

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examinations – 2024
M.Arch. Construction Project Management (CPM)
Choice Based Credit System (CBCS) and Outcome Based Education(OBE)

I Semester -Scheme A

Sl. No	Course	Course Code	Course Title	Teaching Hours per Week			Examination					Credits	
				Theory	Studio/Seminar	Tutorial/ Skill Development Activities	Duration in hours	CIE Marks	SEE Marks				Total Marks
				L	P/S	T/SDA			TH	ViV A	TW		
1	ISC with PCC and PCCL (Integrated Studio Course)	MCPM101	BUILDING MANAGEMENT-1	01	05	01	00	50		50		100	6
2	PCC	MCPM102	PROJECT MANAGEMENT-1	02	02	00	03	50	50			100	4
3	PCC	MCPM103	CONTRACT MANAGEMENT-1	03	00	01	03	50	50			100	4
4	PSC	MCPM104	ADVANCED MATERIALS AND CONSTRUCTION TECHNIQUES	02	00	01	03	50	50			100	3
5	PEC	MCPM115X	ELECTIVE-1	02	00	01	00	100				100	3
6	PCCL	MCPML106	PM SOFTWARE-1	02	00	02	00	50	-		50	100	3
7	NCMC	MRMI07	Research Methodology for Planning & Architectural Studies	Online courses (online.vtu.ac.in)									PP
				17	05	07	24	350		250		600	23

Note: **ISC**-Integrated Studio Course, **NCMC**- None Credit Mandatory Course, **PCCL**-Professional Core Course lab, **PEC**- Professional Elective Course **AUD/AEC** –Audit Course / Ability Enhancement Course, **L-Lecture, S-Studio, T/SDA-Tutorial / Skill Development Activities** (Hours are for Interaction between faculty and students)

	Professional Elective course code 1 under MCPM115X	Professional Elective course title
1	MCPM115 A	CONSTRUCTION ENVIRONMENTAL MANAGEMENT
2	MCPM115 B	VALUE ENGINEERING IN CONSTRUCTION MANAGEMENT
3	MCPM115C	LEAN CONSTRUCTION

Integrated Studio Course (ISC): Refers to a Professional Studio Core Course Integrated with the theories/software relating to the studio. The theory part of the ISC shall be evaluated by CIE with regular assignment. The studio part shall be evaluated by both CIE & SEE (Viva-Voce with the external examiner).

ISC: with PCC and PCCL (Integrated Studio Course)

Professional Core Course (PCC): Refers to a Course, which constitutes a major theory part of the particular specialization.

PSC: Professional Supportive Course to the Specialisation

PEC: Professional Elective Course: Elective courses will provide some of the most valuable and additional knowledge. The students will benefit from electives as they imply additional knowledge. Students may select courses from a large array of subjects that enhance their knowledge.

1. Studio:

- (i) Students and studio coordinators to be involved individually or in groups to interact and enhance learning and application skills.
- (ii) The students should be involved with Industry/ Professional Bodies/ Stakeholders in issue identification followed by research/ case studies/ testing that results in creative and innovative solutions to the identified problems.
- (iii) Students will gain real-world experience by working with industry professionals
- (iv) Students must work on different software/s(tools) to simulate, analyze, and authenticate the output to interpret and conclude.
- (v) Students must be involved in case studies and site visits/fieldwork.
- (vi) Students must familiarize themselves with codes of standards to narrow the gap between academia and the respective domain-oriented industry.

2. All activities should enhance student's abilities for employment and /or self-employment opportunities, management skills, Statistical analysis, fiscal expertise, etc.

3. **Skill Development Activities:** They may be in the form of periodic site visits, guest lectures, and webinars, and seminars, need not be a fixed slot in timetables.

Also the student Under Skill development activities in a respective program, the students should

1. Interact with industry (construction/consultancy/product oriented).
2. Involve in research/testing/projects to understand their problems and help creative and innovative methods to solve the problem.
3. Involve in case studies and field visits/ fieldwork.
4. Accustom to the use of standards/codes/byelaws/zoning regulations etc., to narrow the gap between academia and industry.

All activities should enhance student's abilities to employment and/or self-employment opportunities, management skills, statistical analysis, fiscal expertise, etc. Students and the course faculty are to be involved either individually or in groups to interact together to enhance the learning and application skills of the study they have undertaken. The students with the help of the course teacher can take up relevant technical activities that enhance their skills. The prepared report shall be evaluated for CIE marks.

4. Viva-voce:

The viva -voce shall be conducted for a duration of 20 minutes (per student including if any group presentation) for the subjects listed under viva voce for all the semesters with one external examiner and one internal examiner.

MRMI107-Research Methodology and IPR- Non-Credit Mandatory Course (NMC) The student has to take this course at

<http://online.vtu.ac.in> and qualifying in this course is compulsory before completion of the minimum duration of the program (Two years), however, this course will not be considered for vertical progression.

Online Course: These are the MOOC courses that the relevant stream's Board of Studies has recommended; you can access them at www.online.vtu.ac.in. To qualify for those courses, the students must complete 8-12 weeks duration courses. The courses chosen have not to be the same as that of the courses or subjects covered in the preceding semesters. Depending on the needs of the degree program, the BOS may recommend interdisciplinary courses. It is required to pass the course and qualify

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II SEMESTER- SCHEME A														
Sl. No	Course	Course Code	Course Title	Teaching Hours			Examination					Credits		
				Theory	Studio/ Seminar	Tutorial/ Skill Development Activities	Duration in hours	CIE Marks	SEE Marks					Total Marks
									L	S	T/SDA			
1	ISC with PCC and PCCL (Integrated Studio	MCPM201	BUILDING MANAGEMENT 2	02	06	00	00	50		50		100	9	VIVA
2	PCC	MCPM202	PROJECT MANAGEMENT 2	02	00	02	03	50	50			100	4	EXAM
3	PCC	MCPM203	PROJECT RESOURCE MANAGEMENT	03	02	00	03	50	50			100	4	EXAM
4	PSC	MCPM204	BUILDING ENERGY ANALYSIS AND MANAGEMENT	02	00	02	03	50	50			100	3	EXAM
5	PEC	MCPM215X	ELECTIVE 2	02	00	02	--	100				100	3	TERM WORK
6	PSC	MCPML206	PM SOFTWARE 2	00	02	01	03	50		50		100	3	TERM WORK
7	Proj	MCPM 287	DISSERTATION PHASE 1 (SYNOPSIS SUBMISSION)	00	00	01	00	50	00	50	00	100	2	VIVA
TOTAL				13	10	10	21	450				700	28	
Professional Elective 2														
Course Code under		Course title												
MCPM215 A		PROJECT FORMULATION & APPRAISAL												
MCPM215 B		FUNCTIONAL EFFICIENCY OF BUILDINGS												

MCPM215 C	INTERNATIONAL PROJECT MANAGEMENT			

For the students who are willing to take a semester duration Industry internship

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III SEMESTER (SCHEME A)														
Sl. No	Course	Course Code	Course Title	Teaching Hours /Week			Examination					Credits		
				Theory	Studio/ Seminar	Tutorial/ Skill Development Activities	Duration in hours	CIE Marks	SEE Marks					Total Marks
									L	P				
1	ISC/PCC	MCPM381	DISSERTATION (Phase 2 Thesis)	02	12	00		50		50		100	12	VIVA
2	PEC	MCPM312	FINANCIAL MANAGEMENT	02	00	02		50	50	---	--	100	03	CIE
3	PEC	MCPM 313X	ELECTIVE 3	02	00	02		100	100			200	02	CIE
4	NCCM	MCPM314X	BOS Recommended online course										PP Mandatory	
TOTAL				02	12	02		150	50			200	17	
Professional Elective				Professional Elective 2 (ONLINE)										
Course Code under MCPM 313 X			Course Title											
MCPM313 A			INFRASTRUCTURE MANAGEMENT- AIRPORTS,											

	TUNNELLING MARINE/OFFSHORE CONSTRUCTION			
MCPM313B	DISASTER MANAGEMENT			
MCPM313C	FACILITY MANAGEMENT			
MCPM313 D	REAL ESTATE MANAGEMENT			
<p>Note: PEC: Professional Elective Courses, L-Lecture, P-Practical, T/SDA-Tutorial / Skill Development Activities (Hours are for Interaction between faculty and students). INT: Internship: Research Internship / Industry Internship Leading to the project work /start-up, PROJ: Project Phase-I: Problem statement out of undergone Internship (Industry /Research) report submission</p>				
<p>DISSERTATION (24PROJ41): The objective of the Dissertation is</p> <ul style="list-style-type: none"> • To encourage independent learning and innovative attitude among the students. • To develop an interactive attitude, communication skills, organization, time management, and presentation skills. • To impart flexibility and adaptability. • To inspire teamwork. • To expand intellectual capacity, credibility, judgment, and intuition. • To adhere to punctuality, goal setting and meeting deadlines. • To instill responsibilities to oneself and others. • To train students to present the topic of project work in a seminar confidently, with enhanced communication skills, contribute to and exchange ideas in group discussions and foster the ability to receive positive criticism <p>CIE procedure for Project Work: The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department one of whom shall be the Guide, or external reviewer whoever takes mid-review on invitation by the department. The CIE marks awarded for the dissertation work shall be based on the evaluation of the dissertation design/project Report, presentation skill, and question and answer session in the periodic reviews. 50% weightage to be given to the strategies & solutions developed.</p> <p>SEE procedure for Dissertation: The two examiners appointed by the University will conduct SEE for dissertation work with one internal examiner. The SEE marks awarded for the project work shall be based on the objectives and rubrics set and the final presentation, including the portfolio/dissertation report/Patent filed/ Copy Rights , Research Papers Published, which showcases the outcome of a dissertation. The weightage of the above may vary based on the specialization/ topic of the dissertation.</p>				

Scheme A:

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IV SEMESTER (A)											
Sl. No	Course	Course Code	Course Title	Teaching Hours /Week		Examination				Credits	
				Theory	Practical/Field work	Duration in hours	CIE Marks	SEE Marks Viva voce	Total Marks		
				L	P						
1	INT	MINT481	Internship				50	50	100	12	VIVA
TOTAL						08hrs/day	50	50	100	12	

TOTAL CREDITS: 23+28+17+12=80 (with a one-semester internship in 4th semester)