

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI.



Scheme of Teaching and Examinations and Syllabus
M.Arch-Construction Project Management
(Effective from the academic year 2022-23)

AS PER COA:

PCC: Professional Core Courses: 50-55%

PSC: Professional supporting Course 20-25%

PCE: Professional Core Elective 15-20%

PAE: Professional Ability Enhancement: 10%

OE: Open Elective: 2-5%

NEP 2020 Principles:

Main features:

1. Broad-based
2. Multi-disciplinary
3. Holistic Graduate education with a flexible curriculum
4. Creative combinations of subjects
5. Integration of vocational education
6. Self-learning process
7. Student-centric learning process rather than teaching

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI Scheme of Teaching and Examinations – 2022- 23 M.Arch (Construction Project Management) Choice Based Credit System (CBCS) and Outcome Based Education(OBE)												
I SEMESTER												
Sl. No	Course	Course Code	Course Title	Teaching Hours per Week			Examination				Credits	
				Theory	Practical/Studio	Skill Development Activities	Duration of examination in hours	CIE Marks	SEE Marks			Total Marks
				L	P	SDA			Theory	Viva /TW		
1	PCC	22CPM11	Building Management (Studio)-I	02	06	00	00	50	-	50	100	8
2	PCC	22 CPM 12	Project management - 1	02	00	04	03	50	50	-	100	4
3	PCC	22 CPM 13	Contract Management	02	00	02	03	50	50		100	3
4	PCC	22 CPM 14	Advanced building materials and construction techniques	02	00	02	03	50	50		100	3
5	PCC	22 CPM 15	Site organization & construction environmental management	02	--	02	00	50	-	50	100	3
6	MC	22 CPM 16	Research Methods	01	00	02	03	50	50		100	2
7	PSC	22CPM17	PM Software -1	01	01		-	50	-	50	100	2
8	AUD	22AUD18	BOS Recommended online course	Classes and evaluation procedures are as per the policy of the online course providers								PP
TOTAL				12	07	12	12	350	200	150	700	25
Note: PCC: Professional Core, PSC: Professional Support, PEC: Professional Elective, MC-mandatory course, AUD-Audit course, PP-Mandatory Passing.												
<p>1. Studio: Students and course instructor/s to be involved individually or in groups to interact to enhance learning and application skills. The students should interact with the construction industry (small, medium, and large), understand their problems or foresee what can be undertaken for study in the form of research/ case study testing projects, and for creative and innovative methods to solve the identified problem. Students will:</p> <p>(i) Gain confidence in working along with construction industry professionals. (ii) Work on different software/s(tools)to simulate, analyze and authenticate the output to interpret and conclude. (iii) Handle advanced construction equipment and materials to enhance technical talent.</p>												

<p>(iv) Involve in case studies and field visits/fieldwork.</p> <p>(v) Accustom to codes of standards to narrow the gap between academia and construction industry. All activities should enhance student's abilities to employment and/or self-employment opportunities, management skills, Statistical analysis, fiscal expertise, etc.</p> <p>2. Skill Development Activities: They may be in the form of periodic site visits, guest conferences, and webinars and webinars, not a fixed slot in timetables.</p> <p>3. Vivavoce: The viva voce shall be conducted for a duration of 20 minutes (per student) for the subjects listed under viva voce for all the semesters.</p> <p>4. Audit Courses: The Audit course can be any course offered by other programs/ courses run under the same institution/ campus, apart from the program/ or online course from swayam/MOOC/Coursera recommended from BOS of VTU to which the student is admitted. The student shall submit a letter requesting the desired course/subject from the interesting program to the Head of Department to obtain NOC before the commencement of the semester.</p> <p>5. Open Electives: Students must obtain prior consent from the institution/department before undertaking the Open Elective Course. A certificate of online course completion is mandatory for the award of a degree. In the absence of a Certificate of Completion, the institute shall conduct an assessment/test for the student to ascertain the skills obtained in the course.</p>
<p>Note: 1 L-1 Credit, 1P-1Credit, 2 hrs SDA=1 Credit, 2 hrs of Skill Development Activity hours include site visits/workshops/data collection and not included in teaching hours calculation, meant for self-exploration Need not be shown in the timetable.</p>

<p style="text-align: center;">VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI Scheme of Teaching and Examinations – 2022- 23 M.Arch - Construction Project Management Choice Based Credit System (CBCS) and Outcome Based Education(OBE)</p>												
II SEMESTER												
Sl. No	Course	Course Code	Course Title	Teaching Hours /Week			Examination				Credits	
				Theory	Practical/ Seminar	Skill Development Activities	Duration of examination in	CIE Marks	SEE Marks			Total Marks
									Theory	Viva/TW		
1	PCC	22CPM 21	Building Management -II (Studio II)	02	06	00	00	50	-	50	100	8
2	PCC	22 CPM 22	Project management - 2	03	00	02	03	50	50	-	100	4
3	PSC	22 CPM 23	Project resource management - 1	02	--	02	03	50	50	-	100	3
4	PEC	22 CPM 24	Quality and safety management	02	--	02	03	50	50	-	100	3
5	PCC	22 CPM 25	Functional efficiency of buildings	01	01	02	00	100	-	-	100	3
6	PSC	22 CPM 26	PM Software II	02	--	--	00	50	-	50	100	2
7	PEC	22CPM27X	Professional Elective-1	--	02	--	00	50	-	50	100	2

8	AUD	22AUD 28	BOS Recommended Online course -Swayam/M	Classes and evaluation procedures are as per the policy of the online course provider							PP	
TOTAL				12	09	10	09	400	150	150	700	25
Note: PCC: Professional Core, PSC: Professional Support, PEC: Professional Elective, MC-mandatory course, AUD-Audit course, PP-Mandatory Passing.PCC: Professional core, PEC: Professional Elective.												
Professional Elective II												
Course Code under 20XXX24X		Course title										
22CPM271		International project management										
22CPM272		Maintenance and rehabilitation of structures										
Note:												
1. Internship: All the students shall have to undergo a mandatory internship of 6 weeks during the vacation II and III semesters. A University examination shall be conducted during III semesters and the prescribed internship credit shall be counted in the same semester The internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do take up/complete the internship shall be declared as fail in the internship course and have to complete the same during the subsequent University examination after satisfying the internship requirements.												

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III SEMESTER												
Sl. No	Course	Course Code	Course Title	Teaching Hours /Week			Examination					Credits
				Theory	Practical/ Mini-Project/ Internship	Skill Development activities	Duration of examination in hours	CIE Marks	SEE Marks		Total Marks	
									L	P		
1	PCC	22CPM31	Project resource management - 2	02	00	02	03	50	50	-	100	4
2	PSC	22 CPM 32	Building energy analysis management	02	-	02	03	50	50	-	100	4
3	PCC	22 CPM 33	Financial management	02	00	02	03	50	50	-	100	3
4	PCC	22 CPM 34	Dissertation Phase I	2	01	-	-	50	-	50	100	3
5	PSC	22CPM 35	Project formulation &Appraisal	3	-	-	03	50	00	50	100	3

6	PEC	22 CPM 36X	Professional Elective II	02	-	-	-	50	-	50	100	2
7	PSC	22 CPM 37	Internship	(Completed after II semester and before the commencement of III semesters.)				50	-	50	100	3
8	PSC	22CPM38	Real Estate Management	02	01	01	00	50	-	50	100	03
TOTAL				17	02	07	12	450	150	300	900	25
Note: PCC: Professional core, PEC: Professional Elective, PSC-Professional Supportive course												
Professional elective II												
Course Code under 22CPM36X		Course title										
22CPM361		Airport Planning and Design										
22CPM362		Infrastructure Management–Tunelling, Marine / Offshore Construction										
22CPM363		Value Engineering in Construction Management										
22CPM364		Disaster Management										
22CPM365		Risk & Safety Management.										

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI												
Scheme of Teaching and Examinations – 2022 –23												
M.Arch- Architecture & Construction Project Management												
Choice Based Credit System (CBCS) and Outcome Based Education(OBE)												
IV SEMESTER												
Sl. No	Course	Course Code	Course Title	Teaching Hours /Week			Examination					Credits
				Theory	Practical/Field work	Skill dev. Activity/self learning	Duration of examination in hours	CIE Marks	SEE Marks Viva voce		Total Marks	
				L	P	SDA			Theory	TW/viva		
1	Project	22CPM41	Dissertation phase - 2 (Thesis)	02	12	12	00	50		50	100	22
2	PSC	22CPM42	Facility management	02	00	02	00	50	-	50	100	03
TOTAL				04	12	14	03	100	50	50	200	25

	<p>Note:</p> <p>1. Dissertation Phase-2:</p> <p>CIE marks shall be awarded by a committee comprising of HoD as Chairman, Guide/co-guide, if any, and a Senior faculty of the department. The CIE marks awarded for project work phase -2, shall be based on the evaluation of Project Report subjected to plagiarism check, Project Presentation skill and performance in Question and Answer session in the ratio 50:25:25.</p> <p>SEE shall be at the end of IV semester. Project work evaluation and Viva-Voce examination (SEE), after satisfying the plagiarism check, shall be as per the University norms.</p> <p>Open Elective: Open elective to be chosen by students based on their interest pertaining to CPM from Swayam/Mooc/Coursera etc, permission for pursuing these courses to be sought from the school. (Minimum of 12 weeks course)</p>
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Semester	Credits
I	25
II	25
III	25
IV	25
TOTAL	100.

