

Course Structure: B.Tech. (Computer Engineering)
Valid for students admitted from year 2023 onwards

Semester 3:

S.No.	Course Catag	Course No.	Course title	Contact Periods			Credits	Marks			Total
				L	T	P		Course-Work	Mid-Sem	End-Sem	
1	BS	AMS2612	Higher Mathematics	3	1	0	4	15	25	60	100
2	PC	COC2032	Object Oriented Programming	3	1	0	4	15	25	60	100
3	PC	COC2062	Data Structure and Algorithm	3	1	0	4	15	25	60	100
4	PC	COC2072	Digital Logic and System Design	3	1	0	4	15	25	60	100
5	PC	COC2122	Database Management System	3	1	0	4	15	25	60	100
6	PC	COC2932	C & C++ Programming Lab	0	1	2	2	60		40	100
7	ESA	ELA2112	Electronic Devices & Circuits	3	1	0	4	15	25	60	100

TOTAL CREDITS: 26

Semester 4:

S.No.	Course Catag	Course No.	Course title	Contact Periods			Credits	Marks			Total
				L	T	P		Course-Work	Mid-Sem	End-Sem	
1	BS	AMS2622	Numerical Analysis, Transforms and Probabi	3	0	0	3	15	25	60	100
2	BS	AMS2632	Discrete Structures	3	1	0	4	15	25	60	100
3	PC	COC2082	Computer Architecture	3	1	0	4	15	25	60	100
4	PC	COC2142	Design & Analysis of Algorithm	3	1	0	4	15	25	60	100
5	PC	COC2922	Digital Design & Simulation Lab	0	1	2	2	60	0	40	100
6	PC	COC2942	Data Structure Lab	0	1	2	2	60		40	100
7	ESA	ELA2412	Fundamentals of Digital Signal Processing	3	1	0	4	15	25	60	100
8	ESA	ELA2902	Electronics Laboratory	0	1	2	2	60	0	40	100

TOTAL CREDITS: 25

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Semester 5:

S.No.	Course Catag	Course No.	Course title	Contact Periods			Credits	Marks			Total
				L	T	P		Course-Work	Mid-Sem	End-Sem	
1	PC	COC3092	Microprocessor Theory & Applications	3	0	0	3	15	25	60	100
2	PC	COC3102	Operating Systems	3	1	0	4	15	25	60	100
3	PC	COC3162	Software Engineering	3	0	0	3	15	25	60	100
4	PC	COC3932	Algorithms & Operating Systems Lab	0	1	2	2	60	0	40	100
5	PSI	COP3802	Colloquium	0	2	0	2	60		40	100
6	ESA	ELA3402	Communication Systems	3	1	0	4	15	25	60	100
7	HM	MEH3452	Engineering Economy & Management	3	0	0	3	15	25	60	100
8	OE		Open Elective-1				3	15	25	60	100

TOTAL CREDITS: 24

Semester 6:

S.No.	Course Catag	Course No.	Course title	Contact Periods			Credits	Marks			Total
				L	T	P		Course-Work	Mid-Sem	End-Sem	
1	PC	COC3082	Digital Electronics	3	0	0	3	15	25	60	100
2	PC	COC3112	Theory of Computation	3	1	0	4	15	25	60	100
3	PC	COC3132	Computer Networks	3	1	0	4	15	25	60	100
4	PC	COC3152	Computer Graphics	3	0	0	3	15	25	60	100
5	PC	COC3962	Advanced Computing Lab	0	1	2	2	60	0	40	100
6	PC	COC3972	Microprocessor & Embedded Systems Lab	0	1	2	2	60		40	100
7	PSI	COP3952	Minor Project	0	0	3	3	60		40	100
8	HM		Elective Course under Humanities category				3	15	25	60	100

TOTAL CREDITS: 24

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Semester 7:

S.No.	Course Catag	Course No.	Course title	Contact Periods			Credits	Marks			Total
				L	T	P		Course-Work	Mid-Sem	End-Sem	
1	PC	COC4012	Information Security	3	0	0	3	15	25	60	100
2	PC	COC4062	Compiler Design	3	0	0	3	15	25	60	100
3	PC	COC4962	Computer Network & Security Lab	0	1	2	2	60		40	100
4	PSI	COP4982	Project Phase-I	0	0	3	4	60		40	100
5	DE		Departmental Elective-1				3	15	25	60	100
6	DE		Departmental Elective-2				3	15	25	60	100
7	DE		Departmental Elective-3				3	15	25	60	100

TOTAL CREDITS: 21

Semester 8:

S.No.	Course Catag	Course No.	Course title	Contact Periods			Credits	Marks			Total
				L	T	P		Course-Work	Mid-Sem	End-Sem	
1	PSI	COP4802	Industrial Training/Internship				2			100	100
2	PSI	COP4992	Project Phase II	0	0	3	6	60		40	100
3	DE		Departmental Elective-4				3	15	25	60	100
4	DE		Departmental Elective-5				3	15	25	60	100
5	OE		Open Elective-2				3	15	25	60	100

TOTAL CREDITS: 17

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List of Departmental Elective (DE) Courses:

S.No.	Crs. No.	Course title	S.No.	Crs. No.	Course title
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SUMMARY:

Category Code	Category Name	II-IV Year Credits	First Year Credits	Total Credits
DC	Departmental Core	68	0	68
DE	Departmental Elective	15	0	15
BS	Basic Sciences	11	19	30
ESA	Engg. Science and Arts	14	19	33
OE	Open Elective	6	0	6
HM	Humanities	6	5	11
PSI	Project, Seminar, Internship	17	0	17
TOTAL		137	43	180