

PANDIT DEENDAYAL PETROLEUM UNIVERSITY GANDHINAGAR
SCHOOL OF TECHNOLOGY

COURSE STRUCTURE FOR M.TECH - CYBER SECURITY

Semester I			M. Tech. - Cyber Security										
Sr. No	Course Code	Course Name	Teaching Scheme					Exam Scheme					Total
			L	T	P	C	Hrs /wk	Theory			Practical		
								MS	ES	IA	LW	LE/ Viva	Marks
1	CS XXXT	Mathematical Foundation of Cyber Security	3	1	0	4	4	25	50	25	--	--	100
2	CS XXXT	Algorithms and Complexity	3	0	0	3	3	25	50	25	--	--	100
3	CS XXXP	Algorithms and Complexity Lab	0	0	2	1	2	--	--	--	50	50	100
4	CS XXXT	Cryptography and Network Security	3	0	0	3	3	25	50	25	--	--	100
5	CS XXXP	Cryptography and Network Security Lab	0	0	2	1	2	--	--	--	50	50	100
6	CS XXXT	Cyber Forensics	3	0	0	3	3	25	50	25	--	--	100
7	CS XXXP	Cyber Forensics Lab	0	0	2	1	2	--	--	--	50	50	100
8	CS XXXP	Cyber Security Tools I	0	0	4	2	4	0	0	0	50	50	100
9	CS XXXP	Capstone Project I	0	0	4	2	4	0	0	0	Three reviews (30, 30 and 40 marks)		100
Total			12	1	14	20	27	100	200	100	200	200	900

MS = Mid Semester, ES = End Semester; IA = Internal assessment (like Test/quizzes, assignments etc.)

LW = Laboratory work; LE = Laboratory Exam

PANDIT DEENDAYAL PETROLEUM UNIVERSITY GANDHINAGAR

SCHOOL OF TECHNOLOGY

COURSE STRUCTURE FOR M.TECH - CYBER SECURITY

Semester II			M. Tech. - Cyber Security										
Sr. No	Course Code	Course Name	Teaching Scheme					Exam Scheme					Total
			L	T	P	C	Hrs /wk	Theory			Practical		
								MS	ES	IA	LW	LE/Viva	Mark s
1	CS XXXT	Secure Programming	3	0	0	3	3	25	50	25	--	--	100
2	CS XXXP	Secure Programming Lab	0	0	2	1	2	--	--	--	50	50	100
3	CS XXXT	Department Elective I	3	0	0	3	3	25	50	25	--	--	100
4	CS XXXP	Department Elective I Lab	0	0	2	1	2	--	--	--	50	50	100
5	CS XXXT	Department Elective II	3	0	0	3	3	25	50	25	--	--	100
6	CS XXXP	Department Elective II Lab	0	0	2	1	2	--	--	--	50	50	100
7	CS XXXT	Department Elective III	3	0	0	3	3	25	50	25	--	--	100
8	CS XXXP	Department Elective III Lab	0	0	2	1	2	--	--	--	50	50	100
9	CS XXXP	Cyber Security Tools II	0	0	4	2	4	0	0	0	50	50	100
10	CS XXXP	Capstone Project II	0	0	4	2	4	0	0	0	Three reviews (30, 30 and 40 marks)		100
11		Successful research and Development Program	2	0	0	2	2						NP/P P
		Total	14	0	16	22	30	100	200	100	250	250	1000

MS = Mid Semester, ES = End Semester; IA = Internal assessment (like Test/quizzes, assignments etc.)

LW = Laboratory work; LE = Laboratory Exam

List of Department Electives (Sem II)

Course Code	Course Name
CPXXXT	Cyber Crime and Investigation
CPXXXT	Advanced Computer Security
CPXXXT	Authentication Protocols in Cyber Space
CPXXXT	Cyber Attacks and Defence
CPXXXT	Privacy in Cyber Network
CPXXXT	Software Quality Assurance
CPXXXT	Machine Learning in Cyber Security

****All students are required to complete 6 weeks industrial internship after first year and before commencement of second year.

PANDIT DEENDAYAL PETROLEUM UNIVERSITY GANDHINAGAR
SCHOOL OF TECHNOLOGY

COURSE STRUCTURE FOR M. TECH - CYBER SECURITY													
Semester III			M. Tech. - Cyber Security										
Sr. No.	Course/Lab Code	Course/Lab Name	Teaching Scheme					Examination Scheme					
			L	T	P	C	Hrs./Week	Theory			Practical		Total Marks
								CE	MS	ES	CE	ES	
1	CS XXX	Seminar				5		--	40	60			100
2	CS XXX	Project				14		--	40	60			100
		Industrial Training											NP/PP
		TOTAL				19			80	120			200

CE- Continuous Evaluation, MS-Mid Semester; ES – End Semester Exam

PANDIT DEENDAYAL PETROLEUM UNIVERSITY GANDHINAGAR
SCHOOL OF TECHNOLOGY

COURSE STRUCTURE FOR M.TECH - CYBER SECURITY

Semester IV		M. Tech. - Cyber Security											
Sr. No.	Course/Lab Code	Course/Lab Name	Teaching Scheme					Examination Scheme					
			L	T	P	C	Hrs./Week	Theory			Practical		Total Marks
								CE	MS	ES	CE	ES	
1	CS XXX	Seminar				5		--	40	60			100
2	CS XXX	Project and Dissertation				24		--	40	60			100
		TOTAL				29			80	120			200

CE- Continuous Evaluation, MS-Mid Semester; ES – End Semester Exam

For Seminar, Project and Dissertation work, there would be three reviews of 30, 30 and 40 marks.