

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELAGAVI**



Scheme of Teaching and Examinations

M.Tech. in Civil Engineering

(Specialization in Construction Technology)

Choice Based Credit System (CBCS) and Outcome Based Education (OBE)

Specialization in –(CCT)

II SEMESTER

| Sl. No | Course | Course Code | Course Title | Teaching Hours /Week | | | Examination | | | Credits | |
|---|---------|-------------|--|----------------------|--------------------|--|-------------------|------------|------------|------------|-------------|
| | | | | Theory | Practical/ Seminar | Tutorial/ Skill Development Activities | Duration in hours | CIE Marks | SEE Marks | | Total Marks |
| | | | | L | P | T/SDA | | | | | |
| 1 | IPCC | MCCT201 | Pre Engineered Construction Technology | 03 | 02 | 00 | 03 | 50 | 50 | 100 | 4 |
| 2 | IPCC | MCCT202 | Construction Materials | 02 | 02 | 00 | 03 | 50 | 50 | 100 | 3 |
| 3 | PCC | MCCT203 | Restoration and Rehabilitation of the Structures | 02 | 00 | 02 | 03 | 50 | 50 | 100 | 3 |
| 4 | PCC | MCCT204 | Mechanization in Construction | 02 | 00 | 02 | 03 | 50 | 50 | 100 | 3 |
| 5 | PEC | MCCT215X | Professional Elective Course -3 | 02 | 00 | 02 | 03 | 50 | 50 | 100 | 3 |
| 6 | PEC | MCCT216X | Professional Elective Course -4 | 02 | 00 | 02 | 03 | 50 | 50 | 100 | 3 |
| 7 | PCCL | MCCT L207 | Software Application Laboratory | 01 | 02 | 00 | 03 | 50 | 50 | 100 | 2 |
| 8 | AEC/SEC | MCCT258 | Ability/Skill Enhancement Course | 00 | 02 | --- | 02 | 50 | 50 | 100 | 1 |
| | | | | 01 | 00 | --- | 01 | | | | |
| TOTAL | | | | | | | | 400 | 400 | 800 | 22 |
| <p>Note: PCC: Professional core. IPCC-Integrated Professional Core Courses, PCC(PB): Professional Core Courses (Project Based), PCCL-Professional Core Course lab, PEC- Professional Elective Courses, MDC- Multi-Disciplinary Courses , L-Lecture, P-Practical, T/SDA-Tutorial / Skill Development Activities (Hours are for Interaction between faculty and students) L-Lecture, P-Practical, T/SDA-Tutorial / Skill Development Activities (Hours are for Interaction between faculty and students) PBLC: Project Based Learning Course, Note: xxx means specialization code for example MDE- Design Engineering, LDN- Digital Communication and Networking, SCE- Computer Engineering, CCT- Construction Technology, AUD- Urban Design, MBA- Master of Business Administration, MCA-Master of Computer Application, etc</p> | | | | | | | | | | | |
| Ability / Skill Enhancement Courses | | | | | | | | | | | |

Ability Enhancement Courses (AEC): These courses are designed to help students enhance their skills in communication, language, and personality development. They also promote a deeper understanding of subjects like social sciences and ethics, culture and human behaviour, human rights, and the law. **Skill Enhancement Course (SEC):** Skill Enhancement Course means a course designed to provide value-based or skill-based knowledge and should contain both theory and lab/hands-on/training/fieldwork. The main purpose of these courses is to provide students with life skills in the hands-on mode to increase their employability.

If AEC/SEC courses are ONLINE (MOOCs) courses, suggested by the concerned board of studies. These courses will be made available on [www. online.vtu.ac.in](http://www.online.vtu.ac.in),

For Professional Elective Course

| Professional Elective Course-III (PEC) | | Professional Elective Course-IV (PEC) | |
|--|-------------------------------------|---------------------------------------|--|
| Code | Title of the Course | Code | Title of the Course |
| MCCT215A | Construction Economics and Finance | MCCT216A | Building Cost and Quality Management |
| MCCT215B | Building Services and Maintenance | MCCT216B | Construction Quality and Safety |
| MCCT215C | Advanced Reinforced Concrete Design | MCCT216C | Earthquake Resistant Design of Structure |

PCC/PCCL/IPCC/PEC/MDC/PCC (PB): These are the courses which will suit the individual specializations