

**RTM Nagpur University**  
**Absorption Scheme**  
**Mechanical Engineering**  
**CBS To CBCS**  
**3<sup>rd</sup> Sem – B.TECH MECHANICAL**

As per Credit Base Scheme			As per CBCS		
Subject Code	Subject	Theory / Practical	Subject Code	Subject	Theory / Practical
BEME 301 T	Applied Mathematics - III	Theory	BEME 301 T	Applied Mathematics -III	-----
BEME 302 T	Kinematics of Machine	Theory	BEME 304 T	Kinematics of Machines	Theory
BEME 303 T	Fluid Mechanics	Theory	BEME 402 T	Fluid Mechanics & Hydraulic Machines	Theory
BEME 304 T	Manufacturing Processes	Theory	BEME 302 T	Manufacturing Processes	Theory
BEME 304 P	Manufacturing Processes	Practical	BEME 302 P	Manufacturing Processes Lab	Practical
BEME 305 T	Engineering Metallurgy	Theory	BEME 403 T	Material Science & Engineering	Theory
BEME 305 P	Engineering Metallurgy	Practical	BEME 404 P	Material Testing Lab	Practical
BEME 306 P	Machine Drawing	Practical	BEME 305 P	Machine Drawing & Solid Modelling	Practical

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**4<sup>th</sup> Sem – B.TECH MECHANICAL**

As per Credit Base Scheme			As per CBCS		
Subject Code	Subject	Theory / Practical	Subject Code	Subject	Theory / Practical
BEME 401 T	Applied Mathematics - IV	Theory	-----	-----	-----
BEME 402 T	Engineering Thermodynamics	Theory	BEME 303 T	Engineering Thermodynamics	Theory
BEME 403 T	Hydraulic Machines	Theory	BEME 402 T	Fluid Mechanics & Hydraulic Machines	Theory
BEME 403 P	Hydraulic Machines	Practical	BEME 402 P	Fluid Mechanics & Hydraulic Machines	Practical
BEME 404 T	Machining Processes	Theory	BEME 302 T	Manufacturing Processes	Theory
BEME 404P	Machining Processes	Practical	BEME 302 P	Manufacturing Processes Lab	Practical
BEME 405 T	Mechanics of Materials	Theory	BEME 404 T	Mechanics of Materials	Theory
BEME 405P	Mechanics of Materials	Practical	BEME 404 P	Materials Testing Lab	Practical
BEME 405 T	Environmental studies	Theory	BEME 608 P	Environment Science	Practical

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**5<sup>th</sup> Sem – B.TECH MECHANICAL**

As per Credit Base Scheme			As per CBCS		
Subject Code	Subject	Theory / Practical	Subject Code	Subject	Theory / Practical
BEME 501 T	Industrial Economics & Entrepreneurship Development	Theory	BEME 504 T	Industrial Economics & Management	-----
BEME 502 T	Design of Machine Elements	Theory	BEME 503 T	Design of Machine Elements	Theory
BEME 503 T	Advanced Production Processes	Theory	BEME 605 T	Elective –II Advanced Manufacturing Techniques	Theory
BEME 504 T	Heat Transfer	Theory	BEME 501 T	Heat Transfer	Theory
BEME 504 P	Heat Transfer lab	Practical	BEME 501 P	Heat Transfer Lab	Practical
BEME 505 T	Mechanical Measurement & Metrology	Theory	BEME 702 T Elective IV	Mechanical Measurement & Metrology	
BEME 505 P	Mechanical Measurement & Metrology lab	Practical	BEME 702 P Elective IV	Mechanical Measurement & Metrology lab	Practical
BEME 506 P	Computer Applications-I	Practical	BEME 306 P	Computer Programing	Practical

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As per Credit Base Scheme			As per CBCS		
Subject Code	Subject	Theory / Practical	Subject Code	Subject	Theory / Practical
BEME 601 T	Energy Conversion-I	Theory	502 T	Energy Conversion-I	Theory
BEME 602 T	Control Systems Engineering	Theory	----	----	----
BEME 603 T	Operations Research	Theory	BEME 604 T Elective -I	Operations Research	Theory
BEME 604 T	Mechatronics	Practical	BEME 702 T Elective -IV	Mechatronics	Theory
BEME 604 P	Mechatronics	Theory	BEME 702 P Elective -IV	Mechatronics Lab	Practical
BEME 605T	Dynamics of Machines	Practical	BEME 603 T	Dynamics of Machines	Theory
BEME 605P	Dynamics of Machines	Theory	BEME 603 P	Dynamics of Machines lab	Practical
BEME 606T	Functional English	Practical	BEME 404 P	-----	----