

**Department of Mechanical Engineering**  
**Subjectwise Comparision from R13 to R16**

**1-1 SEMESTER**

<b>Programme Name</b>	<b>Course Name</b>	<b>R16</b>	<b>R13</b>
BTECH/MEC	English – I	✓	✓
BTECH/MEC	Mathematics - I	✓	✓
BTECH/MEC	Engineering Chemistry	✓	✓
BTECH/MEC	Engineering Mechanics	✓	✓
BTECH/MEC	Computer Programming	✓	✓
BTECH/MEC	Environmental Studies	✓	✓
BTECH/MEC	Engineering/Applied Chemistry Laboratory	✓	✓
BTECH/MEC	English - Communication Skills Lab - I	✓	✓
BTECH/MEC	Computer Programming Lab	✓	✓

**1-2 SEMESTER**

<b>Programme Name</b>	<b>Course Name</b>	<b>R16</b>	<b>R13</b>
BTECH/MEC	English – II	✓	✓
BTECH/MEC	Mathematics – II (Mathematical Methods)	✓	✓
BTECH/MEC	Mathematics – III	✓	✓
BTECH/MEC	Engineering Physics	✓	✓
BTECH/MEC	Basic Electrical and Electronics Engineering	✓	X
BTECH/MEC	Engineering Drawing	✓	✓
BTECH/MEC	English - Communication Skills Lab - II	✓	✓
BTECH/MEC	Engineering /Applied Physics Lab	✓	✓
BTECH/MEC	Engineering /Applied Physics – Virtual Labs - Assignments	✓	✓
BTECH/MEC	Engg.Workshop & IT Workshop	✓	✓
BTECH/MEC	Professional Ethics and Human Values	X	✓

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**2-1 SEMESTER**

<b>Programme Name</b>	<b>Course Name</b>	<b>R16</b>	<b>R13</b>
BTECH/MEC	Metallurgy & Materials Science	✓	✓
BTECH/MEC	Mechanics of Solids	✓	✓
BTECH/MEC	Thermodynamics	✓	✓
BTECH/MEC	Managerial Economics & Financial Analysis	✓	✓
BTECH/MEC	Fluid Mechanics & Hydraulic Machines	✓	X
BTECH/MEC	Computer Aided Engineering Drawing Practice	✓	✓
BTECH/MEC	Electrical & Electronics Engg. Lab	✓	✓
BTECH/MEC	Mechanics of Solids & Metallurgy Lab	✓	✓
BTECH/MEC	Electrical & Electronics Engineering	X	✓

**2-2 SEMESTER**

<b>Programme Name</b>	<b>Course Name</b>	<b>R16</b>	<b>R13</b>
BTECH/MEC	Kinematics of Machinery	✓	✓
BTECH/MEC	Thermal Engineering -I	✓	✓
BTECH/MEC	Production Technology	✓	✓
BTECH/MEC	Design of Machine Members -I	✓	X
BTECH/MEC	Machine Drawing	✓	✓
BTECH/MEC	Industrial Engineering and Management	✓	✓
BTECH/MEC	Fluid Mechanics & Hydraulic Machines Lab	✓	✓
BTECH/MEC	Production Technology Lab	✓	✓
BTECH/MEC	Fluid Mechanics & Hydraulic Machines	X	✓

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**3-1 SEMESTER**

<b>Programme Name</b>	<b>Course Name</b>	<b>R16</b>	<b>R13</b>
BTECH/MEC	Dynamics of Machinery	✓	✓
BTECH/MEC	Metal Cutting & Machine Tools	✓	✓
BTECH/MEC	Design of Machine Members–II	✓	X
BTECH/MEC	Operations Research	✓	X
BTECH/MEC	Thermal Engineering -II	✓	✓
BTECH/MEC	Theory of Machines Lab	✓	X
BTECH/MEC	Machine Tools Lab	✓	✓
BTECH/MEC	Thermal Engineering Lab	✓	X
BTECH/MEC	IPR & Patents	✓	✓
BTECH/MEC	Design of Machine Members–I	X	✓
BTECH/MEC	Instrumentation & Control Systems	X	✓
BTECH/MEC	Metrology	X	✓
BTECH/MEC	Metrology & Instrumentation Lab	X	✓

**3-2 SEMESTER**

<b>Programme Name</b>	<b>Course Name</b>	<b>R16</b>	<b>R13</b>
BTECH/MEC	Metrology	✓	X
BTECH/MEC	Instrumentation & Control Systems	✓	X
BTECH/MEC	Refrigeration & Air-conditioning	✓	✓
BTECH/MEC	Heat Transfer	✓	✓
BTECH/MEC	Entrepreneurship	✓	X
BTECH/MEC	Data Base Management System	✓	X
BTECH/MEC	Waste Water Management	✓	X
BTECH/MEC	Computer Graphics	✓	X
BTECH/MEC	Industrial Robotics	✓	✓
BTECH/MEC	Green Engineering Systems	✓	X
BTECH/MEC	Heat Transfer Lab	✓	✓
BTECH/MEC	Metrology & Instrumentation Lab	✓	X
BTECH/MEC	Computational Fluid Dynamics Lab	✓	X
BTECH/MEC	Professional Ethics & Human Values	✓	X
BTECH/MEC	Operations Research	X	✓
BTECH/MEC	Interactive Computer Graphics	X	✓
BTECH/MEC	Design of Machine Members– II	X	✓
BTECH/MEC	Computational Fluid Dynamics	X	✓
BTECH/MEC	Condition Monitoring	X	✓
BTECH/MEC	Rapid Prototyping	X	✓

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**4-1 SEMESTER**

<b>Programme Name</b>	<b>Course Name</b>	<b>R16</b>	<b>R13</b>
BTECH/MEC	Mechatronics	✓	X
BTECH/MEC	CAD/CAM	✓	✓
BTECH/MEC	Finite Element Methods	✓	✓
BTECH/MEC	Power Plant Engineering	✓	X
BTECH/MEC	Computational Fluid Dynamics	✓	X
BTECH/MEC	Condition Monitoring	✓	X
BTECH/MEC	Additive Manufacturing	✓	X
BTECH/MEC	Advanced Materials	✓	X
BTECH/MEC	Design for Manufacture	✓	X
BTECH/MEC	Gas Dynamics & Jet Propulsion	✓	X
BTECH/MEC	CAD/CAM Lab	✓	X
BTECH/MEC	Mechatronics Lab	✓	X
BTECH/MEC	Automobile Engineering	X	✓
BTECH/MEC	Unconventional Machining Processes	X	✓
BTECH/MEC	MEMS	X	✓
BTECH/MEC	Nanotechnology	X	✓
BTECH/MEC	Material Characterization Techniques	X	✓
BTECH/MEC	Design for Manufacture	X	✓
BTECH/MEC	Automation in Manufacturing	X	✓
BTECH/MEC	Industrial Hydraulics & Pneumatics	X	✓
BTECH/MEC	Simulation Lab	X	✓
BTECH/MEC	Design/Fabrication Project	X	✓

**4-2 SEMESTER**

<b>Programme Name</b>	<b>Course Name</b>	<b>R16</b>	<b>R13</b>
BTECH/MEC	Production Planning and Control	✓	✓
BTECH/MEC	Unconventional Machining Processes	✓	X
BTECH/MEC	Automobile Engineering	✓	X
BTECH/MEC	Thermal Equipment Design	✓	X
BTECH/MEC	Non Destructive Evaluation	✓	✓
BTECH/MEC	Quality and Reliability Engineering	✓	✓
BTECH/MEC	Seminar	✓	X
BTECH/MEC	Project	✓	✓
BTECH/MEC	Production Planning and Control	X	✓
BTECH/MEC	Green Engineering Systems	X	✓
BTECH/MEC	Experimental Stress Analysis	X	✓
BTECH/MEC	Mechatronics	X	✓
BTECH/MEC	Advanced Materials	X	✓
BTECH/MEC	Power Plant Engineering	X	✓
BTECH/MEC	Advanced Optimization Techniques	X	✓
BTECH/MEC	Gas Dynamics & Jet Propulsion	X	✓