Subject Teaching & Examination Scheme

Course : BTech | **Curriculum :** ENGG & TECH - BTech - EC -2018-19

Semester - 1

Code	Subject	Credit	Lect	Lab	Tut	Internal Marks T	Internal Marks P	Internal Marks CE	External Marks T	External Marks P	Passing Marks (Theory + CE) Int. + Ext.	Passing Marks (Practical) Int. + Ext.	Total Marks
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
203192104	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

Subject Teaching & Examination Scheme

Course : BTech | **Curriculum :** ENGG & TECH - BTech - EC -2018-19

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.	
203107201	Electronic Devices	3	3	0	0	20	-	20	60	-	40	-	100
203107202	Electronic Devices Lab	1	0	2	0	-	20	-	-	30	-	25	50
203107203	Digital System Design	3	3	0	0	20	-	20	60	-	40	-	100
203107204	Digital System Design Lab	1	0	2	0	-	20	-	-	30	-	25	50
203107205	Network Theory	3	3	0	0	20	-	20	60	-	40	-	100
203107206	Network Theory Lab	1	0	2	0	-	20	-	-	30	-	25	50
203107207	Signals and Systems	3	3	0	0	20	-	20	60	-	40	-	100
203107208	Signals and Systems Lab	1	0	2	0	-	20	-	-	30	-	25	50
203191203	Mathematics III	5	3	0	2	20	-	20	60	-	40	-	100
203193201	Professional Communication Skills-1	2	1	0	1	-	-	100	-	-	40	-	100
	Total	**23**	**16**	**8**	**3**								**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

Code	Subject	Credit	Lect	Lab	Tut	Internal Marks T	Internal Marks P	Internal Marks CE	External Marks T	External Marks P	Passing Marks (Theory + CE) Int. + Ext.	Passing Marks (Practical) Int. + Ext.	Total Marks
203107251	Analog Communication	3	3	0	0	20	-	20	60	-	40	-	100
203107252	Analog Communication Lab	1	0	2	0	-	20	-	-	30	-	25	50
203107253	Analog Circuits	3	3	0	0	20	-	20	60	-	40	-	100
203107254	Analog Circuits Lab	1	0	2	0	-	20	-	-	30	-	25	50
203107255	Microcontrollers	3	3	0	0	20	-	20	60	-	40	-	100
203107256	Microcontrollers Lab	1	0	2	0	-	20	-	-	30	-	25	50
203107257	Control Systems	3	3	0	0	20	-	20	60	-	40	-	100
203107258	Control Systems Lab	1	0	2	0	-	20	-	-	30	-	25	50
203107259	Probability Theory and Stochastic Processes	3	3	0	0	20	-	20	60	-	40	-	100
203107260	Probability Theory and Stochastic Processes Lab	1	0	2	0	-	20	-	-	30	-	25	50
203193251	Professional Communication Skills-2	2	1	0	1	-	-	100	0	-	40	-	100
	Total	22	16	10	1								850

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

Subject Teaching & Examination Scheme

Course : BTech | **Curriculum :** ENGG & TECH - BTech - EC -2018-19

Semester - 5 Open Elective 01

Code	Subject	Credit	Lect	Lab	Tut	Internal Marks T	Internal Marks P	Internal Marks CE	External Marks T	External Marks P	Passing Marks (Theory + CE) Int. + Ext.	Passing Marks (Practical) Int. + Ext.	Total Marks
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
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

Code	Subject	Credit	Lect	Lab	Tut	Internal Marks T	Internal Marks P	Internal Marks CE	External Marks T	External Marks P	Passing Marks (Theory + CE) Int. + Ext.	Passing Marks (Practical) Int. + Ext.	Total Marks
203107301	Electromagnetic Waves	3	3	0	0	20	-	20	60	-	40	-	100
203107302	Electromagnetic Waves Lab	1	0	2	0	-	20	-	-	30	-	25	50
203107303	Computer Architecture	3	3	0	0	20	-	20	60	-	40	-	100
203107304	Computer Architecture Lab	1	0	2	0	-	20	-	-	30	-	25	50
203107305	Digital Communication	3	3	0	0	20	-	20	60	-	40	-	100
203107306	Digital Communication Lab	1	0	2	0	-	20	-	-	30	-	25	50
203107308	Simulation Design Techniques	2	0	4	0	-	40	-	-	60	-	50	100

Semester - 5

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.	
203193301	Programming Skills and Placement Essentials (All Branches Except CSE/IT/ICT)	2	1	0	1	-	-	100	-	-	40	-	100
	Open Elective 01 (Complsory Subjects :1) -	2	2	0	0	-	-	-	-	-	-	-	100
	PEC 01-LAB (Complsory Subjects :1) -	1	0	2	0	-	-	-	-	-	-	-	50
	PEC 01 (Complsory Subjects :1) -	3	3	0	0	-	-	-	-	-	-	-	100
	Total	**22**	**15**	**12**	**1**								**900**

Semester - 5 PEC 01

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.	
203107331	Power Electronics	3	3	0	0	20	-	20	60	-	40	-	100
203107333	Introduction to MEMS	3	3	0	0	20	-	20	60	-	40	-	100
203107335	Scientific computing	3	3	0	0	20	-	20	60	-	40	-	100
203107337	PLC & SCADA	3	3	0	0	20	-	20	60	-	40	-	100

PARUL UNIVERSITY

WAGHODIA, VADODARA

Subject Teaching & Examination Scheme

Course : BTech | **Curriculum :** ENGG & TECH - BTech - EC -2018-19

Semester - 5 PEC 01-LAB

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.	
203107332	Power Electronics Lab	1	0	2	0	-	20	-	-	30	-	25	50
203107334	Introduction to MEMS Lab	1	0	2	0	-	20	-	-	30	-	25	50
203107336	Scientific computing Lab	1	0	2	0	-	20	-	-	30	-	25	50
203107338	PLC & SCADA Lab	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

Semester - 6 Open Elective 02

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.	
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

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.	
203107351	VLSI	3	3	0	0	20	-	20	60	-	40	-	100
203107352	VLSI Lab	1	0	2	0	-	20	-	-	30	-	25	50
203107353	Computer Network	3	3	0	0	20	-	20	60	-	40	-	100
203107354	Computer Network Lab	1	0	2	0	-	20	-	-	30	-	25	50
203107355	Digital Signal Processing	3	3	0	0	20	-	20	60	-	40	-	100

Semester - 6

Code	Subject	Credit	Lect	Lab	Tut	Internal Marks T	P	CE	External Marks T	P	Passing Marks (Theory + CE) Int. + Ext.	Passing Marks (Practical) Int. + Ext.	Total Marks
203107356	Digital Signal Processing Lab	1	0	2	0	-	20	-	-	30	-	25	50
203107358	Electronic Measurement Lab	2	0	4	0	-	40	-	-	60	-	50	100
203107360	Electronics Design Lab	1	0	2	0	-	20	-	-	30	-	25	50
	Open Elective 02 (Complsory Subjects :1) -	2	2	0	0	-	-	-	-	-	-	-	100
	Open Elective 03 (Complsory Subjects :1) -	2	1	0	1	-	-	-	-	-	-	-	100
	PEC 02 (Complsory Subjects :1) -	3	3	0	0	-	-	-	-	-	-	-	100
	PEC 02-LAB (Complsory Subjects :1) -	1	0	2	0	-	-	-	-	-	-	-	50
	Total	**23**	**15**	**14**	**1**								**950**

Semester - 6 PEC 02

Code	Subject	Credit	Lect	Lab	Tut	Internal Marks T	P	CE	External Marks T	P	Passing Marks (Theory + CE) Int. + Ext.	Passing Marks (Practical) Int. + Ext.	Total Marks
203107381	Nano electronics	3	3	0	0	20	-	20	60	-	40	-	100
203107383	Information Theory and Coding	3	3	0	0	20	-	20	60	-	40	-	100
203107385	Bio Medical Electronics	3	3	0	0	20	-	20	60	-	40	-	100
203107387	Industrial Instrumentation	3	3	0	0	20	-	20	60	-	40	-	100

Semester - 6 PEC 02-LAB

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.	
203107382	Nano electronics Lab	1	0	2	0	-	20	-	-	30	-	25	50
203107384	Information Theory and Coding Lab	1	0	2	0	-	20	-	-	30	-	25	50
203107386	Bio Medical Electronics Lab	1	0	2	0	-	20	-	-	30	-	25	50
203107388	Industrial Instrumentation Lab	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.	
203193351	Advanced Programming and Placement Essentials (All Branches Except 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

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.	
203107401	Project-1	5	0	10	0	-	100	-	-	100	-	100	200
203107402	Summer Internship	2	0	0	0	-	100	-	-	-	-	50	100
	Open Elective 04 (Complsory Subjects :1) -	3	3	0	0	-	-	-	-	-	-	-	100
	PEC 03 (Complsory Subjects :1) -	3	3	0	0	-	-	-	-	-	-	-	100
	PEC 03-LAB (Complsory Subjects :1) -	1	0	2	0	-	-	-	-	-	-	-	50
	PEC 04 (Complsory Subjects :1) -	3	3	0	0	-	-	-	-	-	-	-	100
	PEC 04-LAB (Complsory Subjects :1) -	1	0	2	0	-	-	-	-	-	-	-	50
	PEC 05 (Complsory Subjects :1) -	3	3	0	0	-	-	-	-	-	-	-	100
	PEC 05-LAB (Complsory Subjects :1) -	1	0	2	0	-	-	-	-	-	-	-	50
	Total	**22**	**12**	**16**	**0**								**850**

Semester - 7 PEC 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.	
203107411	Adaptive signal processing	3	3	0	0	20	-	20	60	-	40	-	100
203107413	Speech and Audio Processing	3	3	0	0	20	-	20	60	-	40	-	100
203107415	Error Correcting Codes	3	3	0	0	20	-	20	60	-	40	-	100
203107427	Antennas and Propagation	3	3	0	0	20	-	20	60	-	40	-	100

Semester - 7 PEC 03-LAB

Code	Subject	Credit	Lect	Lab	Tut	Internal Marks T	Internal Marks P	Internal Marks CE	External Marks T	External Marks P	Passing Marks (Theory + CE) Int. + Ext.	Passing Marks (Practical) Int. + Ext.	Total Marks
203107412	Adaptive Signal Processing Lab	1	0	2	0	-	20	-	-	30	-	25	50
203107414	Speech and Audio Processing Lab	1	0	2	0	-	20	-	-	30	-	25	50
203107416	Error Correcting Codes Lab	1	0	2	0	-	20	-	-	30	-	25	50
203107428	Antennas and Propagation Lab	1	0	2	0	-	20	-	-	30	-	25	50

Semester - 7 PEC 04

Code	Subject	Credit	Lect	Lab	Tut	Internal Marks T	Internal Marks P	Internal Marks CE	External Marks T	External Marks P	Passing Marks (Theory + CE) Int. + Ext.	Passing Marks (Practical) Int. + Ext.	Total Marks
203107417	Microwave Theory and Techniques	3	3	0	0	20	-	20	60	-	40	-	100
203107419	Mixed Signal Design	3	3	0	0	20	-	20	60	-	40	-	100
203107421	Mobile Communication Networks	3	3	0	0	20	-	20	60	-	40	-	100

Semester - 7 PEC 04-LAB

Code	Subject	Credit	Lect	Lab	Tut	Internal Marks T	Internal Marks P	Internal Marks CE	External Marks T	External Marks P	Passing Marks (Theory + CE) Int. + Ext.	Passing Marks (Practical) Int. + Ext.	Total Marks
203107418	Microwave Theory and Techniques Lab	1	0	2	0	-	20	-	-	30	-	25	50
203107420	Mixed Signal Design Lab	1	0	2	0	-	20	-	-	30	-	25	50

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.	
203107422	Mobile Communication Networks Lab	1	0	2	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.	
203107423	Satellite Communication	3	3	0	0	20	-	20	60	-	40	-	100
203107425	Fiber Optic Communications	3	3	0	0	20	-	20	60	-	40	-	100
203107429	Embedded Systems	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.	
203107424	Satellite Communication Lab	1	0	2	0	-	20	-	-	30	-	25	50
203107426	Fiber Optic Communications Lab	1	0	2	0	-	20	-	-	30	-	25	50
203107430	Embedded Systems Lab	1	0	2	0	-	20	-	-	30	-	25	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.	
203107441	Wavelet Transforms	3	3	0	0	20	-	20	60	-	40	-	100
203107443	Audio & Video	3	3	0	0	20	-	20	60	-	40	-	100
203107445	Radar & Navigation Systems	3	3	0	0	20	-	20	60	-	40	-	100
203107447	Operations Research	3	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

Code	Subject	Credit	Lect	Lab	Tut	Internal Marks T	Internal Marks P	Internal Marks CE	External Marks T	External Marks P	Passing Marks (Theory + CE) Int. + Ext.	Passing Marks (Practical) Int. + Ext.	Total Marks
203107451	Project-II	7	0	14	0	-	100	-	-	100	-	100	200
	Open Elective 05 (Complsory Subjects :1) -	3	3	0	0	-	-	-	-	-	-	-	100
	Open Elective 06 (Complsory Subjects :1) -	3	3	0	0	-	-	-	-	-	-	-	100
	PEC 06 (Complsory Subjects :1) -	3	3	0	0	-	-	-	-	-	-	-	100
	PEC 06-LAB (Complsory Subjects :1) -	1	0	2	0	-	-	-	-	-	-	-	50
	PEC 07 (Complsory Subjects :1) -	3	3	0	0	-	-	-	-	-	-	-	100
	PEC 07-LAB (Complsory Subjects :1) -	1	0	2	0	-	-	-	-	-	-	-	50
	Total	**21**	**12**	**18**	**0**								**700**

Semester - 8 PEC 06

Code	Subject	Credit	Lect	Lab	Tut	Internal Marks T	Internal Marks P	Internal Marks CE	External Marks T	External Marks P	Passing Marks (Theory + CE) Int. + Ext.	Passing Marks (Practical) Int. + Ext.	Total Marks
203107461	Digital Image & Video Processing	3	3	0	0	20	-	20	60	-	40	-	100
203107463	Internet of Things	3	3	0	0	20	-	20	60	-	40	-	100
203107465	High Speed Electronics	3	3	0	0	20	-	20	60	-	40	-	100

Subject Teaching & Examination Scheme

Course : BTech | **Curriculum :** ENGG & TECH - BTech - EC -2018-19

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.	
203107462	Digital Image & Video Processing Lab	1	0	2	0	-	20	-	-	30	-	25	50
203107464	Internet of Things Lab	1	0	2	0	-	20	-	-	30	-	25	50
203107466	High Speed Electronics Lab	1	0	2	0	-	20	-	-	30	-	25	50

Semester - 8 PEC 07

						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.	
203107467	Wireless Sensor Networks	3	3	0	0	20	-	20	60	-	40	-	100
203107469	Modern Digital Communication Systems	3	3	0	0	20	-	20	60	-	40	-	100
203107471	Artificial Intelligence	3	3	0	0	20	-	20	60	-	40	-	100

Semester - 8 PEC 07-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.	
203107468	Wireless Sensor Networks Lab	1	0	2	0	-	20	-	-	30	-	25	50
203107470	Modern Digital Communication Systems Lab	1	0	2	0	-	20	-	-	30	-	25	50
203107472	Artificial Intelligence Lab	1	0	2	0	-	20	-	-	30	-	25	50

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.	
203107481	Big Data Analysis	3	3	0	0	20	-	20	60	-	40	-	100
203107483	Modern Manufacturing Processes	3	3	0	0	20	-	20	60	-	40	-	100
203107485	Spread Spectrum Techniques	3	3	0	0	20	-	20	60	-	40	-	100

Semester - 8 Open Elective 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.	
203107487	Python for Hardware Programming	3	3	0	0	20	-	20	60	-	40	-	100
203107489	Digital Design using Verilog	3	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