

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.	
203106101	Basic Electrical Engineering	5	4	2	0	20	20	20	60	30	40	25	150
203108101	Information and Communication Technology	3	3	0	0	20	-	20	60	-	40	-	100
203109101	Engineering Graphics	4	2	4	0	20	20	20	60	30	40	25	150
203191101	Mathematics – I	5	3	0	2	20	-	20	60	-	40	-	100
203192102	Engineering Physics	4	3	2	0	20	20	20	60	30	40	25	150
203193101	Communication Skills - 1	2	0	0	2	-	-	100	-	-	40	-	100
	Total	23	15	8	4								750

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

Semester - 2

Code	Subject	Credit	Lect	Lab	Tut	Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
						T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203100101	Workshop	2	0	4	0	-	40	-	-	60	-	50	100
203104103	Environmental Science	2	2	0	0	20	-	20	60	-	40	-	100
203105101	Fundamentals of Programming	4	2	4	0	20	20	20	60	30	40	25	150
203107151	Basic Electronics	4	3	2	0	20	20	20	60	30	40	25	150
203109102	Elements of Mechanical Engineering	4	3	2	0	20	20	20	60	30	40	25	150
203191151	Mathematics-II	5	3	0	2	20	-	20	60	-	40	-	100
203193151	Communication Skills - 2	2	0	0	2	-	-	100	-	-	40	-	100
	Total	23	13	12	4								850

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

Semester - 3

Code	Subject	Credit	Lect	Lab	Tut	Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
						T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203105201	Digital Electronics	3	3	0	0	20	-	20	60	-	40	-	100
203105202	Digital Electronics Laboratory	1	0	2	0	-	20	-	-	30	-	25	50
203105203	Operating System	3	3	0	0	20	-	20	60	-	40	-	100
203105204	Operating System Laboratory	1	0	2	0	-	20	-	-	30	-	25	50
203105205	Data Structure and Algorithms	3	3	0	0	20	-	20	60	-	40	-	100
203105206	Data Structure and Algorithms Laboratory	1	0	2	0	-	20	-	-	30	-	25	50
203105207	Object Oriented Concepts and UML	3	3	0	0	20	-	20	60	-	40	-	100
203105208	Object Oriented Concepts and UML Laboratory	1	0	2	0	-	20	-	-	30	-	25	50
203105209	IT Workshop-1	1	0	2	0	-	40	-	-	60	-	50	100
203191202	Discrete Mathematics	5	3	0	2	20	-	20	60	-	40	-	100
203193201	Professional Communication Skills-1	2	1	0	1	-	-	100	-	-	40	-	100
	Total	24	16	10	3								900

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.	
203105251	Database Management System	3	3	0	0	20	-	20	60	-	40	-	100
203105252	Database Management System Laboratory	2	0	4	0	-	20	-	-	30	-	25	50
203105253	Computer Organization & Architecture	3	3	0	0	20	-	20	60	-	40	-	100
203105254	Computer Organization & Architecture Laboratory	1	0	2	0	-	20	-	-	30	-	25	50
203105255	Computer Networks	3	3	0	0	20	-	20	60	-	40	-	100
203105256	Computer Networks Laboratory	1	0	2	0	-	20	-	-	30	-	25	50
203105257	Signals and Systems	3	3	0	0	20	-	20	60	-	40	-	100
203105258	IT Workshop-2	1	0	2	0	-	40	-	-	60	-	50	100
203191251	Probability, Statistics and Numerical Methods	5	3	0	2	20	-	20	60	-	40	-	100
203193251	Professional Communication Skills-2	2	1	0	1	-	-	100	0	-	40	-	100
	Total	24	16	10	3								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	2	0	0	20	-	20	60	-	40	-	100
203104346	Disaster Preparedness and Planning	2	2	0	0	20	-	20	60	-	40	-	100
203105346	Cyber Security	2	2	0	0	20	-	20	60	-	40	-	100
203106346	Energy Science and Engineering	2	2	0	0	20	-	20	60	-	40	-	100
203107346	Fundamentals of Communication Engineering	2	2	0	0	20	-	20	60	-	40	-	100
203108346	Internet of Things	2	2	0	0	20	-	20	60	-	40	-	100
203109346	Renewable Energy Sources	2	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.	
203105301	Design and Analysis of Algorithms	3	3	0	0	20	-	20	60	-	40	-	100
203105302	Design and Analysis of Algorithms Laboratory	1	0	2	0	-	20	-	-	30	-	25	50
203105303	Software Engineering	3	3	0	0	20	-	20	60	-	40	-	100
203105304	Software Engineering Laboratory	1	0	2	0	-	20	-	-	30	-	25	50
203105306	Internet of Everything Laboratory	2	0	4	0	-	20	-	-	30	-	25	50
203108301	Theory of Computation	3	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.	
203193302	Programming Skills and Placement Essentials (Only for CSE/IT/ICT)	2	1	0	1	-	-	100	-	-	40	-	100
	Open Elective 01 (Compulsory Subjects :1) -	2	2	0	0	-	-	-	-	-	-	-	100
	PEC 01-LAB (Compulsory Subjects :1) -	2	0	4	0	-	-	-	-	-	-	-	50
	PEC 01 (Compulsory Subjects :1) -	3	3	0	0	-	-	-	-	-	-	-	100
	Total	22	15	12	1								800

Semester - 5 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.	
203105331	Object Oriented Programming with C++	3	3	0	0	20	-	20	60	-	40	-	100
203105333	Object Oriented Programming with Java	3	3	0	0	20	-	20	60	-	40	-	100
203105335	Object Oriented Programming with C#	3	3	0	0	20	-	20	60	-	40	-	100

Semester - 5 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.	
203105332	Object Oriented Programming with C++ Laboratory	2	0	4	0	-	20	-	-	30	-	25	50
203105334	Object Oriented Programming with Java Laboratory	2	0	4	0	-	20	-	-	30	-	25	50
203105336	Object Oriented Programming with C# Laboratory	2	0	4	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 - 6 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.	
203100351	Life Science	2	2	0	0	60	-	40	-	-	40	-	100
203100352	Biology for Engineers	2	2	0	0	60	-	40	-	-	40	-	100
203100353	Engineering Geology	2	2	0	0	60	-	40	-	-	40	-	100
203100354	Landscape Planning and Design	2	2	0	0	60	-	40	-	-	40	-	100
203100355	Fundamentals of Management	2	2	0	0	60	-	40	-	-	40	-	100
203100356	Corporate Social Responsibility	2	2	0	0	60	-	40	-	-	40	-	100
203100357	Programme Management & Entrepreneurship	2	2	0	0	60	-	40	-	-	40	-	100
203100358	Constitution of India	2	2	0	0	60	-	40	-	-	40	-	100
203100359	Cyber Law & Ethics	2	2	0	0	60	-	40	-	-	40	-	100

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.	
203105353	Web Programming	3	3	0	0	20	-	20	60	-	40	-	100
203105354	Web Programming Laboratory	2	0	4	0	-	20	-	-	30	-	25	50
203108350	Project – 1	3	0	6	0	-	50	-	-	50	-	50	100
203108351	System Programming	3	3	0	0	20	-	20	60	-	40	-	100
203108352	System Programming Laboratory	2	0	4	0	-	20	-	-	30	-	25	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.	
	Open Elective 02 (Compulsory Subjects :1) -	2	2	0	0	-	-	-	-	-	-	-	100
	Open Elective 03 (Compulsory Subjects :1) -	2	1	0	1	-	-	-	-	-	-	-	100
	PEC 02 (Compulsory Subjects :1) -	3	3	0	0	-	-	-	-	-	-	-	100
	PEC 02-LAB (Compulsory Subjects :1) -	1	0	2	0	-	-	-	-	-	-	-	50
	PEC 03 (Compulsory Subjects :1) -	3	3	0	0	-	-	-	-	-	-	-	100
	PEC 03-LAB (Compulsory Subjects :1) -	1	0	2	0	-	-	-	-	-	-	-	50
	Total	25	15	18	1								900

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.	
203105385	Enterprise Resource Planning	3	3	0	0	20	-	20	60	-	40	-	100
203108381	Information Security	3	3	0	0	20	-	20	60	-	40	-	100
203108383	Information Theory & Coding	3	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.	
203105386	Enterprise Resource Planning Laboratory	1	0	2	0	-	20	-	-	30	-	25	50
203108382	Information Security Laboratory	1	0	2	0	-	20	-	-	30	-	25	50
203108384	Information Theory & Coding Laboratory	1	0	2	0	-	20	-	-	30	-	25	50

Semester - 6 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.	
203108391	Mobile Computing	3	3	0	0	20	-	20	60	-	40	-	100
203108393	Business Information System	3	3	0	0	20	-	20	60	-	40	-	100
203108395	Data Compression	3	3	0	0	20	-	20	60	-	40	-	100

Semester - 6 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.	
203108392	Mobile Computing Laboratory	1	0	2	0	-	20	-	-	30	-	25	50
203108394	Business Information System Laboratory	1	0	2	0	-	20	-	-	30	-	25	50
203108396	Data Compression Laboratory	1	0	2	0	-	20	-	-	30	-	25	50

Semester - 6 Open Elective 03

Code	Subject	Credit	Lect	Lab	Tut	Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
						T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203193352	Advanced Programming and Placement Essentials (Only for CSE/IT/ICT)	2	1	0	1	-	-	100	-	-	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 - 7 Open Elective 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.	
203105421	Remote Sensing and Geo Informatics	3	3	0	0	20	-	20	60	-	40	-	100
203105423	Real Time Systems	3	3	0	0	20	-	20	60	-	40	-	100
203105425	Cyber Physical Systems	3	3	0	0	20	-	20	60	-	40	-	100
203105427	Computational Number Theory	3	3	0	0	20	-	20	60	-	40	-	100
203105429	VLSI System Design	3	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.	
203105431	Data Mining	3	3	0	0	20	-	20	60	-	40	-	100
203105433	Parallel & Distributed Computing	3	3	0	0	20	-	20	60	-	40	-	100
203105435	Advance Computer Networks	3	3	0	0	20	-	20	60	-	40	-	100
203108431	IT Infrastructure and Servers	3	3	0	0	20	-	20	60	0	40	0	100

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.	
203105432	Data Mining Laboratory	2	0	4	0	-	20	-	-	30	-	25	50
203105434	Parallel & Distributed Computing Laboratory	2	0	4	0	-	20	-	-	30	-	25	50
203105436	Advance Computer Networks Laboratory	2	0	4	0	-	20	-	-	30	-	25	50
203108432	IT Infrastructure and Servers Laboratory	2	0	4	0	-	20	-	-	30	-	25	50

Semester - 7 PEC 05

						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.	
203105441	Artificial Intelligence	3	3	0	0	20	-	20	60	-	40	-	100
203105443	Big Data Analytics	3	3	0	0	20	-	20	60	-	40	-	100
203105445	Cloud Computing	3	3	0	0	20	-	20	60	-	40	-	100
203105447	Network Security	3	3	0	0	20	-	20	60	-	40	-	100
203108441	Storage Area Networks	3	3	0	0	20	-	20	60	-	40	-	100

Semester - 7 PEC 05-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.	
203105442	Artificial Intelligence Laboratory	2	0	4	0	-	20	-	-	30	-	25	50
203105444	Big Data Analytics Laboratory	2	0	4	0	-	20	-	-	30	-	25	50
203105446	Cloud Computing Laboratory	2	0	4	0	-	20	-	-	30	-	25	50
203105448	Network Security Laboratory	2	0	4	0	-	20	-	-	30	-	25	50
203108442	Storage Area Networks Laboratory	2	0	4	0	-	20	-	-	30	-	25	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.	
203108400	Project - 2	6	0	12	0	-	50	-	-	50	-	50	100
203108402	Summer Internship*	2	0	0	0	-	100	-	-	0	-	50	100
	Open Elective 04 (Compulsory Subjects :1) -	3	3	0	0	-	-	-	-	-	-	-	100
	PEC 04 (Compulsory Subjects :1) -	3	3	0	0	-	-	-	-	-	-	-	100
	PEC 04-LAB (Compulsory Subjects :1) -	2	0	4	0	-	-	-	-	-	-	-	50
	PEC 05 (Compulsory Subjects :1) -	3	3	0	0	-	-	-	-	-	-	-	100

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.	
	PEC 05-LAB (Complsoy Subjects :1) -	2	0	4	0	-	-	-	-	-	-	-	50
	Total	21	9	20	0								600

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.	
203105452	Python Programming Laboratory	2	0	4	0	-	20	-	-	30	-	25	50
203108450	Project - 3	6	0	12	0	-	50	-	-	50	-	50	100
	Open Elective 05 (Compulsory Subjects :1) -	3	3	0	0	-	-	-	-	-	-	-	100
	PEC 06 (Compulsory Subjects :1) -	3	3	0	0	-	-	-	-	-	-	-	100
	PEC 06-LAB (Compulsory Subjects :1) -	1	0	2	0	-	-	-	-	-	-	-	50
	Total	15	6	18	0								400

Semester - 8 Open Elective 05

						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.	
203105461	History of Science and Engineering	3	3	0	0	20	-	20	60	-	40	-	100
203105463	Economic Policies in India	3	3	0	0	20	-	20	60	-	40	-	100
203105465	Biology for Engineers	3	3	0	0	20	-	20	60	-	40	-	100
203105467	Python Programming	3	3	0	0	20	-	20	60	-	40	-	100
203105469	Finite Element Method	3	3	0	0	20	-	20	60	-	40	-	100

Semester - 8 PEC 06

						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.	
203105481	Machine Learning	3	3	0	0	20	-	20	60	-	40	-	100
203105483	Data Science	3	3	0	0	20	-	20	60	-	40	-	100
203105485	Advance Database Systems	3	3	0	0	20	-	20	60	-	40	-	100
203105487	Cyber Forensic	3	3	0	0	20	-	20	60	-	40	-	100
203108481	Systems and IT Infrastructure Architectures	3	3	0	0	20	-	20	60	-	40	-	100

Semester - 8 PEC 06-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.	
203105482	Machine Learning Laboratory	1	0	2	0	-	20	-	-	30	-	25	50
203105484	Data Science Laboratory	1	0	2	0	-	20	-	-	30	-	25	50
203105486	Advance Database Systems Laboratory	1	0	2	0	-	20	-	-	30	-	25	50
203105488	Cyber Forensic Laboratory	1	0	2	0	-	20	-	-	30	-	25	50
203108482	Systems and IT Infrastructure Architectures Laboratory	1	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