



**VELALAR COLLEGE OF ENGINEERING AND TECHNOLOGY**  
**(An Autonomous Institution Affiliated to Anna University)**  
**OFFICE OF THE CONTROLLER OF EXAMINATIONS**  
**(REGULATIONS-2016)**

**Programme: B.E. Biomedical Engineering**

Semester	<b>B E (BIOMEDICAL ENGINEERING -BM)</b>						
	S. No.	Course Code	Course Title	Credits			
				L	T	P	C
1	1	16ENT11	Communicative English - I	3	0	0	3
	2	16MAT11	Mathematics - I	3	2	0	4
	3	16PHT11	Engineering Physics	3	0	0	3
	4	16CYT11	Applied Chemistry - I	3	0	0	3
	5	16EET11 / 16EET21	Basic Electrical and Electronics Engineering	3	0	0	3
	6	16MEC11	Engineering Graphics	2	0	4	4
	7	16PHL11	Physics and Chemistry Laboratory - I	0	0	3	1
	8	16MEL11	Engineering Practices Laboratory	0	0	3	2
	9	16VET11	Value Education for Youth Empowerment	0	2	1	1
2	1	16ENT21	Communicative English - II	3	0	0	3
	2	16MAT21	Mathematics - II	3	2	0	4
	3	16PHT21	Materials Science	3	0	0	3
	4	16CYT21	Applied Chemistry - II	3	0	0	3
	5	16CST21	Problem Solving and Programming	3	0	0	3
	6	16EET23	Electric Circuits and Machines	3	2	0	4
	7	16PHL21	Physics and Chemistry Laboratory - II	0	0	3	1
	8	16CSL21	Problem Solving and Programming Laboratory	0	0	3	1
	9	16ECL21	Electric Circuits and Electronic Devices Laboratory	0	0	3	1
3	1	16MAT31	Transforms and Partial Differential Equations	3	2	0	4
	2	16ECT34	Electronic Circuits	3	2	0	4
	3	16BMT31	Analog and Digital ICs	3	2	0	4
	4	16BMT32	Bio Chemistry	3	0	0	3
	5	16BMT33	Anatomy and Human Physiology	3	0	0	3
	6	16BMT34	Sensors and Measurements	3	0	0	3
	7	16ECL34	Electronic Circuits Laboratory	0	0	3	1
	8	16BML31	Analog and Digital ICs Laboratory	0	0	3	1
	9	16BML32	Bio Chemistry and Human Physiology Laboratory	0	0	3	1
	10	16ENL31	Professional Communication - I	0	0	2	1



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				L	T	P	C
4	1	16CYT31	Environmental Science and Engineering	3	0	0	3
	2	16MAT41	Random Variables and Random Process	3	2	0	4
	3	16ITT44	Object Oriented Programming and Data Structures	3	2	0	4
	4	16ECT33	Signals and Systems	3	2	0	4
	5	16ECT35	Analog and Digital Communication	3	0	0	3
	6	16BMT41	Pathology and Microbiology	3	0	0	3
	7	16ITL43	OOP and Data Structures Laboratory	0	0	3	1
	8	16BML41	Pathology and Microbiology Laboratory	0	0	3	1
	9	16ENL41	Professional Communication - II	0	0	2	1
5	1	16ECT44	Microprocessor and Microcontroller	3	0	0	3
	2	16BMT51	Medical Instrumentation - I	3	0	0	3
	3	16BMT52	Medical Physics	3	0	0	3
	4	16BMT53	Bio Control Systems	3	2	0	4
	5	16BMT54	Hospital Management	3	0	0	3
	6		Professional Elective - I	3	0	0	3
	7	16ECL43	Microprocessor and Microcontroller Laboratory	0	0	3	1
	8	16BML51	Medical Instrumentation - I Laboratory	0	0	3	1
	9	16ENL52	Communication Skills Laboratory	0	0	3	1
	10	16ENL51	Aptitude and Logical Reasoning - I	0	0	2	1



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	S. No.	Course Code	Course Title	Credits			
				L	T	P	C
6	1	16ECT52	Digital Signal Processing	3	2	0	4
	2	16BMT61	Medical Instrumentation - II	3	0	0	3
	3	16BMT62	Radiological Equipment	3	0	0	3
	4	16BMT63	Biomaterials and Artificial Organs	3	0	0	3
	5		Professional Elective - II	3	0	0	3
	6		Open Elective - I	3	0	0	3
	7	16ECL52	Digital Signal Processing Laboratory	0	0	3	1
	8	16BML61	Medical Instrumentation - II Laboratory	0	0	3	1
	9	16BML62	Mini Project	0	0	4	2
	10	16ENL61	Aptitude and Logical Reasoning - II	0	0	2	1
7	1	16MET72	Engineering Economics and Management	3	0	0	3
	2	16BMT71	Medical Optics	3	0	0	3
	3	16BMT72	Digital Image Processing	3	0	0	3
	4		Professional Elective - III	3	0	0	3
	5		Open Elective - II	3	0	0	3
	6		Open Elective - III	3	0	0	3
	7	16BML71	Hospital Training	0	0	4	2
	8	16BML72	Digital Image Processing Laboratory	0	0	4	2
8	1	16MET81	Professional Ethics for Engineers	3	0	0	3
	2		Professional Elective - IV	3	0	0	3
	3		Professional Elective - V	3	0	0	3
	4	16BML81	Project Work	0	0	16	8



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	S. No.	Course Code	Course Title	Credits			
				L	T	P	C
PEs	1	16BME01	Biometric Systems	3	0	0	3
	2	16BME02	Medical Informatics	3	0	0	3
	3	16BME03	BioSensors and Transducers	3	0	0	3
	4	16BME04	Biomedical Waste Management	3	0	0	3
	5	16BME05	Biomechanics	3	0	0	3
	6	16MET71	Total Quality Management	3	0	0	3
	7	16BME06	Physiological Modeling	3	0	0	3
	8	16BME07	Biofluids and Dynamics	3	0	0	3
	9	16ITT52	Computer Networks	3	0	0	3
	10	16BME08	BioSignal Processing	3	0	0	3
	11	16BME09	Speech Processing	3	0	0	3
	12	16BME10	Tissue Engineering	3	0	0	3
	13	16BME11	Rehabilitation Engineering	3	0	0	3
	14	16BME12	Pattern Recognition and Neural Networks	3	0	0	3
	15	16BME13	Wearable Systems	3	0	0	3
	16	16ECE12	Wireless Sensor Networks	3	0	0	3
	17	16BME14	Human Assist Devices	3	0	0	3
	18	16ECT62	VLSI Design	3	0	0	3
	19	16BME15	Analytical Instrumentation	3	0	0	3
	20	16BME16	BioMEMS	3	0	0	3
OEs	1	16BMO01	Biotelemetry	3	0	0	3
	2	16BMO02	Virtual Instrumentation	3	0	0	3

**PEs- Professional Electives**

**OEs- Open Electives**