

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangam, Machhe, Belagavi-590018



Scheme of Teaching and Examinations 2026

Outcome-Based Education (OBE) and Choice-Based Credit System (CBCS)
(Effective from the academic year 2026-27)

Integrated Master of Planning Scheme of Teaching and Examinations 2026 Outcome-Based Education (OBE) and Choice-Based Credit System (CBCS) (Effective from the academic year 2026-27)																	
Sem	I SEMESTER																
Sl. No	Course Category	Course Code	Course Title	TD/PSB	Teaching and Learning					Examination							Credits
					CI		LI		TW, SE & SL	# TH/S	Duration in hours	CIEMarks	Theory Marks	Term Work Marks	Viva Voce Marks	Total Marks	
1	IPCC	2BPLN101	Planning Studio-I	Architecture	28	-	112	-	40	180	-	50	-	-	50	100	6
2	PCC	2BPLN102	Cities in History	Architecture	42	-	-	-	48	90	3	50	50	-	-	100	3
3	PCC	2BPLN103	Techniques of Planning	Architecture	28	-	28	-	34	90	3	50	50	-	-	100	3
4	PSC	2BPLN104	Social-Cultural and Economic Aspects of Settlements	Architecture	42	-	-	-	48	90	3	50	50	-	-	100	3
5	PCCL	2BPLN105	Digital Tools I	Architecture	42	-	-	-	48	90	-	100	-	-	-	100	3
6	PSC	2BPLN106	Qualitative & Quantitative Methods in Planning	Architecture	28	-	-	-	32	60	3	50	50	-	-	100	2
7	NCMC	2BPLN107	Communication English	Architecture	14	-	-	-	-	-	-	50	-	-	-	50	PP
8	NCMC	2BPLN108A 2BPLN108B	Samkruthika Kannada Balake Kannada	Architecture	14	-	-	-	-	-	-	50	-	-	-	50	PP
Total					238	-	140	-	250	600	-	450	200	-	50	700	20
9	NCMC	2BPLN109	Basic Mathematics (Mandatory for students who have not studied Mathematics in 10+2)	Mathematics	28	-	-	-	-	-	-	100	-	-	-	100	PP
Total					266	-	140	-	250	600	-	550	200	-	50	800	20

TH/S- Total Hours per Semester, TW & SL- Term Work & Self Learning, TD/PSB -Teaching Department (TD) and Question Paper Setting Board (PSB), TW, SE & SL - Term Work, Seminar and Self Learning, L-Lecture, T-Tutorial, S-Studio, P-Practical, SL- Self Learning- Termwork+Seminar+Self study
 [As per AICTE/ITPI: L- 1h/per week=1 credit, T-1h/week=1 credit, S/P- 2 h/week=1 credit]

Integrated Master of Planning Scheme of Teaching and Examinations 2026 Outcome-Based Education (OBE) and Choice-Based Credit System (CBCS) (Effective from the academic year 2026-27)																	
Sem	II SEMESTER																
Sl. No	Course Category	Course Code	Course Title	TD/PSB	Teaching and Learning					Examination						Credits	
					CI		LI		TW, SE & SL	# TH/S	Duration in hours	CIEMarks	Theory Marks	Term Work Marks	Viva Voce Marks		Total Marks
					L	T	S	P									
1	IPCC	2BPLN201	Planning Studio-II	Architecture	28	-	112	-	40	180	-	50	-	-	50	100	6
2	PCC	2BPLN202	Fundamentals of Planning	Architecture	42	-	-	-	48	90	3	50	50	-	-	100	3
3	PCC	2BPLN203	Site Surveying and Land Development	Architecture	28	-	28	-	34	90	3	50	50	-	-	100	3
4	PSC	2BPLN204	Statistical Methods	Architecture	42	-	-	-	48	90	3	50	50	-	-	100	3
5	PSC	2BPLN205	Fundamentals of Design	Architecture	28	-	-	-	32	60	-	50	-	-	-	50	2
6	PSC	2BPLN206	Computer Fundamentals for Spatial Planning	Architecture	28	-	28	-	34	90	-	100	-	-	-	100	3
7	NCMC	2BPLN207	Indian Constitution	Architecture	14	-	-	-	0	0	-	50	-	-	-	50	PP
Total					210	-	168	-	236	600	-	400	150	-	50	600	20

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Sem	III SEMESTER																
Sl. No	Course Category	Course Code	Course Title	TD/PSB	Teaching and Learning						Examination						Credits
					CI		LI		TW, SE & SL	# TH/S	Duration in hours	CI Marks	Theory Marks	Term Work Marks	Viva Voce Marks	Total Marks	
					L	T	S	P	SL								
1	IPCC	2BPLN301	Planning Studio-III	Architecture	28	-	112	-	40	180	-	50	-	-	50	100	6
2	PCC	2BPLN302	Planning Theory	Architecture	42	-	-	-	48	90	3	50	50	-	-	100	3
3	PCC	2BPLN303	Planning for Utilities	Architecture	28	-	28	-	34	90	3	50	50	-	-	100	3
4	PSC	2BPLN304	Housing	Architecture	42	-	-	-	48	90	3	50	50	-	-	100	3
5	PSC	2BPLN305	Geographic Basis in Planning	Architecture	28	-	-	28	34	90	-	50	50	-	-	100	3
6	PSC	2BPLN306	Basics of Information Technology and Programming	Architecture	14	-	-	28	18	60	-	100	-	-	-	100	2
Total					182	-	140	56	222	600		350	200	-	50	600	20

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Sem	IV SEMESTER																
Sl. No	Course Category	Course Code	Course Title	TD/PSB	Teaching and Learning						Examination						Credits
					CI		LI		TW, SE & SL	# TH/S	Duration in hours	CIE Marks	Theory Marks	Term Work Marks	Viva Voce Marks	Total Marks	
					L	T	S	P	SL								
1	IPCC	2BPLN401	Planning Studio-IV	Architecture	28	-	112	-	40	180	-	50	-	-	50	100	6
2	PCC	2BPLN402	Transportation Planning – I	Architecture	42	-	-	-	48	90	3	50	50	-	-	100	3
3	PCC	2BPLN403	Land Economics and Real Estate Management	Architecture	28	-	28	-	34	90	3	50	50	-	-	100	3
4	PSC	2BPLN404	Heritage Conservation and Urban Renewal	Architecture	28	-	28	-	34	90	-	50	-	-	50	100	3
5	PSC	2BPLN405	Landscape, Ecology and Resource Planning	Architecture	42	-	-	-	48	90	3	50	50	-	-	100	3
6	PSC	2BPLN406	Geoinformatics and Data Analytics	Architecture	28	-	-	-	32	60	-	100	-	-	-	100	2
Total					196		168		236	600	-	350	150	-	100	600	20

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Integrated Master of Planning Scheme of Teaching and Examinations 2026 Outcome-Based Education (OBE) and Choice-Based Credit System (CBCS) (Effective from the academic year 2026-27)																	
Sem	V SEMESTER																
Sl. No	Course Category	Course Code	Course Title	TD/PSB	Teaching and Learning						Examination						Credits
					CI		LI		TW, SE & SL	# TH/S	Duration in hours	CIEMarks	Theory Marks	Term Work Marks	Viva Voce Marks	Total Marks	
					L	T	S	P	SL								
1	IPCC	2BPLN501	Planning Studio-V	Architecture	56	-	112		72	240		50	-	-	50	100	8
2	PCC	2BPLN502	Transportation Planning – II	Architecture	42	-	-	-	48	90	3	50	50	-	-	100	3
3	PCC	2BPLN503	Regional Planning	Architecture	28	-	28	-	34	90	3	50	50	-	-	100	3
4	PSC	2BPLN504	Estimation, Specification and Valuation	Architecture	28	-	-	-	32	60	3	50	50	-	-	100	2
5	PSC	2BPLN505	Public Policy and Planning	Architecture	28	-	-	-	32	60		50	-	-	50	100	2
6	PEC	2BPLN506	Elective-I	Architecture	14	-	28		18	60		100	-	-	-	100	2
Total					196		168		236	600	-	350	150		100	600	20

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Integrated Master of Planning Scheme of Teaching and Examinations 2026 Outcome-Based Education (OBE) and Choice-Based Credit System (CBCS) (Effective from the academic year 2026-27)																	
Sem	VI SEMESTER																
Sl. No	Course Category	Course Code	Course Title	TD/PSB	Teaching and Learning						Examination						Credits
					CI		LI		TW, SE & SL	# TH/S	Duration in hours	CIEMarks	Theory Marks	Term Work Marks	Viva Voce Marks	Total Marks	
					L	T	S	P	SL								
1	IPCC	2BPLN601	Planning Studio-VI	Architecture	56	-	112	-	72	240	-	50	-	-	50	100	8
2	PCC	2BPLN602	Planning Legislation	Architecture	42	-	-	-	48	90	3	50	50	-	-	100	3
3	PCC	2BPLN603	Governance and Plan Implementation	Architecture	42	-	-	-	48	90	3	50	50	-	-	100	3
4	PSC	2BPLN604	Rural Habitat Planning	Architecture	28	-	-	-	32	60	3	50	50	-	-	100	2
5	PSC	2BPLN605	Urban and Regional Infrastructure Planning	Architecture	28	-	-	-	32	60	-	50	50	-	-	100	2
6	PEC	2BPLN606	Elective II	Architecture	14	-	28	-	18	60	-	100	-	-	-	100	2
	INT		Summer Internship (to be undertaken during the summer vacations for 8 weeks after the sixth semester by the student. Its credits will be added over and above the total credits of the seventh semester)														
Total					210	-	140	-	250	600		350	200		50	600	20

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Sem	VII SEMESTER																
Sl. No	Course Category	Course Code	Course Title	TD/PSB	Teaching and Learning						Examination						Credits
					CI		LI		TW, SE & SL	# TH/S	Duration in hours	CIEMarks	Theory Marks	Term Work Marks	Viva Voce Marks	Total Marks	
					L	T	S	P	SL								
1	IPCC	2BPLN701	Planning Studio-VII	Architecture	56	-	112	-	72	240	-	50	-	-	50	100	8
2	PCC	2BPLN702	Research Methodology	Architecture	42	-	-	-	48	90	3	50	50	-	-	100	3
3	PSC	2BPLN703	Project Formulation, Appraisal and Management	Architecture	14	-	28	-	18	60	3	50	50	-	-	100	2
4	PCC	2BPLN704	Environment Planning	Architecture	42	-	-	-	48	90	3	50	50	-	-	100	3
5	PSC	2BPLN705	Development Finance	Architecture	28	-	-	-	32	60	3	50	50	-	-	100	2
6	PCC	2BPLN706	Dissertation Preliminaries	Architecture	14	-	28	-	18	60	-	100	-	-	-	100	2
7	INT	2BPLN707	Summer Internship (to be undertaken during the summer vacation for 8 weeks after the sixth semester by the student. Its credits will be added over and above the total credits of the seventh semester)							120	-	-	-		100	100	4
Total					196	-	168	-	236	600	-	350	200		150	700	24

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Sem	VIII SEMESTER																
Sl. No	Course Category	Course Code	Course Title	TD/PSB	Teaching and Learning						Examination					Credits	
					CI		LI		Self-SEE	H / n	i n h	CI Marks	Theory Marks	Term Work Marks	Viva Voce Marks		Total Marks
					L	T	S	P									
1	PROJ	2BPLN801	Planning Dissertation	Architecture	84	-	168	-	108	360	-	100	-	-	100	200	12
2	PSC	2BPLN802	Professional Practice and Ethics	Architecture	42	-	28	-	50	120	3	50	50	-	-	100	4
Total					126	-	196	-	158	480	-	150	50	-	100	300	16

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Sem	IX SEMESTER																
Sl. No	Course Category	Course Code	Course Title	TD/PSB	Teaching and Learning						Examination						Credits
					CI		LI		TW, SE & SL	# TH/S	Duration in hours	CIEMarks	Theory Marks	Term Work Marks	Viva Voce Marks	Total Marks	
					L	T	S	P	SL				SEE Marks				
1	IPCC	2MIMP101	Planning Studio – Future Cities	Architecture	56	-	112	-	72	240	-	50	-	-	50	100	8
2	PCC	2MIMP102	Smart Cities	Architecture	42	-	-	-	48	90	3	50	50	-	-	100	3
3	PSC	2MIMP103	Inclusive Cities	Architecture	42	-	-	-	48	90	-	50	50	-	-	100	3
4	PCC	2MIMP104	Technology and Sustainable Cities	Architecture	14	-	28	-	18	60	3	50	50	-	-	100	2
5	PSC	2MIMP105	Energy and Planning	Architecture	28	-	-	-	32	60		50	50	-	-	100	2
6	PSC	2MIMP106	Advanced Spatial Data Analytics	Architecture	14	-	28	-	18	60	3	50	-	-	50	100	2
Total					196	0	168	0	236	600		300	200	-	100	600	20

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 [As per AICTE/ITPI: L- 1h/per week=1 credit, T-1h/week=1 credit, S/P- 2 h/week=1 credit]

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Sem	X SEMESTER																
Sl. No	Course Category	Course Code	Course Title	TD/PSB	Teaching and Learning					Examination							Credits
					CI		LI		TW, SE & SL	# TH/S	n in h our	CIE Marks	Theory Marks	Term Work Marks	Viva Voce Marks	Total Marks	
					L	T	S	P	SL								
1	PROJ	2MIMP201	Planning Thesis	Architecture	84	-	168	-	108	360	-	50	-	-	50	100	12
2	PSC	2MIMP202	Modelling Urban Dynamics	Architecture	42	-	-	-	48	90	-	50	-	-	50	100	3
3	PSC	2MIMP203	Climate Resilient Cities	Architecture	42	-	-	-	48	90	3	50	50	-	-	100	3
4	PSC	2MIMP204	Economic Policy and Local Development	Architecture	28	-	-	-	32	60	3	50	50	-	-	100	2
Total					196	-	168	-	236	600		200	100	-	100	400	20

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SEMESTER	CREDITS
I	20
II	20
III	20
IV	20
V	20
VI	20
VII	24
VIII	16
IX	20
X	20
TOTAL	200

Overview of Courses, Credits, Projects, and Internships under VTU Curriculum

I. Abbreviations used in the Scheme of Teaching and Examinations

Abbreviations	Expanded Form of the Abbreviations
AICTE	All India Council of Technical Education
NCrF	National Credit Framework
VTU	Visvesvaraya Technological University
AEC	Ability Enhancement Course
ASC	Applied Science Course
BSC	Basic Science Course
CIE	Continuous Internal Evaluation
CI	Classroom Instruction
CCA	Continuous Comprehensive Assessment
CGPA	Cumulative Grade Point Average
CUL	Cultural
COE	Centre for Online Education
HSMC	Humanities Studies and Management Course
IPCC	Integrated Professional Core Course
LI	Laboratory Instruction
L	Lecture
NCMC	Non-Credit Mandatory Course
NSS	National Service Scheme
NPTEL	National Programme for Technical Enhanced Learning
OEC	Open Elective (Interdepartmental or interdisciplinary) Course
PCC	Professional Core Course
PCCL	Professional Core Course Laboratory
PEC	Professional Elective Courses
PE	Physical Education

P	Practical
SEC	Skill Enhancement Courses
SEE	Semester End Evaluation
SL	Self-Learning
SGPA	Semester Grade Point Average
SWAYAM	Study Webs of Active-Learning for Young Aspiring Minds
TW	Term Work
T	Tutorial
VTU online Course	VTU online courses offered by Centre for Online Education, Mysuru
YOG	Yoga

II. Credit Representation

1-hour Lecture (L) per week=1Credit

2-hoursTutorial(T) per week=1Credit

2-hours Studio/ Practical (P) per week=1Credit

Teaching & Learning Scheme

As per the new National Credit Framework (NCrF), 30 hours of learning of a student is considered equivalent to 1 credit. A semester is considered as a 14-week period of academic interaction with students. The learning components are categorized as follows:

1. **Classroom Instruction(CI):** Includes different instructional / implementation strategies i.e. Lecture (L), Tutorial (T), Case method, Demonstrations, Video demonstration, Problem based learning etc. to deliver theoretical concepts within the classroom measured in Number of hours per semester.
2. **Laboratory Instruction (LI):** Expressed as number of hours per semester whichIncludes experiments / practical performances / problem-based experiences in laboratory, workshop, field or other locations using different instructional / Implementation strategies.
3. **Term work (TW):** Includes assignments, seminars, presentations, case studies, micro projects, field activities, industrial visits, academic preparation duration and any other student activities in Number of hours per semester.
4. **Self-Learning (SL):** MOOCs (SWAYAM/NPTEL/Industry certified courses), spoken tutorials, online educational resources, self-initiated projects, Case studies, Field visits, Learning through digital resources etc in Number of hours per semester. (If provided in curriculum structure).

	Course Details	
1.	One Credit Theory Courses:	
	Teaching-Learning sessions in a semester	14 hours
	Examination pattern for CIE and SEE	Multiple Choice Question (MCQ)
	Teaching hours per week - L:T:P	1:0:0
2.	Two Credit Theory Courses:	
	Teaching-Learning Sessions in a semester	28 hours
	Examination pattern for CIE and SEE	Descriptive
	Teaching hours per week - L:T:P	2:0:0
4.	Three Credit ESC/ETC/PCC/PEC/OEC Courses:	
	Teaching-Learning Sessions in a semester	42 hours
	Examination pattern for CIE and SEE	Descriptive
	Teaching hours per week for theory courses - L:T:P	3:0:0
5.	Four Credit Program Core Courses (PCC):	
	Teaching-Learning Sessions in a semester	56 hours
	Examination pattern for CIE and SEE	Descriptive
	Teaching hours per week for theory courses - L:T:P	4:0:0
6.	Six/Eight Credit Integrated Professional Core Courses (IPCC):	
	Teaching-Learning Sessions in a semester (Teaching sessions: 28/56 hours + Practical sessions: 112hours)	84 to 112 hours
	Examination pattern for CIE and SEE	Descriptive
	Practical part of examination	CIE (No SEE).
	Teaching hours per week - L: T: P	3: 0: 2

III. Details of Courses

(1) Integrated Professional Core Course (IPCC): The Integrated Professional Core Course (IPCC) refers to a core theory course that is integrated with a laboratory of the same subject. Each IPCC carries 4 credits, with Teaching-Learning hours structured (L :T : P) as

either (3:0:2). The theory component of the IPCC shall be evaluated through both Continuous Internal Evaluation (CIE) and Semester End Examination (SEE).

- (2) Non-Credit Mandatory Courses (NCMC):** are aimed at enhancing students' knowledge, skills, and awareness beyond the core curriculum. Successful completion of the NCMC is compulsory for fulfilling the requirements of the academic program. It shall not be considered for the computation of SGPA, CGPA and vertical progression. Each student shall register for the prescribed NCMC(s) in the prescribed semester. A student who fails to qualify in the prescribed NCMC shall not be eligible for the conferment of the degree.
- (3) Professional Elective Courses (PEC):** A professional elective course (PEC) is intended to enhance the depth and breadth of educational experience in the Engineering and Technology curriculum of the same discipline.
- (4) Open Elective Courses (OEC):** A open elective course (OEC) is a course offered by departments other than a student's parent department. These interdepartmental /interdisciplinary courses allow students to explore disciplines beyond their core area of study. These courses are intended to promote interdisciplinary learning, broad-based education, thereby enhancing a student's overall knowledge, creativity, and employability. Registration to open electives shall be documented under the guidance of the Program Coordinator/ Advisor/Mentor/Proctor.
- (5) Ability Enhancement Course Laboratory (AEC):** An Ability Enhancement Course Laboratory is a practical, skill-oriented lab course designed to strengthen students' practical abilities, professional competencies that support communication, environmental awareness, computational thinking, interdisciplinary learning, and application skills through hands-on learning experiences. The laboratory may pertain to disciplinary or interdisciplinary involving experiments, design tasks, and mini-projects aligned with current industry practices.
- (6) Skill Enhancement Courses (SEC):** These courses are intended to develop specific practical skills and competencies that improve students' employability, technical proficiency, and professional readiness to bridge the gap between academic and industry requirements. These courses emphasize hands-on training, application of theoretical knowledge, and development of discipline-relevant and transferable skills required in industry and society, and develop entrepreneurship and start-up skills.

- (7) **Online Courses:** Online courses are educational programs delivered over the Internet through a digital platform, allowing students to access lessons, assignments, and discussions from anywhere at any time. Most online courses offer flexibility, allowing students to access materials and complete assignments on their own schedule. However, students have to pass the course within a stipulated period as per the norms of the university.
- (8) **VTU Online Courses:** VTU Online courses are online courses offered by Centre of Online Education (COE) Mysuru. A wide range of multidisciplinary courses are available to learners anywhere, anytime to earn university-prescribed credits through proctored examination for the award of a degree.
- (9) **NPTEL/SWAYAM Online Courses:** The National Programme on Technology Enhanced Learning (NPTEL)/SWAYAM (Study Webs of Active Learning for Young Aspiring Minds) are the specific Indian platforms to host national Massive Open Online Courses (MOOCs). It offers online courses on a wide range of disciplines to learners anywhere, anytime, to earn university-prescribed credits through proctored examination for the award of a degree. All NPTEL/SWAYAM courses are MOOCs, but not all MOOCs are offered on these specific Indian platforms.

IV. Bridge Courses on Mathematics for Lateral Entry Students:

This courses can be taught in the **offline** mode by the faculty of the mathematics department of the college as per the normal procedure to the students.

All lateral entry students are required to **register** compulsorily for this course in the 1st Semester and must appear for **CIE**. Passing in this course is **mandatory** for the award of the degree. Those who fail to secure the passing CIE marks, have to appear for the summer semester of the academic year or during subsequent odd semester. However, this course will not be considered for vertical progression, SGPA, and CGPA calculation.

