



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

**Programme: B.E. Mechanical Engineering**

Semester	B E (MECHANICAL ENGINEERING -ME)						
	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	16CST11	Programming in C	3	0	0	3
	6	16MEC11	Engineering Graphics	2	0	4	4
	7	16PHL11	Physics and Chemistry Laboratory - I	0	0	3	1
	8	16CSL11	Computer Programming Laboratory	0	0	3	1
	9	16MEL11	Engineering Practices Laboratory	0	0	3	2
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	16EET11 / 16EET21	Basic Electrical and Electronics Engineering	3	0	0	3
	6	16MET21	Engineering Mechanics	3	2	0	4
	7	16PHL21	Physics and Chemistry Laboratory - II	0	0	3	1
	8	16MEL22	Computer Aided Drafting and Modeling Lab	0	0	3	1
	9	16VET21	Value Education for Youth Empowerment	0	0	2	1
3	1	16MAT31	Transforms and Partial Differential Equations	3	2	0	4
	2	16MET31	Strength of Materials	3	2	0	4
	3	16EEC32	Electrical Drives and Controls	3	0	2	4
	4	16MET32	Engineering Thermodynamics	3	2	0	4
	5	16MET33	Manufacturing Technology – I	3	0	0	3
	6	16MET34	Engineering Materials and Metallurgy	3	0	0	3
	7	16MEL31	Strength of Materials Laboratory	0	0	3	1
	8	16MEL32	Manufacturing Technology Laboratory– I	0	0	3	1
	9	16ENL31	Professional Communication-I	0	0	2	1



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				L	T	P	C
4	1	16MAT44	Statistics and Numerical Methods	3	2	0	4
	2	16CYT31	Environmental Science and Engineering	3	0	0	3
	3	16MET41	Fluid Mechanics and Machinery	3	0	0	3
	4	16MET42	Thermal Engineering	3	2	0	4
	5	16MET43	Kinematics of Machinery	3	2	0	4
	6	16MET44	Manufacturing Technology – II	3	0	0	3
	7	16MEL41	Fluid Mechanics and Machinery Laboratory	0	0	3	1
	8	16MEL42	Manufacturing Technology Laboratory – II	0	0	3	1
	9	16MEL43	Thermal Engineering Laboratory	0	0	3	1
	10	16ENL41	Professional Communication-II	0	0	2	1
5	1	16MET51	Design of Machine Elements	3	0	0	3
	2	16MET52	Dynamics of Machinery	3	2	0	4
	3	16MET53	Heat and Mass Transfer	3	2	0	4
	4	16MET54	Applied Hydraulics and Pneumatics	3	0	0	3
	5	16MET55	Metrology and Measurements	3	0	0	3
	6		Professional Elective - I	3	0	0	3
	7	16MEL51	CAD/CAM Laboratory	0	0	3	1
	8	16MEL52	Dynamics Laboratory	0	0	3	1
	9	16MEL53	Metrology and Measurements Laboratory	0	0	3	1
	10	16ENL51	Aptitude and Logical Reasoning - I	0	0	2	1
6	1	16MET61	Gas Dynamics and Jet Propulsion	3	2	0	4
	2	16MET62	Design of Transmission System	3	2	0	4
	3	16MET63	Finite Element Analysis	3	2	0	4
	4	16MET64	Automobile Engineering	3	0	0	3
	5		Professional Elective - II	3	0	0	3
	6		Open Elective - I	3	0	0	3
	7	16MEL61	Heat and Mass Transfer Laboratory	0	0	3	1
	8	16MEL62	Simulation and Analysis Laboratory	0	0	3	1
	9	16ENL52	Communication Skills Laboratory	0	0	3	1
	10	16ENL61	Aptitude and Logical Reasoning - II	0	0	2	1



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	S. No.	Course Code	Course Title	Credits			
				L	T	P	C
7	1	16MET71	Total Quality Management	3	0	0	3
	2	16MET72	Engineering Economics and Management	3	0	0	3
	3	16MET73	Mechatronics	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	16MEL71	Mechatronics Laboratory	0	0	3	1
	8	16MEL72	Design and Fabrication Project	0	0	4	2
	9	16MEL73	Comprehension	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	16MEL81	Project Work	0	0	16	8



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PEs	1	16MEE01	CAD / CAM	3	0	0	3
	2	16MEE02	Design of Jigs, Fixtures and Press Tools	3	0	0	3
	3	16MEE03	Composite Materials	3	0	0	3
	4	16MEE04	Machine Drawing	2	0	2	3
	5	16MEE05	Non Destructive Testing	3	0	0	3
	6	16MEE06	Mechanical Vibrations	3	0	0	3
	7	16MEE07	Robotics	3	0	0	3
	8	16MEE08	Refrigeration and Air Conditioning	3	0	0	3
	9	16MEE09	Lean Manufacturing and Six Sigma	3	0	0	3
	10	16MEE10	Computational Fluid Dynamics	3	0	0	3
	11	16MEE11	Power Plant Engineering	3	0	0	3
	12	16MEE12	Industrial Instrumentation	3	0	0	3
	13	16MEE13	Advanced IC Engines	3	0	0	3
	14	16MEE14	Unconventional Machining Processes	3	0	0	3
	15	16MEE15	Operations Research	3	0	0	3
	16	16MEE16	Industrial Tribology	3	0	0	3
	17	16MEE17	Design for Manufacture and Assembly	3	0	0	3
	18	16MEE18	Principles of Management	3	0	0	3
	19	16MEE19	Maintenance Engineering	3	0	0	3
	20	16MEE20	Plant layout and Material Handling Systems	3	0	0	3
	21	16MEE21	Cryogenic Engineering	3	0	0	3
OEs	1	16MEO01	Industrial Automation	3	0	0	3
	2	16MEO02	Entrepreneurship Development	3	0	0	3
	3	16MEO03	Industrial Safety Engineering	3	0	0	3
	4	16MEO04	Technology Management	3	0	0	3

PEs- Professional Electives

OEs- Open Electives