



Yashoda Shikshan Prasarak Mandal's
YASHODA TECHNICAL CAMPUS, SATARA

An Autonomous Institute

FACULTY OF ENGINEERING

Department of Computer Science & Engineering (Cyber Security)

S.Y. B.Tech SEMESTER III

Course Code	Course Domain	Course Name	Teaching Scheme					Evaluation Scheme					Total
			L	T	P	SL	Credit	Scheme	Theory		Practical		
									Max.	Min. Passing	Max.	Min. Passing	
0UCYPC301	F	Data Structures and Algorithms	3	1	0	5	4	ISE	20	40*	-	-	100
								MSE	20				
								ESE	60				
0UCYPC302	F	Computer Networks	3	0	0	4	3	ISE	20	40*	-	-	100
								MSE	20				
								ESE	60				
0UCYPC303	F	Object Oriented Programming	3	0	0	4	3	ISE	20	40*	-	-	100
								MSE	20				
								ESE	60				
0UCYPC304	F	Database Management Systems	3	0	0	4	3	ISE	20	40*	-	-	100
								MSE	20				
								ESE	60				
0UCYPC305	F	Cyber Security Fundamentals	3	0	0	4	3	ISE	20	40*	-	-	100
								MSE	20				
								ESE	60				
0UCYVE306	F	Environmental Studies	2	0	0	1	2	ISE	50	40*	-	-	50
0UCYHM307	F,E	Engineering Economics	2	0	0	1	2	ISE	50	40*	-	-	50
0UCYPC308	F,E	Data Structures and Algorithms Lab	0	0	2	1	1	ISE	-	-	25	25**	50
								ESE			25		
0UCYPC309	F	Computer Networks Lab	0	0	2	1	1	ISE	-	-	25	25**	50
								ESE			25		
0UCYPC310	F	Object Oriented Programming Lab	0	0	2	1	1	ISE	-	-	25	25**	50
								ESE			25		
0UCYVS311	F	Security Tools Lab	0	0	2	1	1	ISE	-	-	50	25**	50
TOTAL			19	1	08	27	24	TOTAL MARKS					800
Total Contact Hours Per Week			28										

Course Category	Program Core Course	Program Elective Course	Open Elective Course	Multi Disciplinary Minor Course	Value Education	Vocational and Skill Enhancement Course	Ability Enhancement Course	Humanities and Management Course	Internship	Project	Co-curricular Courses	Total
	PC	PE	OE	MD	VE	VS	AE	HM	IR	PR	CC	
Credit	19	-	-	-	2	1	-	2	-	-	-	24

ISE :-In semester evaluation , MSE: - Mid Semester Examination, ESE: - End Semester Examination

Note- * Scoring 40% in ESE is essential and Combining ISE+MSE+ESE=40% for theory courses.

** ISE-50%:ESE-50%, combined together need to be 50% for laboratory courses.

Chairman-BOS

Member Secretary- AC

Chairman- AC





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S.Y. B.Tech SEMESTER IV

Course Code	Course Domain	Course Name	Teaching Scheme					Evaluation Scheme					Total	
			L	T	P	SL	Credit	Scheme	Theory		Practical			
									Max.	Min. Passing	Max.	Min. Passing		
0UCYPC401	F	Operating Systems	3	-	-	4	3	ISE	20	40*	-	-	100	
								MSE	20					
								ESE	60					
0UCYPC402	F	Applied Cryptography	3	0	0	4	3	ISE1	20	40*	-	-	100	
								MSE	20					
								ESE	60					
0UCYPC403	F	Web Application Security	3	0	0	4	3	ISE	20	40*	-	-	100	
								MSE	20					
								ESE	60					
0UCYPC404	F	Cyber Security in Modern Network	3	0	0	4	3	ISE	20	40*	-	-	100	
								MSE	20					
								ESE	60					
0UCYMD405	F	MDM I	3	0	0	4	3	ISE	20	40*	-	-	100	
								MSE	20					
								ESE	60					
0UCYVE406	F,E	Universal Human Values	2	0	0	3	2	ISE	50	40*	-	-	50	
0UCYHM407	F	Entrepreneurship Development	2	0	0	3	2	ISE	50	40*	-	-	50	
0UCYPC408	F	Operating Systems Lab	0	0	2	1	1	ISE	-	-	25	25**	50	
								ESE			25			
0UCYPC409	F	Web Security Lab	0	0	2	1	1	ISE	-	-	25	25**	50	
								ESE			25			
0UCYAE410	F	Ability Enhancement Lab	0	0	2	1	1	ISE	-	-	50	25**	50	
0UCYIR411	F,E	Internship-I	0	0	4	2	2	ISE	-	-	50	25**	50	
TOTAL			19	0	10									
						31	24	TOTAL MARKS						800
Total Contact Hours Per Week			29											

Course Category	Programme Core Course	Programme Elective Course	Open Elective Course	Multi Disciplinary Minor Course	Value Education	Vocational and Skill Enhancement Course	Ability Enhancement Course	Humanities and Management Course	Internship	Project	Co-curricular Courses	Total
	PC	PE	OE	MD	VE	VS	AE	HM	IR	PR	CC	
Credit	14	-	-	3	2	-	1	2	-	2	-	24

ISE :-In semester evaluation , MSE: - Mid Semester Examination, ESE: - End Semester Examination

Note 1 - * Scoring 40% in ESE is essential and Combining ISE+MSE+ESE=40% for theory courses.

** ISE-50%:ESE-50%, combined together need to be 50% for laboratory courses.

Note 2- Internship I: Students are expected to complete 60 hours of internship after the third semester, and its evaluation will be conducted in the fourth semester.

Total Credit in SY

SEM-I	SEM-II	SEM-III	SEM-IV	TOTAL
22/20	20/22	24	24	90

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T.Y. B.Tech SEMESTER V

Course Code	Course Domain	Course Name	Teaching Scheme					Evaluation Scheme					TOTAL	
			L	T	P	S L	Credit	Scheme	Theory		Practical			
									Max.	Min. Passing	Max.	Min. Passing		
0UCYPC501	F	Secure Software Engineering	3	0	0	4	3	ISE	20	40*	-	-	100	
								MSE	20					
								ESE	60					
0UCYPC502	F	Ethical Hacking and Penetration Testing	3	0	0	4	3	ISE	20	40*	-	-	100	
								MSE	20					
								ESE	60					
0UCYPE503	F	PEC I	3	0	0	4	3	ISE	20	40*	-	-	100	
								MSE	20					
								ESE	60					
0UCYOE504	F	OE I (MOOC)	3	0	0	4	3	ISE	20	40*	-	-	100	
								MSE	20					
								ESE	60					
0UCYMD505	F	MDM II	3	0	0	4	3	ISE	20	40*	-	-	100	
								MSE	20					
								ESE	60					
0UVCYE506	F	Constitution of India	2	0	0	1	2	ISE	50	40*			50	
0UCYPC507	F,E	Secure Software Engineering Lab	0	0	2	1	1	ISE	-	-	25	25**	50	
								ESE			25			
0UCYPC508	F	Ethical Hacking Lab	0	0	2	1	1	ISE	-	-	25	25**	50	
								ESE			25			
0UCYVS509	F	Vocational and Skill Enhancement Lab	0	0	2	1	1	ISE	-	-	50	25**	50	
0UCYAE510	F	Ability Enhancement Course	2	0	0	3	2	ISE	50	40*	-	-	50	
0UCYPR511	F,E	Mini Project	0	0	2	1	1	ISE	-	-	25	25**	50	
								ESE	-	-	25			
0UCYCC512	F	Co -curricular Courses	0	0	2	1	1	ISE	-	-	50	25**	50	
TOTAL			19	0	10		29	24	TOTAL MARKS					850
Total Contact Hours Per Week			29					TOTAL MARKS					850	

Course Category	Programme Core Course	Programme Elective Course	Open Elective Course	Multi Disciplinary Minor Course	Value Education	Vocational and Skill Enhancement Course	Ability Enhancement Course	Humanities and Management Course	Internship	Project	Co-curricular Courses	Total
	PC	PE	OE	MD	VE	VS	AE	HM	IR	PR	CC	
Credit	8	3	3	3	2	1	2	-	-	1	1	24

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Member Secretary- AC

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T.Y. B.Tech SEMESTER VI

Course Code	Course Domain	Course Name	Teaching Scheme					Evaluation Scheme					Total
			L	T	P	SL	Credit	Scheme	Theory		Practical		
									Max.	Min. Passing	Max.	Min. Passing	
0UCYPC601	F	Digital Forensics and Incident Response	3	0	-	4	3	ISE	20	40*	-	-	100
								MSE	20				
								ESE	60				
0UCYPC602	F	Cyber Security Operations and SOC	3	0	0	4	3	ISE	20	40*	-	-	100
								MSE	20				
								ESE	60				
0UCYPE603	F	PEC II	3	0	0	4	3	ISE	20	40*	-	-	100
								MSE	20				
								ESE	60				
0UCYPE604	F	PEC III	3	0	0	4	3	ISE	20	40*	-	-	100
								MSE	20				
								ESE	60				
0UCYOE605	F	OE II	3	0	0	4	3	ISE	20	40*	-	-	100
								MSE	20				
								ESE	60				
0UCYMD606	F	MDM III	2	0	0	3	2	ISE	20	40*	-	-	100
								MSE	20				
								ESE	60				
0UCYVS607	F,E	Vocational and Skill Enhancement Lab	0	0	2	1	1	ISE	-	-	50	25**	50
0UCYPC608	F	Digital Forensics Lab	0	0	2	1	1	ISE	-	-	25	25**	50
								ESE			25		
0UCYPC609	F	SOC and Security Analytics Lab	0	0	2	1	1	ISE	-	-	25	25**	50
								ESE			25		
0UCYPR610	F,E	Project Phase-I	0	0	4	3	2	ISE	-	-	25	25**	50
ESE								-	-	25			
0UCYCC611		Internship-II	0	0	4	3	2	ISE	-	-	50	25**	50
TOTAL			17	0	14	32	24	TOTAL MARKS					850
Total Contact Hours Per Week			31										

Course Category	Program Core Course	Program Elective Course	Open Elective Course	Multi Disciplinary Minor Course	Value Education	Vocational and Skill Enhancement Course	Ability Enhancement Course	Humanities and Management Course	Internship	Project	Co-curricular Courses	Total
	PC	PE	OE	MD	VE	VS	AE	HM	IR	PR	CC	
Credit	8	6	3	2	-	1	-	-	2	2	-	24

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Note 1 - * Scoring 40% in ESE is essential and Combining ISE+MSE+ESE=40% for theory courses.

** ISE-50%:ESE-50%, combined together need to be 50% for laboratory courses.

Note 2- Internship I: Students are expected to complete 60 hours of internship after the fifth semester, and its evaluation will be conducted in the sixth semester.

Total Credit in TY

SEM-I	SEM-II	SEM-III	SEM-IV	SEM-V	SEM-VI	TOTAL
2	22	24	24	24	24	140

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Member Secretary- AC

Chairman- AC





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B.Tech SEMESTER VII

Course Code	Course Domain	Course Name	Teaching Scheme					Evaluation Scheme					TOTAL	
			L	T	P	S L	Credit	Scheme	Theory		Practical			
									Max .	Min. Passing	Ma x.	Min. Passing		
0UCYPC701	F	Cloud and IoT Security	3	0	0	4	3	ISE	20	40*	-	-	100	
								MSE	20					
								ESE	60					
0UCYPC702	F	AI for Cyber Security and Threat Intelligence	3	0	0	4	3	ISE	20	40*	-	-	100	
								MSE	20					
								ESE	60					
0UCYPE703	F	PEC IV	3	0	0	4	3	ISE	20	40*	-	-	100	
								MSE	20					
								ESE	60					
0UCYPE704	F	PEC V	3	0	0	4	3	ISE	20	40*	-	-	100	
								MSE	20					
								ESE	60					
0UCYMD705	F	MDM IV	3	0	0	4	3	ISE	20	40*	-	-	100	
								MSE	20					
								ESE	60					
0UCYPC706	F,E	Cloud and IoT Security Lab	0	0	2	1	1	ISE	-	-	25	25**	50	
								ESE	-	-	25			
0UCYPC707	F,E	AI and Threat Intelligence Lab	0	0	2	1	1	ISE	-	-	25	25**	50	
								ESE	-	-	25			
0UCYPR708	F	Project Phase- II	0	0	8	6	4	ISE	-	-	50	25**	100	
								ESE			50	25**		
0UCYIR709	F,E	Co -curricular Courses	0	0	2	1	1	ISE	-	-	50	25**	50	
TOTAL			15	0	14		29	22	TOTAL MARKS					750
Total Contact Hours Per Week			29											

Course Category	Program me Core Course	Program me Elective Course	Open Elective Course	Multi Disciplinary Minor Course	Value Education	Vocational and Skill Enhancement Course	Ability Enhancement Course	Humanities and Management Course	Internship	Project	Co - curricular Courses	Total
	PC	PE	OE	MD	VE	VS	AE	HM	IR	PR	CC	
Credit	8	6	-	3	-	-	-	-	-	4	1	22

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Note- * Scoring 40% in ESE is essential and Combining ISE+MSE+ESE=40% for theory courses.

** ISE-50%:ESE-50%, combined together need to be 50% for laboratory courses.

Chairman-BOS

Member Secretary- AC,

Chairman- AC





B.Tech SEMESTER VIII

Course Code	Course Domain	Course Name	Teaching Scheme					Evaluation Scheme				Total	
			L	T	P	SL	Credit	Scheme	Theory		Practical		
									Max.	Min. Passing	Max.		Min. Passing
0UCYPE801	F	PEC VI (MOOC)	2	-	-	4	3	ISE	20	40*	-	-	100
								MSE	20				
								ESE	60				
0UCYIR802	F,E	Internship- III	-	-	-	25	8	ISE	-	-	100	100**	200
								ESE			100		
								TOTAL			2		
Total Contact Hours Per Week			4										

Course Category	Programme Core Course	Programme Elective Course	Open Elective Course	Multi Disciplinary Minor Course	Value Education	Vocational and Skill Enhancement Course	Ability Enhancement Course	Humanities and Management Course	Internship	Project	Co-curricular Courses	Total
	PC	PE	OE	MD	VE	VS	AE	HM	IR	PR	CC	
Credit	-	3	-	-	-	-	-	-	8	-	-	11

ISE :-In semester evaluation , MSE: - Mid Semester Examination, ESE: - End Semester Examination

Note 1 - * Scoring 40% in ESE is essential and Combining ISE+MSE+ESE=40% for theory courses.

** ISE-50%:ESE-50%, combined together need to be 50% for laboratory courses.

Note 2- Internship III: Students are expected to complete minimum 240 hours of internship during eighth semester and evaluation will be within same semester

Total Credit in BTech

SEM-I	SEM-II	SEM-III	SEM-IV	SEM-V	SEM-VI	SEM-VII	SEM-VIII	TOTAL
22/20	20/22	24	24	24	24	22	11	171




Chairman-BOS


Member Secretary- AC


Chairman- AC