one full question from each module.

Suggested Learning Resources: Books

1. Church, R.L. and Murray, A.T. (2009) Business Site Selection, Location Analysis, and GIS, Wiley, Hoboken, New Jersey.

2. Evan, A. (2004) Economics and Land Use Planning, Wiley-Blackwell, Hoboken, New Jersey.

3. Glatte, T. (2015) Location Strategies: Methods and their methodological limitations *Journal for Engineering*, *Design and Technology*, Vol. 13, Issue 3, pp. 435 – 462.

4. Harvey, J. (1996) Urban Land Economics, Fourth Edition, Macmillan, London.

5. Isard, W(1956) Location and Space–Economy: A General Theory Relating to Industrial Location, Market Areas, Land Use, Trade, and Urban Structure, MIT Press, Cambridge.

6. Nachem, I. (2007) The Complete Guide to Financing Real Estate Developments, McGraw-Hill, New York.

7. Ryan-Collins, J., Lloyd, T., and Macfarlane, L. (2017) *Rethinking the Economics of Land and Housing*, Zed Books, London.

8. Wu, J. and Duke, J.M. (2014) *The Oxford Handbook of Land Economics*, Oxford University Press, New York.

Web links and Video Lectures (e-Resources):

• https://www.britannica.com/topic/location-theory

- <u>https://swayam.gov.in/explorer</u>
- <u>https://www.youtube.com/watch?v=6COT986SYTQ</u>

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

• Case studies to understand the process of Land development and the cost benefit analysis of a project.

URBAN/ DEVELOPMENT FINANCE			
Course Code	21PLN64	CIE Marks	50
Teaching Hours/Week (L:T:S:P:SM:SS)	2:0:0:0:0:0	SEE Marks	50
Total Hours of Pedagogy	32	Total Marks	100
Credits	2	Exam Hours	3

Course objectives:

• Development finance is critical to the actualization of planning policies and projects as is political prioritization. The main objective of this subject is to critically explain and discuss the idea of development finance, its various forms and sources, techniques to raise funds, and the working of financial markets. Understanding functioning of the variegated financial organizations is also one of its objectives.

Pedagogy (General Instructions)

These are sample Strategies, which teachers can use to accelerate the attainment of the various course outcomes.

- Lecturer method (L) does not mean only traditional lecture method, but different types of teaching methods may be adopted to develop the outcomes.
- Arrange visits to nearby power plants, receiving stations and substations to give brief information about the electrical power generation.
- Show Video/animation films to explain functioning of various machines
- Encourage collaborative (Group Learning) Learning in the class
- Ask at least three HOTS (Higher order Thinking) questions in the class, which promotes critical thinking
- Adapt Problem Based Learning (PBL), which fosters students Analytical skills, develop thinking skills such as the ability to evaluate, generalize, and analyze information rather than simply recall it.
- Topics will be introduced in a multiple representation.
- Show the different ways to solve the same problem and encourage the students to come up with their own creative ways to solve them.
- Discuss how every concept can be applied to the real world and when that's possible, it helps improve the students' understanding.
- Individual teachers can devise innovative pedagogy to improve the teaching-learning.

Module-1

Multiple Finances

Nature and composition of income and expenditure, limitations and need for revenue enhancements; Expenditure control methods and mechanisms; Budgetary allocation from central and state governments for urban development; Assistance from foreign donors and multinational agencies; Market access; Pool finance and prerequisite conditions for accessing non-traditional funds; Multilateral and bilateral funding from international organisations. An overview of plan and non-plan financing (Planning Commission, Niti Ayog and Finance Commission); Categorisation of Municipal Sources of Revenue: Internal versus external revenue, capital versus revenue receipt; Municipal finance assessment framework; Reforms in municipal finance, rationalisation of user charges; Ring fencing; Streamlining municipal tax administration; Monetary exaction, land exactions, debt financing, Public private partnerships, role of financial intermediaries, municipal bond, municipal budget, performance budget, gender budget, fiscal indicators: RDR, FAR and EDR; Municipal accounting and auditing

Pedagogy	Chalk and talk method, PowerPoint Presentation		
	Module-2		
Additional Fu	unding sources		
Types of part	tnership approaches; Privatization of civic services; public private partnership mechanisms;		
Types of cont	tracts and ownerships; Emerging cost effect technology interventions; User charged projects;		
Pricing of serv	vices.		
Pedagogy	Chalk and talk method, PowerPoint Presentation, problem solving		
	Module-3		
Resources Ba	sed on Achievement of Urban Reforms		
Role of state	government and urban local bodies; City's Challenge Fund; Urban reforms; Implications on		
resources, ince	entive fund and state level pooled finance development fund.		
Pedagogy	Chalk and talk method, PowerPoint Presentation		
	Module-4		
Institutional	Capacity Enhancement and Urban Reforms		
Better finance	management, management process; Accounting and budgeting, asset management, receivables		
management,	cost centre approach; Computerization as tool for resource enhancement		
Pedagogy	Chalk and talk method, PowerPoint Presentation		
	Module-5		
Role of Mana	gement Information Systems		
Financial ope	rating plan, city corporate plan; Development of urban indicators; Infrastructure pricing and		
financing: fina	ancing mechanisms in addition to tax and grants; Private public partnerships like BOT, BOOT,		
BOLT etc.; In	npact fee and subsidies		
Pedagogy	Chalk and talk method, PowerPoint Presentation and reference on relevant case studies		
Course outcor	ne (Course Skill Set)		
At the end of t	the course the student will be able to :		
• To de	monstrate knowledge of development finance, its various forms and sources, techniques to raise		
Tunds,	and the working of financial markets.		
• 10 sh	Sw critical understanding of the functioning of variegated financial organizations.		
Assessment D	Details (both CIE and SEE)		
(methods of C	The need to be define topic wise i.e MCQ, Quizzes, Open book test, Seminar or micro project)		
The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The student has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 25% marks of			
student has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% marks of maximum marks in SEE to pass and a minimum of 40% (40 marks out of 100) in the sum total of the CIE			
(Continuous I	nternal Evaluation) and SEE (Semester End Examination) taken together. Theory Semester End		
Exam (SEE)	Exam (SEE) is conducted for 100 marks (3 hours' duration) and scaled down to 50 marks. Based on this		
grading will b	e awarded.		
Continuous I	nternal Evaluation:		
1. Metho	ods suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc.		
2. The c	2. The class teacher has to decide the topic for closed book test, open book test, Written Quiz and		
Semir	har. In the beginning only the teacher has to announce the methods of CIE for the subject.		
Semester End	I Examination:		
Theory SEE will be conducted by University as per scheduled time table, with common question papers for			
subject			

- 1. The question paper will have ten questions. Each question is set for 20 marks. Marks scored out of 100 marks are proportionally reduced to 50 marks.
- 2. There will be 2 questions from each module. Each of the two questions under a module (with a maximum of 3 sub questions), should have a mix of topics under that module.
- 3. The students have to answer 5 full questions, selecting one full question from each module

Suggested Learning Resources:

Books

- 1. Biekpe, N., Cassimon, D. and Mullineux, A. (eds.) (2017) Development Finance and its Innovations for Sustainable Growth, Palgrave Macmillan, New York.
- Mathur, O.P. (2005) 'Impact of Globalization on Cities and City-Related Policies in India', in H. Richardson, W. Harry, and C. Chang-Hee (eds.) Globalization and Urban Development (pp. 43–58), Springer, Berlin.
- 3. Mathur, O.P. (2006) 'Urban Finance', in 3i Network, India Infrastructure Report, Oxford University Press, New Delhi.
- 4. Oxford University Press, New Delhi (pp 82-105)
- 5. Mathur, O.P., Thakur, D., and Rajadhyaksha, N. (2009) Urban Property Tax Potential in India, National Institute of Public Finance and Policy, New Delhi.
- 6. Mathur, O.P. (2018) The Financing of Urban Infrastructure Issues and Challenges, Background Note, Ministry of Finance, Government of India, New Delhi.
- 7. Mishra, A.K. and Mohanty, P.K. (2018) Urban infrastructure financing in India: applying the benefit and earmarking principles of taxation, Journal of Social and Economic Development, DOI: 10.1007/s40847-018-0059-1
- 8. Mohanty, P.K. (2016) Financing Cities: Municipal reforms, fiscal accountability and urban infrastructure, Sage, New Delhi.
- 9. Peterson, G.J. (2007) Financing Cities: Fiscal responsibility and urban infrastructure in Brazil, China, India and South Africa, Sage, New Delhi.
- 10. Singh, K. and Ta'I, B. (eds.) (2000) Financing and Pricing of Urban Infrastructure, New Age Books Publishers (P) Ltd, New Delhi.

Web links and Video Lectures (e-Resources):

- <u>https://gsdrc.org/topic-guides/urban-governance/elements-of-effective-urban-governance/municipal-capacity/urban-finance/</u>
- <u>http://www.kuidfc.com/</u>
- http://www.indiaenvironmentportal.org.in/category/2049/thesaurus/urban-finance/
- https://www.youtube.com/watch?v=qrs3taWpuD8
- https://www.youtube.com/watch?v=uyK_Dv9Bmb4
- https://www.youtube.com/watch?v=pYSgMGoK_Jo
- https://www.coursera.org/lecture/financing-infrastructure-in-african-cities/the-principles-of-finance-CeN4Z
- https://www.sopact.com/perspectives/sdg-11-indicators
- https://www.youtube.com/watch?v=WYoXWNm62Zw
- https://www.youtube.com/watch?v=GkFQaTBouho
- https://www.youtube.com/watch?v=AIXiMzAXtdw

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

- A presentation on Municipal/corporation Budgets of the selected Municipalities/ corporations in the selected districts and also included state, central and union budgets.
- Topic wise presentation from the modules.

PLANNING FOR INFORMAL SECTOR AND THE URBAN POOR			
Course Code	21PLN65	CIE Marks	50
Teaching Hours/Week (L:T:S:P:SM:SS)	3:0:0:0:0:0	SEE Marks	50
Total Hours of Pedagogy	48	Total Marks	100
Credits	3	Exam Hours	3

Course objectives:

• This course intends to develop an understanding about issues of urban poverty and the informal sector and to critically examine various policy approaches.

Pedagogy (General Instructions)

These are sample Strategies, which teachers can use to accelerate the attainment of the various course outcomes.

- Lecturer method (L) does not mean only traditional lecture method, but different types of teaching methods may be adopted to develop the outcomes.
- Arrange visits to nearby power plants, receiving stations and substations to give brief information about the electrical power generation.
- Show Video/animation films to explain functioning of various machines
- Encourage collaborative (Group Learning) Learning in the class
- Ask at least three HOTS (Higher order Thinking) questions in the class, which promotes critical thinking
- Adapt Problem Based Learning (PBL), which fosters students Analytical skills, develop thinking skills such as the ability to evaluate, generalize, and analyze information rather than simply recall it.
- Topics will be introduced in a multiple representation.
- Show the different ways to solve the same problem and encourage the students to come up with their own creative ways to solve them.
- Discuss how every concept can be applied to the real world and when that's possible, it helps improve the students' understanding.
- Individual teachers can devise innovative pedagogy to improve the teaching-learning.

Module-1

Urban Poverty

Dimensions of urban poverty, measurement of poverty, magnitude of problem; MDGs and SDGs, defining the poverty line, urban versus rural poverty; Causes and consequences of urban poverty, slums; Urban poverty alleviation programmes.

Pedagogy	Chalk and talk method, PowerPoint Presentation
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	Module-2	
Approaches f Theoretical pe and in India; approaches.	For Alleviation of urban poverty erspectives on poverty alleviation; Evolution of approach to poverty alleviation in global context Policies for the urban poor in India since independence; Five year plans and current policy	
Pedagogy	Chalk and talk method, PowerPoint Presentation	
	Module-3	
Concept, cause Concept of inter- Spatial focus of historic areas; Street Vendor Pedagogy	ses and consequences of Informal Sector formal sector and informality; Types of informal sector and role of informal sector in cities, on informal sector; Socio-economic deprivation and informal sector; Poverty and informality in Policies and practices in dealing with the informal sector in India e.g. National Policy on Urban s, NCEUS, others); Informal and formal networks and interdependence. Chalk and talk method, PowerPoint Presentation	
	Module-4	
Planning for Policy framew governing info planning.	Informal sector work for addressing the challenges of informal economy; Planning provisions and norms; Policies ormal sectors of economy e.g. household industry, street vending, etc. and its implications for city	
Pedagogy		
T and and Inf	Module-5	
Land and Inf Spatial justice Identification Informal settle	e to urban informal economy – statutory allocation of urban land to urban informal activity; of hot spots of urban poverty- ghettoization; The economics of location of ements.	
Pedagogy	Chark and tark method, I ower out i resentation	
Course outco	me (Course Skill Set)	
At the end of t	the course the student will be able to : te critical understanding about the concepts of urban poverty and informal sector	
To evaluate cr To show fami with urban po To demonstra Assessment I (methods of C The weightage student has to maximum ma (Continuous I Exam (SEE) grading will b	 itically the success of different approaches to dealing with urban poverty. liarity with various policies and programmes on urban poverty and various organizations dealing verty. te an understanding of how planning intervenes to deal with the issues of urban and rural poverty. Details (both CIE and SEE) CIE need to be define topic wise i.e MCQ, Quizzes, Open book test, Seminar or micro project) e of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% marks of rks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE nternal Evaluation) and SEE (Semester End Examination) taken together. Theory Semester End is conducted for 100 marks (3 hours' duration) and scaled down to 50 marks. Based on this e awarded. 	

Continuous Internal Evaluation:

- 1. Methods suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc.
- 2. The class teacher has to decide the topic for closed book test, open book test, Written Quiz and Seminar.
- 3. In the beginning only the teacher has to announce the methods of CIE for the subject.

Semester End Examination:

Theory SEE will be conducted by University as per scheduled time table, with common question papers for subject

- 1. The question paper will have ten questions. Each question is set for 20 marks. Marks scored out of 100 marks are proportionally reduced to 50 marks.
- 2. There will be 2 questions from each module. Each of the two questions under a module (with a maximum of 3 sub questions), should have a mix of topics under that module.
- 3. The students have to answer 5 full questions, selecting one full question from each module

Suggested Learning Resources: Books

1. Agnotti, T. (2018) Metropolis 2000: Planning, Poverty and Politics, Routledge, New York.

2. Breman, J. (2016) At Work in the Informal Economy of India: A Perspective from the Bottom Up, Oxford University Press, New Delhi.

3. Bromley, R. (2013) The Urban Informal Sector: Critical Perspectives on Employment and Housing Policies, Pergamon Press, Oxford.

4. Mazumdar, D. (1976) The Urban Informal Sector, World Bank Staff Working Paper No. 43, World Bank, Washington, D.C.

5. McFarlane, C. (ed.) (2016) Urban Informalities: Reflections on the Formal and Informal, Routledge, New York.

6. Nussbaum, M. and Sen, A. (eds.) (1993) The Quality of Life, Clarendon Press, Oxford.

7. Satterthwaite, D. and Mitlin, D. (2013) Reducing Urban Poverty in the Global South, Routledge, New York.
 8. Sen, A. (2000) Development as Freedom, Alfred A. Knopf, New York.

9. Sen, K. and Rajesh, R.S.N. (2016) Out of the Shadows?: The Informal Sector in Post-reform India, Oxford University Press, New Delhi.

10. Sethuraman, S.V. (1976) Jakarta: Urban Development and Employment, ILO, Geneva.

Web links and Video Lectures (e-Resources):

- <u>https://niti.gov.in/planningcommission.gov.in/docs/plans/planrel/fiveyr/12th/pdf/12fyp_vol1.pdf</u>
- https://www.ilo.org/wcmsp5/groups/public/---ed_emp/documents/presentation/wcms_125912.pdf
- <u>https://www.ijsr.net/get_abstract.php?paper_id=18051804</u>
- <u>https://mofpi.nic.in/sites/default/files/vol_2.pdf.pdf</u>

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

• A presentation on the different states/country and critically analysing the legal laws available for the informal sector economy.

PROFESSIONAL ELECTIVE – III 1. REAL ESTATE DEVELOPMENT AND MANAGEMENT			
Course Code	21PLN66.1	CIE Marks	50
Teaching Hours/Week (L:T:S:P:SM:SS)	3:0:0:0:0:0	SEE Marks	50
Total Hours of Pedagogy	48	Total Marks	100
Credits	3	Exam Hours	3

Course objectives:

• The main objective of this subject is to teach students about the functioning of the real estate markets, institutions involved in the real estate sector, and financing of the real estate. Another important objective is to examine and explore how locational decisions in the real estate sector are taken by major stakeholders

Pedagogy (General Instructions)

These are sample Strategies, which teachers can use to accelerate the attainment of the various course outcomes.

- Lecturer method (L) does not mean only traditional lecture method, but different types of teaching methods may be adopted to develop the outcomes.
- Arrange visits to nearby power plants, receiving stations and substations to give brief information about the electrical power generation.
- Show Video/animation films to explain functioning of various machines
- Encourage collaborative (Group Learning) Learning in the class
- Ask at least three HOTS (Higher order Thinking) questions in the class, which promotes critical thinking
- Adapt Problem Based Learning (PBL), which fosters students Analytical skills, develop thinking skills such as the ability to evaluate, generalize, and analyze information rather than simply recall it.
- Topics will be introduced in a multiple representation.
- Show the different ways to solve the same problem and encourage the students to come up with their own creative ways to solve them.
- Discuss how every concept can be applied to the real world and when that's possible, it helps improve the students' understanding.
- Individual teachers can devise innovative pedagogy to improve the teaching-learning.

Module-1		
Development	s of Land and Real Property	
Process of land development, market mechanism and land use pattern; Cost of development; Sources		
of finance and financial calculations for real estate development		
Pedagogy	Chalk and talk method, PowerPoint Presentation	
Module-2		

Real Propert	y Markets		
Heterogeneity	y and imperfections, valuation of real property including principles and practices; Private		
ownership an	d social control of land; Disposal of land; Land development charges and betterment levy;		
Land use res	trictions, compensation and requisition taxation of capital gain on land versus public		
ownerships; H	Economic aspects of land policies at various levels of decision making.		
Pedagogy	Chalk and talk method, PowerPoint Presentation		
	Module-3		
Factors Influ	iencing Locational Decisions		
Analysis of lo	ocation of specific uses like residential, industrial, commercial and institutional in the light		
of location th	eories in intra-regional and inter-regional context; Techniques of cost benefit analysis of		
urban develop	pment programmes.		
Pedagogy	Chalk and talk method, PowerPoint Presentation		
	Module-4		
Policies, Pro	grammes and Statutory Interventions		
Real estate de	evelopment: regulatory provisions, Government policies and programmes; Land		
development	charges and betterment levy; Land use restrictions and compensations; Urban land		
management	and marketing techniques: bidding, reserve price, land reservation, land price subsidies.		
Pedagogy	Chalk and talk method, PowerPoint Presentation		
	Module-5		
Case Studies			
Case studies	of real estate development in public, private, partnership sectors; Real estate as facilitator		
of developm	ent; Development of real estate as a tool for controlling land and property prices;		
Transaction a	nd renting of real estate, Lease deeds and sale deeds, sale documents, registration;		
Mortgage and	l pledging		
Pedagogy	Chalk and talk method, PowerPoint Presentation		
Course outco	ome (Course Skill Set)		
At the end of	the course the student will be able to :		
To demonstra	te knowledge about the functioning of the real estate markets, working of institutions		
involved in th	e sector, financing and locational decisions taken by major stakeholders in the sector.		
Assessment l	Details (both CIE and SEE)		
(methods of	CIE need to be define topic wise i.e MCQ, Quizzes, Open book test, Seminar or micro		
project)			
The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is			
50%. The student has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35%			
marks of maximum marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total			
of the CIE (of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together		
Theory Semester End Exam (SEE) is conducted for 100 marks (3 hours' duration) and scaled down to			
50 marks. Based on this grading will be awarded.			
Continuous	Internal Evaluation:		
1. Meth	ods suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc.		
2. The c	class teacher has to decide the topic for closed book test, onen book test. Written Ouiz and		
Semi	nar.		
3. In the beginning only the teacher has to announce the methods of CIE for the subject.

Semester End Examination:

Theory SEE will be conducted by University as per scheduled time table, with common question papers for subject

- 1. The question paper will have ten questions. Each question is set for 20 marks. Marks scored out of 100 marks are proportionally reduced to 50 marks.
- 2. There will be 2 questions from each module. Each of the two questions under a module (with a maximum of 3 sub questions), should have a mix of topics under that module.
- 3. The students have to answer 5 full questions, selecting one full question from each module

Suggested Learning Resources:

Books

- 1. Anthony, O., Kenneth, G. (eds.) (2002) Housing Economics and Public Policy, Wiley-Blackwell, Oxford.
- 2. Bhargava, M.L. (2020) Real Estate Regulations and Development, Kamal Publishers, New Delhi.
- 3. Das, P. and Sharma, D. (2014) Real Estate Finance in India, Sage, New Delhi.
- 4. Lynn, D.J. and Wang, T. (2010) Emerging Market Real Estate Investment: Investing in China, India, and Brazil, Wiley, Oxford.
- 5. Mike, E.M., Gayle, B. and Marc, A.W. (2000) Real Estate Development: Principles and Process, Urban Land Institute, Washington, D.C.
- 6. Mittal, S. (2016) The ABC of Real Estate in India, Falcon Publishing.
- Neve, G.D. and Donner, H. (2015) Revisiting Urban Property in India, Journal of South Asian Development, Vol. 10, No. 3, pp. 255-266.
- 8. Ratcliffe, J. and Stubbs, M. (2009) Urban Planning and Real Estate Development, Taylor and Francis, London.
- 9. Rouanet, H. and Halbert, L. (2015) Leveraging finance capital: Urban change and selfempowerment of real estate developers in India, Urban Studies, Vol. 53, No. 7, pp. 1401-1423.

Web links and Video Lectures (e-Resources):

- <u>https://niti.gov.in/planningcommission.gov.in/docs/plans/planrel/fiveyr/10th/volume2/v2_ch7_6</u> .pdf
- <u>https://www.jstor.org/stable/20868572</u>
- <u>https://www.ibef.org/industry/real-estate-india.aspx</u>

- A Group project on Real Estate Development of a specific dimensions through the project life cycle to analyze a sample project success in Bengaluru's real estate market.
- Class Debate on Future Trends Of Real Estate based on qualitative analysis

PROFESSIONAL ELECTIVE – III 2. CLIMATE CHANGE, DISASTER RISK AND RESILIENCE			
Course Code	21PLN66.2	CIE Marks	50
Teaching Hours/Week (L:T:S:P:SM:SS)	3:0:0:0:0:0	SEE Marks	50
Total Hours of Pedagogy	48	Total Marks	100
Credits	3	Exam Hours	3

Course objectives:

- To understand the basic concepts of climate change, resilience, disaster management and planning.
- To expose students to relevant policies and guidelines for the reduction of climate change and disaster risks.

Pedagogy (General Instructions)

These are sample Strategies, which teachers can use to accelerate the attainment of the various course outcomes.

- Lecturer method (L) does not mean only traditional lecture method, but different types of teaching methods may be adopted to develop the outcomes.
- Arrange visits to nearby power plants, receiving stations and substations to give brief information about the electrical power generation.
- Show Video/animation films to explain functioning of various machines
- Encourage collaborative (Group Learning) Learning in the class
- Ask at least three HOTS (Higher order Thinking) questions in the class, which promotes critical thinking
- Adapt Problem Based Learning (PBL), which fosters students Analytical skills, develop thinking skills such as the ability to evaluate, generalize, and analyze information rather than simply recall it.
- Topics will be introduced in a multiple representation.
- Show the different ways to solve the same problem and encourage the students to come up with their own creative ways to solve them.
- Discuss how every concept can be applied to the real world and when that's possible, it helps improve the students' understanding.
- Individual teachers can devise innovative pedagogy to improve the teaching-learning.

	Module-1
Basics of Clim	ate Change and Resilience
Concepts of glo of climate chan	bal warming and climate change; Factor affecting climate change, challenges and issues ge; Concepts of resilience community and settlements.
Pedagogy	Chalk and talk method, PowerPoint Presentation

	Module-2	
Disaster Mana	agement: Institutional Mechanisms	
Disaster manag	gement: select global practices; Institutional set up for disaster management in India:	
NDMA, NIDM	I, and state / district level agencies; Agencies engaged in disaster management: NGOs /	
CBOs, NDRF;	Community Based Disaster Preparedness (CBDP)	
Pedagogy	Chalk and talk method, PowerPoint Presentation	
	Module-3	
Planning, Mar	nagement. Resilience and Climate Change	
Global policies	s on climate change, national and state policies on climate change, action plan and	
resilience plan	for state, region and urban area; Integration of climate change policy and action plan in	
various levels	of development plans; Energy efficient development, compact city form, transit oriented	
development;	Mechanisms and measures for mitigating and adapting to climate change at various	
levels; Geospa	tial techniques for analysing city form, solar potential utilization studies, wind flow	
analysis studies	S.	
Pedagogy	Chalk and talk method, PowerPoint Presentation	
	Module-4	
Paging of Digo	ston and Disaston Managament Plan	
Definition of	calamities disaster disaster preparedness and mitigation concepts of risk and	
vulnorobility: I	Development and disaster management: Interface contents and details of various disaster	
wonegement n	beveropment and disaster management, interface contents and details of various disaster	
management p	ians for hational, state and set	
Pedagogy	Chalk and talk method, PowerPoint Presentation	
	Module-5	
Geospatial Te	chnologies for Disaster Mitigation and Management	
Remote sensir	ng and GIS for natural disasters, flood hazard zoning, landslide hazard zonation;	
Earthquake haz	zard risk and assessment; Seismic microzonation, seismic codes, land subsidence studies;	
Early warning	systems; Geomorphology for urban areas; Thermal images for assessment of urban heat	
island; Urban h	nazard risk and analysis.	
Pedagogy	Chalk and talk method, PowerPoint Presentation	
Course outcon	ne (Course Skill Set)	
At the end of th	ne course the student will be able to :	
• To den	nonstrate knowledge and skills for the preparation of a development plan.	
• 10 Sho disaste	r risks in order to reduce vulnerability	
Assessment D	etails (both CIE and SEE)	
(methods of C	IE need to be define topic wise i.e MCQ, Quizzes, Open book test, Seminar or micro	
project)		
The weightage	of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is	
50% The student has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35%		
marks of maxin	marks of maximum marks in SEE to pass and a minimum of 40% (40 marks out of 100) in the sum total	
of the CIE (C	Continuous Internal Evaluation) and SEE (Semester End Examination) taken together.	
Theory Semest	er End Exam (SEE) is conducted for 100 marks (3 hours' duration) and scaled down to	
50 marks. Base	ed on this grading will be awarded.	
Continuous In	ternal Evaluation:	
1. Methods su	ggested: Test, Open Book test, Written Ouiz, Seminar, report writing etc.	

The class teacher has to decide the topic for closed book test, open book test, Written Quiz and Seminar. In the beginning only the teacher has to announce the methods of CIE for the subject.

Semester End Examination:

Theory SEE will be conducted by University as per scheduled time table, with common question papers for subject

- 1. The question paper will have ten questions. Each question is set for 20 marks. Marks scored out of 100 marks are proportionally reduced to 50 marks.
- 2. There will be 2 questions from each module. Each of the two questions under a module (with a maximum of 3 sub questions), should have a mix of topics under that module.

3. The students have to answer 5 full questions, selecting one full question from each module

Suggested Learning Resources:

Books

1. Capolla, D.P. (2007) Introduction to International Disaster Management, Butterworth Heinemann.

2. Joshi, A.D. (2009) Text Book of Disaster Management, Lotus Publication of Private Limited, Mumbai.

3. Ministry of Home Affairs (2004) Model Amendment in Town and Country Planning Legislations, Regulation for Land Use Zoning and Building Byelaws for Structural Safety, Government of India, New Delhi.

4. Ministry of Home Affairs (2006) National Policy on Disaster Management, Government of India, New Delhi.

NDMA (2007) Disaster Management Guidelines, 2007-11, NDMA, Government of India, New Delhi.
 Živković J. (2019) 'Human Settlements and Climate Change', in Leal Filho W., Azeiteiro U., Azul A., Brandli L., Özuyar P., Wall T. (eds.) Climate Action: Encyclopedia of the UN Sustainable Development Goals, Springer, Cham.

Web links and Video Lectures (e-Resources):

- <u>http://environmentclearance.nic.in/writereaddata/online/RiskAssessment/100320177LXJK83BR</u> ISKASSESSMENTDOCUMENT.pdf
- <u>https://ndma.gov.in/</u>

• <u>https://www.mha.gov.in/sites/default/files/National%20Disaster%20Management%20Plan%20</u> <u>May%202016.pdf</u>

• <u>https://www.un.org/climatechange?gclid=CjwKCAjw-</u>

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Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

• A literature study on climate change across the global countries.

• An understanding on the current scenarios of the climate change and caused disasters by collecting articles and so on

PROFESSIONAL ELECTIVE – III			
3. LAND ECONOMICS & LOCATIONAL THEORY			
Course Code	21PLN66.3	CIE Marks	50
Teaching Hours/Week (L:T:S:P:SM:SS)	3:0:0:0:0:0	SEE Marks	50
Total Hours of Pedagogy	48	Total Marks	100
Credits	3	Exam Hours	3

Course objectives:

- To introduce students to the basic concepts of land economics, land and real property development, real property markets and factors that influence the locational decisions for any real property.
- To enable students to take decision based on the economic analysis and scenario of the real property in the markets.

Pedagogy (General Instructions)

These are sample Strategies, which teachers can use to accelerate the attainment of the various course outcomes.

- Lecturer method (L) does not mean only traditional lecture method, but different types of teaching methods may be adopted to develop the outcomes.
- Arrange visits to nearby power plants, receiving stations and substations to give brief information about the electrical power generation.
- Show Video/animation films to explain functioning of various machines
- Encourage collaborative (Group Learning) Learning in the class
- Ask at least three HOTS (Higher order Thinking) questions in the class, which promotes critical thinking
- Adapt Problem Based Learning (PBL), which fosters students Analytical skills, develop thinking skills such as the ability to evaluate, generalize, and analyze information rather than simply recall it.
- Topics will be introduced in a multiple representation.
- Show the different ways to solve the same problem and encourage the students to come up with their own creative ways to solve them.
- Discuss how every concept can be applied to the real world and when that's possible, it helps improve the students' understanding.
- Individual teachers can devise innovative pedagogy to improve the teaching-learning.

Introduction to Land Economics

Module-1

Economics concepts of land, objectives and scope of land economics; relevance for spatial planning; economic principles of land uses; economic rent, land use and land values, market; mechanism and land

use pattern.	
Pedagogy	Chalk and talk method, PowerPoint Presentation
	Module-2
Development	of Land and Real Property
Process, cost of	of development, source of finance, financial calculation for private developer
Pedagogy	Chalk and talk method, PowerPoint Presentation
	Module-3
Real Property	y Markets
Heterogeneity	and imperfections, valuation of real property – principles and practices; private
ownership and	l social control of land: disposal of land: land development charges and betterment levy:
land use restr	ictions, compensation and requisition taxation of capital gain on land versus public
ownerships, ed	conomic aspects of land policies at various levels of decision making.
Pedagogy	Chalk and talk method, PowerPoint Presentation
	Module-4
Factors Influ	encing Locational Decisions
Analysis of lo	cation of specific uses like residential, industrial, commercial and institutional in the light
of location the	ories in intra-regional and inter-regional context.
Pedagogy	Chalk and talk method, PowerPoint Presentation
	Module-5
Economic An	alysis
Techniques of	cost benefit analysis of urban development programme, social costs and benefits,
monetization	of various costs and benefits, difference between financial and economic analysis.
Pedagogy	Chalk and talk method, PowerPoint Presentation
Course outco	me (Course Skill Set)
• To de	monstrate knowledge and skills on Urban Economics.
• To sh	ow the ability to prepare an Economic Analysis and factors influencing locational
Decis	ons

Assessment Details (both CIE and SEE)

(methods of CIE need to be define topic wise i.e.- MCQ, Quizzes, Open book test, Seminar or micro project)

The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The student has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% marks of maximum marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together. Theory Semester End Exam (SEE) is conducted for 100 marks (3 hours' duration) and scaled down to 50 marks. Based on this grading will be awarded.

Continuous Internal Evaluation:

- 1. Methods suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc.
- 2. The class teacher has to decide the topic for closed book test, open book test, Written Quiz and Seminar. In the beginning only the teacher has to announce the methods of CIE for the subject.

Semester End Examination:

Theory SEE will be conducted by University as per scheduled time table, with common question papers for subject

- 1. The question paper will have ten questions. Each question is set for 20 marks. Marks scored out of 100 marks are proportionally reduced to 50 marks.
- 2. There will be 2 questions from each module. Each of the two questions under a module (with a maximum of 3 sub questions), should have a mix of topics under that module.
- 3. The students have to answer 5 full questions, selecting one full question from each module

Suggested Learning Resources:

Books

1. Urban Land Economics, Jack Harvey and Ernie Jowsey, Palgrave Mcmillan, 2004

2. Economics of Urban Property Markets: An Institutional Economics Analysis, Arvanitidis Paschalis,

Routledge

3. Urban Economics and Real Estate Markets, Denise Di Pasquale and William C. Wheaton, Prentice

Hall, 1995

4. Urban Planning and Real Estate Development, John Ratcliffe, Routledge, 2009

5. Real Estate Management, Howard L. Bliss, Charles H. Sill, Prentice-Hall, 1953

Web links and Video Lectures (e-Resources):

- <u>https://www.city-journal.org/html/five-principles-urban-economics-13531.html</u>
- <u>https://www.ilo.org/sector/activities/topics/urban-economy/lang--en/index.htm</u>

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

• A literature study on Urban Planning and real estate development in Global level.

PROFESSIONAL ELECTIVE – III			
4. TOURISM GEOGRAPHY DEVELOPMENT AND PLANNING			
Course Code	21PLN66.4	CIE Marks	50
Teaching Hours/Week (L:T:S:P:SM:SS)	3:0:0:0:0:0	SEE Marks	50
Total Hours of Pedagogy	48	Total Marks	100
Credits	3	Exam Hours	3

Course objectives:

- To understand the basic concepts of Tourism. Eco tourism and sustainable tourism
- To expose students to relevant policies and guidelines available in the process of preparation of Tourism Development Plan.

Pedagogy (General Instructions)

These are sample Strategies, which teachers can use to accelerate the attainment of the various course outcomes.

- Lecturer method (L) does not mean only traditional lecture method, but different types of teaching methods may be adopted to develop the outcomes.
- Arrange visits to nearby power plants, receiving stations and substations to give brief information about the electrical power generation.
- Show Video/animation films to explain functioning of various machines
- Encourage collaborative (Group Learning) Learning in the class
- Ask at least three HOTS (Higher order Thinking) questions in the class, which promotes critical thinking
- Adapt Problem Based Learning (PBL), which fosters students Analytical skills, develop thinking skills such as the ability to evaluate, generalize, and analyze information rather than simply recall it.
- Topics will be introduced in a multiple representation.
- Show the different ways to solve the same problem and encourage the students to come up with their own creative ways to solve them.
- Discuss how every concept can be applied to the real world and when that's possible, it helps improve the students' understanding.
- Individual teachers can devise innovative pedagogy to improve the teaching-learning.

	Module-1	
Introduction Levels, type and process of planning. Conceptualization, Background Analysis, In-depth Research and Analysis Phase.		
Pedagogy	Chalk and talk method, PowerPoint Presentation	
	Module-2	
Tourism policy formulation Policy making bodies in India, National action Plan on Tourism 1992, An outline of L K Jha Committee, 1963, Tourism and Five year plans in India, The latest policy document on tourism		
Pedagogy	Chalk and talk method, PowerPoint Presentation	

	Module-3
Tourism deve	elopment Plan
Tourism proje	ect feasibility study ,phase and preparation of statements in Destination planning,
Involvement of	of Local community in tourism Development, Objective Setting, Goal setting, Strategy
setting and Pla	an writing, Techniques of Plan Formulation. Tourism Planning at International, National
and State Leve	el.
Pedagogy	Chalk and talk method, PowerPoint Presentation
	Module-4
Tourism and	Environment
Synergism be	tween tourism promotion & nature conservation, Environment and tourism – areas of
conflict, symb	biosis and synergy, Tourism in various bio-geographic realms and specific situation of
environmental	concern.
Pedagogy	Chalk and talk method, PowerPoint Presentation
	Module-5
Future Touri	sm
Community b	ased tourism, Concept of mass tourism, Future of Sustainable Tourism, Towards a New
Approach to S	ustainable Tourism Management, Ecotourism.
Pedagogy	Chalk and talk method, PowerPoint Presentation
Course outco	me (Course Skill Set)
• To der	monstrate knowledge and skills for the preparation of a Tourism development plan.
• To he	lp in successfully overcome the daily changes that occur in turbulent surrounding,
planni	ng of sustainable tourism development occurs as the only way to do it successfully
Assessment D	etails (both CIE and SEE)
(methods of C	CIE need to be define topic wise i.e MCQ, Quizzes, Open book test, Seminar or micro
project)	
The weightage	e of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is
50%. The stud	ent has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35%
marks of maxi	mum marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total
of the CIE (C	Continuous Internal Evaluation) and SEE (Semester End Examination) taken together.
Theory Semes	ter End Exam (SEE) is conducted for 100 marks (3 hours' duration) and scaled down to
50 marks. Bas	ed on this grading will be awarded.
Continuous I	nternal Evaluation:
1. Metho	ods suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc.
2. The cl	ass teacher has to decide the topic for closed book test, open book test, Written Quiz and
Semin	ar. In the beginning only the teacher has to announce the methods of CIE for the subject.
Semester End	Examination:
Theory SEE w	will be conducted by University as per scheduled time table, with common question papers
for subject	
1. The q	uestion paper will have ten questions. Each question is set for 20 marks. Marks scored out
of 100) marks are proportionally reduced to 50 marks.
2. There	will be 2 questions from each module. Each of the two questions under a module (with a
maxin	num of 3 sub questions), should have a mix of topics under that module.
3. The st	udents have to answer 5 full questions, selecting one full question from each module

Suggested Learning Resources:

Books

- 1. Sustainable Tourism: A Global perspective by Rob Harris, Tony Griffin, Peter Williams , Butterworth –Heinemann.
- 2. Sustainable Tourism by S.P. Sing, Sustainable Development of Tourism: An Annotated Bibliography by the World Tourism Organization.
- 3. Cases in Sustainable Tourism; an Experiential Approach to Making Decisions by Irene Herremans.
- 4. Sustainable Tourism; Theory and Practice by David Weaver Powell's City of Books
- 5. Sustainable Tourism: Himalayan Experiences, S P Bansal & Prashant Gautam, Indus Publication

Web links and Video Lectures (e-Resources):

- <u>http://www.bagchee.com/</u>
- <u>https://www.youtube.com/watch?v=fFUg-u5glBA&feature=emb_imp_woyt</u>

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

• A literature study on various Tourism Development plan

PROFESSIONAL ELECTIVE – III 5. SUSTAINABLE MATERIALS AND GREEN BUILDINGS			
Course Code	21PLN66.5	CIE Marks	50
Teaching Hours/Week (L:T:S:P:SM:SS)	3:0:0:0:0:0	SEE Marks	50
Total Hours of Pedagogy	48	Total Marks	100
Credits	3	Exam Hours	3

Course objectives:

• To expose the students to the concepts of sustainability in the context of building and conventional engineered building materials, such as concrete, bricks, and achieving the same through lower carbon cements, superior brick kilns and recycled aggregate minimizing consumption of natural resources including water.

Pedagogy (General Instructions)

These are sample Strategies, which teachers can use to accelerate the attainment of the various course outcomes.

- Lecturer method (L) does not mean only traditional lecture method, but different types of teaching methods may be adopted to develop the outcomes.
- Arrange visits to nearby power plants, receiving stations and substations to give brief information about the electrical power generation.
- Show Video/animation films to explain functioning of various machines
- Encourage collaborative (Group Learning) Learning in the class
- Ask at least three HOTS (Higher order Thinking) questions in the class, which promotes critical thinking
- Adapt Problem Based Learning (PBL), which fosters students Analytical skills, develop thinking skills such as the ability to evaluate, generalize, and analyze information rather than simply recall it.
- Topics will be introduced in a multiple representation.
- Show the different ways to solve the same problem and encourage the students to come up with their own creative ways to solve them.
- Discuss how every concept can be applied to the real world and when that's possible, it helps improve the students' understanding.
- Individual teachers can devise innovative pedagogy to improve the teaching-learning.

	Module-1	
Introduction		
Embodie capacity and c	d energy, Operational energy in Building and Life cycle energy. Ecological foot print, Bio- alculation of planet equivalent.	
Pedagogy	Chalk and talk method, PowerPoint Presentation	
	Module-2	
Role of Mater	rial and Quality	
Carbon from Cement, alternative cements and cementitious material, Alternative fuel for cements for reduction in carbon emission, Sustainability issues for concrete, minimization of natural resource utilization, High volume fly ash concrete, geo-polymer concrete etc. concrete with alternative material for sustainability'		
Pedagogy	Chalk and talk method, PowerPoint Presentation	

Module-3

Building Materials

Clay Bricks, Types kilns, Comparative energy performance emission performance and financial performance, Paints, adhesive and sealants for use in building, volatile organic content (VOC) emission issues and indoor air quality for sustainability and health hazard.

Pedagogy	Chalk and talk method, PowerPoint Presentation
	Module-4

Energy Simulation in Building Design

Operational energy reduction and net zero building, Optimization for design of building for energy efficiency and example of optimization through use of Evolutionary genetic algorithm

Pedagogy	Chalk and talk method, PowerPoint Presentation
Module-5	

Advanced Techniques and Practices

Radiation budget, urban heat island; Surface water balance, Effects of trees and microclimatic modification through greening, Green Performance rating, requirements of LEED, GRIHA

Pedagogy Chalk and talk method, PowerPoint Presentation

Course outcome (Course Skill Set)

- To demonstrate knowledge and skills for the preparation of a development plan.
- To show the ability to prepare a development plan for an area prone to climate change and disaster risks in order to reduce vulnerability.

Assessment Details (both CIE and SEE)

(methods of CIE need to be define topic wise i.e.- MCQ, Quizzes, Open book test, Seminar or micro project)

The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The student has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% marks of maximum marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together. Theory Semester End Exam (SEE) is conducted for 100 marks (3 hours' duration) and scaled down to 50 marks. Based on this grading will be awarded.

Continuous Internal Evaluation:

- 1. Methods suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc.
- 2. The class teacher has to decide the topic for closed book test, open book test, Written Quiz and Seminar. In the beginning only the teacher has to announce the methods of CIE for the subject.

Semester End Examination:

Theory SEE will be conducted by University as per scheduled time table, with common question papers for subject

- 1. The question paper will have ten questions. Each question is set for 20 marks. Marks scored out of 100 marks are proportionally reduced to 50 marks.
- 2. There will be 2 questions from each module. Each of the two questions under a module (with a maximum of 3 sub questions), should have a mix of topics under that module.
- 3. The students have to answer 5 full questions, selecting one full question from each module

Suggested Learning Resources: Books

1. Newman, J. and Choo, Ban Sang, Advanced Concrete Technology-Processes, 1 st Edition, Elsevier, 2003

2. Newman, J. and Choo, Ban Sang, Advanced Concrete Technology-Constituent Materials, 1st Edition, Elsevier, 2003

3. Kubba, S, LEED Practices, Certification, and Accreditation Hand book, 1st ed. Elsevier, 2010.

4. Minsitry of Power, Energy Conservation Building Code 2018, Revised Version, Bureau of Energy Efficiency, 2018,

5. Architectural Energy Corporation, Building Envelope Stringency Analysis, International Institute for Energy Conservation, 2004

6. Indian Building Congress, Practical Handbook on Energy Conservation in Buildings, 1 st ed. Nabhi Publication, 2008.

7. McQuiston, F.C., and Parker, J.D. Heating, Ventilating, and Air Conditioning, Analysis and Design, Fourth Ed. John Wiley & Sons, Inc, 1994.

8. Clarke, J.A., Energy Simulation in Building Design, Adam Hilger Ltd. 1985.

9. TERI-Griha's Green Design practices (www.teriin.org/bcsd/griha/griha.htm)

10.Leadership in Energy and Environmental Design (www.usgbc.org/LEED)

11.Article on Residential Green Choice(www.austinenergy.com)

12. Venkatarama Reddy, B. V., and. Jagadish, K., S. "Embodied energy of common and alternative building materials and technologies". Energy and Buildings., 35, 129-137,2003

13. Chani, P. S., Najamuddin., and Kaushik, S.K. "Comparative Analysis of Embodied Energy Rates for Walling Elements in India". Energy and Buildings., 84, 47- 50. 2003

14. Andrew, H., Buchanan., and Brian, G. "Energy and carbon dioxide implications of building construction", Energy and Buildings., 20, 205-217. 1994

15. Sartori, I., and Hestnes, A. G. "Energy use in the life cycle of conventional and low-energy buildings: A review article", Energy and Buildings., 20, 249-257.2007

16. Green Building Basics, California Integrated Waste Management Board (www.ciwmb.ca.gov/GREENBUILDING/Basics.htm#What)

17. Huberman, N., Pearlmutter, D. "A life-cycle energy analysis of building materials in the Negev desert".b Energy and Buildings., 40,837-848.2007.

18. Catarina Thormark. "A low energy building in a life cycle—its embodied energy, energy need for operation and recycling potential", Building and Environment., 37, 429-435.2001.

Web links and Video Lectures (e-Resources):

- <u>https://onlinecourses.nptel.ac.in/noc19_ce40/preview</u>
- <u>https://igbc.in/igbc/redirectHtml.htm?redVal=showGreenEducationRatingsystemNosignin</u>

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

• A presentation on the case study

VI Semester

OPEN ELECTIVE – II 1. METROPOLITAN PLANNING AND DEVELOPMENT			
Course Code 21PLN67.1 CIE Marks 50			
Teaching Hours/Week (L:T:S:P:SM:SS)	2:0:0:0:0:0	SEE Marks	50
Total Hours of Pedagogy	32	Total Marks	100
Credits	2	Exam Hours	3

Course objectives:

• The primary objective of this subject is to expose students to theories of structure, form, and processes responsible for the growth of urban settlements,, and also to comprehend approaches to making development plan

Pedagogy (General Instructions)

These are sample Strategies, which teachers can use to accelerate the attainment of the various course outcomes.

- Lecturer method (L) does not mean only traditional lecture method, but different types of teaching methods may be adopted to develop the outcomes.
- Arrange visits to nearby power plants, receiving stations and substations to give brief information about the electrical power generation.
- Show Video/animation films to explain functioning of various machines
- Encourage collaborative (Group Learning) Learning in the class
- Ask at least three HOTS (Higher order Thinking) questions in the class, which promotes critical thinking
- Adapt Problem Based Learning (PBL), which fosters students Analytical skills, develop thinking skills such as the ability to evaluate, generalize, and analyze information rather than simply recall it.
- Topics will be introduced in a multiple representation.
- Show the different ways to solve the same problem and encourage the students to come up with their own creative ways to solve them.
- Discuss how every concept can be applied to the real world and when that's possible, it helps improve the students' understanding.
- Individual teachers can devise innovative pedagogy to improve the teaching-learning.

Module-1 Urban Structure and Growth Growth of cities; cities as engines of growth; Land values, economic attributes of location, economic forces in urban development; Structure of City Regions, area of influence, Impact of technology on urban forms; Transportation and urban form; location characteristics and impact of urban settlements. Pedagogy Chalk and talk method, PowerPoint Presentation

Module-2

Theories of De	evelopment and Emerging Concepts	
Theories of urban structure and land use- Centre place theory, urban realm model, core frame theory;		
New urbanism; Territorial Development Theory - Growth pole theory, urban bias critique, secondary		
cities and urban diffusion: Emerging Rural Urban Relationship models – urban rural linkage.		
expanding city	, globalisation and extended metropolitan region, Desakota model, Networked model;	
Territoriality of	f rural-urban interaction; Peri- urban Interface (PUI) case studies Geospatial techniques	
for analysing c	ity form, solar potential utilization studies, wind flow analysis studies.	
Pedagogy	Chalk and talk method. PowerPoint Presentation	
Teaugogy	Module-3	
Planning Norr	ns and Standards and Plan Preparation Approaches	
Spatial standar	ds for residential, industrial, commercial, institutional, transport, ecological spaces.	
recreational are	eas etc.: space standards for facility areas, utilities and networks: performance standards:	
Approaches for	r preparation of Urban development plans Master Plans Structure plans and Strategy	
Plan: Public Pa	articipation and Plan Implementation: Techniques of urban renewal and redevelopment:	
System approa	interpretent and 1 and 1 million material analysis, retail location and industrial location analysis:	
transport system	n analysis	
Pedagogy	Chalk and talk method, PowerPoint Presentation	
	Module-4	
Planning App	roaches for Special Areas	
Special area pla	anning- definition, types, attributes, requirements, planning process; inner areas, peri	
urban areas iss	ues and planning approaches; Smart City – Concepts, Elements, Features, planning	
approach and s	trategies, policy efforts in India;	
Pedagogy	Chalk and talk method, PowerPoint Presentation	
	Module-5	
Inclusive plan	ning	
Concept and c	omponents, essential dimensions of inclusive planning; growth of informal sector,	
characteristics,	linkages with formal sector, Planning interventions, Inclusive zoning, development and	
building regula	tions, slum improvement	
Pedagogy	Chalk and talk method, PowerPoint Presentation	
Course outcon	ne (Course Skill Set)	
• To illu	strate understanding of theories of structure, form, and processes responsible for the	
growth of urba	n settlements.	
• To sho	w the ability to comprehend approaches to making development plans.	
Assessment De	etails (both CIE and SEE)	
(methods of CIE need to be define topic wise i.e MCQ, Quizzes, Open book test, Seminar or micro		
project)		
The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is		
50%. The student has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35%		
marks of maximum marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total		
of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together.		
Theory Semester End Exam (SEE) is conducted for 100 marks (3 hours' duration) and scaled down to		
50 marks. Based on this grading will be awarded.		
Continuous Internal Evaluation:		
1. Methods su	uggested: Test, Open Book test, Written Quiz, Seminar, report writing etc.	
2. The class teacher has to decide the topic for closed book test, open book test, Written Ouiz and		
Seminar. In the beginning only the teacher has to announce the methods of CIE for the subject.		

Semester End Examination:

Theory SEE will be conducted by University as per scheduled time table, with common question papers for subject

- 1. The question paper will have ten questions. Each question is set for 20 marks. Marks scored out of 100 marks are proportionally reduced to 50 marks.
- 2. There will be 2 questions from each module. Each of the two questions under a module (with a maximum of 3 sub questions), should have a mix of topics under that module.
- 3. The students have to answer 5 full questions, selecting one full question from each module

Text Books and References:

1. Pacione, M. (2001) The Internal Structure of Cities in the Third World, Geography, Vol. 86, No. 3, pp. 189-209.

2. Pacione, M. (2013) Problems and Planning in Third World Cities, Routledge, New York.

3. Shatkin, G. (ed.) (2013) Contesting the Indian City: Global Visions and the Politics of the Local, Wiley, London.

4. Sivaramakrishnan, K. (2013) Re-visioning Indian Cities: The Urban Renewal Mission, Sage, New Delhi.

5. Vidyarthi, S., Mathur, S. and Agrawal, S. (2017) Understanding India's New Approach to Spatial Planning and Development, Oxford University Press, New Delhi.

6. Vidyarthi, S. (2019) Spatial plans in post-liberalization India: Who's making the plans for fastgrowing Indian urban regions? Journal of Urban Affairs, pp. 1-18. DOI: 10.1080/07352166.2018.1527658

Web links and Video Lectures (e-Resources):

- <u>https://smartnet.niua.org/content/8a4b8bf6-4a72-4af7-9671-355c18058d9a</u>
- http://mohua.gov.in/upload/uploadfiles/files/URDPFI%20Guidelines%20Vol%20I(2).pdf
- <u>https://www.yourarticlelibrary.com/planning/basic-elements-of-metropolitan-planning-of-town-and-cities/4697</u>
- <u>https://core.ac.uk/download/pdf/214385568.pdf</u>
- <u>http://www.sapatgramcollegeonline.co.in/attendence/classnotes/files/1589347995.pdf</u>

- Students present on the hierarchy of different plans existing in their native city/choice of their own
- Briefly elaborate their views on existing DPR-Development Plan Regulations and suggests their opinion by critically identification in a presentation

OPEN ELECTIVE – II 2. ENVIRONMENTAL SCIENCE			
Course Code	21PLN67.2	CIE Marks	50
Teaching Hours/Week (L:T:S:P:SM:SS)	2:0:0:0:0:0	SEE Marks	50
Total Hours of Pedagogy	32	Total Marks	100
Credits	2	Exam Hours	3

Course objectives:

• The primary objective of this subject is to expose students to theories of structure, form, and processes responsible for the growth of urban settlements,, and also to comprehend approaches to making development plan

Pedagogy (General Instructions)

These are sample Strategies, which teachers can use to accelerate the attainment of the various course outcomes.

- Lecturer method (L) does not mean only traditional lecture method, but different types of teaching methods may be adopted to develop the outcomes.
- Arrange visits to nearby power plants, receiving stations and substations to give brief information about the electrical power generation.
- Show Video/animation films to explain functioning of various machines
- Encourage collaborative (Group Learning) Learning in the class
- Ask at least three HOTS (Higher order Thinking) questions in the class, which promotes critical thinking
- Adapt Problem Based Learning (PBL), which fosters students Analytical skills, develop thinking skills such as the ability to evaluate, generalize, and analyze information rather than simply recall it.
- Topics will be introduced in a multiple representation.
- Show the different ways to solve the same problem and encourage the students to come up with their own creative ways to solve them.
- Discuss how every concept can be applied to the real world and when that's possible, it helps improve the students' understanding.
- Individual teachers can devise innovative pedagogy to improve the teaching-learning.

Module-1

Ecosystem

Structure of ecosystem, Biotic & Abiotic components; Food chain and food web; Aquatic (Lentic and Lotic) and terrestrial ecosystem; Carbon, Nitrogen, Sulphur, Phosphorus cycle; Global warming - Causes, effects, process, GreenHouse Effect, Ozone depletion.

Pedagogy	Chalk and talk method, PowerPoint Presentation
	Module-2

Air and, Noise Pollution

Definition of pollution and pollutant, Natural and manmade sources of air pollution (Refrigerants, I.C., Boiler); Air Pollutants: Types, Particulate Pollutants: Effects and control (Bag filter, Cyclone separator, Electrostatic Precipitator); Gaseous Pollution Control: Absorber, Catalytic Converter, Effects of air pollution due to Refrigerants, I.C., Boiler; Noise pollution: sources of pollution, measurement of pollution level, Effects of Noise pollution, Noise pollution (Regulation and Control) Rules, 2000.rural-urban interaction; Peri- urban Interface (PUI) case studies Geospatial techniques for analysing city

form, solar po	tential utilization studies, wind flow analysis studies.
Pedagogy	Chalk and talk method, PowerPoint Presentation
	Module-3
Water and Se	oil Pollution
Sources of wa	ter pollution, Types of water pollutants, Characteristics of water pollutants Turbidity, pH,
total suspende	ed solids, total solids BOD and COD: Definition, calculation; WasteWater Treatment:
Primary meth	nods: sedimentation, froth floatation, Secondary methods: Activated sludge treatment,
Trickling filte	r, Bioreactor, Tertiary Method: Membrane separation technology, RO (reverse osmosis);
Causes, Effec	ts and Preventive measures of Soil Pollution: Causes-Excessive use of Fertilizers,
Pesticides and	Insecticides, Irrigation, E-Waste.
Pedagogy	Chalk and talk method, PowerPoint Presentation
	Module-4
Renewable so	ources of Energy
Solar Energy:	Basics of Solar energy. Flat plate collector (Liquid & Air). Theory of flat plate collector.
Importance of	f coating. Advanced collector. Solar pond. Solar water heater, solar dryer. Solar stills;
Biomass: Ove	erview of biomass as energy source. Thermal characteristics of biomass as fuel. Anaerobic
digestion. Bio	gas production mechanism. Utilization and storage of biogas; Wind energy: Current status
and future pro	ospects of wind energy. Wind energy in India. Environmental benefits and the problem of
wind energy;	New Energy Sources: Need of new sources. Different types of new energy sources.
Applications	of (Hydrogen energy, Ocean energy resources, Tidal energy conversion.) Concept, origin
and power pla	ints of geothermal energy
Pedagogy	Chalk and talk method, PowerPoint Presentation
	Module-5
Solid Waste	Management, ISO 14000 & Environmental Management
Solid waste g	generation- Sources and characteristics of: Municipal solid waste, E- waste, biomedical
waste; Metalli	ic wastes and Non-Metallic wastes (lubricants, plastics, rubber) from industries. Collection
and disposal:	MSW (3R, principles, energy recovery, sanitary landfill), Hazardous waste; Air quality act
2004, air pol	lution control act 1981 and water pollution and control act1996. Structure and role of
Central and st	tate pollution control board; Concept of Carbon Credit, Carbon Footprint; Environmental
management in the fabrication industry; ISO14000: Implementation in industries, Benefits	
Pedagogy	Chalk and talk method, PowerPoint Presentation
Course outco	ome (Course Skill Set)
• To ill	ustrate understanding of theories of structure, form, and processes responsible for the
growt	h of urban settlements.
• To sh	ow the ability to comprehend approaches to making development plans.
Assessment I	Details (both CIE and SEE)
(methods of C	CIE need to be define topic wise i.e MCQ, Quizzes, Open book test, Seminar or micro
project)	
The weightag	e of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is
50%. The student has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35%	
marks of maximum marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total	
of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together.
Theory Seme	ster End Exam (SEE) is conducted for 100 marks (3 hours' duration) and scaled down to
50 marks. Based on this grading will be awarded.	
Continuous I	nternal Evaluation:
1. Methods s	uggested: Test, Open Book test, Written Quiz, Seminar, report writing etc.

 The class teacher has to decide the topic for closed book test, open book test, Written Quiz and Seminar. In the beginning only the teacher has to announce the methods of CIE for the subject.

Semester End Examination:

Theory SEE will be conducted by University as per scheduled time table, with common question papers for subject

- 1. The question paper will have ten questions. Each question is set for 20 marks. Marks scored out of 100 marks are proportionally reduced to 50 marks.
- 2. There will be 2 questions from each module. Each of the two questions under a module (with a maximum of 3 sub questions), should have a mix of topics under that module.
- 3. The students have to answer 5 full questions, selecting one full question from each module

Text Books and References:

1. Pacione, M. (2001) The Internal Structure of Cities in the Third World, Geography, Vol. 86, No. 3, pp. 189-209.

2. Pacione, M. (2013) Problems and Planning in Third World Cities, Routledge, New York.

3. Shatkin, G. (ed.) (2013) Contesting the Indian City: Global Visions and the Politics of the Local, Wiley, London.

4. Sivaramakrishnan, K. (2013) Re-visioning Indian Cities: The Urban Renewal Mission, Sage, New Delhi.

5. Vidyarthi, S., Mathur, S. and Agrawal, S. (2017) Understanding India's New Approach to Spatial Planning and Development, Oxford University Press, New Delhi.

6. Vidyarthi, S. (2019) Spatial plans in post-liberalization India: Who's making the plans for fastgrowing Indian urban regions? Journal of Urban Affairs, pp. 1-18. DOI: 10.1080/07352166.2018.1527658

7. Wu, B.S. and Sui, d. (2015) Modelling Impacts of Globalization on Desakota Regions: A case study of Taipei Metropolitan Area, Environment and Planning B: Planning and Design, pp. 1-21, DOI: 10.1177/0265813515605216

Web links and Video Lectures (e-Resources):

- www.eco-prayer.org
- www.teriin.org
- www.cpcp.nic.in
- www.cpcp.gov.in
- www.indiaenvironmentportal.org.in
- www.whatis.techtarget.com
- www.sustainabledevelopment.un.org
- www.conserve-energy-future.com

- Students present on the hierarchy of different plans existing in their native city/choice of their own
- Briefly elaborate their views on existing DPR-Development Plan Regulations and suggests their opinion by critically identification in a presentation

OPEN ELECTIVE – II 3. RESEARCH METHODS IN PLANNING			
Course Code	21PLN67.3	CIE Marks	50
Teaching Hours/Week (L:T:S:P:SM:SS)	2:0:0:0:0:0	SEE Marks	50
Total Hours of Pedagogy	32	Total Marks	100
Credits	2	Exam Hours	3

Course objectives:

• The primary objective of this subject is to expose students to theories of structure, form, and processes responsible for the growth of urban settlements,, and also to comprehend approaches to making development plan

Pedagogy (General Instructions)

These are sample Strategies, which teachers can use to accelerate the attainment of the various course outcomes.

- Lecturer method (L) does not mean only traditional lecture method, but different types of teaching methods may be adopted to develop the outcomes.
- Arrange visits to nearby power plants, receiving stations and substations to give brief information about the electrical power generation.
- Show Video/animation films to explain functioning of various machines
- Encourage collaborative (Group Learning) Learning in the class
- Ask at least three HOTS (Higher order Thinking) questions in the class, which promotes critical thinking
- Adapt Problem Based Learning (PBL), which fosters students Analytical skills, develop thinking skills such as the ability to evaluate, generalize, and analyze information rather than simply recall it.
- Topics will be introduced in a multiple representation.
- Show the different ways to solve the same problem and encourage the students to come up with their own creative ways to solve them.
- Discuss how every concept can be applied to the real world and when that's possible, it helps improve the students' understanding.
- Individual teachers can devise innovative pedagogy to improve the teaching-learning.

Module-1

Urban Structure and Growth

Growth of cities; cities as engines of growth; Land values, economic attributes of location, economic forces in urban development; Structure of City Regions, area of influence, Impact of technology on urban forms; Transportation and urban form; location characteristics and impact of urban settlements

Chalk and talk method. PowerPoint Presentation

Pedagogy

Module-2

Theories of Development and Emerging Concepts

Theories of urban structure and land use- Centre place theory, urban realm model, core frame theory; New urbanism; Territorial Development Theory - Growth pole theory, urban bias critique, secondary cities and urban diffusion; Emerging Rural Urban Relationship models – urban rural linkage,

expanding city	globalisation and extended metropolitan region. Desakota model. Networked model
Territoriality o	f rural-urban interaction: Peri- urban Interface (PUI) case studiesGeospatial techniques
for analysing c	ity form solar potential utilization studies wind flow analysis studies
Pedagogy	Chalk and talk method. PowerPoint Presentation
Teuagogy	Module-3
Planning Nor	ms and Standards and Plan Prenaration Approaches
Spatial standar recreational are Approaches fo Plan; Public Pa System approa	rds for residential, industrial, commercial, institutional, transport, ecological spaces, eas etc.; space standards for facility areas, utilities and networks; performance standards; or preparation of Urban development plans, Master Plans, Structure plans and Strategy articipation and Plan Implementation; Techniques of urban renewal and redevelopment; ach to planning; Threshold analysis, retail location and industrial location analysis;
transport system	m analysis
Pedagogy	Chalk and talk method, PowerPoint Presentation
I	Module-4
Special area pl urban areas iss approach and s	anning- definition, types, attributes, requirements, planning process; inner areas, peri- ues and planning approaches; Smart City – Concepts, Elements, Features, planning strategies, policy efforts in India.
Pedagogy	Chalk and talk method, PowerPoint Presentation
	Module-5
characteristics, building regula	linkages with formal sector, Planning interventions, Inclusive zoning, development and ations, slum improvement
Pedagogy	Chalk and talk method, PowerPoint Presentation
Course outcon•To illugrowth of urba•To sho	ne (Course Skill Set) strate understanding of theories of structure, form, and processes responsible for the n settlements. we the ability to comprehend approaches to making development plans.
Assessment D	etails (both CIE and SEE)
(methods of C	IE need to be define topic wise i.e MCQ, Quizzes, Open book test, Seminar or micro
project) The weightage 50%. The study marks of maxin of the CIE (C Theory Semest 50 marks. Base Continuous Ir	e of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is ent has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% mum marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total Continuous Internal Evaluation) and SEE (Semester End Examination) taken together. ter End Exam (SEE) is conducted for 100 marks (3 hours' duration) and scaled down to ed on this grading will be awarded. hternal Evaluation:
 Methods st The class Seminar. It Semester End Theory SEE w for subject 	uggested: Test, Open Book test, Written Quiz, Seminar, report writing etc. teacher has to decide the topic for closed book test, open book test, Written Quiz and n the beginning only the teacher has to announce the methods of CIE for the subject. Examination: ill be conducted by University as per scheduled time table, with common question papers

100 marks are proportionally reduced to 50 marks.

- 2. There will be 2 questions from each module. Each of the two questions under a module (with a maximum of 3 sub questions), should have a mix of topics under that module.
- 3. The students have to answer 5 full questions, selecting one full question from each module

Text Books and References:

1. Pacione, M. (2001) The Internal Structure of Cities in the Third World, Geography, Vol. 86, No. 3, pp. 189-209.

2. Pacione, M. (2013) Problems and Planning in Third World Cities, Routledge, New York.

3. Shatkin, G. (ed.) (2013) Contesting the Indian City: Global Visions and the Politics of the Local, Wiley, London.

4. Sivaramakrishnan, K. (2013) Re-visioning Indian Cities: The Urban Renewal Mission, Sage, New Delhi.

5. Vidyarthi, S., Mathur, S. and Agrawal, S. (2017) Understanding India's New Approach to Spatial Planning and Development, Oxford University Press, New Delhi.

6. Vidyarthi, S. (2019) Spatial plans in post-liberalization India: Who's making the plans for fastgrowing Indian urban regions? Journal of Urban Affairs, pp. 1-18. DOI: 10.1080/07352166.2018.1527658

7. Wu, B.S. and Sui, d. (2015) Modelling Impacts of Globalization on Desakota Regions: A case study of Taipei Metropolitan Area, Environment and Planning B: Planning and Design, pp. 1-21, DOI: 10.1177/0265813515605216

Web links and Video Lectures (e-Resources):

- <u>https://smartnet.niua.org/content/8a4b8bf6-4a72-4af7-9671-355c18058d9a</u>
- http://mohua.gov.in/upload/uploadfiles/files/URDPFI%20Guidelines%20Vol%20I(2).pdf
- <u>https://www.yourarticlelibrary.com/planning/basic-elements-of-metropolitan-planning-of-town-and-cities/4697</u>
- https://core.ac.uk/download/pdf/214385568.pdf
- <u>http://www.sapatgramcollegeonline.co.in/attendence/classnotes/files/1589347995.pdf</u>

- Students present on the hierarchy of different plans existing in their native city/choice of their own
- Briefly elaborate their views on existing DPR-Development Plan Regulations and suggests their opinion by critically identification in a presentation

OPEN ELECTIVE – II 4. PLACEMENT TRAINING			
Course Code	21PLN67.4	CIE Marks	50
Teaching Hours/Week (L:T:S:P:SM:SS)	2:0:0:0:0:0	SEE Marks	50
Total Hours of Pedagogy	32	Total Marks	100
Credits	2	Exam Hours	3

Course objectives:

• The primary objective of this subject is to expose students to theories of structure, form, and processes responsible for the growth of urban settlements,, and also to comprehend approaches to making development plan

Pedagogy (General Instructions)

These are sample Strategies, which teachers can use to accelerate the attainment of the various course outcomes.

- Lecturer method (L) does not mean only traditional lecture method, but different types of teaching methods may be adopted to develop the outcomes.
- Arrange visits to nearby power plants, receiving stations and substations to give brief information about the electrical power generation.
- Show Video/animation films to explain functioning of various machines
- Encourage collaborative (Group Learning) Learning in the class
- Ask at least three HOTS (Higher order Thinking) questions in the class, which promotes critical thinking
- Adapt Problem Based Learning (PBL), which fosters students Analytical skills, develop thinking skills such as the ability to evaluate, generalize, and analyze information rather than simply recall it.
- Topics will be introduced in a multiple representation.
- Show the different ways to solve the same problem and encourage the students to come up with their own creative ways to solve them.
- Discuss how every concept can be applied to the real world and when that's possible, it helps improve the students' understanding.
- Individual teachers can devise innovative pedagogy to improve the teaching-learning.

	Module-1		
Goal-setting, Personality traits, Staying Positive, Self-motivation, Self-awareness, Learning skills,			
Effective com	munication skills, Time management, Interpersonal skills, Personal grooming, Emotional		
quotient, Body	language, Human Relation, Creativity, Customer Relations Management		
Pedagogy	Chalk and talk method, PowerPoint Presentation		
Module-2			
Team building, Problem solving and decision-making, Leadership skills, Public Speaking, Presentation skills, Negotiating skills, Self- management Cross-culture –communication and Corporate Culture,			

Interview / GD skills, Finance for Non - Finance, Sales training, Business etiquette, Managing stress

Pedagogy	Chalk and talk method, PowerPoint Presentation		
	Module-3		
Guest lecture Organizing A Organizing so skills, Conduc	es: Aptitude training programs to enhance quantitative, verbal, logical & reasoning skills oft-skills training to improve the student's personality, Confidence level, Public Speaking cting Mock Interviews, Group discussions.		
Pedagogy	Chalk and talk method, PowerPoint Presentation		
	Module-4		
Guest lecture Organizing s pursuing high become Entre	es: subject/domain specific Technical Skills Training by Experts. Career counseling for her studies. Organizing entrepreneurship development programs to motivate the Students to epreneurs.		
Pedagogy	Chalk and talk method, PowerPoint Presentation		
	Module-5		
At the end of representative submit a representative submit a representation / sheets shall a assessment.	f the practical training, the students are required to present selected works, which are best e of the training undergone in the form of presentation. The students are also required to port describing various concepts learnt during training, experiences of site visit and costing activities/ DPR preparation and legal reports study etc. Training attendance log also be submitted as part of the report. The report requires to be submitted for internal		
Pedagogy	Chalk and talk method, PowerPoint Presentation		
Course outco • To ill grow • To sh	ome (Course Skill Set) lustrate understanding of theories of structure, form, and processes responsible for the th of urban settlements. now the ability to comprehend approaches to making development plans.		
Assessment	Details (both CIE and SEE)		
(methods of	CIE need to be define topic wise i.e MCQ, Quizzes, Open book test, Seminar or micro		
project) The weightag 50%. The stu marks of max of the CIE (Theory Seme 50 marks. Ba Continuous	ge of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is dent has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% kimum marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together. ester End Exam (SEE) is conducted for 100 marks (3 hours' duration) and scaled down to used on this grading will be awarded. Internal Evaluation:		
 Methods The class Seminar. Semester En Theory SEE for subject The question 	suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc. s teacher has to decide the topic for closed book test, open book test, Written Quiz and In the beginning only the teacher has to announce the methods of CIE for the subject. d Examination: will be conducted by University as per scheduled time table, with common question papers tion paper will have ten questions. Each question is set for 20 marks. Marks scored out of		
100 mark	as are proportionally reduced to 50 marks.		

2. There will be 2 questions from each module. Each of the two questions under a module (with a

maximum of 3 sub questions), should have a mix of topics under that module. The students have to answer 5 full questions, selecting one full question from each module

Text Books and References:

1. Pacione, M. (2001) The Internal Structure of Cities in the Third World, Geography, Vol. 86, No. 3, pp. 189-209.

2. Pacione, M. (2013) Problems and Planning in Third World Cities, Routledge, New York.

3. Shatkin, G. (ed.) (2013) Contesting the Indian City: Global Visions and the Politics of the Local, Wiley, London.

4. Sivaramakrishnan, K. (2013) Re-visioning Indian Cities: The Urban Renewal Mission, Sage, New Delhi.

5. Vidyarthi, S., Mathur, S. and Agrawal, S. (2017) Understanding India's New Approach to Spatial Planning and Development, Oxford University Press, New Delhi.

6. Vidyarthi, S. (2019) Spatial plans in post-liberalization India: Who's making the plans for fastgrowing Indian urban regions? Journal of Urban Affairs, pp. 1-18. DOI: 10.1080/07352166.2018.1527658

Web links and Video Lectures (e-Resources):

- <u>https://smartnet.niua.org/content/8a4b8bf6-4a72-4af7-9671-355c18058d9a</u>
- http://mohua.gov.in/upload/uploadfiles/files/URDPFI%20Guidelines%20Vol%20I(2).pdf
- <u>https://www.yourarticlelibrary.com/planning/basic-elements-of-metropolitan-planning-of-town-and-cities/4697</u>
- https://core.ac.uk/download/pdf/214385568.pdf
- http://www.sapatgramcollegeonline.co.in/attendence/classnotes/files/1589347995.pdf

- Students present on the hierarchy of different plans existing in their native city/choice of their own
- Briefly elaborate their views on existing DPR-Development Plan Regulations and suggests their opinion by critically identification in a presentation

OPEN ELECTIVE – II 5. PROJECT ESTIMATION AND COSTING			
Course Code 21PLN67.5 CIE Marks 50			
Teaching Hours/Week (L:T:S:P:SM:SS)	2:0:0:0:0:0	SEE Marks	50
Total Hours of Pedagogy	32	Total Marks	100
Credits	2	Exam Hours	3

Course objectives:

• The primary objective of this subject is to expose students to theories of structure, form, and processes responsible for the growth of urban settlements,, and also to comprehend approaches to making development plan

Pedagogy (General Instructions)

These are sample Strategies, which teachers can use to accelerate the attainment of the various course outcomes.

- Lecturer method (L) does not mean only traditional lecture method, but different types of teaching methods may be adopted to develop the outcomes.
- Arrange visits to nearby power plants, receiving stations and substations to give brief information about the electrical power generation.
- Show Video/animation films to explain functioning of various machines
- Encourage collaborative (Group Learning) Learning in the class
- Ask at least three HOTS (Higher order Thinking) questions in the class, which promotes critical thinking
- Adapt Problem Based Learning (PBL), which fosters students Analytical skills, develop thinking skills such as the ability to evaluate, generalize, and analyze information rather than simply recall it.
- Topics will be introduced in a multiple representation.
- Show the different ways to solve the same problem and encourage the students to come up with their own creative ways to solve them.
- Discuss how every concept can be applied to the real world and when that's possible, it helps improve the students' understanding.
- Individual teachers can devise innovative pedagogy to improve the teaching-learning.

	Module-1		
Introduction			
Estimating ro	ad map and key success factors; Estimating workbook, Estimating matrix and budget,		
driver worksheet			
Pedagogy	Chalk and talk method, PowerPoint Presentation		
Module-2			
Work Breakdown Structure or WBS			
Relevance, Creating the review WBS, Task and activity in WBS.			
Pedagogy	Chalk and talk method, PowerPoint Presentation		
Module-3			

Phase Major Activity		
Exporting MS Project, Output of MS Project, Predecessor in MS Project, Scheduling formula of MS		
Project		
Pedagogy	Chalk and talk method, PowerPoint Presentation	
	Module-4	
Budgeting an	d Resources	
Type of Budg	geting Task Duration and Phase, Resources and Its Types, Resource Sheet and Resource	
Form Tools, E	Example of Resources	
Pedagogy	Chalk and talk method, PowerPoint Presentation	
	Module-5	
Inclusive pla	nning	
Effort Driven	Scheduling, Example of Effort Driven Scheduling, Team Planner in Ms Project, Bottom	
up estimation	preview, Overview of Project, Overview of MS Project, Resource Over Allocation and	
Overview, Ta	sk Set For Project Planning.	
Pedagogy	Chalk and talk method, PowerPoint Presentation	
Course outco	me (Course Skill Set)	
• To ill	ustrate understanding of theories of structure, form, and processes responsible for the	
growth of urban settlements.		
• To show the ability to comprehend approaches to making development plans.		
Assessment D	Details (both CIE and SEE)	
(methods of CIE need to be define topic wise i.e MCQ, Quizzes, Open book test, Seminar or micro		
project)		
The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is		
50%. The student has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35%		
marks of maximum marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total		
of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together.		

Continuous Internal Evaluation:

50 marks. Based on this grading will be awarded.

- 1. Methods suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc.
- 2. The class teacher has to decide the topic for closed book test, open book test, Written Quiz and Seminar. In the beginning only the teacher has to announce the methods of CIE for the subject.

Theory Semester End Exam (SEE) is conducted for 100 marks (3 hours' duration) and scaled down to

Semester End Examination:

Theory SEE will be conducted by University as per scheduled time table, with common question papers for subject

- 1. The question paper will have ten questions. Each question is set for 20 marks. Marks scored out of 100 marks are proportionally reduced to 50 marks.
- 2. There will be 2 questions from each module. Each of the two questions under a module (with a maximum of 3 sub questions), should have a mix of topics under that module.
- 3. The students have to answer 5 full questions, selecting one full question from each module

Text Books and References:

1. Rad, P. F. (2001). Project estimating and cost management. Berrett-Koehler Publishers.

2. Project Cost Estimating. (1995). United Kingdom: T. Telford.

3. Sweeting, J. (1997). Project Cost Estimating: Principles and Practice. United Kingdom: Institution of Chemical Engineers.

Web links and Video Lectures (e-Resources):

- https://smartnet.niua.org/content/8a4b8bf6-4a72-4af7-9671-355c18058d9a
- http://mohua.gov.in/upload/uploadfiles/files/URDPFI%20Guidelines%20Vol%20I(2).pdf
- <u>https://www.yourarticlelibrary.com/planning/basic-elements-of-metropolitan-planning-of-town</u> <u>and-cities/4697</u>
- <u>https://core.ac.uk/download/pdf/214385568.pdf</u>
- http://www.sapatgramcollegeonline.co.in/attendence/classnotes/files/1589347995.pdf

- Students present on the hierarchy of different plans existing in their native city/choice of their own
- Briefly elaborate their views on existing DPR-Development Plan Regulations and suggests their opinion by critically identification in a presentation.

PHYSICAL EDUCATION (SPORTS & ATHLETICS)/ YOGA/ NSS			
Course Code	21PE69/ 21YO69/ 21NS69	CIE Marks	50
Teaching Hours/Week (L:T:S:P:SM:SS)	0:0:0:2:0:0	SEE Marks	50
Total Hours of Pedagogy	32	Total Marks	100
Credits	-	Exam Hours	-

Course objectives:

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Pedagogy (General Instructions)

These are sample Strategies, which teachers can use to accelerate the attainment of the various course outcomes.

- Lecturer method (L) does not mean only traditional lecture method, but different types of teaching methods may be adopted to develop the outcomes.
- Arrange visits to nearby power plants, receiving stations and substations to give brief information about the electrical power generation.
- Show Video/animation films to explain functioning of various machines
- Encourage collaborative (Group Learning) Learning in the class
- Ask at least three HOTS (Higher order Thinking) questions in the class, which promotes critical thinking
- Adapt Problem Based Learning (PBL), which fosters students Analytical skills, develop thinking skills such as the ability to evaluate, generalize, and analyze information rather than simply recall it.
- Topics will be introduced in a multiple representation.
- Show the different ways to solve the same problem and encourage the students to come up with their own creative ways to solve them.
- Discuss how every concept can be applied to the real world and when that's possible, it helps improve the students' understanding.
- Individual teachers can devise innovative pedagogy to improve the teaching-learning.

Module-1
Pedagogy
Module-2
Pedagogy
Module-3
Pedagogy

Module-4		
Pedagogy		
	Module-5	
Pedagogy		
Course outc	ome (Course Skill Set)	
•		
Assessment	Details (both CIE and SEE)	
(methods of	CIE need to be define topic wise i.e MCQ, Quizzes, Open book test, Seminar or micro	
project)		
The weighta	ge of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is	
50%. The stu	ident has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35%	
marks of max	ximum marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total	
of the CIE	(Continuous Internal Evaluation) and SEE (Semester End Examination) taken together.	
Theory Seme	ester End Exam (SEE) is conducted for 100 marks (3 hours' duration) and scaled down to	
50 marks. Based on this grading will be awarded.		
3 Methods	suggested: Test Open Book test Written Quiz Seminar report writing etc.	
4 The clas	s teacher has to decide the topic for closed book test open book test. Written Quiz and	
Seminar. In the beginning only the teacher has to announce the methods of CIE for the subject		
Semester Er	id Examination:	
Theory SEE will be conducted by University as per scheduled time table, with common question papers		
for subject		
4. The ques	stion paper will have ten questions. Each question is set for 20 marks. Marks scored out of	
100 marl	ks are proportionally reduced to 50 marks.	
5. There w	ill be 2 questions from each module. Each of the two questions under a module (with a	
maximui	n of 3 sub questions), should have a mix of topics under that module.	
o. The stud	ents have to answer 5 full questions, selecting one full question from each module	
Tart Deale and Defenences		
i ext dooks and Kelerences:		

Web links and Video Lectures (e-Resources):

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13.09.2022

SEMESTER VII

	PLANNING STUDIO: REGIONAL PLAN			
	Course Code	21PLN71	CIE Marks	50
	Teaching Hours/Week (L:T:S:P:SM:SS)	0:0:0:10:0:0	SEE Marks	50
	Total Hours of Pedagogy	160	Total Marks	100
	Credits	5	Exam Hours	-
	 Course objectives: The primary objective of this studio preparation of a regional plan, stude substance of a regional plan, types of planning importance. 	is to teach how to prepare a r ents will be taught about the ty of regional plans and nature of	regional plan. Pric pe and nature of 1 projects of regior	or to the regions, nal
	 Pedagogy (General Instructions) These are sample Strategies, which teacher of outcomes. The student is required to visit site a The student is asked to do multiple sunderstanding the Issues. 3. Report .Presentations and Sheets on	can use to accelerate the attain and organizations for the colle surveys for Transportation and final Analysis is to be submit	ment of the varior ection of data I Socio economic ted at the end of t	us course study for he studio.
	Course Contents			
	We begin by understanding the role and relevance of regional planning in the country including the nature of planning at district and sub district level, which would also involve critical appraisal of district and sub district plans. Formulation of goals, objectives, methodology, and identification of data sources, analysis of data available, field surveys and preparation of schedules would form another important step in the preparation of a regional plan. Field work involving visit to the field study area, conduct of field surveys, collection of data from secondary sources, sectorally and block wise is the next step. After coming back from the field, the students would perform a detailed data analysis, identification of potential thrust areas and development issues in each sector and block. Appropriate strategic planning, settlement development pattern, development programmes would be evolved. Regional planning proposals for integrated and balanced development along with desired financial commitments at block level would form a critical part of the regional development plan.			
C	Course outcome (Course Skill Set)			

At the end of the course the student will be able to : 1. To demonstrate knowledge and skills required for the preparation of a regional development plan.

Assessment Details (both CIE and SEE)

(methods of CIE need to be define topic wise i.e.- MCQ, Quizzes, Open book test, Seminar or micro project)

The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The student has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% marks of maximum marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together. Semester End Exam (SEE) is conducted for 100 marks and scaled down to 50 marks. Based on this grading will be awarded.

Continuous Internal Evaluation:

- 1. Methods suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc.
- 2. The class teacher has to decide the topic for closed book test, open book test, Written Quiz and Seminar. In the beginning only the teacher has to announce the methods of CIE for the subject.

Semester End Examination:

Theory SEE will be conducted by University as per scheduled time table, with common question papers for subject

- 1. The question paper will have ten questions. Each question is set for 20 marks. Marks scored out of 100 marks are proportionally reduced to 50 marks.
- 2. There will be 2 questions from each module. Each of the two questions under a module (with a maximum of 3 sub questions), should have a mix of topics under that module.
- 3. The students have to answer 5 full questions, selecting one full question from each module

Suggested Learning Resources:

Books

1. Appiah-Opoku, S. (2010) 'Urban and Regional Planning', in Barney Warf (ed.) Encyclopaedia of Geography, Sage, London. Six Volumes.

2. Calthorpe, P. and Fulton, W. (2001) The Regional City: Planning for the End of Sprawl, Island Press, Washington, D.C.

3. Glasson, J. (1978) An Introduction to Regional Planning: Concepts, Theory and Practice, University of California, Berkeley.

4. Glasson, J. and Marshall, T. (2007) Regional Planning, Routledge, London.

5. Plane, D.A., Mann, L.D., Button, K. and Nijkamp, P. (2007) Regional Planning, Edward Elgar Publishing, Cheltenham.

Web links and Video Lectures (e-Resources):

- <u>http://mohua.gov.in/upload/uploadfiles/files/URDPFI%20Guidelines%20Vol%20I(2).pdf</u>
- https://www.ancpatna.ac.in/departments/geography/lectures/PG%20Sem-IV/M%20A%20IV%20History%20of%20reg%20plng,India%20drbhawna.pdf
- <u>https://www.panchayat.gov.in/spatial-planning</u>

- Site visits/ government and non-governmental organisations for data collection
- Undergoing Primary survey in different sectors for transportation, housing and other sectors.

INTRODUCTI	ON TO REGIONAL PLA	NNING	
Course Code	21PLN72	CIE Marks	50
Teaching Hours/Week (L:T:S:P:SM:SS)	3:0:0:0:0:0	SEE Marks	50
Total Hours of Pedagogy	48	Total Marks	100
Credits	3	Exam Hours	3
 Course objectives: The main objective of this subjective of the idea of a region, its types, of settlements, regional development 	et is to introduce regional pla regional planning models an nent and planning processes.	nning to students by f d techniques, spatial o	ocussing listribution
 These are sample Strategies, which teach outcomes. 1. Lecturer method (L) does not mean of methods may be adopted to develop the 2. Arrange visits to nearby power plants about the electrical power generation. 3. Show Video/animation films to expl 4. Encourage collaborative (Group Leet 5. Ask at least three HOTS (Higher order thinking 6. Adopt Problem Based Learning (PBL skills such as the ability to evaluate, gen 7. Topics will be introduced in a multipl 8. Show the different ways to solve the sown creative ways to solve them. 9. Discuss how every concept can be ap improve the students' understanding. 10. Individual teachers can device the 	ers can use to accelerate the only traditional lecture metho outcomes. , receiving stations and subs lain functioning of various earning) Learning in the class er Thinking) questions in the c), which fosters students An eralize, and analyze informa- le representation. same problem and encourage plied to the real world - and innovative pedagogy to im	attainment of the varie od, but different type of tations to give brief in machines ass class, which promote alytical skills, develop tion rather than simpl e the students to come when that's possible, i	ous course of teaching formation s critical o thinking y recall it. up with the t helps earning.
	Module-1		
Regions and Types of Regions Defining a region, types of regions; D metropolitan region, area of influence Rural-urban fringe, its structure, growth	Delineation of regions; Metri and dominance, shadow and implications.	opolitan region, struc regions; Trickle dow	cture of a n effects;
Pedagogy Chalk and talk method, Pc	owerPoint Presentation		
	Module-2		
Spatial Distribution of Settlements Settlement in regional; context; spatial in Place Theory; Characteristic of rural inequalities; Regional interaction: Ran theory; Regional networks.; Gravity mo institutional scalogram	nodels of location, size and – urban fringe; rural– ur k Size Rule, Settlement p odel, classification of settler	spacing of settlement ban continuum; inter atterns and analysis; nents; Delineation of	s; Central - urban Loschian Regions,

Ped	agogy	Chalk and talk method. PowerPoint Presentation		
Itu	agogy	Module-3		
Dog	rianal Day	valonment		
Reg	vional dev	elopment: Balanced and unbalanced development: Underdevelopment: Regional		
mul	tiplier, inp	put-output model; Cumulative causation theory; Core-periphery model; Growth poles		
and	centers; F	Regional planning projects such as corridor development, road development projects,		
port	t developn	nent projects, airports and metro rail projects, etc		
Ped	agogy	Chalk and talk method, PowerPoint Presentation		
		Module-4		
Pla	nning Pro	DCesses		
Reg	ional plan	nning processes: Identification of plan objectives; collection, classification and analysis		
of d	lata; Norn	ns and standards for regional planning; Formulation of alternative plan proposals with		
resp	pect to po	pulation distribution, location of new regional economic activities, infrastructure, plan		
1mp	lementatio	on, etc.; Selected case studies in regional development.		
Ped	agogy	Chalk and talk method, PowerPoint Presentation		
	8 80			
		Module-5		
Kur Vill	Rural Planning			
Tra	Trans humane, accessibility of village, inter village communication, delivery of social services			
rura	rural reconstruction and related programmes improvement of rural sanitation, bygiene and			
drai	drainage: panchayat rai institutions: district block and village administration. Rural Planning in			
Rela	ation to N	ational and Regional Policies.		
Ped	Bodogoogy Chalk and talk method PowerPoint Presentation			
Cours		a (Course Skill Set)		
Cours	e outcom	e (Course Skin Set)		
At the	end of the	e course the student will be able to :		
	T 1			
•	10 dem	onstrate knowledge and skills about regions and their types, regional planning models		
To analyze spatial distribution of sattlements, status of regional development and nature of				
• 10 analyse spatial distribution of settlements, status of regional development and nature of planning processes				
Assessment Details (both CIE and SEE)				
(methods of CIE need to be define topic wise i.e MCO. Ouizzes. Open book test. Seminar or micro				
project)				
The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is				
50%. The student has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35%				
marks of maximum marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total				
of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together.				
Theory	y Semeste	r End Exam (SEE) is conducted for 100 marks (3 hours' duration) and scaled down to		
50 mai	50 marks. Based on this grading will be awarded.			
Continuous Internal Evaluation:

- 1. Methods suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc.
- 2. The class teacher has to decide the topic for closed book test, open book test, Written Quiz and Seminar. In the beginning only the teacher has to announce the methods of CIE for the subject.

Semester End Examination:

Theory SEE will be conducted by University as per scheduled time table, with common question papers for subject

- 1. The question paper will have ten questions. Each question is set for 20 marks. Marks scored out of 100 marks are proportionally reduced to 50 marks.
- 2. There will be 2 questions from each module. Each of the two questions under a module (with a maximum of 3 sub questions), should have a mix of topics under that module.
- 3. The students have to answer 5 full questions, selecting one full question from each module

Suggested Learning Resources:

Books

1. Glasson, J. (1978) An Introduction to Regional Planning: Concepts, Theory and Practice, University of California, Berkeley.

2. Glasson, J. and Marshall, T. (2007) Regional Planning, Routledge, London University Press, New Delhi.

33. Mishra, R.P., Sundaram, K.V. and Prakasa Rao, V.L.S. (1974) Regional Development Planning in India: A New Strategy, Rawat, Jaipur.

4. Misra, R.P. (1978) Regional Development Planning in India: A New Strategy, Vikas Publishing House, New Delhi.

5. Plane, D.A., Mann, L.D., Button, K. and Nijkamp, P. (2007) Regional Planning, Edward Elgar Publishing, Cheltenham.

6. Routra, J.K. (1993) Urban and regionaln practice in India, Habitat International, Vol. 17, Issue 3, pp. 55-74,

Web links and Video Lectures (e-Resources):

- https://www.econstor.eu/bitstream/10419/230319/1/manuscript-Core-Periphery-Model.pdf
- <u>https://swayam.gov.in/</u>
- https://www.nicdc.in/about-DMICDC
- •

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

- A site study to be made to understand process involved in the delineation of the region
- A literature study on corridor development, road development projects, port development projects, airports and metro rail projects.

PLANNING LEGISLATION – I				
Course Code	21PLN73	CIE Marks	50	
Teaching Hours/Week (L:T:S:P:SM:SS)	3:0:0:0:0:0	SEE Marks	50	
Total Hours of Pedagogy	48	Total Marks	100	
Credits	3	Exam Hours	3	
Course objectives:				
• This is an introductory course	to understand the basic con	cepts of law ar	id relevant	
constitutional provisions for urba	an and regional planning. The	is course will e	expose the	
students to urban and regional plan	ining statutes and legal framework	orks for land acqu	isition and	
development.				
Pedagogy (General Instructions) These are sample Strategies, which teachers can use to accelerate the attainment of the various course outcomes.				
1. Lecturer method (L) does not r	mean only traditional lecture me	ethod, but differen	nt type of	
2 Arrange visite to pearby power	ied to develop the outcomes.	ubstations to give	briof	
2. All ange visits to hear by power information about the electrica	plants, receiving station and st	iostations to give	UTICI	
3 Show Video/animation films	to evolution functioning of vari	ous machines		
4. Encourage collaborative (Gr	oun Learning) Learning in th	e class		
5. Ask at least three HOTS (High	her order Thinking) questions in	the class, which	promotes	
6 Adopt Problem Based Learnin	g (PBL) which fosters students	Analytical skills	develop	
thinking skills such as the abili	ity to evaluate, generalize, and	analyze informati	on rather	
than simply recall it.				
7. Topics will be introduced in a	multiple representation.			
8. Show the different ways to sol	ve the same problem and encou	rage the students	to come	
up with their own creative way	vs to solve them.	C		
9. Discuss how every concept car	n be applied to the real world -	and when that's p	ossible, it	
helps improve the students' une	derstanding.			
10. Individual teachers can devic	ce the innovative pedagogy to	improve the tead	ching-	
learning.				
Module-1				
Concept of Law				
Sources of law including custom, legislation	on and precedent; Meaning of t	he term of law, le	gislation,	
ordinance, bill, act, regulations and byela	ws; Significance of law and its	s relationship to u	irban and	
 regional planning; Benefits of statutory ba	icking for planning at all levels.			
Pedagogy Chalk and talk method, Pow	erPoint Presentation			
	Module-2			
Indian Constitution				
Concepts and contents of the Indian Co	onstitution, article 21; Rights	and their implica	ations for	
planning; Fundamental provisions regard	ling property rights; Overview	w of legal tools	connected	
with urban and regional planning and development; Model town planning laws.				
PedagogyChalk and talk method, P	PowerPoint Presentation			

	Module-3		
Statutory F Evolution of and 74th am developmen	ramework for Planning and Development Law Town planning legislation, town planning laws, town planning as a state subject; 73rd endment and its implications for planning law; Current amendments in planning and t laws; Related laws such as environment and infrastructure laws.		
Pedagogy	Chalk and talk method, PowerPoint Presentation		
	Module-4		
Statutory F Laws related domain, poli parties in dis	ramework for Land Acquisition and Assembly d to land assembly by public and private parties; Land acquisition legislations, eminent ce powers and concept of public purpose; Case studies highlighting nature of contentions, spute and decisions in specific planning disputes.		
Pedagogy	Chalk and talk method, PowerPoint Presentation		
	Module-5		
Legislation:Model TowrActs, Slum ICataloguing	Urban Planning and Country Planning Acts, Urban Development Authority Acts, Housing Board mprovement Acts etc. Inventory of different statutes pertinent to urban affairs; of urban statutes across different aspects of urban planning.		
Pedagogy	Chalk and talk method, PowerPoint Presentation		
At the end of th To den To sho town p To sho To exa	he course the student will be able to : honstrate knowledge about sources of law and basic terminologies in law. how knowledge about the implications of relevant articles of the Constitution of India on lanning. w understanding about the statutory nature of town and country planning. how include analyse specific case laws on land, planning and development		
Assessment De (methods of C	etails (both CIE and SEE) IE need to be define topic wise i.e MCQ, Quizzes, Open book test, Seminar or micro		
project) The weightage 50%. The stude marks of maxin of the CIE (C Theory Semest 50 marks. Base	of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is ent has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% num marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total ontinuous Internal Evaluation) and SEE (Semester End Examination) taken together. er End Exam (SEE) is conducted for 100 marks (3 hours' duration) and scaled down to d on this grading will be awarded.		
Continuous In 1. Methods 2. The class Seminar. Semester End Theory SEE way for subject	ternal Evaluation: suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc. s teacher has to decide the topic for closed book test, open book test, Written Quiz and In the beginning only the teacher has to announce the methods of CIE for the subject. Examination: ill be conducted by University as per scheduled time table, with common question papers		

- 1. The question paper will have ten questions. Each question is set for 20 marks. Marks scored out of 100 marks are proportionally reduced to 50 marks.
- 2. There will be 2 questions from each module. Each of the two questions under a module (with a maximum of 3 sub questions), should have a mix of topics under that module.
- 3. The students have to answer 5 full questions, selecting one full question from each module

Suggested Learning Resources:

Books

1. Lakshimikanth, M. (2007) Indian Polity, Tata McGraw Hill, New Delhi.

2. Bhattacharya, M. (2001) New Horizons of Public Administration, Jawahar Publishers and Distributors, Gurgaon.

3. Needham, B. (2006) Planning, Law and Economics: An investigation in the rules we make for using land, Routledge, London.

4. McAuslan, P. (2019) Bringing the Law Back In: Essays in Land, Law and Development, Routledge, London.

Web links and Video Lectures (e-Resources):

- https://nhb.org.in/wp-content/uploads/2017/03/Land-Acquisition-vs.-Land-Pooling.pdf
- http://mohua.gov.in/cms/acts.php
- http://mohua.gov.in/upload/uploadfiles/files/NCRPB%20Act%201985.pdf
- <u>https://unhabitat.org/sites/default/files/2020/09/rules_of_the_game8_0.pdf</u>

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

- A presentation/literature study on the critical analysis of the bye laws
- A discussion on Arbitrators and their role.

DISSERTATION	AND TRAINING SEM	IINAR	
Course Code	21PLN74	CIE Marks	50
Teaching Hours/Week (L:T:S:P:SM:SS)	0:0:3:0:0:0	SEE Marks	50
Total Hours of Pedagogy	48	Total Marks	100
Credits	3	Exam Hours	-
 Course objectives: The main objective of dissertation is t planning issue through literature revie 	o prepare students to de w.	velop an understandin	g around a
 Pedagogy (General Instructions) These are sample Strategies, which teachers can use to accelerate the attainment of the various course outcomes. The student is required to visit site and organizations for the collection of data The student is asked to do multiple surveys for Transportation and Socio economic study for understanding the Issues. Report .Presentations and Sheets on final Analysis is to be submitted at the end of the studio. 			
	Module-I		
develop competencies for critically examining a topic of their interest and presenting it credibly before the faculty. This is also a preparatory stage for the students to get enough knowledge and skills for carrying out a thesis project of their choice. Furthermore, the purpose is also to take students from a point at which they have general ideas about their topic for undertaking thesis project and develop research questions, structure, research strategy and present critical analysis of			
existing inerature on a topic of their interest.	Andula II		
Tusining	viodule -11		
Training Each student shall undertake Training in a planning (or related) office during summer vacation between the Sixth and Seventh semester. The period of Training will be six weeks. The exact period and place of training will be decided in consultation with the Coordinator-in-charge of training. The objective of Training is to expose the students to live planning projects and working environments in planning offices.			
Ν	Iodule- III		
Training Seminar Detailed guidelines for the training seminar coordinator.	presentation will be pr	ovided by the Trainin	ng
Course outcome (Course Skill Set)			
 At the end of the course the student will be able 1. To develop knowledge about how to topic. 2. To identify different perspectives on a particular different perspectives. 	to : systematically organize articular research topic.	ideas for a particula	ar research
5. To examine and analyse critically literat	ure on a particular resear	ren topie.	

Assessment Details (both CIE and SEE)

(methods of CIE need to be define topic wise i.e.- MCQ, Quizzes, Open book test, Seminar or micro project)

The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The student has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% marks of maximum marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together. Semester End Exam (SEE) is conducted for 100 marks and scaled down to 50 marks. Based on this grading will be awarded.

Continuous Internal Evaluation:

- 1. Methods suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc.
- 2. The class teacher has to decide the topic for closed book test, open book test, Written Quiz and Seminar. In the beginning only the teacher has to announce the methods of CIE for the subject.

Semester End Examination:

Theory SEE will be conducted by University as per scheduled time table, with common question papers for subject

- 1. The question paper will have ten questions. Each question is set for 20 marks. Marks scored out of 100 marks are proportionally reduced to 50 marks.
- 2. There will be 2 questions from each module. Each of the two questions under a module (with a maximum of 3 sub questions), should have a mix of topics under that module.
- 3. The students have to answer 5 full questions, selecting one full question from each module

Suggested Learning Resources:

Books

- 1. Healey, P. and Silva, E. (2015) The Routledge Handbook of Planning Research Methods, Routledge, New York.
- 2. McVoy, B.T. and Machi, A.L. (2009) The Literature Review: Six Steps to Success, Corwin Press.
- 3. Flyvbjerg, B., Landman, T. and Schram, S (eds.) (2012) Real Social Science, Cambridge University Press, Cambridge.
- 4. White, P. (2017) Developing Research Questions, Second Edition, Macmillan International, New York.
- 5. Ward, K. (2020) Researching the City: A Guide for Students, Sage, New York.

Web links and Video Lectures (e-Resources):

- <u>https://www.scribbr.com/category/dissertation/</u>
- <u>https://ora.ox.ac.uk/</u>
- <u>https://www.jstor.org/</u>
- <u>https://www.worldbank.org</u>

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

• A couple of research papers can be discussed in the classroom session to give a broader idea on selection of dissertation topics.

PROFES 1. LANDSCAE	PROFESSIONAL ELECTIVE IV 1. LANDSCAPE PLANNING AND DESIGN				
Course Code	21PLN75.1	CIE Marks	50		
Teaching Hours/Week (L:T:S:P:SM:SS)	2:0:0:0:0:1	SEE Marks	50		
Total Hours of Pedagogy	48	Total Marks	100		
Credits	2	Exam Hours	3		
 Course objectives: To sensitize students to the idea of environments. 	landscape and nature when des	igning and shapir	ıg built		
Pedagogy (General Instructions) These are sample Strategies, which teacher outcomes.	can use to accelerate the attain	ment of the vario	us course		
 Lecturer method (L) does not mean teaching methods may be adopted Arrange visits to nearby power pla information about the electrical po 	n only traditional lecture metho to develop the outcomes. nts, receiving station and substa	d, but different ty ations to give brie	pe of f		
3 Show Video (animation films to a	wer generation.	machinas			
5. Show Video/animation mins to e	Loorning) Loorning in the ele	machines			
 5. Ask at least three HOTS (Higher o critical thinking 	 Encourage collaborative (Group Learning) Learning in the class Ask at least three HOTS (Higher order Thinking) questions in the class, which promotes critical thinking 				
 Adopt Problem Based Learning (P thinking skills such as the ability to simply recall it. 	6. Adopt Problem Based Learning (PBL), which fosters students Analytical skills, develop thinking skills such as the ability to evaluate, generalize, and analyze information rather than simply recall it.				
7. Topics will be introduced in a mult	tiple representation.				
8. Show the different ways to solve the	ne same problem and encourage	e the students to c	ome up		
with their own creative ways to sol	lve them.				
9. Discuss how every concept can be	applied to the real world - and	when that's possib	ole, it		
helps improve the students' unders	tanding.		<u>.</u>		
10. Individual teacher can device the	e innovative pedagogy to impr	ove the teaching	-learning.		
	Module-1				
Introduction to Landscape Landscape as an outcome of natural processes; Humans' evolving relationship with nature and its expression in the designed landscape; A comparative study of the major traditions of landscape design in the east and west with regards to principles and techniques of design with landform, water and vegetation; Utopias: a new vision based on equitable distribution of open spaces.					
Pedagogy Chalk and talk method, Pow	Pedagogy Chalk and talk method, Power Point Presentation				
	Module-2				
Place Making Evolution of Public places including the Relevance of heritage districts and prec Transformation of nature of community re	ir typology, size, nature, distri cincts in the modern city; De ecreation and its impact on form	bution in the urb sign of urban str n of cities	an realm; reetscape;		

Pedagogy	Chalk and talk method, Power Point Presentation			
	Module-3			
Landscape P Classification each of these components.	Landscape Planning (Regional level, Urban and Zonal Scale) Classification of green spaces at each planning level; Distinguishing the components of landscape at each of these levels; Exercises related to the current studio problem to better address landscape components.			
Pedagogy	Pedagogy Chalk and talk method, Power Point Presentation			
	Module-4			
Site Planning Principles of constraints ar of a site plan,	analysis and assessment of existing landscape; Design proposals to respond to ad opportunities offered by the site; Study of open space structure as a basic component and process of arriving at a landscape concept;			
Pedagogy	Chalk and talk method, Power Point Presentation			
	Module-5			
Landscape er Plants and consideration	Landscape Design Aspects Landscape engineering: levels and grading including principles of cut and fill alignment, drainage; Plants and design: environmental benefits of planting, functional requirements, aesthetic considerations; Typical situations and criteria for design with plants and selection of species.			
Pedagogy	Chalk and talk method, Power Point Presentation			
 To invest To apply To deve scenario 	stigate the role of nature in enhancing quality of life in urban settings. y landscape tools in design and planning of urban spaces. lop the sensibility towards nature-inclusive development in complex urban and regional bs.			
Assessment Det	tails (both CIE and SEE)			
(methods of CII	E need to be define topic wise i.e MCQ, Quizzes, Open book test, Seminar or micro			
project) The weightage of 50%. The studen marks of maxim of the CIE (Co Semester End E grading will be a	of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is at has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% um marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total ontinuous Internal Evaluation) and SEE (Semester End Examination) taken together. Exam (SEE) is conducted for 100 marks and scaled down to 50 marks. Based on this awarded.			
 Continuous Int Methods s The class Seminar. 1 	 Continuous Internal Evaluation: Methods suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc. The class teacher has to decide the topic for closed book test, open book test, Written Quiz and Seminar. In the beginning only teacher has to announce the methods of CIE for the subject. 			
Semester End I Theory SEE wil for subject	Examination: I be conducted by University as per scheduled time table, with common question papers			
1. The question 100 marks	1. The question paper will have ten questions. Each question is set for 20 marks. Marks scored out of 100 marks are proportionally reduced to 50 marks.			

2. There will be 2 questions from each module. Each of the two questions under a module (with a

- maximum of 3 sub questions), should have a mix of topics under that module.
- 3. The students have to answer 5 full questions, selecting one full question from each module

Suggested Learning Resources: Books

11. Guha, R. (2000) Environmentalism: A Global History, Longman, New York.

2. Shaheer, M., Dua, D.W. and Pal, A. (2013) Landscape Architecture in India: A Reader, Journal of Landscape Architecture, LA.

- 3. Beatley, T. (2011) Biophilic cities: integrating nature into urban design and planning
- 4. Island Press, Washington.

5. McHarg, I. (1995) Design with Nature, Wiley, New Jersey.

6. Aruninta, A. (2016) Landscape Architectural Design and Construction Technology, Alpha Science International, Oxford.

7. Robinson, N. (2011) The Planting Design Handbook, Routledge, New York

Web links and Video Lectures (e-Resources):

- <u>https://www.sciencedirect.com/topics/earth-and-planetary-sciences/landscape-planning</u>
- <u>https://www.euro.who.int/_data/assets/pdf_file/0010/342289/Urban-Green-Spaces_EN_WHO_web3.pdf%3Fua=1</u>
- <u>https://dors.dk/files/media/publikationer/faglige_indlaeg/classification_and_valuation_of_urban_green_spaces_0.pdf</u>
- https://india.ul.com/download-resources/national-building-code/

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

- Understanding the Design of plazas
- Study on various species and site analysis

PROFESSIONAL ELECTIVE IV 2. HERITAGE, RENEWAL AND REDEVELOPMENT				
Course Code 21PLN75.2 CIE Marks 50				
Teaching Hours/Week (L:T:S:P:SM:SS)	2:0:0:0:1	SEE Marks	50	
Total Hours of Pedagogy	48	Total Marks	100	
Credits	2	Exam Hours	3	

Course objectives:

• The key objective of this subject is to comprehend heritage, its renewal and redevelopment in the Indian context and relate it to the context of planning

Pedagogy (General Instructions)

These are sample Strategies, which teacher can use to accelerate the attainment of the various course outcomes.

- 1. Lecturer method (L) does not mean only traditional lecture method, but different type of teaching methods may be adopted to develop the outcomes.
- 2. Arrange visits to nearby power plants, receiving station and substations to give brief information about the electrical power generation.
- 3. Show Video/animation films to explain functioning of various machines
- 4. Encourage collaborative (Group Learning) Learning in the class
- 5. Ask at least three HOTS (Higher order Thinking) questions in the class, which promotes critical thinking
- 6. Adopt Problem Based Learning (PBL), which fosters students Analytical skills, develop thinking skills such as the ability to evaluate, generalize, and analyze information rather than simply recall it.
- 7. Topics will be introduced in a multiple representation.
- 8. Show the different ways to solve the same problem and encourage the students to come up with their own creative ways to solve them.
- 9. Discuss how every concept can be applied to the real world and when that's possible, it helps improve the students' understanding.
- 10. Individual teacher can device the innovative pedagogy to improve the teaching-learning.

Module-1			
Introduction to) Heritage/ Urban redevelopment / renewal		
Urban redeve	Urban redevelopment / renewal /reconstruction / regeneration - definitions and distinctions; Urban		
redevelopme	redevelopment as a part of urban plan; Identification of areas to be redeveloped;. Conservation,		
rehabilitation	rehabilitation and redevelopment – the interrelationship. Overview and introduction of the basic		
concepts of heritage and conservation; Values, attitudes and principles for judging the conservation			
importance of sites, areas and related typology; scope and basic technique of urban conservation			
Pedagogy Chalk and talk method, Power Point Presentation			
Module-2			

Urban Renewal Overview and introduction of the basic concepts of urban renewal; parameters for identification of urban renewal areas; conservation, rehabilitation and redevelopment, Urban renewal policies and programmes in India; Critical appraisal of conservation, renewal and redevelopment projects,				
Pedagogy	Chalk and talk method, Power Point Presentation			
	Module-3			
Legal and Institutional Framework for Conservation, Renewal and Redevelopment Legal and administrative aspects, archaeological acts and charters pertaining to conservation, renewal and redevelopment; organisations at central, state and local level responsible components.				
Pedagogy	Chalk and talk method, Power Point Presentation			
	Module-4			
Economic and Social Aspects Economic and social implications of urban renewal programs, mobilization of resources; incentive zoning - management of urban renewal areas; social aspects of urban renewal projects, gentrification, displacement.				
Pedagogy	Chalk and talk method, Power Point Presentation			
	Module-5			
Housing Redevelopment Issues of old, dilapidated, vacant stock; Infrastructure inserts in old city area and augmentation of services; land management; FSI utilisation and re-densification/DE densification issues; socio- economic issues; gentrification and de-gentrification; public Participation; Convergence of government schemes.				
Pedagogy	Chalk and talk method, Power Point Presentation			
Course outcome (Course Skill Set)				
At the end of the course the student will be able to :				
 To develop sensitivity to heritage resources as a planner. To show understanding about how to define heritage resources. To demonstrate knowledge about interface of heritage and planning 				

Assessment Details (both CIE and SEE)

(methods of CIE need to be define topic wise i.e.- MCQ, Quizzes, Open book test, Seminar or micro project) The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The student has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% marks of maximum marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together. Semester End Exam (SEE) is conducted for 100 marks and scaled down to 50 marks. Based on this grading will be awarded.

Continuous Internal Evaluation:

- 1. Methods suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc.
- 2. The class teacher has to decide the topic for closed book test, open book test, Written Quiz and Seminar. In the beginning only teacher has to announce the methods of CIE for the subject.

Semester End Examination:

Theory SEE will be conducted by University as per scheduled time table, with common question papers for subject

- 1. The question paper will have ten questions. Each question is set for 20 marks. Marks scored out of 100 marks are proportionally reduced to 50 marks.
- 2. There will be 2 questions from each module. Each of the two questions under a module (with a maximum of 3 sub questions), should have a mix of topics under that module.
- 3. The students have to answer 5 full questions, selecting one full question from each module

Suggested Learning Resources: Books

1. Doustaly, C. (ed.) (2020) Heritage, Cities and Sustainable Development: Interdisciplinary Approaches and International Case Studies, P.I.E-Peter Lang S.A., Éditions Scientifiques Internationales, Paris.

2. Kalman, H. (2014) Heritage Planning: Principles and Process, Routledge, New York.

3. CPWD, Conservation Manual

4. Labadi, S. (2015) Urban Heritage, Development and Sustainability,: International Frameworks, National and Local Governance, Routledge, New York.

5. Rodwell, D. (2007) Conservation and Sustainability in Historic Cities, Wiley-Blackwell, Oxford.

Web links and Video Lectures (e-Resources):

- https://idd.karnataka.gov.in/storage/pdf-files/23.Prefea_Rejuvanance.pdf
- https://www.mcgill.ca/mchg/student/neighborhood/chapter1
- <u>http://www.itpi.org.in/pdfs/apr07_08.pdf</u>

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

• Case study on understanding the strategies that the government adopted in revitalizing the urban area and also to present the limitations and shortcomings in the project.

	PROFESSIONAL ELECTIVE -IV 3. WATER RESOURCE MANAGEMENT				
Course Code		21PLN75.3	CIE Marks	50	
Teaching Hour	s/Week (L:T:S:P:SM:SS)	2:0:0:0:0:1	SEE Marks	50	
Total Hours of	Pedagogy	48	Total Marks	100	
Credits		2	Exam Hours	3	
Course object To a refer to the star socioeconomic management of	ives: develop the ability of the st tutory provisions of preven aspects of surface and gr f urban water and interpret	udents to profile the scenario of ting water pollution, assess the ound water management, list t the dynamics of water trading an	water critical urb techno - environ he demand and s and water pricing.	ban habitat, mental and supply side	
 Pedagogy (Ger These are samp outcomes. 1. Lecture teachin 2. Arrang inform 3. Show V 4. Encou 5. Ask at critical 6. Adopt thinkin simply 7. Topics 8. Show t with th 9. Discus helps in 10. Individe 	neral Instructions) ble Strategies, which teached er method (L) does not m ing methods may be adopted ge visits to nearby power p ation about the electrical po Video/animation films to or rage collaborative (Group eleast three HOTS (Higher thinking Problem Based Learning ing skills such as the ability recall it. will be introduced in a mut the different ways to solve eir own creative ways to solve show every concept can improve the students' underse dual teacher can device th	r can use to accelerate the attain hean only traditional lecture me to develop the outcomes. lants, receiving station and sub- ower generation. explain functioning of various b Learning) Learning in the cla er order Thinking) questions in (PBL), which fosters students to evaluate, generalize, and ana ltiple representation. the same problem and encoura- olve them. be applied to the real world - standing. e innovative pedagogy to impr	ment of the vario ethod, but differe stations to give b machines ass the class, which s Analytical skil lyze information age the students t and when that's p rove the teaching	us course ent type of rief n promotes ls, develop rather than o come up possible, it -learning.	
Introduction		Middule-1			
Sources and U Health and en	Sources and Uses of water (primary, secondary and tertiary sector uses); Concept of virtual water; Health and environmental concerns of availability and quality of water resources.				
Pedagogy	Chalk and talk method, Pov	werPoint Presentation			
		Module-2			
Crisis in Wate Water crisis an of water sharin	er Resources and water stress; Protection of ang.	of aquifers; Water rights and its	legal implications	s; Politics	
Pedagogy	Chalk and talk method,	PowerPoint Presentation	_		
		Module-3			
Legislation on Statutes govern water resources	Water hing water resources; Legisl S.	lation for preventing water pollu	tion; Institutions	managing	

Pedagogy	Chalk and talk method, PowerPoint Presentation		
	Module-4		
Water Resourc	Water Resource Augmentation		
Infrastructure for	or annual and multi-year flow regulation, multi-purpose storage; Protection of water		
quality and wa	ter source; An overview of dam projects; desalination techniques; modern water		
augmentation te	augmentation techniques.		
Pedagogy	Pedagogy Chalk and talk method, PowerPoint Presentation		
	Module-5		
Water Manage	ment Strategies		
Integrated surfa	Integrated surface and groundwater management from socio – economic and techno – environmental		
perspectives; A conservation me	perspectives; An overview of inter territorial water sharing; Water demand management, Water conservation measures; An overview of water trading, security, auditing and pricing.		
Pedagogy	Pedagogy Chalk and talk method, PowerPoint Presentation		
Course outcome (

Course outcome (Course Skill Set)

At the end of the course the student will be able to :

- Various components of hydrologic cycle that affect the movement of water in the earth
- Understand the institutional system under the water supply
- Apply various techniques securing the water for the future purpose.

Assessment Details (both CIE and SEE)

(methods of CIE need to be define topic wise i.e.- MCQ, Quizzes, Open book test, Seminar or micro project)

The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The student has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% marks of maximum marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together. Theory Semester End Exam (SEE) is conducted for 100 marks (3 hours' duration) and scaled down to 50 marks. Based on this grading will be awarded.

Continuous Internal Evaluation:

- 1. Methods suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc.
- 2. The class teacher has to decide the topic for closed book test, open book test, Written Quiz and Seminar. In the beginning only the teacher has to announce the methods of CIE for the subject.

Semester End Examination:

Theory SEE will be conducted by University as per scheduled time table, with common question papers for subject

- 1. The question paper will have ten questions. Each question is set for 20 marks. Marks scored out of 100 marks are proportionally reduced to 50 marks.
- 2. There will be 2 questions from each module. Each of the two questions under a module (with a maximum of 3 sub questions), should have a mix of topics under that module.
- 3. The students have to answer 5 full questions, selecting one full question from each module

Suggested Learning Resources:

Books

1. Water Resources Planning and Management, R. Quenth Grafton and Karen Hussey, Cambridge University Press, 2011

2. Geography of Water Resources, R.K. Gurjar, Rawat Publications,

3. Water Resource System Planning and Management, Sharad Kumar Jain and Vijay Pratap Singh, Elsevier, 2012

4. Water Resources Management: Principles, Regulations, and Cases, Neil S. Grigg

5. Water Resources and Development, Clive Agnew and Philip Woodhouse, Routledge, 2011

6. Role of Technology in Water Resources Planning and Management, Perez, Elizabeth M. (Ed.), Virginia ASCE, 2009

7. Integrated Water Resources Management, Miguel A. Marino, International Association of Hydrological Sciences, 2001

8. Water Law, Poverty and Development: Water Sector Reforms in India, Cullet Philippe, Oxford University Press

Web links and Video Lectures (e-Resources):

https://www.worldbank.org/en/topic/waterresourcesmanagement#1 https://repositorio.cepal.org/bitstream/handle/11362/39542/1/FOCUSIssue4Oct-Dec2015.pdf

https://www.iucn.org/downloads/iwrm a new_way_forward_1.pdf

https://www.ircwash.org/sites/default/files/210-96WA-17543.pdf

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

- A literature study on different cities about the water resources management to learn new techniques adopted by the cities.
- An activity is given to them to learn national and international journals to understand the importance of water resources.

PROFES A SUSTAINAR	SIONAL ELECTIVE -IV	/ MENT	
4. SUSTAINAL Course Code	21PLN75 4	CIE Marks	50
Teaching Hours/Week (L:T:S:P:SM:SS)	2:0:0:0:0:1	SEE Marks	50
Total Hours of Pedagogy	48	Total Marks	100
Credits	2	Exam Hours	3
 Course objectives: Sustainable Urban Development policy and practice of sustainable sustainable urbanism as both an national and local scales. 	will provide a rigorous a ale urban development. T interdisciplinary and mu	nd critical understand The course exposes s ltidisciplinary subject	ling of students at glo
 Pedagogy (General Instructions) These are sample Strategies, which teacher outcomes. Lecturer method (L) does not teaching methods may be add Arrange visits to nearby powinformation about the electric Show Video/animation films Encourage collaborative (G Ask at least three HOTS (Hig critical thinking Adopt Problem Based Learnit thinking skills such as the ab than simply recall it. Topics will be introduced in a Show the different ways to sup with their own creative wa Discuss how every concept ca helps improve the students' un topication. 	can use to accelerate the a mean only traditional lect opted to develop the outcor wer plants, receiving stati- cal power generation. s to explain functioning o roup Learning) Learning gher order Thinking) quest ng (PBL), which fosters s ility to evaluate, generaliz a multiple representation. olve the same problem and sys to solve them. an be applied to the real w inderstanding. vice the innovative peda	attainment of the various ture method, but differ nes. on and substations to f various machines g in the class ions in the class, which tudents Analytical skill e, and analyze information d encourage the studer orld - and when that's gogy to improve the	us cours rent type give b h prome lls, deve ation rat nts to co possible teachi
	Module-1		
Introduction Sustainability Definition through Examp Carrying capacity, Sustainable Develope Conscious Lifestyle	ole, Three Pillars of Sus ment Goals (SDGs), Act	tainability, Triple Bo ion Guide for Envir	ttom L
Pedagogy Chalk and talk method, Powe	erPoint Presentation		
	Module -2		
Sustainable Development Biodiversity and its conservation, environ management, social issues and environ depletion. Water conservation, rain wate	mental pollution, air, wate ment, climate change ,	er and soil pollution, so Global warming, Oz d management	olid was

Pedagogy	Chalk and talk method, PowerPoint Presentation				
	Module-3				
Place- mak Identifying sustainabilit developmen	Place- making and urban Design Identifying the environmental, social, cultural and economic benefits of each approach, The sustainability of affordable housing and informal settlement, Community participation in sustainable development, Case Study: Innovation for Sustainability Implementation				
Pedagogy	Chalk and talk method, PowerPoint Presentation				
	Module- 4				
Financing S Decision m loans, Gree Sustainable Bonds, and	Sustainability aking, Sustainability related issues in financing, Sustainability linked loans and green n bonds and Sustainable- linked bonds, climate risks and financial risks on markets Finance through various case studies like Green Urban Housing, Off-grid Energy, Green many other relevant case studies on the project.				
Pedagogy	Chalk and talk method, PowerPoint Presentation				
	Module-5				
Sustainable Sustainable norms and methods - N Primary Art with respect transport ma	Sustainable transport Sustainable transport systems, NMT, public transport. Planning principles and process; Planning norms and standards; planning frameworks for NMT infrastructure improvements; Analytical methods - NMT site analysis; NMT network analysis. NMT Facilities - Facilities on Highways and Primary Arterials, Designs based on Roadway function, Safety and Intersections; Local Street Design with respect to NMT; Financing NMT Infrastructure. Planning for NMT - Integration of NMT into transport master plans. Planning for sustainable transport projects and global best practices				
Pedagogy	Pedagogy Chalk and talk method, PowerPoint Presentation				
Course outcome (Course Skill Set)					
At the end of t Sp An po Cr Th by fir	he course the student will be able to : becialists to design of energy efficient and sustainable built environment halyse and compare the potentials and challenges of technological, organisational and hicy solutions ritically judge solutions and propose a plan towards sustainable transportation he ways banks can navigate to more-greener portfolios, the importance of being evaluated rating agencies for Sustainability parameters, and what does this all mean for the hancial sector's reputation and future.				
Assessment D	etails (both CIE and SEE)				
(methods of C project) The weightage 50%. The stud marks of maxi of the CIE (C Theory Semes 50 marks. Base	IE need to be define topic wise i.e MCQ, Quizzes, Open book test, Seminar or micro e of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is ent has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% mum marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total Continuous Internal Evaluation) and SEE (Semester End Examination) taken together. ter End Exam (SEE) is conducted for 100 marks (3 hours' duration) and scaled down to ed on this grading will be awarded.				
Continuous In	Iternal Evaluation:				
2. The class Seminar. I	teacher has to decide the topic for closed book test, open book test, Written Quiz and n the beginning only the teacher has to announce the methods of CIE for the subject.				

Semester End Examination:

Theory SEE will be conducted by University as per scheduled time table, with common question papers for subject

- 1. The question paper will have ten questions. Each question is set for 20 marks. Marks scored out of 100 marks are proportionally reduced to 50 marks.
- 2. There will be 2 questions from each module. Each of the two questions under a module (with a maximum of 3 sub questions), should have a mix of topics under that module.
- 3. The students have to answer 5 full questions, selecting one full question from each module

Suggested Learning Resources:

Books

- 1. Black, W.R. (2010). Sustainable Transportation: Problems and Solutions. The Guilford Press, New York, NY. Available at: http://uma.eblib.com/patron/FullRecord. aspx?p=465652.
- 2. Shiller, P.L., E. Bruun, and J.R. Kenworthy. (2010). An Introduction to Sustainable Transportation. Earthscan, London, Washington DC. (I will provide the url link once I have it).
- 3. E.!Barbour!and!B.!Deakin!(2012).!Smart!Growth!Planning!for!Climate!Protection:!An!Ev aluation!of!California's!Senate!Bill!375.!Journal&of&the&American&Planning&Associat ion,!78!(1),!70=86.
- 4. Urban!Land!Institute!Report!(2010).!Land!Use!and!Driving:!The!Role!Compact!Develop ment!Can!Play! in!Reducing!Greenhouse!Gas!Emissions.!Washington,!DC.!http://www.uli.org/wp=
 - in!Reducing!Greenhouse!Gas!Emissions.!Washington,!DC. !http://www.uli.org/wp= content/uploads/ULI=Documents/Land=Use=and=Driving=Low=Res.pdf
- 5. U.S.!Environmental!Protection!Agency.!Smart!Growth!Principles.! http://www.epa.gov/dced/about_sg.htm.!
- 6. Dios Ortuzar J. (2001), Modelling Transport, Wiley, New York. 2.
- 7. Hook, W. (2005), Non-Motorized Transport, Federal Ministry for Economic Cooperation & Development, Germany. 3.
- 8. Kadiyali L. R. (2013), Traffic Engineering and Transport Planning, Khanna Publishers, New Delhi. 4.
- 9. O'Flaherty C.A. (1997), Transport Planning and Traffic Engineering, Elsevier, CRC Press, USA.

Web links and Video Lectures (e-Resources):

- https://www.itdp.org/our-work/sustainable-urban-development/
- <u>https://www.asla.org/sustainableurbandevelopment.aspx</u>
- <u>https://www.sciencedirect.com/topics/social-sciences/sustainable-urban-development</u>
- https://www.youtube.com/watch?v=h1sU_gOxjf4

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

- A literature study on different cities about the Sustainable development to learn new techniques adopted by the cities.
- An activity is given to them to learn national and international journals to understand the importance of urban development and sustainable development.

PROFES 5. INC	SIONAL ELECTIVE -IV LUSIVE PLANNING		
Course Code	21 PLN75.5	CIE Marks	50
Teaching Hours/Week (L:T:S:P:SM:SS)	2:0:0:0:0:1	SEE Marks	50
Total Hours of Pedagogy	48	Total Marks	100
Credits	2	Exam Hours	3
 Course objectives: To provide exposure to the emerg equip the students with required approaches towards planning. To vulnerable sections/groups into the 	ing concepts and issues conc knowledge, know-how & to include the disadvantaged, mainstream of planning.	erning inclusive pl ools on people-cen marginalized and	anning. To tric relate other
 These are sample Strategies, which teacher outcomes. Theory subjects and studio to go hat Exposing the students to the Plannine Innovative lecture methodologies to Short videos for better understand the aspects of site planning Encourage collaborative (Group Later Control of the Ask at least three HOT (Higher Critical thinking Adapt Problem Based Learning thinking skills such as the ability to simply recall it Discussion in class to elevate think 	rs can use to accelerate the at and in hand ing guidelines (URDPFI), IRC to be adapted to improve the t ling, physical site visits for u earning) learning in the class order Thinking) questions (PBL), which fosters studen to evaluate, generalize, and a sting level and different proble	tainment of the vari C eaching and learnin nderstanding the sc in the class, which the class, which the class, which the class, which the class, which in the class, which the class, which in the class, which the class, which the class, which the class, which the class, which the class, which the class, which th	ous course g process ale and al n promote ls, develop rather that
	Module-1		
Elements of Inclusivity Definition, Concepts, elements of inclusiv fragmentation, existing divisiveness; Marg	ity; Exclusion and related iss inalization, exclusion and acc	sues, disparities, so ess to services.	cial
Pedagogy Taught through chalk and tal	k methods, PowerPoints press	entation and PDFs	
	Module-2		
Community Planning Definition, Concepts and methods; Condiscourse in planning, interactive placed communicative rationality and democratic	mmunity participation and anning, multi-directional f processes, building consensu	management; Lan lows in decision s in planning	guage an - makinş
Pedagogy Taught through chalk and tal	k methods, PowerPoints pres	entation and PDFs	
I	Module-3		

Definition,	Dimensions, deprivation, measurement, defining parameters; absolute and relative
Informal Sec informal sec infrastructur	ctor- Definition and dimensions; migratory impulses and their association with growth of ctor;' Role of informal sector in housing; Housing and basic needs- lack of essential re; Poor condition of existing services.
Pedagogy	Taught through chalk and talk methods, PowerPoints presentation and PDFs
	Module-4
Disparities	and Equal Opportunities
Critiques of approach; fe persons, eld	neo- liberalism; power and hegemony; forms of marginalization; right to the city minist planning theory: caste and religion – planning and design for the differently- able erly, children, and pregnant women.
Pedagogy	Taught through chalk and talk methods, PowerPoints presentation and PDFs
	Module-5
Policies Pro	grams, Model related to Inclusive Planning
Planning Lu institution or organization approaches; private partr	egislation and related programs; Management for the vulnerable sections; formal f inclusion and community; Role of central and state governments; Private and voluntary is; Development indicators; People- centric and participatory planning; bottom-up Incremental approach; Low cost alternatives and institutional reform approach; Public- mership; PRA techniques and participatory GIS.
Pedagogy	Taught through chalk and talk methods, PowerPoints presentation and PDFs
Course outcor	ne (Course Skill Set)
At the end of the Upon the knowledg for a hum	the course the student will be able to : completion of this course, the students would be able: To demonstrate skills and e to prepare a traffic and transportation plan, circulation plan or traffic management plan an settlement.
Assessment D	etails (both CIE and SEE)
(methods of (project)	JE need to be define topic wise i.e MCQ, Quizzes, Open book test, Seminar or micro
The weightag 50%. The stu 35% marks of sum total of together. Sem on this gradin	e of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is dent has to obtain a minimum of 40% marks of maximum marks in CIE and minimum f maximum marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken tester End Exam (SEE) is conducted for 100 marks and scaled down to 50 marks. Based g will be awarded.
Continuous In	iternal Evaluation:
 Methods The class Seminar. 	suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc. s teacher has to decide the topic for closed book test, open book test, Written Quiz and In the beginning only the teacher has to announce the methods of CIE for the subject. Examination:
Theory SEE w	ill be conducted by University as per scheduled time table, with common question papers
for subject	
J	
1. The quest	ion paper will have ten questions. Each question is set for 20 marks. Marks scored out of a are proportionally reduced to 50 marks

- maximum of 3 sub questions), should have a mix of topics under that module.
- 3. The students have to answer 5 full questions, selecting one full question from each module

Suggested Learning Resources:

- Books
- 1. Ali Sabir (2006), Dimensions of Urban Poverty, Rawat Publications, New Delhi
- 2. Brown A and Kristiansen A. (2009), Urban Policies and Right to the City: Rights, Responsibilities and citizenship; UNESCO, UN- Habitat Publication.
- 3. Kundu , Amitabh and sharma, Alakh N (2001), Informal Sector in India: Perspectives and policies , Institute for Human Devlopment & Institution of Applied Manpower Research , New Delhi.
- 4. Singh R.U Thakur A.K (2009), Inclusive Growth in India, Deeo & Deep Publication Pvt. Ltd., New Delhi.

Web links and Video Lectures (e-Resources):

- <u>https://www2.deloitte.com/global/en/pages/public-sector/articles/urban-future-with-a-purpose/inclusive-services-and-planning.html</u>
- <u>https://www.smartcitiesdive.com/ex/sustainablecitiescollective/inclusive-planning-how-can-indian-cities-lead-way/35817/</u>
- https://www.wiego.org/inclusive-cities-project

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

• Group preparations and discussions on various topics in the modules and case studies.

OPEN ELECTIVE III 1. INSTITUTIONS AND PLANNING					
Course Code21PLN76.1CIE Marks50					
Teaching Hours/Week (L:T:S:P:SM:SS)	2:0:0:0:0:1	SEE Marks	50		
Total Hours of Pedagogy	48	Total Marks	100		
Credits	2	Exam Hours	3		

Course objectives:

• This subject has two objectives. The first objective is to introduce students to the multiplicity and complexity of organizations involved in the planning and development of cities and towns.

Pedagogy (General Instructions)

These are sample Strategies, which teachers can use to accelerate the attainment of the various course outcomes.

- 1. Lecturer method (L) does not mean only traditional lecture method, but different types of teaching methods may be adopted to develop the outcomes.
- 2. Arrange visits to nearby power plants, receiving stations and substations to give brief information about the electrical power generation.
- 3. Show Video/animation films to explain functioning of various machines
- 4. Encourage collaborative (Group Learning) Learning in the class
- 5. Ask at least three HOTS (Higher order Thinking) questions in the class, which promotes critical thinking
- 6. Adopt Problem Based Learning (PBL), which fosters students Analytical skills, develop thinking skills such as the ability to evaluate, generalize, and analyze information rather than simply recall it.
- 7. Topics will be introduced in a multiple representation.
- 8. Show the different ways to solve the same problem and encourage the students to come up with their own creative ways to solve them.
- 9. Discuss how every concept can be applied to the real world and when that's possible, it helps improve the students' understanding.

10. Individual teachers can devise innovative pedagogy to improve the teaching-learning.

Module-1		
Nature of Planning Organizations		
Forms and fu	inctions of planning agencies; Nature of involvement of planners in these agencies; Difference	
in the workings, roles and jurisdictions of development authorises. In different states; Nature of planning organizations in the private sector and the third sector.		
Pedagogy	Chalk and talk method, PowerPoint Presentation	
Module-2		

Multiplicity	of Planning Organizations	
Coordination and integration among planning agencies; Nature of conflicts and contestations among		
planning agencies; Joined up local government; Horizontal and vertical linkages among planning agencies;		
Convergence among planning agencies; Complications of organizational integration due to 73rd and 74th		
amendments	to the Constitution of India.	
Pedagogy	Chalk and talk method, PowerPoint Presentation	
	Module-3	
Laws and Pla	ns	
A study of red Brownfields v	evelopment related laws, rules and regulations; Nature of redevelopment development plans; ersus greenfield development; Roles and motivations of the private sector in redevelopment.	
Pedagogy	Chalk and talk method, PowerPoint Presentation	
	Module-4	
Redevelopme	nt: Resettlement	
Nature of red rehabilitation;	evelopment; Consequences of redevelopment; Evictions, displacements, resettlement and Gentrification of urban areas.	
Pedagogy	Chalk and talk method, PowerPoint Presentation	
	Module-5	
~		
Gentrification	1	
Gentrification	equences –causes-issues in Orban Development. Case studies relevant to the process of	
Pedagogy	Chalk and talk method, PowerPoint Presentation	
Course outco	me (Course Skill Set)	
At the end of t	he course the student will be able to :	
• To de	emonstrate critical knowledge about the working of planning and development organizations	
including the o	ones involved in redevelopment.	
Assessment D	etails (both CIE and SEE)	
(methods of C	IE need to be define topic wise i.e MCQ, Quizzes, Open book test, Seminar or micro project)	
The weightage	e of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%.	
The student ha	as to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% marks of	
maximum mai	cks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE	
(Continuous Internal Evaluation) and SEE (Semester End Examination) taken together. Semester End Exam		
(SEE) is conducted for 100 marks and scaled down to 50 marks. Based on this grading will be awarded.		
Continuous Internal Evaluation:		
1. Methods s	uggested: Test, Open Book test, Written Quiz, Seminar, report writing etc.	
2. The class	teacher has to decide the topic for closed book test, open book test, Written Quiz and Seminar. In	
the beginn	ing only the teacher has to announce the methods of CIE for the subject.	
Semester End Examination:		
I neory SEE v	vin be conducted by University as per scheduled time table, with common question papers for	
subject	ion noner will have ten questions. Each question is set for 20 meetrs. Marks soored set of 100	
1. I ne quest	non paper will have ten questions. Each question is set for 20 marks. Marks scored out of 100	
Inarks are	proportionally reduced to 50 marks.	
2. I nere Will	be 2 questions from each module. Each of the two questions under a module (with a maximum	

- of 3 sub questions), should have a mix of topics under that module.
- 3. The students have to answer 5 full questions, selecting one full question from each module

Suggested Learning Resources: Books

1. Anjaria, J. S. and McFarlane, C. (eds.) (2011) Urban Navigations, Politics, Space and the City in South Asia, Routledge, London.

2. Bhan, G. (2009) 'This is no longer the city I once knew': evictions, the urban poor and the right to the city in millennial Delhi, Environment and Urbanization, Vol. 21, pp. 127–142.

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11. Shatkin, G. (ed.) (2013) Contesting the Indian City: Global Visions and the Politics of the Local, Wiley, London

12. Sivaramakrishnan, K.C. (2015) Governance of Megacities: Fractured Thinking and Fragmented Setup, Oxford University Press, New Delhi.

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• <u>https://www.pbrdp.gov.in/documents/6205745/98348119/Panchayati%20Raj%20System%20in%20Ind</u>ependent%20India.pdf

- <u>https://niti.gov.in/planningcommission.gov.in/docs/plans/mta/midterm/english-pdf/chapter-17.pdf</u>
- <u>https://cbpbu.ac.in/userfiles/file/2020/STUDY_MAT/POL_SC/73rd%20and%2074th-converted.pdf</u>

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

• The students will be asked to visit the institutions website and find out their services, projects planned and completed

OPEN ELECTIVE – III 2. BASICS OF QUALITY MANAGEMENT					
Course Code 21PLN76.2 CIE Marks 50					
Teaching Hours/Week (L:T:S:P:SM:SS)	2:0:0:0:0:1	SEE Marks	50		
Total Hours of Pedagogy	48	Total Marks	100		
Credits	2	Exam Hours	3		

Course objectives:

• This subject has two objectives. The first objective is to introduce students to the multiplicity and complexity of organizations involved in the planning and development of cities and towns.

Pedagogy (General Instructions)

These are sample Strategies, which teachers can use to accelerate the attainment of the various course outcomes.

- 1. Lecturer method (L) does not mean only traditional lecture method, but different types of teaching methods may be adopted to develop the outcomes.
- 2. Arrange visits to nearby power plants, receiving stations and substations to give brief information about the electrical power generation.
- 3. Show Video/animation films to explain functioning of various machines
- 4. Encourage collaborative (Group Learning) Learning in the class
- 5. Ask at least three HOTS (Higher order Thinking) questions in the class, which promotes critical thinking
- 6. Adopt Problem Based Learning (PBL), which fosters students Analytical skills, develop thinking skills such as the ability to evaluate, generalize, and analyze information rather than simply recall it.
- 7. Topics will be introduced in a multiple representation.
- 8. Show the different ways to solve the same problem and encourage the students to come up with their own creative ways to solve them.
- 9. Discuss how every concept can be applied to the real world and when that's possible, it helps improve the students' understanding.

10. Individual teachers can devise innovative pedagogy to improve the teaching-learning.

Introduction

Quality management introduction, Quality based definitions and concepts, International Organization for Standardization (ISO), Quality vs. Grade, Sampling Theory, Probability Theory, Sampling data types, Customer satisfaction, Mapping Quality-related Concepts

Module-1

Pedagogy	Chalk and talk method, PowerPoint Presentation	
Module-2		
Module-2		

Maturity and Continuous Improvement Models

Maturity Models, Capability Maturity Model Integrated (CMMI), Project Management Maturity Model (PMMM), Continuous Improvement Models, Application of Maturity and Improvement Models

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Pedagogy Chalk and talk method, PowerPoint Presentation			
Module-3			
Quality Management Planning Quality Management Corporate Policy, Project Quality Management Planning, Quality Management Tools and Techniques			
Pedagogy Chalk and talk method, PowerPoint Presentation			
Module-4			
Quality Management Implementation Quality Management Implementation, Quality Assurance Activities, Quality Control Activities			
Pedagogy Chalk and talk method, PowerPoint Presentation			
Module-5			
Quality Management Improvement Quality audits, Kaizen "Improvement", Benefits of Practicing Continuous Improvement on Projects			
Pedagogy Chalk and talk method, PowerPoint Presentation			
Course outcome (Course Skill Set)			
 At the end of the course the student will be able to : Improve the quality of the product and ensure project success Measure quality and apply quality assurance Ensure the end-customer's quality requirements are met 			
 Ensure the end-customer's quality requirements are met Assessment Details (both CIE and SEE) (methods of CIE need to be define topic wise i.e MCQ, Quizzes, Open book test, Seminar or micro project) The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The student has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% marks of maximum marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together. Semester End Exam (SEE) is conducted for 100 marks and scaled down to 50 marks. Based on this grading will be awarded. Continuous Internal Evaluation: 1. Methods suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc. 2. The class teacher has to decide the topic for closed book test, open book test, Written Quiz and Seminar. In the beginning only the teacher has to announce the methods of CIE for the subject. Semester End Examination: Theory SEE will be conducted by University as per scheduled time table, with common question papers for subject 1. The question paper will have ten questions. Each question is set for 20 marks. Marks scored out of 100 marks are proportionally reduced to 50 marks. 2. There will be 2 questions from each module. Each of the two questions under a module (with a maximum of 3 sub questions), should have a mix of topics under that module. 3. The students have to answer 5 full questions, selecting one full question from each module 			
Suggested Learning Resources: Books			

1. Anjaria, J. S. and McFarlane, C. (eds.) (2011) Urban Navigations, Politics, Space and the City in South Asia,

Routledge, London.

2. Bhan, G. (2009) 'This is no longer the city I once knew': evictions, the urban poor and the right to the city in millennial Delhi, Environment and Urbanization, Vol. 21, pp. 127–142.

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4. Dupont, V. (2008) Slum demolitions in Delhi since the 1990s: An appraisal, Economic and Political Weekly, Vol. 43, No. 28, pp. 79–87.

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6. Kidd, S. (2007) Towards a Framework of Integration in Spatial Planning: An Exploration from a Health Perspective. Planning Theory and Practice, Vol. 8, No. 2, pp. 161-181.

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- <u>https://cbpbu.ac.in/userfiles/file/2020/STUDY_MAT/POL_SC/73rd%20and%2074th-converted.pdf</u>

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

• The students will be asked to visit the institutions website and find out their services, projects planned and completed

OPEN ELECTIVE – III 3. SOLID WASTE MANAGEMENT				
Course Code	21PLN76.3	CIE Marks	50	
Teaching Hours/Week (L:T:S:P:SM:SS)	2:0:0:0:0:1	SEE Marks	50	
Total Hours of Pedagogy	48	Total Marks	100	
Credits	2	Exam Hours	3	

Course objectives:

• This subject has two objectives. The first objective is to introduce students to the multiplicity and complexity of organizations involved in the planning and development of cities and towns.

Pedagogy (General Instructions)

These are sample Strategies, which teachers can use to accelerate the attainment of the various course outcomes.

- 1. Lecturer method (L) does not mean only traditional lecture method, but different types of teaching methods may be adopted to develop the outcomes.
- 2. Arrange visits to nearby power plants, receiving stations and substations to give brief information about the electrical power generation.
- 3. Show Video/animation films to explain functioning of various machines
- 4. Encourage collaborative (Group Learning) Learning in the class
- 5. Ask at least three HOTS (Higher order Thinking) questions in the class, which promotes critical thinking
- 6. Adopt Problem Based Learning (PBL), which fosters students Analytical skills, develop thinking skills such as the ability to evaluate, generalize, and analyze information rather than simply recall it.
- 7. Topics will be introduced in a multiple representation.
- 8. Show the different ways to solve the same problem and encourage the students to come up with their own creative ways to solve them.
- 9. Discuss how every concept can be applied to the real world and when that's possible, it helps improve the students' understanding.
- 10. Individual teachers can devise innovative pedagogy to improve the teaching-learning.

	Module-1		
Introduction	Introduction to Environmental Science		
Environment,	Components of environment; Lithosphere, Hydrosphere, Biosphere and Atmosphere; Natural		
resources, Environmental degradation			
Pedagogy	Chalk and talk method, PowerPoint Presentation		
Module-2			
Introduction to Waste			
Waste, Sources of waste, Steps involved in waste management, Ways of waste classification, importance of			
waste management and the health hazard associated with improper waste management.			
Pedagogy	Chalk and talk method, PowerPoint Presentation		
Module-3			

Classification Classification	n of Waste 1 of Waste: Waste, Collection, Segregation, Disposal, Treatment, Transportation.
Pedagogy	Chalk and talk method, PowerPoint Presentation
	Module-4
Concept of V Nature of re rehabilitatior	Waste Management development; Consequences of redevelopment; Evictions, displacements, resettlement and a; Gentrification of urban areas.
Pedagogy	Chalk and talk method, PowerPoint Presentation
	Module-5
Sources of v Process –con Gentrificatio	vaste sequences –causes-issues in Urban Development. Case studies relevant to the process of n.
Pedagogy	Chaik and talk method, PowerPoint Presentation
Course outc	ome (Course Skill Set)
At the end of	the course the student will be able to :
• To including the	demonstrate critical knowledge about the working of planning and development organizations ones involved in redevelopment.
Assessment	Details (both CIE and SEE)
(methods of The weighta) The student maximum m (Continuous (SEE) is con-	CIE need to be define topic wise i.e MCQ, Quizzes, Open book test, Seminar or micro project) ge of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% marks of arks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE Internal Evaluation) and SEE (Semester End Examination) taken together. Semester End Exam ducted for 100 marks and scaled down to 50 marks. Based on this grading will be awarded.
Continuous	Internal Evaluation:
 Methods The class the begin 	suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc. s teacher has to decide the topic for closed book test, open book test, Written Quiz and Seminar. In using only the teacher has to announce the methods of CIE for the subject.
Semester Er	d Examination:
Theory SEE	will be conducted by University as per scheduled time table, with common question papers for
1. The ques marks ar	stion paper will have ten questions. Each question is set for 20 marks. Marks scored out of 100 e proportionally reduced to 50 marks.
2. There wi of 3 sub	ll be 2 questions from each module. Each of the two questions under a module (with a maximum questions), should have a mix of topics under that module.
3. The stud	ents have to answer 5 full questions, selecting one full question from each module
Suggested L Books 1. Anjaria, J. Routledge, L	earning Resources: S. and McFarlane, C. (eds.) (2011) Urban Navigations, Politics, Space and the City in South Asia, ondon.

2. Bhan, G. (2009) 'This is no longer the city I once knew': evictions, the urban poor and the right to the city in millennial Delhi, Environment and Urbanization, Vol. 21, pp. 127–142.

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6. Kidd, S. (2007) Towards a Framework of Integration in Spatial Planning: An Exploration from a Health Perspective. Planning Theory and Practice, Vol. 8, No. 2, pp. 161-181.

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Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

• The students will be asked to visit the institutions website and find out their services, projects planned and completed

OPEN ELECTIVE – III 4. ENERGY EFFICIENCY PLANNING				
Course Code	21PLN76.4	CIE Marks	50	
Teaching Hours/Week (L:T:S:P:SM:SS)	2:0:0:0:0:1	SEE Marks	50	
Total Hours of Pedagogy	48	Total Marks	100	
Credits	2	Exam Hours	3	

Course objectives:

• This subject has two objectives. The first objective is to introduce students to the multiplicity and complexity of organizations involved in the planning and development of cities and towns.

Pedagogy (General Instructions)

These are sample Strategies, which teachers can use to accelerate the attainment of the various course outcomes.

- 1. Lecturer method (L) does not mean only traditional lecture method, but different types of teaching methods may be adopted to develop the outcomes.
- 2. Arrange visits to nearby power plants, receiving stations and substations to give brief information about the electrical power generation.
- 3. Show Video/animation films to explain functioning of various machines
- 4. Encourage collaborative (Group Learning) Learning in the class
- 5. Ask at least three HOTS (Higher order Thinking) questions in the class, which promotes critical thinking
- 6. Adopt Problem Based Learning (PBL), which fosters students Analytical skills, develop thinking skills such as the ability to evaluate, generalize, and analyze information rather than simply recall it.
- 7. Topics will be introduced in a multiple representation.
- 8. Show the different ways to solve the same problem and encourage the students to come up with their own creative ways to solve them.
- 9. Discuss how every concept can be applied to the real world and when that's possible, it helps improve the students' understanding.

10. Individual teachers can devise innovative pedagogy to improve the teaching-learning.

Module-1				
Introduction Definitions an	d understanding of concepts like energy-efficiency, sustainability, eco-efficiency, eco-city, etc.			
Pedagogy	Chalk and talk method, PowerPoint Presentation			
Module-2				
Energy-efficient infrastructure: Part 1				
Tool for Rapid Assessment of City Energy (TRACE), Saving Energy through Energy Savings Performance				
Contracts, Policies and Regulations				
Pedagogy	Chalk and talk method, PowerPoint Presentation			
Module-3				

	Chalk and talk method, PowerPoint Presentation
	Module-4
Energy-effic	eient infrastructure: Part 3
Energy Effic	iency in Public Buildings, Integrated Urban Transport Planning
Pedagogy	Chalk and talk method, PowerPoint Presentation
	Module-5
Case Studies Detailed case	s studies relevant to the process of energy efficiency implementation in cities.
Pedagogy	Chalk and talk method, PowerPoint Presentation
Course outc	ome (Course Skill Set)
At the end of	the course the student will be able to :
• To d sustainable d	lemonstrate critical knowledge about the working of energy efficient city planning to achieve evelopment.
(methods of 6 The weighta) The student 1 maximum m (Continuous (SEE) is con Continuous 1. Methods 2. The class the begin Semester Er Theory SEE subject	CIE need to be define topic wise i.e MCQ, Quizzes, Open book test, Seminar or micro project) ge of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% marks of arks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE Internal Evaluation) and SEE (Semester End Examination) taken together. Semester End Exam ducted for 100 marks and scaled down to 50 marks. Based on this grading will be awarded. Internal Evaluation: suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc. s teacher has to decide the topic for closed book test, open book test, Written Quiz and Seminar. In ming only the teacher has to announce the methods of CIE for the subject. Id Examination: will be conducted by University as per scheduled time table, with common question papers for stion paper will have ten questions. Each question is set for 20 marks. Marks scored out of 100 e proportionally reduced to 50 marks.
 The quest marks ar There with of 3 sub The stud 	questions), should have a mix of topics under that module. ents have to answer 5 full questions, selecting one full question from each module

2. Bhan, G. (2009) 'This is no longer the city I once knew': evictions, the urban poor and the right to the city in millennial Delhi, Environment and Urbanization, Vol. 21, pp. 127–142.

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- <u>https://cbpbu.ac.in/userfiles/file/2020/STUDY_MAT/POL_SC/73rd%20and%2074th-converted.pdf</u>

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

• The students will be asked to visit the institutions website and find out their services, projects planned and completed

VII Semester						
OPEN ELECTIVE – III 5. INTELLIGENT TRANSPORTATION SYSTEM						
Course Code	21PLN76.5	CIE Marks	50			
Teaching Hours/Week (L:T:S:P:SM:SS)	2:0:0:0:1	SEE Marks	50			
Total Hours of Pedagogy	48	Total Marks	100			
Credits	2	Exam Hours	3			

Course objectives:

This subject has two objectives. The first objective is to introduce students to the multiplicity and complexity of organizations involved in the planning and development of cities and towns.

Pedagogy (General Instructions)

These are sample Strategies, which teachers can use to accelerate the attainment of the various course outcomes.

- 1. Lecturer method (L) does not mean only traditional lecture method, but different types of teaching methods may be adopted to develop the outcomes.
- 2. Arrange visits to nearby power plants, receiving stations and substations to give brief information about the electrical power generation.
- 3. Show Video/animation films to explain functioning of various machines
- 4. Encourage collaborative (Group Learning) Learning in the class
- 5. Ask at least three HOTS (Higher order Thinking) questions in the class, which promotes critical thinking
- 6. Adopt Problem Based Learning (PBL), which fosters students Analytical skills, develop thinking skills such as the ability to evaluate, generalize, and analyze information rather than simply recall it.
- 7. Topics will be introduced in a multiple representation.
- 8. Show the different ways to solve the same problem and encourage the students to come up with their own creative ways to solve them.
- 9. Discuss how every concept can be applied to the real world and when that's possible, it helps improve the students' understanding.
- 10. Individual teachers can devise innovative pedagogy to improve the teaching-learning.

Module-1

Intelligent Transport System

Definition, concepts, types of Intelligent Transport System (ITS); ITS technology, software, equipment, Traffic management, emergency and incident management, public transport system, terminal and depot management system, parking infrastructure management, commercial vehicle management, highway surveillance, case studies.

Chalk and talk method. PowerPoint Presentation Pedagogy

Module-2

Application of ITS in Transport Infrastructure

Available and emerging traffic control system technology, Area traffic control, urban traffic control system technology, transportation system management, highway control and incident management, intelligent vehicle highway system, highway surveillance, Traffic regulation and enforcement; optimisation of public transport for

smart mobility; terminal management; parking management.				
Pedagogy	Chalk and talk method, PowerPoint Presentation			
Module-3				
Anatomy& Operations Management Information and Communication Technology, Big Data Processing And Storage, Communication Technology, Mobile Networks, Capacity Planning, Operations, Maintenance and Control, Project Management, Fleet and Commercial Vehicle Operations, Signaling and Traffic Priority, Safety and Security				
Pedagogy	Chalk and talk method, PowerPoint Presentation			
	Module-4			
Smart Mobility Concepts and components of smart mobility, role of ITS in smart mobility and smart cities; PPPs as a tool to implement smart mobility projects; smart mobility solutions for differently-abled; Integration of smart and green mobility				
Pedagogy	Chalk and talk method, PowerPoint Presentation			
	Module-5			
Business Management & Case Studies Strategic Business Planning, Sustainability of Operations, Role of State and Regulatory Bodies, Emerging Trends Detailed case studies relevant to the process of ITS implementation in cities.				
Pedagogy	Chalk and talk method, PowerPoint Presentation			
Course outco	ome (Course Skill Set)			
At the end of the course the student will be able to :				
• To demonstrate critical knowledge about the working of planning and development organizations including the ones involved in redevelopment.				
Assessment Details (both CIE and SEE) (methods of CIE need to be define topic wise i.e MCQ, Quizzes, Open book test, Seminar or micro project) The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The student has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% marks of maximum marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together. Semester End Exam (SEE) is conducted for 100 marks and scaled down to 50 marks. Based on this grading will be awarded.				
 Methods suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc. The class teacher has to decide the topic for closed book test, open book test, Written Quiz and Seminar. In the beginning only the teacher has to announce the methods of CIE for the subject. 				
 Semester Entropy SEE subject 1. The question marks are 2. There will of 3 sub constrained 3. The stude 	d Examination: will be conducted by University as per scheduled time table, with common question papers for tion paper will have ten questions. Each question is set for 20 marks. Marks scored out of 100 e proportionally reduced to 50 marks. Il be 2 questions from each module. Each of the two questions under a module (with a maximum questions), should have a mix of topics under that module. ents have to answer 5 full questions, selecting one full question from each module			

Suggested Learning Resources: Books

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Web links and Video Lectures (e-Resources):

• <u>https://www.pbrdp.gov.in/documents/6205745/98348119/Panchayati%20Raj%20System%20in%20Ind</u> ependent%20India.pdf

- <u>https://niti.gov.in/planningcommission.gov.in/docs/plans/mta/midterm/english-pdf/chapter-17.pdf</u>
- <u>https://cbpbu.ac.in/userfiles/file/2020/STUDY_MAT/POL_SC/73rd%20and%2074th-converted.pdf</u>

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

• The students will be asked to visit the institutions website and find out their services, projects planned and completed
VII Semester

PROFESSIONAL TRAINING - II

Course Code	21PLN77	CIE Marks	-
Teaching Hours/Week (L:T:S:P:SM:SS)	0:0:0:0:0:0	SEE Marks	100
Total Hours of Pedagogy	-	Total Marks	100
Credits		Exam Hours	3

General Instructions :

Students will undergo professional training in a department approved organization on a project for 2 months. This will be supervised training by a senior professional from the organization. Satisfactory completion of training will be mandatory for the award of a degree. Training will be evaluated by the faculty incharge and Internship training Coordinator.

13.09.2022

SEMESTER VIII

PLANNING THESIS				
Course Code	21PLN81	CIE Marks	200	
Teaching Hours/Week (L:T:S:P:SM:SS)	0:0:2:16:0:0	SEE Marks	200	
Total Hours of Pedagogy	288	Total Marks	400	
Credits	9	Exam Hours	-	

Course objectives:

• Creation of new knowledge is essential for innovation in any profession, planning is no different. New knowledge get created through research using credible research methods. So, building on the subject of 'Dissertation', the main objective of 'Planning thesis' is to teach students about how conduct a research systematically, starting with making a choice of a research topic through to literature review to field work, analysis of field data, synthesis of literature and field work findings, drawing conclusions and making recommendations.

Pedagogy (General Instructions)

These are sample Strategies, which teacher can use to accelerate the attainment of the various course outcomes.

- 1. The student is required to visit site and organizations for the collection of data
- **2.** The student is asked to do multiple surveys for Transportation and Socio economic study for understanding the Issues.
- 3. Report .Presentations and Sheets on final Analysis is to be submitted at the end of the studio.

Course Contents

Each student of Bachelor of Planning is required to prepare a thesis on a subject concerning urban, rural or regional planning and development. Each research topic would be approved by the faculty and finalized through discussions within the department. Thesis will provide an opportunity to the student to synthesize knowledge and skills acquired by her through learning of various theories and practices during the last three and half year. The students will be required to present their work orally, graphically and through written report. The student will also be required to present her thesis before the external jury appointed by the concerned planning school, institute or university..

Course outcome (Course Skill Set)

At the end of the course the student will be able to :

- 1. To demonstrate the ability to successfully plan and design a small research project.
- 2. To show the ability to critically approach the existing literature on a specific research topic in order to complete literature review.
- 3. To show the ability to conduct field surveys in order to fill gaps in the literature and also to answer some of the research questions.
- 4. To examine field data and information before arriving at the conclusions.
- 5. To make planning and policy proposals on a selected research topic..

Assessment Details (both CIE and SEE)

(methods of CIE need to be define topic wise i.e.- MCQ, Quizzes, Open book test, Seminar or micro project, Viva)

The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The student has to obtain a minimum of 40% marks individually both in CIE and SEE to pass. Theory Semester End Exam (SEE) is conducted for 200 marks and Continuous Internal Evaluation (CIE) is conducted for 200 marks. Based on this grading will be awarded.

As per University guidelines

Continuous Internal Evaluation: The Internal marks (200 marks) evaluation shall be based on Phase wise completion of the project work, Project report, Presentation and Demonstration of the actual/model/prototype of the project.

Semester End Examination: SEE marks for the project (200 marks) shall be based on Project report, Presentation and Demonstration of the actual/model/prototype of the project, as per the University norms by the examiners appointed VTU.

Suggested Learning Resources:

Books

1. Hammersley, M. (2013) What is Qualitative Research? Bloomsbury, London.

2. Hancock, D.R. and Algozzine, B. (2006) Doing Case Study Research: A Practical Guide for

Beginning Researchers, Columbia University, New York.

3. Machi, L.A. and McEvoy, B.T. (2012) The Literature Review: Six Steps to Success, Thousand Oaks, California.

4. Piccolo, F.L. and Thomas, H. (2009) Ethics and Planning Research, Ashgate, Farnham, Surrey.

5. Treiman, D.J. (2009) Quantitative Data Analysis: Doing Social Research to Test Ideas (Research

Methods for the Social Sciences), Jossey-Bass, San Francisco, California

6. Wertz, F.J. (2011) Five Ways of Doing Qualitative Analysis: Phenomenological Psychology, Grounded Theory, Discourse Analysis, Narrative Research, and Intuitive Inquiry, Guilford Press, New York.

Web links and Video Lectures (e-Resources):

• <u>https://www.scribbr.com/category/research-paper/</u>

- <u>https://library.iitd.ac.in/Ph-D-Thesis-tab</u>
- <u>http://www.itpi.org.in/journals</u>

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

• Students should visit the site area and do the relevant study based on their topic of interest

	PLANNI	NG LEGISLATION – II		
Course Code		21PLN82	CIE Marks	50
Teaching Hou	urs/Week (L:T:S:P:SM:SS)	3:0:0:0:0:0	SEE Marks	50
Total Hours of	of Pedagogy	48	Total Marks	100
Credits		3	Exam Hours	3
Course object • Build under (b) to	 Course objectives: Building on the earlier course on Planning Legislation, the main purpose of this course is to understand (i) how master plan as statutory documents interpret constitutional provisions and (b) to appreciate the interface between planning law and other laws. 			
Pedagogy (G These are san outcomes.	eneral Instructions) nple Strategies, which teacher	s can use to accelerate the attai	nment of the vario	ous course
1. L te 2. A	ecturer method (L) does not eaching methods may be adop arrange visits to nearby pow	mean only traditional lecture r sted to develop the outcomes. yer plants, receiving station and l power generation	nethod, but different	ent type of give brief
3. 5	how Video/animation films	to explain functioning of vari	ous machines	
4. E	Encourage collaborative (Gr	oup Learning) Learning in th	e class	
5. A	 5. Ask at least three HOTS (Higher order Thinking) questions in the class, which promotes critical thinking 			
6. A tl	6. Adopt Problem Based Learning (PBL), which fosters students Analytical skills, develop thinking skills such as the ability to evaluate, generalize, and analyze information rather than simply recall it.			
7. T 8. S	7. Topics will be introduced in a multiple representation.8. Show the different ways to solve the same problem and encourage the students to come up with their own creative ways to solve them			
9. E	 Discuss how every concept can be applied to the real world - and when that's possible, if helps improve the students' understanding. 		possible, it	
10. I	10. Individual teacher can device the innovative pedagogy to improve the teaching-			
le	earning.			
		Module-1		
Planning an Statutory na process, Ca implementat	Planning and Development Law and Statutory PlansStatutory nature of comprehensive plans and its implications, Plan Preparation and Modificationprocess, Case laws related to matters related to plan preparation, change of land use,implementation and enforcement.			
Pedagogy	Chalk and talk method, Pow	verPoint Presentation		
		Module-2		
Planning La Current legi environment	w and Environment laws slation related to the enviro laws; Case laws.	nment. Interface and conflict	s between town	planning,

Pedagogy	Pedagogy Chalk and talk method, PowerPoint Presentation			
	Module-3			
Planning Law and Heritage Laws Current legislation related to heritage. Interface and conflicts between town planning, and heritage legislation; Case laws.				
Pedagogy	Pedagogy Chalk and talk method, PowerPoint Presentation			
	Module-4			
Real Estate a	nd other related laws for development			
Real Estate (Fe example, Spec	Regulation and Development) Act, 2016 and other relevant acts at a particular time, for cial Investment Region Act, Community Participation Law.			
Pedagogy	Chalk and talk method, PowerPoint Presentation			
	Module-5			
Legal and ad	ministrative aspects: National and international experience			
National and Aspects of all and abroad	international experience implementing urban programs. Legal and administrative sectors. Case studies of proposals for acts concerned with urban development in India			
Pedagogy	Chalk and talk method, PowerPoint Presentation			
Course outcome	e (Course Skill Set)			
At the end of the	course the student will be able to :			
• To demo provision	onstrate knowledge about the role of statutory master plans in translating constitutional ns.			
To showTo develplanning	familiarity with environment and heritage laws and other relevant acts. lop knowledge about the implications of environment and heritage laws for town glaws.			
Assessment Det	ails (both CIE and SEE)			
(methods of CIE	E need to be define topic wise i.e MCQ, Quizzes, Open book test, Seminar or micro			
project)				
The weightage of 50%. The studen marks of maximu of the CIE (Con Theory Semester 50 marks. Based	of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is t has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% um marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total ntinuous Internal Evaluation) and SEE (Semester End Examination) taken together. r End Exam (SEE) is conducted for 100 marks (3 hours' duration) and scaled down to on this grading will be awarded.			
Continuous Inte	ernal Evaluation:			
 Methods st The class Seminar. It 	uggested: Test, Open Book test, Written Quiz, Seminar, report writing etc. teacher has to decide the topic for closed book test, open book test, Written Quiz and n the beginning only the teacher has to announce the methods of CIE for the subject.			
Semester End E	Examination:			
Theory SEE will	be conducted by University as per scheduled time table, with common question papers			
tor subject				
100 marks are proportionally reduced to 50 marks.				

- 2. There will be 2 questions from each module. Each of the two questions under a module (with a maximum of 3 sub questions), should have a mix of topics under that module.
- 3. The students have to answer 5 full questions, selecting one full question from each module

Suggested Learning Resources: Books

- 1. Anindita, M. (2019) The Legal Right to Housing in India, Cambridge University Press, Cambridge.
- 2. Brand, C. (2001) Planning Law, Cavendish Publishing Limited, Singapore.

3. Jariwala, C.M. (not dated) Environmental Justice: The Directions and Outcome, Indian Journal of Environmental Law, Vol. 1, pp. 15-30.

4. Ghosh, S. (2019) (ed.) Indian Environmental Law: Key Concepts and Principles, Orient Blackswan, Hyderabad.

Web links and Video Lectures (e-Resources):

- <u>https://nhb.org.in/wp-content/uploads/2017/03/Land-Acquisition-vs.-Land-Pooling.pdf</u>
- . <u>http://mohua.gov.in/cms/acts.php</u>
- http://mohua.gov.in/upload/uploadfiles/files/NCRPB%20Act%201985.pdf
- https://unhabitat.org/sites/default/files/2020/09/rules_of_the_game8_0.pdf
- https://rera.karnataka.gov.in/home?language=en

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

- The student is taken to the development board website and taught the process involved in application of land permission, RERA act and so on.
- They learn the process of TENDER and BID the project.

	PLANNING PRACTICE – II				
C	Course Code		21PLN83	CIE Marks	50
Т	Teaching Hours/Week (L:T:S:P:SM:SS)		2:0:0:2:0:0	SEE Marks	50
Т	Total Hours of Pedagogy		64	Total Marks	100
C	redits		3	Exam Hours	3
С	ourse obje • The p in the and e famii	ctives: main objective of the course i e Indian context and develop ethical behaviours expected fr liar with the requirements of s	s to familiarise students with the an understanding of responsibil rom planners. The subject also in setting up an organization for pla	e nature of planni ity of planning pr ntends to make stu anning practice.	ng practice ofessionals idents
	edagogy (G	General Instructions)	n aan waa to aaaalanata tha attain	mont of the veries	10.0011000
	itcomes	ipie strategies, which teache	r can use to accelerate the attain	ment of the vario	
0	iteomes.				
	1. I t 2. A i 3. S 4. I 5. A 6. A t t 7. 7	Lecturer method (L) does not eaching methods may be adop Arrange visits to nearby pow nformation about the electrica Show Video/animation films Encourage collaborative (Gr Ask at least three HOTS (Hig critical thinking Adopt Problem Based Learni hinking skills such as the ab han simply recall it. Fopics will be introduced in a	mean only traditional lecture n pted to develop the outcomes. wer plants, receiving station ar al power generation. to explain functioning of vari roup Learning) Learning in th gher order Thinking) questions i ng (PBL), which fosters studen ility to evaluate, generalize, and multiple representation.	nethod, but differ nd substations to ous machines e class in the class, whic ts Analytical skil d analyze informa	ent type of give brief h promotes ls, develop ation rather
	8. Show the different ways to solve the same problem and encourage the students to come		ts to come		
	up with their own creative ways to solve them.				
	9. Discuss how every concept can be applied to the real world - and when that's possible, it				
	helps improve the students' understanding.				
	10. Individual teacher can device the innovative pedagogy to improve the teaching-				
		earning.			
	Module-1				
	Comprehending Planning Practices Defining planning practices; Forms of planning practices and their implications; Debates about planning practices; What is a proper planning practice?			tes about	
P	Pedagogy Chalk and talk method, PowerPoint Presentation				
	Module-2				
R C F	Reflective planning practice Concept of reflective practice as given by Donald Schon; Espoused-theory and theory-in-use; Reflection in and on action; Approach and methods of reflective practice, concept of reframing; Reflective practice in the Indian context			ry-in-use; eframing;	

Pedagogy	Chalk and talk method, PowerPoint Presentation	
	Module-3	
Deliberative Concept of a interests and practice; Deli	planning practice deliberative practice; Study of decision making processes; comprehending competing interest groups; Understanding power relations and group dynamics in deliberative iberations and negotiations in development plans, policies and projects.	
Pedagogy	Chalk and talk method, PowerPoint Presentation	
	Module-4	
Professional	Engagement and Office Administration	
Tenders, Co different typ management	ntracts, Formulation of Project Proposals., Scope of work and Professional fees fo es of planning practice, setting up of planning firms, official correspondence, office practices.	
Pedagogy	Chalk and talk method, PowerPoint Presentation	
	Module-5	
Planning En	gagement :	
Study of de planning pro institutions a	cision making, role of different interest groups, deliberation and negotiation large ject or policy modification requiring approvals, Relationship with client, developers nd other professionals.	
Pedagogy	Chalk and talk method, PowerPoint Presentation	
Course outcom	e (Course Skill Set)	
At the end of th	e course the student will be able to :	
To deve	elop knowledge about the underlying values of the planning profession and show how to	
 To show 	\mathbf{x} knowledge about the processes of ethical decision making	
 To show To deve 	elop an understanding about the concept of reflective practice.	
To show	w the importance of dialogue among competing interests around a planning proposal.	
 To list the requirements for setting up a planning practice. 		
Assessment De	tails (both CIE and SEE)	
methods of CI	E need to be define topic wise i.e MCQ, Quizzes, Open book test, Seminar or micr	
project)		
The weightage	of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is	
50%. The stude	nt has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 359	
narks of maxin	ium marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum tota	
of the CIE (Co	ontinuous Internal Evaluation) and SEE (Semester End Examination) taken togethe	
50 marks. Based	d on this grading will be awarded.	
Continuous In	ternal Evaluation:	
1. Methods	suggested: Test, Open Book test, Written Quiz, Seminar, report writing etc.	
2. The class	2. The class teacher has to decide the topic for closed book test, open book test, Written Quiz an	
Seminar.	In the beginning only teacher has to announce the methods of CIE for the subject.	
semester End	Examination,	

Theory SEE will be conducted by University as per scheduled time table, with common question papers for subject

- 1. The question paper will have ten questions. Each question is set for 20 marks. Marks scored out of 100 marks are proportionally reduced to 50 marks.
- 2. There will be 2 questions from each module. Each of the two questions under a module (with a maximum of 3 sub questions), should have a mix of topics under that module.
- 3. The students have to answer 5 full questions, selecting one full question from each module

Suggested Learning Resources: Books

1. Barrett, C.D. (2001) Everyday Ethics for Practicing Planners, American Institute of Certified Planners, Chicago.

2. Forester, J. (1999) The Deliberative Practitioner: Encouraging Participatory Planning Processes, MIT Press, Massachusetts.

3. Kulshreshtha, S.K. (2012) Urban and Regional Planning in India: A Handbook for Professional Practice, Sage, New D

4. Saccoccia, S. (2016) Planning Practice, MIT Press, Massachusetts.

5. Schön, D. (1983) The Reflective Practitioner: How professionals think in action, Temple Smith, London.

6. Thomas, H. and Healey, P. (1991) Dilemmas of Planning Practice: Ethics, legitimacy, and the validation of knowledge, Avebury, Farnham, Surreyelhi.

Web links and Video Lectures (e-Resources):

- <u>https://www.sciencedirect.com/topics/social-sciences/planning-practice</u>
- https://uk.sagepub.com/sites/default/files/upm-binaries/59229_Sellars.pdf
- https://egyankosh.ac.in/bitstream/123456789/39224/1/Unit-1.pdf

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

• Understanding the contractual and tender documents related practices.

PLANNING ETHICS				
Course Code	21PLN84	CIE Marks	50	
Teaching Hours/Week (L:T:S:P:SM:SS)	2:0:0:0:0:0	SEE Marks	50	
Total Hours of Pedagogy	32	Total Marks	100	
Credits	2	Exam Hours	3	
 Course objectives: This course intends to develop sen develop an understanding of proce 	sitivity to ethical issues in plan sses of ethical decision making	ning and developr 	nent and	
Pedagogy (General Instructions) These are sample Strategies, which teacher outcomes.	can use to accelerate the attain	ment of the various	us course	
1. Lecturer method (L) does not	t mean only traditional lecture	method, but differ	ent type of	
teaching methods may be add	opted to develop the outcomes.	nd autostationa to	aire briat	
2. All align visits to hearby po-	wer plants, receiving station a	nu substations to	give brief	
3 Show Video/animation film	s to explain functioning of you	ious machinas		
5. Snow Video/animation films to explain functioning of various machines				
5 Ask at least three HOTS (High	 4. Encourage conaporative (Group Learning) Learning in the class 5 Ask at least three HOTS (Higher order Thinking) questions in the class, which promotes 			
critical thinking	gner order Thinking) questions	in the class, which	n promotes	
6. Adopt Problem Based Learni	6 Adopt Problem Based Learning (PBL) which fosters students Analytical skills develop			
thinking skills such as the ability to evaluate. generalize, and analyze information rather				
than simply recall it.				
7. Topics will be introduced in a multiple representation.				
8. Show the different ways to solve the same problem and encourage the students to come				
up with their own creative ways to solve them.				
9. Discuss how every concept can be applied to the real world - and when that's possible, it				
helps improve the students' understanding.				
10. Individual teacher can device the innovative pedagogy to improve the teaching-				
learning.				
	Module-1			
Understanding Ethics	-1	this Develop	- C - (1, 1,	
Defining ethics; Human values and moral reasoning; Perspectives on ethics; Branches of ethics;				
Eulics and social identities; Defining the idea of a profession and ethics in the modern professions.				
Pedagogy Chaik and taik method, Pov	verPoint Presentation			
	Module-2			
Understanding Ethical Decision Making Understanding human behaviour; Substate behaviour; Ethical decision making: power ethical and unethical decision making in provide the state of the	g nce of ethical behaviour; Dev er of frames, routines and stro planning organisations.	elopment stages ng situations; Exa	of ethical amples of	

Pedagogy	Pedagogy Chalk and talk method, PowerPoint Presentation			
Module-3				
Development of Ethics in Planning Distinction between professional ethics, ethics in planning and planning ethics; Learning from theory;				
Understanding of	contributions of the key planning scholars to planning ethics.			
Pedagogy (Chalk and talk method, PowerPoint Presentation			
	Module-4			
Ethical Dilemm Defining and re ethical dilemma codes of conduc	nas in Planning Practice ecognising ethical dilemmas; Planning practice and ethical dilemmas, resolution of as; Cases of ethical dilemmas in planning; Code of professional conduct; Examples of et of different countries including India.			
Pedagogy (Chalk and talk method, PowerPoint Presentation			
	Module-5			
Management by and team buildi ethical dilemma	values - professional excellence, interpersonal relationships at work place, leadership ing, conflict resolution and stress management, management of power, resolution of is, code of professional conduct, public sector planner and conduct rules.			
Pedagogy C	halk and talk method, PowerPoint Presentation			
 To demon To show k To develop To show k 	 To demonstrate familiarity with different philosophical approaches to ethical behavior. To show knowledge about the various elements of ethical reasoning. To develop the ability to recognize an ethical dilemma. To show knowledge about the ethical decision making processes 			
Assessment Detail (methods of CIE 1 project)	Is (both CIE and SEE) need to be define topic wise i.e MCQ, Quizzes, Open book test, Seminar or micro			
The weightage of 50%. The student I marks of maximur of the CIE (Cont Theory Semester I 50 marks. Based o Continuous Inter	Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is has to obtain a minimum of 40% marks of maximum marks in CIE and minimum 35% n marks in SEE to pass, and a minimum of 40% (40 marks out of 100) in the sum total inuous Internal Evaluation) and SEE (Semester End Examination) taken together. End Exam (SEE) is conducted for 100 marks (3 hours' duration) and scaled down to n this grading will be awarded. nal Evaluation:			
 Methods sug The class te Seminar. In 	ggested: Test, Open Book test, Written Quiz, Seminar, report writing etc. acher has to decide the topic for closed book test, open book test, Written Quiz and the beginning only teacher has to announce the methods of CIE for the subject.			
Theory SEE will b for subject	be conducted by University as per scheduled time table, with common question papers			
 The question paper will have ten questions. Each question is set for 20 marks. Marks scored out of 100 marks are proportionally reduced to 50 marks. There will be 2 questions from each module. Each of the two questions under a module (with a set of the two questions). 				
maximum of 3 sub questions), should have a mix of topics under that module.				

3. The students have to answer 5 full questions, selecting one full question from each module

Suggested Learning Resources: Books

- 1. Singer, P. (2010) Practical Ethics, Cambridge University Press, Cambridge.
- 2. Richards, J.R. (1980) The Skeptical Feminist, Routledge, New York.
- 3. Harding, C.G. (ed.) (2017) Moral Dilemmas and Ethical Reasoning, Routledge, New York.

4. Paul, R. and Elder, L. (2013) The Thinker's Guide to Ethical Reasoning: Based on Critical Thinking

Concepts and Tools, Foundation of Critical Thinking, Tomales, CA. Second Edition.

5. Barrett, C.D. (2017) Everyday Ethics for Practicing Planners, Routledge, New York.

Web links and Video Lectures (e-Resources):

- https://www.planning.org/ethics/ethicalprinciples/
- https://rm.coe.int/16806ee0ac

Activity Based Learning (Suggested Activities in Class)/ Practical Based learning

• Students are asked to do a presentation by effectively criticising on the community goals, professional development etc.

ANNEXURE-I

For more details, please refer to UGC/AICTE Student Induction Program guidelines

Students' Induction Program (General Guidelines)

In the first year 21 days of the course, an induction training program is proposed, before the start of 1st and 2nd semesters formal classes, to orient the students towards planning aptitude, education, and career. Induction training should also include the introduction of faculty members, discussion with faculty members, visits to various spaces in the department/school, such as climatology lab, computer center, material museum, construction yard, students' works exhibition, etc. Subjects such as Environmental Science, Indian Constitution, Value Education, Moral Science, and essence of traditional Indian culture and knowledge may also be included in induction training.

Induction Program

Students entering an institution have diverse thoughts, backgrounds, and preparations. It is important to help them adjust to the new environment and inculcate in them the ethos of the institution with a sense of larger purpose.

In this context, at the beginning of the first semester, a 21 days long induction program are proposed for the students. Regular classes would start after the completion of the induction program. Its purpose is to make the students feel comfortable in their new environment, open them up, set a healthy daily routine, create bonding in the batch as well as between faculty and students, develop awareness, sensitivity, and understanding of the self, people around them, society at large, and nature. The Induction Program is also used to rectify some critical lacuna, like a deficiency in comprehension of the English language by many students. The following are the activities under the induction program in which the student would be fully engaged throughout the day for the entire duration of the program.

Physical Activity

This would involve a daily routine of physical activity with games and sports. It would start with all students coming to the field for light physical exercise or yoga in the morning. There would also be games in the evening or at other suitable times according to the local climate. These would help develop teamwork. Each student should pick one game and learn it for three weeks. There could also be gardening or other suitably designed activity where labor yields fruits from nature.

Creative Arts

Every student would choose one skill related to the arts whether visual arts or performing arts. Examples are painting, sculpture, pottery, music, dance, etc. The student would pursue it every day for the duration of the program. These would allow for creative expression. It would develop a sense of aesthetics and also enhance creativity which would, hopefully, flow into the planning design later.

Universal Human Values

It gets the student to explore oneself and allows one to experience the joy of learning, stand up to peer pressure, take decisions with courage, be aware of relationships with colleagues and supporting staff in the hostel and department, be sensitive to others, etc. The need for character building has been underlined earlier. A module in Universal Human Values provides the base.

The methodology of teaching this content is extremely important. It must not be through do's and don'ts, but by getting students to explore and think and by engaging them in a dialogue. It is best learned through group discussions and real-life activities rather than lecturing. The role of group discussions, however, with the clarity of thought of the teachers cannot be overemphasized. It is essential for giving exposure, guiding thoughts, and realizing values. The teachers must be from within the institute and also from outside of the Institute.

Discussions would be conducted in small groups of about 20 students with a faculty mentor each. It is to open thinking towards the self. Universal Human Values discussions and activities could even continue for the rest of the semester, and not stop with the induction program. Besides drawing the attention of the student to larger issues of life, it would build relationships between teachers and students which last for their entire 5-year stay and possibly beyond.

Literary

The literary activity would encompass reading, writing, and possibly debating, enacting a play, etc.

Proficiency Modules

This period can be used to overcome some critical lacunas that students might have, for example, English, computer familiarity, etc. These should run like crash courses so that when normal courses start after the induction program, the student has overcome the lacunas substantially.

Lectures by Eminent People

Lectures by eminent people say, once a week would give the students exposure to people who are socially active or are in public life. They could be from any field well known for their integrity.

Visits to Local Area

A couple of visits to the landmarks of the city, or a hospital or orphanage could be organized. This would familiarize the students with their city as well as expose them to the world of the underprivileged

Familiarization

The students should be told about different methods of teaching and learning being used in the institute and how it is different as compared to school education or coaching. They should also be shown the laboratories, workshops & other facilities and also be introduced to the faculty, administrative staff, etc. and whom they should approach for a specific need or issue. They should be told about what becoming a planner means and the importance of the role of the planner in society, and in nation-building.

Extracurricular Activities:

The new students should be introduced to the extra-curricular activities at the college/ university. They should be shown the facilities and informed about activities related to different clubs etc. This is when selected senior students involved in or leading these activities can give presentations. Various other activities which could be included are role-playing/street play, alumni/industry interaction, etc.