



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.	
203200101	Research Methodology & IPR	2	2	0	0	20	-	20	60	-	50	-	100
203231101	Biostatistics	4	3	0	1	20	-	20	60	-	50	-	100
203231102	Advanced Biomedical Signal Processing	4	3	2	0	20	20	20	60	30	50	25	150
	AUDIT-1	0 - 0	-	-	-	-	-	-	-	-	-	-	
	Elective - 1	4 - 4	-	-	-	-	-	-	-	-	-	-	
	Elective - 2	4 - 4	-	-	-	-	-	-	-	-	-	-	
	Total	18 - 18	8	2	1								350

Semester - 1 : AUDIT-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.	
203200102	English for Research Paper Writing	0	2	0	0	20	-	20	60	-	50	-	100
203200103	Disaster Management	0	2	0	0	20	-	20	60	-	50	-	100
203200104	Sanskrit for Technical Knowledge	0	2	0	0	20	-	20	60	-	50	-	100
203200105	Value Education	0	2	0	0	20	-	20	60	-	50	-	100



Semester - 1 : Elective - 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.	
203231130	Advance Biomaterials	4	3	2	0	20	20	20	60	30	50	25	150
203231131	Networking and Information System in Medicine	4	3	2	0	20	20	20	60	30	50	25	150
203231132	MEMS & NEMS for Biomedical Applications	4	3	2	0	20	20	20	60	30	50	25	150

Semester - 1 : Elective - 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.	
203231133	Medical Instrumentation & Systems	4	3	2	0	20	20	20	60	30	50	25	150
203231134	Embedded Systems and IoT for Biomedical Applications	4	3	2	0	20	20	20	60	30	50	25	150
203231135	Biomedical Sensors and Data Acquisition Techniques	4	3	2	0	20	20	20	60	30	50	25	150

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



Semester - 2 : AUDIT-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.	
203200151	Constitution of India	0	-	-	2	-	40	60	-	-	-	50	100
203200152	Pedagogy Studies	0	-	-	2	-	40	60	-	-	-	50	100
203200153	Stress Management by Yoga	0	-	-	2	-	40	60	-	-	-	50	100
203200154	Personality Development through Life Enlightenment Skills	0	-	-	2	-	40	60	-	-	-	50	100

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.	
203231151	Seminar & Mini Project	2	0	4	0	-	50	-	-	50	-	50	100
203231152	Healthcare Management	4	4	0	0	20	-	20	60	-	50	-	100
203231153	Advanced Biomedical imaging	4	3	2	0	20	20	20	60	30	50	25	150
	AUDIT-2	0 - 0	-	-	-	-	-	-	-	-	-	-	
	Elective - 3	4 - 4	-	-	-	-	-	-	-	-	-	-	
	Elective - 4	4 - 4	-	-	-	-	-	-	-	-	-	-	
	Total	18 - 18	7	6	0								350



Semester - 2 : Elective - 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.	
203231180	Biomedical Image Processing and Analysis	4	3	2	0	20	20	20	60	30	50	25	150
203231181	Biomedical Equipment	4	3	2	0	20	20	20	60	30	50	25	150
203231182	Medical Product Design: Standards & Regulation	4	3	2	0	20	20	20	60	30	50	25	150

Semester - 2 : Elective - 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.	
203231183	Bioinformatics	4	3	2	0	20	20	20	60	30	50	25	150
203231184	Cardiovascular System and Dynamics	4	3	2	0	20	20	20	60	30	50	25	150
203231185	Medical Optics	4	3	2	0	20	20	20	60	30	50	25	150

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



Semester - 3 : Open Elective

						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.	
203200201	Business Analytics	3	3	0	0	20	-	20	60	-	50	-	100
203200202	Industrial Safety	3	3	0	0	20	-	20	60	-	50	-	100
203200203	Operation Research	3	3	0	0	20	-	20	60	-	50	-	100
203200204	Cost Management of Engineering Projects	3	3	0	0	20	-	20	60	-	50	-	100
203200205	Composite Materials	3	3	0	0	20	-	20	60	-	50	-	100
203200206	Waste to Energy	3	3	0	0	20	-	20	60	-	50	-	100

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.	
203231201	Phase - I Dissertation	10	0	20	0	-	100	-	-	100	-	100	200
	Elective-5	3 - 3	-	-	-	-	-	-	-	-	-	-	
	Open Elective	3 - 3	-	-	-	-	-	-	-	-	-	-	
	Total	16 - 16	0	20	0								200



Semester - 3 : Elective-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.	
203231230	Medical Robotics	3	3	0	0	20	-	20	60	-	50	-	100
203231231	Biodynamics	3	3	0	0	20	-	20	60	-	50	-	100
203231232	Basics of Artificial Intelligence	3	3	0	0	20	-	20	60	-	50	-	100

Lect - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **T** - Theory, **P** - Practical
Theory Passing % : 50 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.	
203231251	Phase - II Dissertation	16	0	32	0	-	100	-	-	100	-	100	200
	Total	16 - 16	0	32	0								200

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