

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI.**



Scheme of Teaching and Examinations
M.Plan., Town & Country Planning (TCP)
(Effective from the Academic year 2022-23)

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examinations – 2022-23
M.Plan., Town & Country Planning (TCP)
Choice Based Credit System (CBCS) and Outcome-Based Education (OBE)

I Semester

Sl. No	Course	Course Code	Course Title	Teaching Hours /Week				Examination					Credits
				Lecture	Studio	Site Visits/ Skill Development Activities	Total hours	Exam duration	CIE Marks	SEE Marks		Total Marks	
										Theory	Viva voce		
L	S	SDA											
1	IPCC	22TCP11	Planning Studio-1	2	4	6	12	--	50	--	50	100	6
2	PCC	22TCP12	History of Town & Country Planning	2	--	--	2	3	50	50	--	100	2
3	PCC	22TCP13	Regional Planning Techniques	2	--	--	2	3	50	50	--	100	2
4	PSC	22TCP14	Remote Sensing & GIS-1	1	1	2	4	--	50	--	50	100	2
5	PSC	22TCP15	Elements of City Planning	2	--	--	2	3	50	50	--	100	2
6	PSC	22TCP16	Research Methodology and IPR	2	--	--	2	3	50	50	--	100	2
7	PEC	22TCP17x	Professional Elective-1	2	--	--	2	--	100	--	--	100	2
8	AUD/ AEC	22AUD18	Open Elective-1 (BOS recommended ONLINE courses)	--	2	--	2	--	--	--	--	--	2
TOTAL				13	7	8	28	12	400	200	100	700	20

Note: IPCC: Integrated Professional Core Course, PCC: Professional Core Course, PSC: Professional Support Course, PEC: Professional Elective Course, AUD/AEC –Audit Course / Ability Enhancement Course, Site Visits/ Skill Development Activities carry no credits

Professional Elective 1		Open Elective 1
Course Code under 22TCP17x	Course title	<p>Open Electives: The topics for Open Electives to be selected from the list of available courses on premier institute portals approved by BOS such as (but not limited to):</p> <p>https://www.mooc.org/ https://www.edx.org/ https://ocw.mit.edu/courses/find-by-topic/ https://nsdcindia.org/ https://www.nptel.ac.in https://coursera.org https://www.esri.com/training/mooc/</p> <p>Students can opt for Paid or Free offline (As per NEP 2020-NCC, NSS, Yoga, etc.)/ online courses offered on the portals per semester totalling a minimum of 2 Credits. Certificate of online course completion is mandatory for the award of credits. Voluntary Service with civic agencies such as DULT/BDA/BMRCL, etc., or NGOs such as Janagraha, Youth for Sewa, Sewa Dal, etc., will also be considered for the award of credits, subjected to the submission of a letter of appreciation from the concerned organization.</p> <p>Students must obtain prior consent from the institution/department before undertaking the Open Elective Course.</p>
22TCP171	Data Science for Planning	
22TCP172	Urban Design & Landscape	
22TCP173	Urban Renewal	
<p>1. Studio: Faculty and students (in a faculty-students ratio of not more than 1:10) are to involve either individually or in small groups to interact together to enhance the learning and application skills. The students should interact with Planning and Civic agencies of a medium and large-sized town/cities to understand their functioning and problems or foresee what can be undertaken for study in the form of research/ case studies/testing/projects, and for creative and innovative methods to solve the identified problem. The students shall prepare a master plan based on provisions of the KTCP act. This exercise is intended to give students;</p> <p>(1) Confidence in working along with Planning and civic agencies. (2) Work on different software/s (tools) to Simulate, analyze and authenticate the output to interpret and conclude. (3) Understand the various stakeholders – both public and private.</p>		

(4) Involve in case studies and field visits/ field work.

(5) Accustom with the use of various acts and legal provisions in preparation of master plan etc.,

2. Skill Development Activities: They may be in the form of lab exercises, periodic guest lectures, conferences, and webinars, some of which may not be a fixed slot in the timetable.

3. Audit Courses:

The Audit course can be any credit course offered by other programs/ courses run under the same institution/ campus, apart from the program to which the student is admitted. This may be taken in place of Open Elective. The student shall submit a letter requesting for the desired course/subject from the interesting program to the Head of Department to obtain NOC before the commencement of the semester.

4. Viva-voce:

The viva-voce shall be conducted for 15 minutes (per student/group- in case of group assignments) for the subjects listed under viva voce for all the semesters.

5. Site Visits:

The students, accompanied by faculty are expected to undertake mandatory site visits to gather ground-level data for Planning Studio and other exercises. Also visit various civic agencies (public/ private/NGOs) to gather data and also learn about the function of relevant agencies, their ongoing/ completed projects. The site visits shall be taken up on designated days as per the timetable. Faculty may do a reconnaissance of sites chosen for the visit, before taking students, when necessary

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II Semester

Sl. No	Course	Course Code	Course Title	Teaching Hours /Week				Examination					Credits
				Lecture	Studio	Site Visits/ Skill Development Activities	Total hours	Exam duration	CIE Marks	SEE Marks		Total Marks	
										Theory	Viva voce		
L	S	SDA											
1	IPCC	22TCP21	Planning Studio-2	2	4	6	12	--	50	--	50	100	6
2	PCC	22TCP22	Housing & Legal Framework	2	--	--	2	3	50	50	--	100	2
3	PCC	22TCP23	Demography & Statistics	2	--	--	2	3	50	50	--	100	2
4	PSC	22TCP24	Remote Sensing & GIS-2	1	1	2	4	--	50	--	50	100	2
5	PSC	22TCP25	Traffic & Transport Planning	2	--	--	2	3	50	50	--	100	2
6	PSC	22TCP26	Environmental Planning	2	--	--	2	3	50	50	--	100	2
7	PEC	22TCP27x	Professional elective 2	2	--	--	2	--	100	--	--	100	2
8	AUD/AEC	22AUD28	Open Elective-2 (BOS recommended ONLINE courses)	--	2	--	2	--	--	--	--	--	2
TOTAL				13	7	8	28	12	400	200	100	700	20

Note: IPCC: Integrated Professional Core Course, PCC: Professional Core Course, PSC: Professional Support Course, PEC: Professional Elective Course, AUD/AEC –Audit Course / Ability Enhancement Course, Site Visits/ Skill Development Activities carry no credits

Professional Elective 2		Open Elective 2
Course Code under 22TCP27x	Course title	<p>Open Electives: The topics for Open Electives to be selected from the list of available courses on premier institute portals approved by BOS such as (but not limited to):</p> <p>https://www.mooc.org/ https://www.edx.org/ https://ocw.mit.edu/courses/find-by-topic/ https://nsdcindia.org/ https://www.nptel.ac.in https://coursera.org https://www.esri.com/training/mooc/</p> <p>Students can opt for Paid or Free offline (As per NEP 2020-NCC, NSS, Yoga, etc.)/ online courses offered on the portals per semester totalling a minimum of 2 Credits. Certificate of online course completion is mandatory for the award of credits. Voluntary Service with civic agencies such as DULT/BDA/BMRCL, etc., or NGOs such as Janagraha, Youth for Sewa, Sewa Dal, etc., will also be considered for the award of credits, subjected to the submission of a letter of appreciation from the concerned organization.</p> <p>Students must obtain prior consent from the institution/department before undertaking the Open Elective Course.</p>
22TCP271	Project management in Cities	
22TCP272	Urban Farming	
22TCP273	Sustainable Cities	
<p>1. Studio: Faculty and students (in a faculty-students ratio of not more than 1:10) are to involve either individually or in small groups to interact together to enhance the learning and application skills. The students should interact with Planning and Civic agencies of a medium and large-sized town/cities to understand their functioning and problems or foresee what can be undertaken for study in the form of research/ case studies/testing/projects, and for creative and innovative methods to solve the identified problem. The students shall prepare a master plan based on provisions of the KTCP act. This exercise is intended to give students;</p> <p>(1) Confidence in working along with Planning and civic agencies. (2) Work on different software/s (tools) to Simulate, analyze and authenticate the output to interpret and conclude. (3) Understand the various stakeholders – both public and private.</p>		

(4) Involve in case studies and field visits/ field work.

(5) Accustom with the use of various acts and legal provisions in preparation of master plan etc.,

2. Skill Development Activities: They may be in the form of lab exercises, periodic guest lectures, conferences, and webinars, some of which may not be a fixed slot in the timetable.

3. Audit Courses:

The Audit course can be any credit course offered by other programs/ courses run under the same institution/ campus, apart from the program to which the student is admitted. This may be taken in place of Open Elective. The student shall submit a letter requesting for the desired course/subject from the interesting program to the Head of Department to obtain NOC before the commencement of the semester.

4. Viva-voce:

The viva-voce shall be conducted for 15 minutes (per student/group- in case of group assignments) for the subjects listed under viva voce for all the semesters.

5. Site Visits:

The students, accompanied by faculty are expected to undertake mandatory site visits to gather ground-level data for Planning Studio and other exercises. Also visit various civic agencies (public/ private/NGOs) to gather data and also learn about the function of relevant agencies, their ongoing/ completed projects. The site visits shall be taken up on designated days as per the timetable. Faculty may do a reconnaissance of sites chosen for the visit, before taking students, when necessary

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III Semester

Sl. No	Course	Course Code	Course Title	Teaching Hours /Week				Examination					Credits
				Lecture	Studio	Site Visits/ Skill Development Activities	Total hours	Exam duration	CIE Marks	SEE Marks		Total Marks	
										Theory	Viva voce		
L	S	SDA											
1	IPCC	22TCP31	Planning Studio-3	2	4	6	12	--	50	--	50	100	6
2	PCC	22TCP32	DPR & Project Appraisal	1	1	2	4	--	50	--	50	100	2
3	PCC	22TCP33	Urbanisation & Land management	2	--	--	2	3	50	50	--	100	2
4	PSC	22TCP34	Real Estate & Urban Economics	2	--	--	2	3	50	50	--	100	2
5	PSC	22TCP35	Legislation & Governance	2	--	--	2	3	50	50	--	100	2
6	PSC	22TCP36x	Professional elective-3	2	--	--	2	--	100	--	--	100	2
7	AUD/AEC	22AUD37	Open Elective-2 (BOS recommended ONLINE courses)	--	2	--	2	--	--	--	--	--	2
8	INT	22TCP38	Professional Training / Internship	(Completed during the intervening vacation of II and III semesters.)				--	--	100	100	100	6
TOTAL				11	7	8	26	9	350	150	200	700	24

Note: IPCC: Integrated Professional Core Course, PCC: Professional Core Course, PSC: Professional Support Course, PEC: Professional Elective Course, AUD/AEC –Audit Course / Ability Enhancement Course, Site Visits/ Skill Development Activities carry no credits

Professional Elective 3		Open Elective 3
Course Code under 22TCP36x	Course title	<p>Open Electives: The topics for Open Electives to be selected from the list of available courses on premier institute portals approved by BOS such as (but not limited to):</p> <p>https://www.mooc.org/ https://www.edx.org/ https://ocw.mit.edu/courses/find-by-topic/ https://nsdcindia.org/ https://www.nptel.ac.in https://coursera.org https://www.esri.com/training/mooc/</p> <p>Students can opt for Paid or Free offline (As per NEP 2020-NCC, NSS, Yoga, etc./) online courses offered on the portals per semester totalling a minimum of 2 Credits. Certificate of online course completion is mandatory for the award of credits. Voluntary Service with civic agencies such as DULT/BDA/BMRCL, etc., or NGOs such as Janagraha, Youth for Sewa, Sewa Dal, etc., will also be considered for the award of credits, subjected to the submission of a letter of appreciation from the concerned organization.</p> <p>Students must obtain prior consent from the institution/department before undertaking the Open Elective Course.</p>
22TCP361	IoT & Artificial Intelligence	
22TCP362	Spatial Data Infrastructure	
22TCP363	Planning for Disaster Management	
<p>Note:</p> <p>1. Studio Faculty and students (in a faculty-students ratio of not more than 1:10) are to involve either individually or in small groups to interact together to enhance the learning and application skills. The students should interact with Planning and Civic agencies of a medium and large-sized town/cities to understand their functioning and problems or foresee what can be undertaken for study in the form of research/ case studies/testing/projects, and for creative and innovative methods to solve the identified problem. The students shall prepare a master plan based on provisions of the KTCP act. This exercise is intended to give students; (1) Confidence in working along with Planning and civic agencies. (2) Work on different software/s (tools) to Simulate, analyze and authenticate the output to interpret and conclude.</p>		

(3) Understand the various stakeholders – both public and private.

(4) Involve in case studies and field visits/ field work.

(5) Accustom with the use of various acts and legal provisions in preparation of master plan etc.,

Dissertation: Students in consultation with the guide/co-guide, if any (with a faculty/ Guide-students ratio of not more than 1:5), shall pursue a literature survey and complete the preliminary requirements of selected Project work meeting the objective of the course. Each student shall prepare a relevant introductory project document, and present a seminar.

2. Skill Development Activities:

They may be in the form of lab exercises, periodic guest lectures, conferences, and webinars, some of which may not be a fixed slot in the timetable.

3. Audit Courses:

The Audit course can be any credit course offered by other programs/ courses run under the same institution/ campus, apart from the program to which the student is admitted. This may be taken in place of Open Elective. The student shall submit a letter requesting for the desired course/subject from the interesting program to the Head of Department to obtain NOC before the commencement of the semester.

3. Viva-voce:

The viva-voce shall be conducted for 15 minutes (per student/group- in case of group assignments) for the subjects listed under viva voce for all the semesters.

4. Site Visits:

The students, accompanied by faculty are expected to undertake mandatory site visits to gather ground-level data for Planning Studio and other exercises. Also visit various civic agencies (public/ private/NGOs) to gather data and also learn about the function of relevant agencies, their ongoing/ completed projects. The site visits shall be taken up on designated days as per the timetable. Faculty may do a reconnaissance of sites chosen for the visit, before taking students, when necessary

5. Internship Requirements: All the students have to undergo a mandatory internship of a minimum of 4 weeks (2 more weeks if VTU calendar permits it and the place of the internship is open to extension) during the vacation between II and III semesters in Public/Private Sector/NGO/Agencies/Consultants involved in the domain of City Planning and Development. A viva-voce shall be conducted during the III semester examination and the prescribed internship credit shall be counted for the same semester. The internship shall be considered as a head of passing and shall be considered for the award of degree. The students are required to submit periodic progress reports of the internship undertaken.

6. Internship Assessment: SEE marks shall be awarded by a committee comprising of Director/ Special Officer and PG course HOD/ Senior most Professor. The SEE marks awarded for the Internship shall be based on the evaluation of the Internship Report, Internship Presentation skill, and understanding of the Organisation's role by the student.

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IV Semester

Sl. No	Course	Course Code	Course Title	Teaching Hours /Week				Examination				Credits	
				Lecture	Studio	Site Visits/ Skill Development Activities	Total hours	Exam duration	CIE Marks	SEE Marks			Total Marks
										Theory	Viva voce		
L	S	SDA											
1	PROJ	22TCP41	Dissertation	6	10	12	28	--	100	--	100	200	16
TOTAL				6	10	12	28	--	100	--	100	200	16

Note:

1. Dissertation:

CIE marks shall be awarded by a committee comprising of Director/Special Officer and Guide/Co-guide. The CIE marks awarded for Dissertation, shall be based on the evaluation of Periodic reviews of Dissertation Progress- offline or online, SEE (Viva-voce) shall be based on Dissertation Presentation skill and performance in Viva in the ratio/percentage of 50:25:25, at the end of IV semester. Dissertation work evaluation and Viva-Voce examination, after satisfying the plagiarism check, shall be as per the University norms. The student is expected to interact with the guide in offline/online or hybrid mode and update his/her progress on weekly basis.

2. Site Visits:

The students, accompanied by faculty/guide (based on their availability) shall undertake mandatory site visits to gather ground-level data for their dissertation. Also, visit various civic agencies (public/ private/NGOs) to gather data about their dissertation topic. The site visits shall be taken up on designated days as per the timetable or in consultation with their respective guides.

Total Credits: 20+20+24+16= 80

