

SAURASHTRA UNIVERSITY, RAJKOT

**B.E. III SEMESTER
[BIOMEDICAL & INSTRUMENTATION ENGINEERING]**

Code	Subject	Teaching Scheme		Exam Scheme				
		Lect.	Pra	Theory	Paper Hrs.	Prac/ Oral	Term Work	Total Marks
301	Applied Mathematics	4	-	100	3	-	-	100
302	Analog Electronic Circuits	4	2	100	3	25	25	150
303	Human Biology - I	3	2	100	3	25	25	150
304	Computer Programming - II	4	2	100	3	25	25	150
305	Digital Circuits	4	2	100	3	25	25	150
306	Computer Applications Practice	1	2	-	-	25	25	50
TOTAL		18	10	500	-	125	125	750

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**B.E. IV SEMESTER
[BIOMEDICAL & INSTRUMENTATION ENGINEERING]**

Code	Subject	Teaching Scheme		Exam Scheme				
		Lect.	Pra	Theory	Paper Hrs.	Prac/ Oral	Term Work	Total Marks
401	Electronic Instrument & Measurement techniques	4	2	100	3	25	25	150
402	Transducers & Measurement Techniques	4	2	100	3	25	25	150
403	Human Biology - II	4	2	100	3	25	25	150
404	Circuit Theory	4	-	100	3	-	-	100
405	Electrical Engineering	4	2	100	3	25	25	150
406	Electronics Workshop Practice	-	2	-	-	25	25	50
TOTAL		20	10	500	-	125	125	750

SAURASHTRA UNIVERSITY, RAJKOT
B.E. V SEMESTER
[BIOMEDICAL & INSTRUMENTATION ENGINEERING]

Code	Subject	Teaching Scheme		Exam Scheme				
		Lect.	Pra	Theory Hrs	Paper Marks	Prac/ Oral	Term Work	Total Marks
501	Linear Control Theory	4	2	3	100	-	-	100
502	Control System Components	4	2	3	100	25	25	150
503	Integrated Circuits & Applications	4	2	3	100	25	25	150
504	Analytical & Optical Diagnostic Techniques & Equipments	4	2	3	100	25	25	150
505	Medical Diagnostic Techniques & Equipments	4	2	3	100	25	25	150
506	Electronics Circuit Design Practice*	-	2	-	-	50*	-	50
TOTAL		20	10	-	500	150	100	750

• College level Examination

SAURASHTRA UNIVERSITY, RAJKOT
B.E. VI SEMESTER
[BIOMEDICAL & INSTRUMENTATION ENGINEERING]

Code	Subject	Teaching Scheme		Exam Scheme				
		Lect.	Pra.	Theory Hrs.	Paper Marks	Prac/ Oral	Term Work	Total Mark
601	Microprocessor Architecture & Interfacing	4	2	3	100	25	25	150
602	Analog & Digital Communication	4	2	3	100	25	25	150
603	Industrial Instrumentation & Measurement Techniques - I	4	2	3	100	25	25	150
604	Biomaterials & Biomechanics	4	-	3	100	-	-	100
605	Medical Therapeutic Techniques & Equipments	4	2	3	100	25	25	150
606	Seminar*	-	2	-	-	50*	-	50
TOTAL		20	10	-	500	150	100	750

• College Level Examination

SAURASHTRA UNIVERSITY, RAJKOT
B.E VII SEMESTER
[BIOMEDICAL & INSTRUMENTATION ENGINEERING]

Code	Subject	Teaching Scheme		Exam Scheme				
		Lect.	Pra	Theory Hrs	Paper Mark	Prac/ Oral	Term Work	Total
Marks								
701	Advance microprocessor & Micro controller	4	2	3	100	25	25	150
702	Industrial Instrumentation & Measurement Techniques - II	4	2	3	100	25	25	150
703	Radiology & Medical Imaging.	4	2	3	100	25	25	150
704	Rehabilitation Engineering	4	2	3	100	25	25	150
705	Elective - I	4	2	3	100	25	25	150
706	Hospital Practice *	-	-	-	-	50	-	50
TOTAL		20	10	-	500	175	125	800

SAURASHTRA UNIVERSITY, RAJKOT
B.E. VIII SEMESTER
[BIO-MEDICAL & INSTRUMENTATION ENGINEERING]

Code	Subject	Teaching Scheme		Exam Scheme				
		Lect.	Pra	Theory Hrs	Paper Mark	Prac/ Oral	Term Work	Total
Marks								
801	Digital Control System	5	2	3	100	25	25	150
802	Power Electronics	5	2	3	100	25	25	150
803	Hospital Organisation & Management	5	2	3	100	25	25	150
804	Elective - II	5	2	3	100	25	25	150
805	Project	-	4	-	-	100	50	150
806	Industrial Practice*	-	-	-	-	-	50	50
TOTAL		20	12	-	400	200	200	800