

**THIAGARAJAR COLLEGE OF ENGINEERING
DEPARTMENT OF MECHANICAL ENGINEERING
PERCENTAGE OF REVISION OF B.E. MECHANICAL ENGINEERING CURRICULUM 2014-2015**

	Curriculum 2013 -14					Curriculum 2014 -15	
Sl. No.	Course Code	Course Name	Change Details	% of Change	weightage	Course Code	Course Name
1	H11	Engineering Mathematics – I	Modified	10	0.1	14MA110	Engineering Mathematics I
2	H12	Physics	Modified	10	0.1	14PH120	Physics
3	H13	Chemistry	Modified	10	0.1	14CH130	Chemistry
4	H14	English	Modified	10	0.1	14EG141	English
5	H15	Basics of Civil and Mechanical Engineering	Modified	10	0.1	14ES150	Basics of Civil and Mechanical Engineering
6	H16	Basics of EE and ECE	Modified	10	0.1	14ES160	Basics of Electrical and Electronics Engineering
7	H17	Physics Lab	Modified	10	0.1	14PH180	Physics Laboratory
8	H18	Chemistry Lab	Modified	10	0.1	14CH190	Chemistry Laboratory
9	H19	Engineering Graphics	Modified	10	0.1	14ME170	Engineering Graphics
10	G 21	Engineering Mathematics - II	Modified	20	0.2	14ME210	Engineering Calculus
11	G22	Free Body Mechanics	Modified	10	0.1	14ME220	Free Body Mechanics
12	G35	Metal Casting & Plastic Forming processes	Modified	20	0.2	14ME230	Metal Casting and Forming Processes

13	G 24	Thermodynamics	Modified	10	0.1	14ME240	Engineering Thermodynamics
14	G 25	Environment and Ecology	Modified	10	0.1	14ME250	Environmental Science and Engineering
15	G 23	Material Science	Modified	10	0.1	14ME260	Materials Science
16	G27	Strength of Materials and Composite Materials Lab.	Modified	10	0.1	14ME280	Strength of Materials and Materials Science Lab
17	G29	Workshop	Modified	10	0.1	14ME290	Workshop
18	G51	Applied statistical Techniques	Modified	10	0.1	14ME310	Statistical Techniques
19	G31	Engineering Mathematics III	Dropped				
20	G32	Mechanics of Materials	Modified	10	0.1	14ME320	Mechanics of Materials
21	G36	Metal Forming & Joining Processes	Modified	20	0.2	*14ME330	Metal Joining Processes and Manufacturing Practices
22	G34	Fluid mechanics	Modified	10	0.1	14ME340	Fluid Mechanics
23	G33	Applied Materials and Metallurgy	Modified	20	0.2	14ME350	Applied Materials and Metallurgy
24	G 43	Geometric Modeling		10	0.1	14ME360	Geometric Modeling
25	G 26	Computers and Programming and LAB	Modified	40	0.4	*14ME370	Problem solving using Computer
26	G28	Computers and Programming and	Modified	40	0.4	*14ME370	Problem solving using Computer

		LAB					
27	G37	Manufacturing Processes Lab	Dropped				
28	G38	Fluid Mechanics and CFD lab		10	0.1	14ME380	Fluid Mechanics and CFD Lab
29	G 41	Numerical Methods	Modified	20	0.2	14ME410	Numerical Methods
30	G 45	Machining Processes		10	0.1	14ME430	Machining Processes
31	G46	Control Systems	Drooped				
32	G 44	Thermal Engineering	Modified	10	0.1	14ME440	Thermal Engineering
33	G39	Machine Drawing/ Production Drawing	Modified	20	0.2	*14ME450	Production Drawing
34	G69	Production Drawing	Modified	20	0.2	*14ME450	Production Drawing
35	G49	Professional Communications	Modified	50	0.5	*14ME470	Professional Communication
36	G47	Machining Practice Lab.	Modified	10	0.1	14ME480	Machining Practices Lab
37	G48	Thermal Engineering Lab.	Modified	20	0.2	14ME490	Thermal Engineering Lab
38	G61	Accounting and finance	Modified	10	0.1	14ME510	Accounting and Finance
39	G42	Design of Machine Elements	Modified	10	0.1	14ME520	Design of Machine Elements
40	G55	Manufacturing Processes and Automation	Modified	50	0.5	14ME530	Manufacturing Systems and Automation
41	G54	Heat and Mass Transfer	Modified	10	0.1	14ME540	Heat and Mass Transfer

42	G53	Metrology and Mechanical Measurements	Modified	10	0.1	14ME550	Mechanical Measurements and Metrology
43	G64	Mechatronics	Modified	50	0.5	14ME560	Drives and Control
44	G57	CAD/CAM Lab.	Modified	30	0.3	14ME580	Computer Aided Modeling Lab
45	G58	Heat Transfer Lab.	Modified	10	0.1	14ME590	Heat Transfer Lab
46	G72	Operations Research	Modified	20	0.2	14ME610	Operations Research
47	G52	Kinematics & Dynamics of Machinery	Modified	10	0.1	14ME620	Kinematics and Dynamics of Machinery
48	G63	Quality and Reliability Engineering	Modified	30	0.3	14ME630	Quality Engineering
49	G62	Design of transmission Systems	Modified	10	0.1	14ME640	Design of Transmission Systems
50	G57	CAD/CAM Lab.	Modified	30	0.3	14ME680	Computer Aided Manufacturing Lab
51	G67	Computer Aided Engineering Lab	Dropped				
52	G68	Mechatronics Lab	Dropped				
53	G59	Mechanical Measurements and Metrology Lab.	Modified	15	0.15	14ME690	Mechanical Measurements and Metrology Lab
54	G56	Industrial Engineering	Modified	20	0.2	14ME720	Industrial Engineering
55	GCM	Finite Element Analysis	Modified	20	0.2	*14ME770	Finite Element Analysis

56	G71	Managment Theory and Practice	Dropped				
57	GCR	Product Design and Development		10	0.1	14MEPA0	Product Design and Development
58	G CA	Energy Conversion Systems		10	0.1	14MEPB0	Energy Conversion Systems
59	GCK	Refrigeration and Air Conditioning		10	0.1	14MEPC0	Refrigeration and Air Conditioning
60	GCH	Marketing Management		10	0.1	14MEPG0	Marketing Management
61	GCS	Automotive Engineering		10	0.1	14MEPH0	Automotive Engineering
62	GCF	Theory of Metal Cutting		10	0.1	14MEPS0	Metal Cutting Engineering
63	GCC	Automotive Engine Systems		10	0.1	14MEPT0	Internal Combustion Engines
64	GC3	Spark Ignition Engines -Design & Engineering		10	0.1	14MEPU0	Spark Ignition Engines - Design
65	GC5	Vehicle Design Engineering-Dynamics		10	0.1	14MEPV0	Vehicle Dynamics
66	GCW	Vehicle Design Engineering		10	0.1	14MEPW0	Motor Cycle Dynamics
67	GCL	Computational Fluid Dynamics		10	0.1	14MEPY0	Computational Fluid Dynamics
68	GCY	Turbo Machines		10	0.1	14MEPZ0	Turbo Machines
69	GCZ	Mechanical Vibration		10	0.1	14MERA0	Mechanical Vibrations

70	GC1	Integrated Product Development		10	0.1	14MERB0	Integrated Product Development
71	GCE	Material Handling Systems and Engineering		10	0.1	14MEPJ0	Material Handling Systems Engineering
72	GCG	Manufacturing System Engineering		10	0.1	14MEPL0	Manufacturing System Engineering
73	GC6	Assembly Engineering		10	0.1	14MEPR0	Assembly Engineering
74	GC7	Metal Cutting Processes Engineering		10	0.1	14MEPS0	Metal Cutting Engineering
75	GC8	Design For Welding		10	0.1	14MEPP0	Design For Welding
76	GC9	Sheet metal drawing and Bending		10	0.1	14MEPQ0	Design For Sheet Metal Manufacturing
77	GCQ	Machine Vision	Dropped				
78	GCV	Production and operations management	Dropped				
79	GCT	Welding Technology	Dropped				
80	GCN	Design of Jigs,Fixtures and press Tools	Dropped				
81	GCP	Metal Forming Technology	Dropped				
82	GC4	Vehicle Design Engineering - Statics	Dropped				
83	GC2	Spark Ignition Engines	Dropped				

84			Modified	50	0.5	14MERC0	Reliability Engineering
85			New	100	1	14MERD0	Organization Behavior
86			New	100	1	14MERE0	Gas turbine and Propulsion systems
87			New	100	1	14MERF0	Hydraulics and Pneumatics
88			New	100	1	14MEGC0	Industrial robotics
89			New	100	1	14MEGD0	Composite Materials
90			New	100	1	14MEPD0	Additive Manufacturing
91			New	100	1	14MEPE0	Robotics
92			New	100	1	14MEPF0	Total Quality Management
93			New	100	1	14MAFA0	Graph Theory
94			New	100	1	14MAFB0	Fuzzy Sets and Clustering
95			New	100	1	14MAFC0	Number Theory
96			New	100	1	14PHFA0	Smart Materials for Engineers
97			New	100	1	14PHFB0	Thin Flim Technology
99			New	100	1	14CHFA0	Biology for Engineers
100			New	100	1	14CHFB0	Chemistry of Engineering Materials
101			New	100	1	14CHFC0	Battery

							Technologies
102			New	100	1	14PHFC0	Nanotechnology
103			New	100	1	14ME1G0	3D Printing
104			New	100	1	14ME1H0	Finite Element Method for Product Development
105			New	100	1	14ME1K0	Non Destructive Testing
106			New	100	1	14ME1L0	Gas Turbine Engines
107			New	100	1	14ME1M0	Value Engineering
109			New	100	1	14ME1P0	Marine Systems and Maintenance
110			New	100	1	14ME1Q0	Vision Based Dimensional Measurement
111			New	100	1	14ME420	Engineering Design
112			New	100	1	14ME4C0	Capstone Course-I
			New	100	1	14ME710	Project Management
			New	100	1	14ME7C0	Capstone -II
113			New	100	1	14ME2A0	Digital Twin Technology
			New	100	1	14ME1R0	Aerospace materials and manufacturing processes
			New	100	1	14MAFD0	Mathematical Aptitude Methods
			New	100	1	14PHFD0	Quantum Computing

			New	100	1	14CHFD0	Corrosion Science and Engineering
			Total Weightage		44.05		
			Total No of courses		83		
			Total Change in %		53.072289		