

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELAGAVI



Scheme of Teaching and Examinations
M.Tech., in Computer Science and Engineering
(Specialization in Cyber Security)

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

Specialization in –(SCR)											
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	PCC/PEC/ MDC/PCC(PB) /IPCC	MSCS201	Advances in Operating Systems	3	0	0	03	50	50	100	3
2		MSCR02	Ethical Hacking	3	0	1	03	50	50	100	4
3		MSCR203	Block Chain Technology	3	0	0	03	50	50	100	3
4		MSCR214x	Professional Elective - 1	3	0	0	03	50	50	100	3
5		MSCR215x	Professional Elective - 2	3	0	0	03	50	50	100	3
6		MSCR206	Mini project with Seminar	3	0	0	03	50	50	100	3
7	PCCL	MSCRL207	Ethical Hacking Laboratory	0	2	0	03	50	50	100	2
8	AEC/SEC	MSCS258	Skill Enhancement For Research Excellence-1	00	02	---	02	50	50	100	1
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>											
<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 students with life skills in the hands-on mode to increase their employability.</p>											
<p>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,</p>											

For Professional Elective Course

Professional Elective Course-1 (PEC)			Professional Elective Course- 2 (PEC)	
Code	Title of the Course		Code	Title of the Course
MSCR214A	Defensive Security		MSCR215A	Secured programming
MSCR214B	Cyber threat Simulation Management		MSCR215B	Biometric security
MSCR214C	CYBER SECURITY AND CYBER LAW		MSCR215C	Advanced cryptographic Techniques
MSCR214D	Data Protection and Security		MSCR215D	File system forensic Analysis