

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELAGAVI**



Scheme of Teaching and Examinations

M.Tech. in CSE

Computer Science and Engineering

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

| II SEMESTER (Core Courses related to main Engineering Stream) | | | | | | | | | | | |
|--|----------------------------------|-------------|---|-------------------------|-----------------------|------------------|-------------------|------------|------------|------------|-------------|
| Sl. No | Course Type | Course Code | Course Title | Teaching Hours per Week | | | Examination | | | Credits | |
| | | | | Theory | Practical/ Seminar | Tutorial/ SDA | Duration in hours | CIE Marks | SEE Marks | | Total Marks |
| | | | | L | P | T/SDA | | | | | |
| 1 | PCC/PEC/ MDC/PCC(PB) /IPCC | MSCS201 | Advanced Operating System | 3 | 0 | 0 | 03 | 50 | 50 | 100 | 3 |
| 2 | | MSCS202 | Advances in Computer Networks | 3 | 1 | 0 | 03 | 50 | 50 | 100 | 4 |
| 3 | | MSCS203 | Network Programming | 3 | 0 | 0 | 03 | 50 | 50 | 100 | 3 |
| 4 | | MSCS214x | Professional Elective 1 | 3 | 0 | 0 | 03 | 50 | 50 | 100 | 3 |
| 5 | | MSCS215x | Professional Elective 2 | 3 | 0 | 0 | 03 | 50 | 50 | 100 | 3 |
| 6 | | MSCS206 | Mini Project with Seminar | 3 | 0 | 0 | 03 | 50 | 50 | 100 | 3 |
| 7 | PCCL | MSCSL207 | Network Programming Lab | 0 | 2 | 0 | 03 | 50 | 50 | 100 | 2 |
| 8 | SEC | MSCS258 | SKILL ENHANCEMENT FOR RESEARCH EXCELLENCE-1 | 2 | 0 | 0 | 03 | 50 | 50 | 100 | 1 |
| | | | | | | | | 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)</p> <p>L-Lecture, P-Practical, T/SDA-Tutorial / Skill Development Activities (Hours are for Interaction between faculty and students)</p> <p>PBLC: Project Based Learning Course,</p> <p>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> | | | | | | | | | | | |
| <p>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</p> | | | | | | | | | | | |

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**

For Professional Elective Course

| Professional Elective Course-I (PEC) | | Professional Elective Course-II (PEC) | |
|---|----------------------------------|--|--|
| Code | Title of the Course | Code | Title of the Course |
| MSCS214A | Blockchain Technology | MSCS215A | Computer Vision |
| MSCS214B | Information and Network Security | MSCS215B | Wireless Network and Mobile Computing |
| MSCS214C | Deep Learning | MSCS215C | Software Project Planning and Management |
| MSCS214D | Decision Support Systems | MSCS215D | Multimedia Communications |