

School of Information, Security and Data Science Department of Information Technology Course Structure

For M.Tech. (Cyber Security) Program from Academic Session: 2025-26

Duration: 2 Years, Total Number of Credits: 75

FIRST SEMESTER					SECOND SEMESTER						
Course Code	Course Name	L	Т	Ρ	С	Course Code	Course Name	L	Т	Ρ	C
	Cyber Security: Concepts, Theory, Practice	3	1	0	4		Digital Forensics	3			4
	Cryptogra phy and network security	3	1	0	4		Incident response and Threat Intelligence	3	1	0	4
	Vulnerability Assessments and Penetration Testing	3	1	0	4		Governance, risk and compliance	З	0	0	3
	Artificial Intelligence and Machine Learning for Cyber Security	3	0	0	3		Privacy and Data Protection Regulations	3	0	0	3
	Program Elective-1	3	0	0	3		Program Elective-2	3	0	0	3
	Secure programming Lab	0	0	4	2		Program Elective-3	3	0	0	3
	VAPT Lab	0	0	4	2		Digital Forensics Lab	0	0	4	2
	Self Study MLC / Research Methodology	2	0	0	2		Threat Intelligence Lab	0	0	4	2
	Project - 1 / Research Practice - 1	0	0	4	2		Project -2 / Research Practice - 2	0	0	4	
											26
Total Co	ntact Hours (L+T+P)	17	3	1 2	32	Total Cor	ntact Hours (L+T+P)	1 8			32
Blockcha Web Appl Cloud Sec PE-II Mobile Ap Hardware	in Technology lication Security curity pplication Security e Security					Adversaria	al Machine Learning	curi	ity		
	Code	Course CodeCourse NameCodeCyber Security: Concepts, Theory, PracticeCryptogra phy and network securityVulnerability Assessments and Penetration TestingArtificial Intelligence and Machine Learning for Cyber SecurityProgram Elective-1Secure programming LabVAPT LabSelf Study MLC / Research MethodologyProject - 1 / Research Practice - 1Total Contact Hours (L+T+P)PE-I Cyber Law and Ethics Blockchain Technology Web Application Security	Course CodeCourse Name Concepts, Theory, PracticeLCyber Security: Concepts, Theory, Practice3Cryptogra phy and network security3Vulnerability Assessments and Penetration Testing3Artificial Intelligence and Machine Learning for Cyber Security3Program Elective-1 programming Lab3VAPT Lab0VAPT Lab0Secure programming Lab0VAPT Lab0Project - 1 / Research Methodology0Project - 1 / Research Practice - 117PE-I Cyber Law and Ethics Blockchain Technology Web Application Security17PE-II Mobile Application Security Hardware Security17	Course CodeCourse Name Cyber Security: Concepts, Theory, PracticeICyber Security: Concepts, Theory, Practice31Cryptogra phy and network security31Vulnerability Assessments and Penetration Testing31Artificial Intelligence and Machine Learning for Cyber Security30Program Elective-130Secure programming Lab00VAPT Lab00Self Study MLC / Research Methodology20Project - 1 / Research Practice - 100Total Contact Hours (L+T+P)173PE-I Cyber Law and Ethics Blockchain Technology Web Application Security Cloud SecurityPE-II Mobile Application Security Hardware Security	Course CodeCourse Name Concepts, Theory, PracticeLTPCyber Security: Concepts, Theory, Practice310Cryptogra phy and network security310Vulnerability Assessments and Penetration Testing310Artificial Intelligence and Machine Learning for Cyber Security300Program Elective-1300Secure programming Lab004Self Study MLC / Research Methodology200Project - 1004Total Contact Hours (L+T+P)1731 2PE-I Cyber Law and Ethics Blockchain Technology Web Application Security1731 2PE-II Mobile Application Security Hardware Security1731 2	Course CodeCourse Name Concepts, Theory, PracticeLTPCCryptogra phy and network security3104Vulnerability Assessments and Penetration Testing3104Artificial nothine Learning for Cyber Security3003Program Elective-13003Program Elective-13003VAPT Lab0042Self Study MLC / Research Methodology2002Project - 10042Protect - 10042Project - 10042Project - 10042Protect - 10042Project - 10042PE-I Cyber Law and Ethics Blockchain Technology Web Application Security131PE-II Mobile Application SecurityHardware SecurityI3	Course CodeCourse Name CodeLTPCCourse CodeCyber Security: Concepts, Theory, Practice3104Cryptogra phy and network security3104Vulnerability Assessments and Penetration Testing3104Artificial Intelligence and Machine Learning for Cyber Security3003Program Elective-13003Secure programming Lab0042VAPT Lab0042Self Study MLC / Research Methodology2002Project - 1 / Practice - 10042For Londact Hours (L+T+P)173132Total Contact Hours (L+T+P)PE-II Wobile Application SecurityVaPT LabVaPT LabVaPT LabVaPT LabPE-II Mobile Application Security173132Total Contact Hours (L+T+P)PE-II Mobile Application SecurityVaPT LabVaPT LabVaPT LabVaPT Lab	Course CodeCourse Name Cyber Security: Concepts, Theory, PracticeIIPCCourse CodeCourse Name CodeCryptogra phy and network security3104Incident response and Threat IntelligenceVulnerability Assessments and Penetration Testing3104Governance, risk and complianceArtificial intelligence and Wachine Learning for Cyber Security3003Privacy and Data Protection RegulationsProgram Elective-13003Program Elective-2Secure programming Lab0042Program Elective-3VAPT Lab0042Digital Forensics LabSelf Study MLC / Research Practice - 10042Project -2 / Research Practice - 2PE-I Cyber Law and Ethics Blockchain Technology Web Application Security Cloud Security173132Total Contact Hours (L+T+P)PE-II Mobile Application Security Hardware SecurityFe-IIIPe-III Cyber Physical Systems (CPS) Sec Adversarial Machine Learning Cloud SecurityPe-III Cyber Physical Systems (CPS) Sec Adversarial Machine Learning Cloud Security	Course CodeCourse Name CodeLTPCCourse CodeCourse Name CodeLCyber Security: Practice3104Digital Forensics3Cryptogra phy and network security3104Incident response and Threat Intelligence3Vulnerability Assessments and Penetration Testing3104Governance, risk and compliance3Artificial intelligence and Machine Learning for Cyber Security3003Privacy and Data Protection Regulations3Program Elective-13003Program Elective-23Secure programming Lab0042Program Elective-33VAPT Lab0042Digital Forensics Lab00VAPT Lab0042Project -2 / Research Project -1 / Research26Threat Intelligence Lab0PE-I Cyber Law and Ethics Blockchain Technology Web Application Security13132Total Contact Hours (L+T+P)1PE-II Mobile Application Security Hardware SecurityFe-II Hardware SecurityPE-II Cuod SecurityCloud SecurityCloud Security	Course CodeCourse Name CodeLTPCCourse CodeCourse Name CodeLTCyber Security: Practice3104Digital Forensics311Practice3104Incident response and Threat Intelligence311Vulnerability Assessments and Penetration Testing3104Governance, risk and compliance30Artificial Intelligence and Machine Learning for Cyber Security3003Privacy and Data Protection Regulations30Program Elective-13003Program Elective-230Secure programming Lab0042Digital Forensics Program Elective-300VAPT Lab0042Digital Forensics Lab000VAPT Lab0042Program Elective-330Project - 1 / Research Methodology0042Project -2 / Research Practice - 200PE-II Mobile Application Security Hardware Security13131312PE-II Mobile Application Security Hardware SecurityFE-IIINobile Application Security Hardware Security131112PE-II Mobile Application Security0042PE-III Coud Security <td< td=""><td>Course CodeCourse Name CodeLTPCCourse CodeCourse Name CodeLTPCyber Security: Concepts, Theory, Practice3104Digital Forensics310PracticeCryptogra phy and network security3104Incident response and Threat Intelligence310Vulnerability Assessments and Penetration Testing3104Governance, risk and compliance300Artificial Intelligence and Machine Learning for Cyber Security3003Privacy and Data Protection Regulations300Program Elective-13003Program Elective-2300Secure programming Lab0042Program Elective-3300VAPT Lab0042Digital Forensics Lab000VAPT Lab0042Project -2 / Research Practice - 10042Peilt Cyber Law and Ethics Blockchain Technology Web Application Security173132Total Contact Hours (L+T+P)121PE-II Mobile Application SecurityFE-II Hardware SecurityPE-III Cyber Physical Systems (CPS) Security Adversarial Machine Learning Cloud SecurityPE-III Cyber Physical Systems (CPS) Security</td></td<>	Course CodeCourse Name CodeLTPCCourse CodeCourse Name CodeLTPCyber Security: Concepts, Theory, Practice3104Digital Forensics310PracticeCryptogra phy and network security3104Incident response and Threat Intelligence310Vulnerability Assessments and Penetration Testing3104Governance, risk and compliance300Artificial Intelligence and Machine Learning for Cyber Security3003Privacy and Data Protection Regulations300Program Elective-13003Program Elective-2300Secure programming Lab0042Program Elective-3300VAPT Lab0042Digital Forensics Lab000VAPT Lab0042Project -2 / Research Practice - 10042Peilt Cyber Law and Ethics Blockchain Technology Web Application Security173132Total Contact Hours (L+T+P)121PE-II Mobile Application SecurityFE-II Hardware SecurityPE-III Cyber Physical Systems (CPS) Security Adversarial Machine Learning Cloud SecurityPE-III Cyber Physical Systems (CPS) Security

Total Contact Hours (L+T+P)=32 Total Credits:26			Total Contact Hours (L+T+P)= 32 Total Credits:26			
	THIRD SEMESTE	FOURTH SEMESTER				
Ш	Internship-I/ Dissertation-I	11	Internship-II/ Dissertation-II	12		
	Total Credit	s=11	Total Credits=12			

$^{\prime}$