

SHRI GOVINDRAM SEKSARIA INSTITUTE OF TECHNOLOGY & SCIENCE, INDORE
II B.TECH.(4YDC) COMPUTER SCIENCE & ENGINEERING

Scheme 2025-2026
(NEP-2020)

Semester: III

S.No.	Subject Category	Subject Code	Subject	Hours per Week			Th. Credit	Pr. Credit	Maximum Marks				Total
				L	T	P			Th.	CW	SW	Pr.	
1	BSC	MA24003	Mathematics-III	3	1	-	4	-	70	30	-	-	100
2	PCC	CO24017	Object Oriented Programming Systems	3	1	-	4	-	70	30	-	-	100
3	PCC	CO24019	Computer Architecture	3	-	-	3	-	70	30	-	-	100
4	ESC	EC24014	Microprocessors & Microcontrollers	3	-	-	3	-	70	30	-	-	100
5	HSMC	HU24005	Economics for Engineers	3	-	-	3	-	70	30	-	-	100
6	LC	CO24401	Object Oriented Programming Lab	-	-	2	-	1	-	-	40	60	100
7	LC	CO24402	Computer Architecture Lab	-	-	2	-	1	-	-	40	60	100
8	ESC-LC	EC24403	Microprocessors & Microcontrollers Lab	-	-	2	-	1	-	-	40	60	100
9	LC	CO24404	Design Thinking Lab	-	-	2	-	1	-	-	40	60	100
10	ESC-LC	EC24498	Electronics Workshop	-	-	2	-	1	-	-	40	60	100
				15	2	10	17	5	350	150	200	300	1000

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Semester: IV

S.No.	Subject Category	Subject Code	Subject	Hours per Week			Th. Credit	Pr. Credit	Maximum Marks				Total
				L	T	P			Th.	CW	SW	Pr.	
1	PCC	CO24553	Discrete Structures	3	-	-	3	-	70	30	-	-	100
2	BSC	MA24554	Mathematics-IV	3	1	-	4	-	70	30	-	-	100
3	PCC	CO24517	Data Structures	3	-	-	3	-	70	30	-	-	100
4	PCC	CO24510	Agile Software Methodology	3	-	-	3	-	70	30	-	-	100
5	OEC	EC24519	Digital Communication	3	-	-	3	-	70	30	-	-	100
6	LC	CO24801	Data Structures Lab	-	-	2	-	1	-	-	40	60	100
7	LC	CO24802	Software Design Lab	-	-	2	-	1	-	-	40	60	100
8	OEC	EC24803	Digital Communication Lab	-	-	2	-	1	-	-	40	60	100
9	LC	CO24804	Mobile Application Development Lab	-	2	2	-	3	-	-	40	60	100
10	HSBC	HU24881	Values, Humanity and Professional Ethics	-	2	-	2	-	-	100	-	-	100
11	MC	HUM2051	Constitution of India*	2	-	-	-	-	-	50	-	-	50
Total				17	5	8	18	6	350	300	160	240	1050

*Non Credit Mandatory Subject

Internship of minimum 2 weeks to be carried out after semester A or semester B but before commencement of III year semester A. Evaluation shall be done in III Year semester A.


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SEMESTER - V

S.No.	Subject Category	Subject Code	Subject	Hours per Week			Th. Credit	Pr. Credit	Maximum Marks				
				L	T	P			Th.	CW	SW	Pr.	Total
1	PCC	CO34002	Theory of Computation ✓	3	1	-	4	-	70	30	-	-	100
2	PCC	CO34003	Information Security ✓	3	-	-	3	-	70	30	-	-	100
3	PCC	CO34017	Computer Networks ✓	3	-	-	3	-	70	30	-	-	100
4	PCC	CO34004	Operating Systems ✓	3	-	-	3	-	70	30	-	-	100
5	PCC LC	CO34401	Computer Networks Lab ✓	-	-	2	-	1	-	-	40	60	100
6	PCC LC	CO34402	Operating Systems Lab ✓	-	-	2	-	1	-	-	40	60	100
7	SI	CO34482	Internship Evaluation-I ✓	-	-	-	-	2	-	-	100	-	100
8	MC	HUM3401	Essence Of Indian Knowledge Tradition* ✓	-	2	-	-	-	-	50	-	-	50
9	PROJ	CO34498	Mini Project ✓	-	-	4	-	2	-	-	40	60	100
Total				12	3	8	13	6	280	170	220	180	850

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SEMESTER - VI

S.No.	Subject Category	Subject Code	Subject	Hours per Week			Th. Credit	Pr. Credit	Maximum Marks				
				L	T	P			Th.	CW	SW	Pr.	Total
1	PCC	CO34543	Machine Learning ✓	3	-	-	3	-	70	30	-	-	100
2	PCC	CO34501	Data Base Management Systems ✓	3	1	-	4	-	70	30	-	-	100
3	PCC	CO34573	Design & Analysis of Algorithms ✓	3	-	-	3	-	70	30	-	-	100
4	PEC		Elective-I	3	-	-	3	-	70	30	-	-	100
1	LC	CO34801	Machine Learning Lab ✓	-	-	2	-	1	-	-	40	60	100
3	LC	CO34802	Design & Analysis of Algorithms Lab ✓	-	-	2	-	1	-	-	40	60	100
3	LC	CO34803	Data Base Management Systems Lab ✓	-	-	2	-	1	-	-	40	60	100
6	PCC	CO34804	Internet of Things Workshop ✓	-	1	2	-	2	-	-	40	60	100
7	PROJ	CO34998	Minor Project	-	-	4	-	2	-	-	40	60	100
Total				12	2	12	13	7	280	120	200	300	900

* Non Credit Mandatory Subject

Internship/ Training of Minimum 2 weeks to be carried out after sem V/ sem VI, Evaluation shall be done in fourth year sem A.

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Elective I			Semester VI
S.No.	Subject Category	Subject Code	Subject
1		CO	Data Science and Engineering ✓
2		CO	Artificial Intelligence ✓
3		CO	Software Architecture ✓
4		CO	Object Oriented Software Engineering ✓
5		CO	Computer Graphics ✓
6		CO	Embedded Systems ✓
		CO	Pervasive Computing ✓
		CO	Web Technologies ✓

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SEMESTER - VII

S.No.	Subject Category	Subject Code	Subject	Hours per Week			Th. Credit	Pr. Credit	Maximum Marks				
				L	T	P			Th.	CW	SW	Pr.	Total
1	PEC		Elective-II ✓	3 ✓	-	-	3 ✓	-	70	30	-	-	100
2	PEC		Elective-III ✓	3 ✓	-	2 -	3 ✓	1 -	70	30	40	60	200
3	PEC		Elective-IV ✓	3 ✓	-	-	3 ✓	-	70	30	-	-	100
4	LC	CO44402	Product Development & QA Workshop ✓	-	1 ✓	2 ✓	-	2 ✓	-	-	80	120	200
4	LC	CO44401	System Operations Lab ✓	-	-	2 ✓	-	1 ✓	-	-	40	60	100
5	SI	CO44481	Internship Evaluation-II ✓	-	-	-	-	2 ✓	-	-	100	-	100
7		CO44498	Major Project Phase-I (AB group) ✓	-	-	4 -	-	2 ✓	-	-	80	120	200
8		CO44998	Major Project Phase-II (BA group)										
Total			For AB Group ✓	9 ✓	1 ✓	10 ✓	9 ✓	8 ✓	210	90	340	360	1000
			For BA Group ✓	9 ✓	1 ✓	10 ✓	9 ✓	8 ✓	210	90	340	360	1000

SEMESTER - VIII

S.No.	Subject Category	Subject Code	Subject	Hours per Week			Th. Credit	Pr. Credit	Maximum Marks				
				L	T	P			Th.	CW	SW	Pr.	Total
1	PEC		Elective-V ✓	2 ✓	-	-	2 -	-	70	30	-	-	100
2	PEC		Elective-VI ✓	2 ✓	-	-	2 ✓	-	70	30	-	-	100
3	SI	CO44882	Internship Evaluation-III ✓	-	-	-	-	4 -	-	-	100	-	100
4		CO44998	Major Project Phase-II (AB group) ✓	-	-	4 -	-	2 -	-	-	80	120	200
5		CO44498	Major Project Phase-I (BA group) ✓										
Total			For AB Group	4 ✓	0	4 ✓	4 ✓	6 -	140	60	180	120	500
			For BA Group	4 ✓	0	4 ✓	4 ✓	6 ✓	140	60	180	120	500

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List of Electives

Elective II			SEMESTER - VII
S.No.	Subject Category	Subject Code	Subject
1		CO____	Computational Intelligence
2		CO____	Advanced Data Structures
3		CO44243	Cloud Computing
4		CO____	Software Architecture
5		CO____	Multimedia System
6		CO____	VLSI System Design

Elective III			SEMESTER - VII
S.No.	Subject Category	Subject Code	Subject
1		CO44251	Deep Learning
2		CO____	Advanced Algorithms
3		CO44252	Big Data
4		CO____	Human Computer Interaction
5		CO____	Real Time Systems
6		CO____	Software Verification


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Elective IV			SEMESTER - VII
S.No.	Subject Category	Subject Code	Subject
1		CO____	Reinforcement Learning
2		CO____	Advanced Databases
3		CO____	Cyber Security and Forensics
4		CO____	Web Technologies
5		CO____	Virtual Reality
6		CO____	Robotics
7		CO44309	Natural Language Processing
8		CO44310	Software Testing

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List of Electives

Elective V			SEMESTER - VIII
S.No.	Subject Category	Subject Code	Subject
1		CO ____	Bioinformatics Computing
2		CO ____	High Performance Computing
3		CO ____	Machine Learning for Security
4		CO44608	Game Design
5		CO ____	Digital Signal Processing
6		CO ____	Security in Resource Constrained Environment
7		CO44609	Introduction to Soft Computing
8		CO44610	Advanced Graph Theory

Elective VI			SEMESTER - VIII
S.No.	Subject Category	Subject Code	Subject
1		CO ____	Advanced Operating Systems
2		CO ____	Network Management & Maintenance
3		CO44706	Software Project Management
4		CO ____	Image Processing and Computer Vision
5		CO44707	Block Chain Technology
6		CO44708	Data Mining
7		CO	User Centric Computing for Human Computer Interaction

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