

Semester - 1

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
303104105	Environmental Science	0.00	1	0	0	-	-	50	-	-	20	-	50
303105103	Open Source Software	2.00	1	2	0	20	20	20	60	30	40	25	150
303105104	Computational Thinking for Structured Design-1	4.00	3	2	-	20	20	20	60	30	40	25	150
303106103	Electrical and Electronics Engineering	4.00	3	2	0	20	20	20	60	30	40	25	150
303191101	Mathematics-I	4.00	4	-	-	20	-	20	60	-	40	-	100
303193103	Communication Skills	2.00	-	-	2	-	-	100	-	-	40	-	100
	Total	16.00	12	6	2								700

Lect - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **T** - Theory, **P** - Practical
Theory Passing % : 40 Practical Passing % : 50

Semester - 2

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
303105151	Computational Thinking for Structured Design-2	4.00	3	2	-	20	20	20	60	30	40	25	150
303105152	Design Thinking	3.00	2	2	-	20	20	20	60	30	40	25	150
303105153	Global Certifications - Fundamentals (Azure, AWS, GCP)	2.00	2	-	-	20	-	20	60	-	40	-	100
303107152	ICT workshop	1.00	0	2	0	-	20	-	-	30	-	25	50
303191151	Mathematics-II	4.00	4	-	-	20	-	20	60	-	40	-	100
303192102	Engineering Physics-II	4.00	3	2	0	20	20	20	60	30	40	25	150
303193152	Advanced Communication & Technical Writing	2.00	-	-	2	-	-	100	-	-	40	-	100
	Total	20.00	14	8	2								800

Lect - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **T** - Theory, **P** - Practical
Theory Passing % : 40 Practical Passing % : 50

Semester - 3

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
303105201	Design of Data Structures	3.00	3	0	0	20	-	20	60	-	40	-	100
303105202	Design of Data Structures Laboratory	2.00	0	4	0	-	20	-	-	30	-	25	50
303105203	Database Management System	3.00	3	0	0	20	-	20	60	-	40	-	100
303105204	Database Management System Laboratory	1.00	0	2	0	-	20	-	-	30	-	25	50
303105205	Object Oriented Programming with JAVA	2.00	2	0	0	20	-	20	60	-	40	-	100
303105206	Object Oriented Programming with JAVA Laboratory	1.00	0	2	0	-	20	-	-	30	-	25	50
303105220	Digital Electronics	3.00	3	0	0	20	-	20	60	-	40	-	100
303105221	Digital Electronics Laboratory	1.00	0	2	0	-	20	-	-	30	-	25	50
303191202	Discrete Mathematics	4.00	4	-	-	20	-	20	60	-	40	-	100
303193203	Professional Communication Skills	2.00	-	-	2	-	-	100	-	-	40	-	100
	Total	22.00	15	10	2								800

Lect - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **T** - Theory, **P** - Practical
Theory Passing % : 40 Practical Passing % : 50

Semester - 4

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
303105251	Operating System	3.00	3	0	0	20	-	20	60	-	40	-	100
303105252	Operating System Laboratory	1.00	0	2	0	-	20	-	-	30	-	25	50
303105255	Computer Network	3.00	3	0	0	20	-	20	60	-	40	-	100
303105256	Computer Network Laboratory	1.00	0	2	0	-	20	-	-	30	-	25	50
303105257	Programming in Python with Full Stack Development	3.00	3	0	0	20	-	20	60	-	40	-	100
303105258	Programming in Python with Full Stack Development Laboratory	1.00	0	2	0	-	20	-	-	30	-	25	50
303105259	Competitive Coding	2.00	-	4	-	-	20	-	-	30	-	25	50
303108253	Computer Organization and Architecture	3.00	3	0	0	20	-	20	60	-	40	-	100
303108254	Computer Organization and Architecture Laboratory	1.00	0	2	0	-	20	-	-	30	-	25	50
303191251	Probability, Statistics and Numerical Methods	4.00	4	-	-	20	-	20	60	-	40	-	100
303193252	Professional Grooming and Personality Development	1.00	-	-	1	-	-	100	-	-	40	-	100
	Total	23.00	16	12	1								850

Lect - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **T** - Theory, **P** - Practical
Theory Passing % : 40 Practical Passing % : 50

Semester - 5 Open Elective 01

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203101346	Basic Aircraft Science	2.00	2	0	0	20	-	20	60	-	40	-	100
203104346	Disaster Preparedness and Planning	2.00	2	0	0	20	-	20	60	-	40	-	100
203105346	Cyber Security	2.00	2	0	0	20	-	20	60	-	40	-	100
203105376	Azure Fundamentals	2.00	2	0	0	20	-	20	60	-	40	-	100
203106346	Energy Science and Engineering	2.00	2	0	0	20	-	20	60	-	40	-	100
203107346	Fundamentals of Communication Engineering	2.00	2	0	0	20	-	20	60	-	40	-	100
203108346	Internet of Things	2.00	2	0	0	20	-	20	60	-	40	-	100
203109346	Renewable Energy Sources	2.00	2	0	0	20	-	20	60	-	40	-	100

Semester - 5

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203105371	Quant, and Reasoning	3.00	3	-	-	20	-	20	60	-	40	-	100
203105372	Enterprise Programming	2.00	2	-	-	20	-	20	60	-	40	-	100
203105373	Enterprise Programming Laboratory	1.00	-	2	-	-	20	-	-	30	-	25	50
203105374	Design and Analysis of Algorithms	3.00	3	-	-	20	-	20	60	-	40	-	100
203105375	Design and Analysis of Algorithms Laboratory	2.00	-	4	-	-	20	-	-	30	-	25	50
203108301	Theory of Computation	3.00	3	0	0	20	-	20	60	-	40	-	100
203108365	Software Engineering and Project management	3.00	3	0	0	20	-	20	60	-	40	-	100

Semester - 5

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203108366	Software Engineering and Project management Laboratory	1.00	0	2	0	-	20	-	-	30	-	25	50
203193304	Professionalism & Corporate Ethics	1.00	-	-	1	-	-	100	-	-	40	-	100
	Open Elective 01 (Complsoy Subjects :1)	2.00	2	0	0	40	-	-	60	-	-	-	100
	Total	21.00	16	8	1								850

Lect - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **T** - Theory, **P** - Practical
Theory Passing % : 40 Practical Passing % : 50

Semester - 6

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203105322	Artificial Intelligence	3.00	3	0	0	20	-	20	60	-	40	-	100
203105323	Artificial Intelligence Laboratory	1.00	0	2	0	-	20	-	-	30	-	25	50
203105379	MEA(R)N Stack Web Development	3.00	3	0	0	20	-	20	60	-	40	-	100
203105380	MEA(R)N Stack Web Development Laboratory	1.00	0	2	0	-	20	-	-	30	-	25	50
203108357	Project-1	3.00	-	6	-	-	50	-	-	50	-	50	100
203108361	Data Mining and Data Visualization	3.00	3	0	0	20	-	20	60	-	40	-	100
203108362	Data Mining and Data Visualization Laboratory	1.00	0	2	0	-	20	-	-	30	-	25	50
203193353	Employability Skills	1.00	-	-	1	-	-	100	-	-	40	-	100
	PEC 01-LAB (Compulsory Subjects :1)	1.00	0	2	0	-	20	-	-	30	-	-	50
	PEC 01 (Compulsory Subjects :1)	3.00	3	0	0	40	-	-	60	-	-	-	100
	PEC 02 (Compulsory Subjects :1)	3.00	3	0	0	40	-	-	60	-	-	-	100
	PEC 02-LAB (Compulsory Subjects :1)	1.00	0	2	0	-	20	-	-	30	-	-	50
	Total	24.00	15	16	1								950

Semester - 6 PEC 01

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203105326	Cyber Security	3.00	3	0	0	20	-	20	60	-	40	-	100
203105445	Cloud Computing	3.00	3	0	0	20	-	20	60	-	40	-	100

Semester - 6 PEC 01

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203108363	Data Science	3.00	3	0	0	20	-	20	60	-	40	-	100

Semester - 6 PEC 01-LAB

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203105327	Cyber Security Laboratory	1.00	0	2	0	-	20	-	-	30	-	25	50
203105446	Cloud Computing Laboratory	1.00	0	2	0	-	20	-	-	30	-	25	50
203108364	Data Science laboratory	1.00	0	2	0	-	20	-	-	30	-	25	50

Semester - 6 PEC 02

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203105329	.NET Programming	3.00	3	0	0	20	-	20	60	-	40	-	100
203108391	Mobile Computing	3.00	3	0	0	20	-	20	60	-	40	-	100
203108397	Computer Graphics and Visualization	3.00	3	0	0	20	-	20	60	-	40	-	100

Semester - 6 PEC 02-LAB

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203105330	.NET Programming Laboratory	1.00	0	2	0	-	20	-	-	30	-	25	50
203108392	Mobile Computing Laboratory	1.00	0	2	0	-	20	-	-	30	-	25	50
203108398	Computer Graphics and Visualization Laboratory	1.00	0	2	0	-	20	-	-	30	-	25	50

Lect - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **T** - Theory, **P** - Practical
Theory Passing % : 40 Practical Passing % : 50

Semester - 7

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203105310	Information and Network security	3.00	3	0	0	20	-	20	60	-	40	-	100
203105311	Information and Network security Laboratory	1.00	0	2	0	-	20	-	-	30	-	25	50
203108401	Project II	6.00	0	12	0	-	100	-	-	100	-	100	200
203108402	Summer Internship*	2.00	0	0	0	-	100	-	-	-	-	50	100
203108443	Applied Machine Learning	3.00	3	0	0	20	-	20	60	-	40	-	100
203108444	Applied Machine Learning Laboratory	1.00	0	2	0	-	20	-	-	30	-	25	50
	Open Elective 02 (Compulsory Subjects :1)	3.00	3	0	0	40	-	-	60	-	-	-	100
	PEC 03 (Compulsory Subjects :1)	3.00	3	0	0	40	-	-	60	-	-	-	100
	PEC 03-LAB (Compulsory Subjects :1)	1.00	0	2	0	-	20	-	-	30	-	-	50
	PEC 04 (Compulsory Subjects :1)	3.00	3	0	0	40	-	-	60	-	-	-	100
	PEC 04-LAB (Compulsory Subjects :1)	1.00	0	2	0	-	20	-	-	30	-	-	50
	Total	27.00	15	20	0								1000

Semester - 7 PEC 04-LAB

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203105348	Big Data Analytics Laboratory	1.00	0	2	0	-	20	-	-	30	-	25	50
203108474	Wireless Sensor Network Laboratory	1.00	0	2	0	-	20	-	-	30	-	25	50
203108446	Natural Language Processing Laboratory	1.00	0	2	0	-	20	-	-	30	-	25	50

Semester - 7 PEC 03

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203105408	Blockchain	3.00	3	0	0	20	-	20	60	-	40	-	100
203105415	Augmented and Virtual Reality	3.00	3	0	0	20	-	20	60	-	40	-	100
203108471	Computer Vision	3.00	3	0	0	20	-	20	60	-	40	-	100

Semester - 7 PEC 03-LAB

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203105409	Blockchain Laboratory	1.00	0	2	0	-	20	-	-	30	-	25	50
203105416	Augmented and Virtual Reality Laboratory	1.00	0	2	0	-	20	-	-	30	-	25	50
203108472	Computer Vision Laboratory	1.00	0	2	0	-	20	-	-	30	-	25	50

Semester - 7 Open Elective 02

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203105421	Remote Sensing and Geo Informatics	3.00	3	0	0	20	-	20	60	-	40	-	100
203105423	Real Time Systems	3.00	3	0	0	20	-	20	60	-	40	-	100
203105425	Cyber Physical Systems	3.00	3	0	0	20	-	20	60	-	40	-	100
203105427	Computational Number Theory	3.00	3	0	0	20	-	20	60	-	40	-	100

Semester - 7 Open Elective 02

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203105429	VLSI System Design	3.00	3	0	0	20	-	20	60	-	40	-	100

Semester - 7 PEC 04

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203105443	Big Data Analytics	3.00	3	0	0	20	-	20	60	-	40	-	100
203108473	Wireless Sensor Network	3.00	3	0	0	20	-	20	60	-	40	-	100
203108445	Natural Language Processing	3.00	3	0	0	20	-	20	60	-	40	-	100

Lect - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **T** - Theory, **P** - Practical
Theory Passing % : 40 Practical Passing % : 50

Semester - 8

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203108452	Industry Internship	14.00	-	28	-	-	-	-	-	300	-	250	500
	Total	14.00		28									500

Lect - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **T** - Theory, **P** - Practical
Theory Passing % : 40 Practical Passing % : 50