



Yashoda Shikshan Prasarak Mandal's
YASHODA TECHNICAL CAMPUS, SATARA
 An Autonomous Institute
FACULTY OF ENGINEERING
Department of Computer Science and Engineering

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	Ma x.	Min. Passing	
0UCSPC301	F	Discrete Mathematics	3	1	0	5	4	ISE	20	40*	-	-	100
								MSE	20				
								ESE	60				
0UCSPC302	F	Data Structures	3	0	0	4	3	ISE	20	40*	-	-	100
								MSE	20				
								ESE	60				
0UCSPC303	F	Computer Networks	3	0	0	4	3	ISE	20	40*	-	-	100
								MSE	20				
								ESE	60				
0UCSPC304	F	Computer Architecture & Organization	3	0	0	4	3	ISE	20	40*	-	-	100
								MSE	20				
								ESE	60				
0UCSPC305	F	Object Oriented Programming Using Java	3	0	0	4	3	ISE	20	40*	-	-	100
								MSE	20				
								ESE	60				
0UCSVE306	F	Environmental Studies	2	0	0	1	2	ISE	50	40*	-	-	50
0UCSHM307	F, E	Engineering Economics	2	0	0	1	2	ISE	50	40*	-	-	50
0UCSPC308	F, E	Data Structures Lab	0	0	2	1	1	ISE	-	-	25	13**	50
								ESE	-	-	25	13**	
0UCSPC309	F	Computer Network lab	0	0	2	1	1	ISE	-	-	25	13**	50
								ESE			25	13**	
0UCSPC310	F	Object Oriented Programming Using Java Lab	0	0	2	1	1	ISE	-	-	25	13**	50
								ESE			25	13**	
0UCSVS311	F	Vocational and Skill Enhancement Course 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			27	24						

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 1:-In semester evaluation 1, ISE 2:-In semester evaluation 2, MSE:- Mid Semester Examination, ESE:- End Semester Examination

Note1- * - ISE+MSE-40%, ESE-40% and Combined together needs to be 40% for Theory courses for passing

** - ISE-50%, ESE-50% and Combined together needs to be 50% for Lab courses for passing

Note 2- Internship I: Students are expected to complete 120 hours of internship after the third semester, and its evaluation will be conducted in the fourth semester.



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 An Autonomous Institute
FACULTY OF ENGINEERING
Department of Computer Science and Engineering
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		
0UCSPC401	F	Probability and Statistics	3	-	-	4	3	ISE	20	40*	-	-	100	
								MSE	20					
								ESE	60					
0UCSPC402	F	Design and Analysis of Algorithms	3	0	0	4	3	ISE	20	40*	-	-	100	
								MSE	20					
								ESE	60					
0UCSPC403	F	Advanced Data Structure	3	0	0	4	3	ISE	20	40*	-	-	100	
								MSE	20					
								ESE	60					
0UCSPC404	F	Advanced Computer Network	3	0	0	4	3	ISE	20	40*	-	-	100	
								MSE	20					
								ESE	60					
0UCSMD405	F	Multidisciplinary Minor I	3	0	0	4	3	ISE	20	40*	-	-	100	
								MSE	20					
								ESE	60					
0UCSVE406	F, E	Universal Human Values	2	0	0	3	2	ISE	50	40*	-	-	50	
0UCSHM407	F	Entrepreneurship Development	2	0	0	3	2	ISE	50	40*	-	-	50	
0UCSPC408	F	Advanced Data Structure Lab	0	0	2	1	1	ISE	-	-	25	13**	50	
								ESE			25	13**		
0UCSPC409	F	Advanced Computer Network	0	0	2	1	1	ISE	-	-	25	13**	50	
								ESE			25	13**		
0UCSAE410	F	Ability Enhancement Lab-I	0	0	2	1	1	ISE	-	-	50	25**	50	
0UCSCC411	F, E	Intemship-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		31									

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
Credit	14	PE	OE	MD	VE	VS	AE	HM	IR	PR	CC	24
		-	-	3	2	-	1	2	2		-	

Note1- * - ISE+MSE-40%, ESE-40% and Combined together needs to be 40% for Theory courses for passing

****** - ISE-50%, ESE-50% and Combined together needs to be 50% for Lab courses for passing

Total Credit in SY

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



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Member Secretary - AC

Chairman - AC



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Department of Computer Science and Engineering

T.Y. B.Tech SEMESTER V

Course Code	Course Domain	Course Name	Teaching Scheme					Evaluation Scheme					TOTAL
			L	T	P	SL	Credit	Scheme	Theory		Practical		
									Ma x.	Min. Passing	Ma x.	Min. Passing	
0UCSPC501	F	Database Management Systems	3	0	0	4	3	ISE	20	40*	-	-	100
								MSE	20				
								ESE	60				
0UCSPC502	F	Automata Theory and Compiler Design	3	0	0	4	3	ISE	20	40*	-	-	100
								MSE	20				
								ESE	60				
0UCSPE503	F	Programme Elective I	3	0	0	4	3	ISE	20	40*	-	-	100
								MSE	20				
								ESE	60				
0UCSOE504	F	Open Elective I	3	0	0	4	3	ISE	20	40*	-	-	100
								MSE	20				
								ESE	60				
0UCSMD505	F	Multidisciplinary Minor II	3	0	0	4	3	ISE	20	40*	-	-	100
								MSE	20				
								ESE	60				
0UCSPC506	F, E	Database Management Systems lab	0	0	2	1	1	ISE	-	-	25	13**	50
								ESE			25	13**	
0UCSPC507	F	Automata Theory and Compiler Design Lab	0	0	2	1	1	ISE	-	-	25	13**	50
								ESE			25	13**	
0UCSVE508	F	Value Education course	2	0	0	1	2	ISE	50	40*			50
0UCSVS509	F	Vocational and Skill Enhancement Lab	0	0	2	1	1	ISE	-	-	50	25**	50
0UCSAE510	F	Ability Enhancement Course	0	0	2	3	2	ISE	50	40*	-	-	50
0UCSIR511	F, E	Mini Project	0	0	2	1	1	ISE	-	-	25	13**	50
								ESE	-	-	25	13**	
0UCSCC512	E	Co-curricular Courses (CC)	0	0	2	1	1						
TOTAL			19	0	10	29	24	TOTAL MARKS					800
Total Contact Hours Per Week			29				29						

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	3	3	3	2	1	2	-	-	1	1	24

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Note1- * - ISE+MSE-40%, ESE-40% and Combined together needs to be 40% for Theory courses for passing

** - ISE-50%, ESE-50% and Combined together needs to be 50% for Lab courses for passing

Note 2- Internship II: Students are expected to complete 120 hours of internship after the fifth semester, and its evaluation will be conducted in the sixth semester.

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YASHODA TECHNICAL CAMPUS, SATARA
 An Autonomous Institute
FACULTY OF ENGINEERING
Department of Computer Science and Engineering

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	
0UCSPC601	F	Machine Learning	3	0	-	4	3	ISE	20	40*	-	-	100
								MSE	20				
								ESE	60				
0UCSPC602	F	Project Management	3	0	0	4	3	ISE	20	40*	-	-	100
								MSE	20				
								ESE	60				
0UCSPE603	F	Programme Elective II	3	0	0	4	3	ISE	20	40*	-	-	100
								MSE	20				
								ESE	60				
0UCSPE604	F	Programme Elective III	3	0	0	4	3	ISE	20	40*	-	-	100
								MSE	20				
								ESE	60				
0UCSOE605	F	Open Elective II	3	0	0	4	3	ISE	20	40*	-	-	100
								MSE	20				
								ESE	60				
0UCSMD606	F	Multidisciplinary Minor III	2	0	0	3	2	ISE	20	40*	-	-	100
								MSE	20				
								ESE	60				
0UCSVS607	F, E	Vocational and Skill Enhancement Lab	0	0	2	1	1	ISE	-	-	50	25**	50
0UCSPC608	F	Machine Learning Lab	0	0	2	1	1	ISE	-	-	25	13**	50
								ESE			25	13**	
0UCSPC609	F	Web Technology Lab	0	0	2	1	1	ISE	-	-	25	13**	50
								ESE			25	13**	
0UCSPR610	F, E	Project Phase- I	0	0	4	3	2	ISE	-	-	25	13**	50
0UCSCC611	E	Internship-II	0	0	4	3	2	ESE	-	-	25	13**	
TOTAL			17	0	14	32	24	TOTAL MARKS					850
Total Contact Hours Per Week			31			32							

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

Total Credit in TY

SEM-I	SEM-II	SEM-III	SEM-IV	SEM-V	SEM-VI	TOTAL
22/20	20/22	24	24	24	24	138



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 Chairman – BoS

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 Member Secretary – AC

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 Chairman – AC



Yashoda Shikshan Prasarak Mandal's
YASHODA TECHNICAL CAMPUS, SATARA
 An Autonomous Institute
FACULTY OF ENGINEERING
Department of Computer Science and Engineering

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. Passin	Ma x.	Min. Passing	
0UCSPC701	F	Cloud Technologies	3	0	0	4	3	ISE	20	40*	-	-	100
								MSE	20				
								ESE	60				
0UCSPC702	F	Generative AI & LLM	3	0	0	4	3	ISE	20	40*	-	-	100
								MSE	20				
								ESE	60				
0UCSPE703	F	Programme Elective IV	3	0	0	4	3	ISE	20	40*	-	-	100
								MSE	20				
								ESE	60				
0UCSPE704	F	Programme Elective V	3	0	0	4	3	ISE	20	40*	-	-	100
								MSE	20				
								ESE	60				
0UCSMD705	F	Multidisciplinary Minor IV	3	0	0	4	3	ISE	20	40*	-	-	100
								MSE	20				
								ESE	60				
0UCSPC706	F, E	Cloud Technologies Lab	0	0	2	1	1	ISE	-	-	25	13**	50
								ESE	-	-	25	13**	
0UCSPC707	F, E	Generative AI & LLM Lab	0	0	2	1	1	ISE	-	-	25	13**	50
								ESE	-	-	25	13**	
0UCSPR708	F	Project - II	0	0	8	6	4	ISE	-	-	50	25**	100
								ESE			50	25**	
0UCSIR709	F, E	Co-curricular Courses (CC)	0	0	2	1	1	ISE	-	-	50	25**	50
TOTAL			15	0	14	29							
Total Contact Hours Per Week			29			2 9	22	TOTAL MARKS					750

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	-		-	-	-	4	1	22

ISE 1:-In semester evaluation 1, ISE 2:-In semester evaluation 2, MSE: - Mid Semester Examination, ESE: - End Semester Examination

Note1- * - ISE+MSE-40%, ESE-40% and Combined together needs to be 40% for Theory courses for passing

** - ISE-50%, ESE-50% and Combined together needs to be 50% for Lab courses for passing



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 An Autonomous Institute
FACULTY OF ENGINEERING

Department of Computer Science and Engineering

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
0UCSPE801	F	Programme Elective VI(MOOC)	-	-	-	4	3	ISE	20	40*	-	-	100
								MSE	20				
								ESE	60				
0UCSIR802	F, E	Internship-III	-	-	-	16	8	ISE	-	-	50	25**	50
TOTAL			0	0	16	20	11	TOTAL MARKS					150
Total Contact Hours Per Week			16		20								

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

Note1- * - ISE+MSE-40%, ESE-40% and Combined together needs to be 40% for Theory courses for passing

** - ISE-50%, ESE-50% and Combined together needs to be 50% for Lab courses for passing

Note 2- Internship III: Students are expected to complete 120 hours of internship in the 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	173



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YASHODA TECHNICAL CAMPUS, SATARA
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FACULTY OF ENGINEERING
Department of Computer Science and Engineering

MDM Bucket List

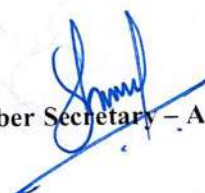
MDM Track	Semester	Track A (Object Oriented Programming)	Track B (Web Development)	Track C (Database Technologies)
MDM -I	Semester IV	OOP with C++	Frontend Fundamentals	Database Management Systems
MDM-II	Semester V	Core Java	Frontend Programming	Advanced Database Systems
MDM-III	Semester VI	Advanced Java	Backend Development	Data Warehousing and Data Mining
MDM-IV	Semester VII	Java Script	Database and Deployment	Big Data and No SQL

OE Bucket List

OE Track	Semester	Management	Economics & Commerce	Technology & Cyber Law
OE-I	Semester V	Organizational Behavior	International Trade	Cyber Law
OE-II	Semester VI	Digital Marketing	Digital Economy	AI Ethics & Regulation




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Department of Computer Science and Engineering

Program Elective Track

PE Track	Semester	IOT	High Performance Computing and Accelerated AI Systems	Computer Security
PE- I	Semester V	Introduction to Internet of Things	Introduction to High Performance Computing	Introduction to Cyber Security
PE- II	Semester VI	IoT Architecture and Protocols	Multicore Computer Architecture	Information Security
PE- III	Semester VI	Embedded Systems and IoT Devices	Parallel Computing and Programming	Network Security
PE- IV	Semester VII	Wireless Sensor Networks and IoT Communication	GPU Computing and CUDA Programming	Web Application Security
PE- V	Semester VII	IoT Security and Privacy	High Performance Computing Systems	IOT & Security



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YASHODA TECHNICAL CAMPUS, SATARA
An Autonomous Institute
FACULTY OF ENGINEERING

Department of Computer Science and Engineering

Honors in Computer Science & Engineering

Track 1 : Artificial Intelligence

NPTEL Courses 16 Credits				
Sr.No	Course Name	Duration	Credits	URL
1	Artificial Intelligence: Foundations and Algorithms	12 Weeks	4	https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_cs182
2	Artificial Intelligence: Knowledge Representation And Reasoning	12 Weeks	4	https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_cs63
3	Introduction to Machine Learning	12 Weeks	4	https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_cs133
4	Mathematical Foundations of Machine Learning	12 Weeks	4	https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_cs02
5	Deep Learning - IIT Ropar	12 Weeks	4	https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_cs138
Project – 2 Credits				
1	Project	Semester – 7 th	2	

Track 2 : Data Science

NPTEL Courses 16 Credits				
Sr.No	Course Name	Duration	Credits	URL
1	Python for Data Science	4 Weeks	2	https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_cs107
2	Data Analytics with Python	12 Weeks	4	https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_cs86
3	Generative AI for Computer Vision	12 Weeks	4	https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_cs104
4	Advanced R Programming for Data Analytics in Business	12 Weeks	4	https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_mgl22
5	Introduction to Large Language Models (LLMs)	12 Weeks	4	https://onlinecourses.nptel.ac.in/e-learning/preview/noc26_cs171
Project – 2 Credits				
1	Project	Semester – 7 th	2	

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FACULTY OF ENGINEERING
Department of Computer Science and Engineering
Multiple Entry Exit Courses

Sr.No	Year	Course Name	Duration	URL
1	2 nd	Foundation Course in Application Security	180 hours	https://www.skillindiadigital.gov.in/courses/detail/382639c5-9b70-4eb2-b739-f51712481c06
2		IoT - Security Specialist Certificate Programme	210 Hours	https://www.skillindiadigital.gov.in/courses/detail/efd689de-68ae-420d-b262-89462eb95e87
4	3 rd	Application Security Analyst Certificate Programme	210 Hours	https://www.skillindiadigital.gov.in/courses/detail/5b0bd03d-2c19-44dd-8e39-2b97d6995c5e
5		Data Science for Everyone	180 Hours	https://www.skillindiadigital.gov.in/courses/detail/0168d594-ec95-4e4d-a060-2cd5c4fd6aaa
6		AI Data Engineer Certificate Programme	210 Hours	https://www.skillindiadigital.gov.in/courses/detail/f09bf277-3615-45db-8ebb-65ea222ac556



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