

***B.TECH Mechanical Engineering***  
***(Regulations 2008 Semester Pattern)***

Semester – I

<b>Subject Code</b>	<b>Subject Title</b>
BEME 101	English I
BEME 102	Mathematics – I
BEME 103	Engineering Graphics
BEME 104	Basic Electrical and Electronics Engineering
BEME 105	Computer Fundamentals & Programming
BEME 106	Basic Mechanical and Civil
BEME 107 P	Workshop
BEME 108 P	Language lab

Semester - II

<b>Subject Code</b>	<b>Subject Title</b>
BEME 201	English II
BEME 202	Maths II
BEME 203	Electron Devices
BEME 204	Basic C programming
BEME 205	Entrepreneurship training
BEME 206	<b>Engineering Mechanics</b>
BEME 207 P	<b>C Programming Lab</b>
BEME 208 P	<b>Applied Electronics/ Mechanical/Computer Lab</b>

### Semester – III

<b>Subject Code</b>	<b>Subject Name</b>
BEME 301	Engineering Mathematics-III
BEME 302	Engineering Thermodynamics
BEME 303	Fluid Mechanics and Machinery
BEME 304	Foundry And Welding Technology
BEME 305	Strength of Materials
BEME 306	Electrical Drives and Controls
BEME 307 P	Electrical Machines Lab
BEME 308 P	Fluid Mechanics Lab & Strength of Materials Lab

### Semester – IV

<b>Subject Code</b>	<b>Subject Name</b>
BEME 401	Probability and Statistics
BEME 402	Thermal Engineering
BEME 403	Machine Tool Technology
BEME 404	Kinematics of Machinery
BEME 405	Engineering Materials and Metallurgy
BEME 406	Electronics and Microprocessors
BEME 407 P	Manufacturing Technology lab
BEME 408 P	Thermal Engineering Lab – I

**Semester – V**

<b>Subject Code</b>	<b>Subject Name</b>
BEME 501	Environmental Science and Engineering
BEME 502	Dynamics of Machinery
BEME 503	Design of Machine Elements
BEME 504	Gas Dynamics and Jet Propulsion
BEME 505	Engineering Metrology and Measurements
BEME 506	Applied Hydraulics and Pneumatics
BEME 507 P	Metrology and Measurements Lab & Dynamics Lab
BEME 508 P	Computer Aided Machine Drawing Practice

**Semester –VI**

<b>Subject Code</b>	<b>Subject Name</b>
BEME 601	Principles of Management
BEME 602	Heat and Mass Transfer
BEME 603	Design of Transmission Systems
BEME 604	Automobile Engineering
BEME 605	Power Plant Engineering
BEME 606 E0	Elective – I
BEME 607 P	Thermal Engineering Lab – II
BEME 608 P	CAD / CAM Lab

### Semester – VII

<b>Subject Code</b>	<b>Subject Name</b>
BEME 701	Total Quality Management
BEME 702	Finite Element Analysis
BEME 703	Mechatronics
BEME 704	Computer Integrated Manufacturing
BEME 705 E0	Elective – II
BEME 706 E0	Elective – III
BEME 707 P	Computer Aided Simulation and Analysis Lab
BEME 708 P	Mechatronics Lab

### Semester –VIII

<b>Subject Code</b>	<b>Subject Name</b>
BEME 801	Project

## List of electives

### Semester – VI

<b>Subject Code</b>	<b>Subject Name</b>
BEME 606 E01	Unconventional Machining Processes
BEME 606 E02	Marketing Management
BEME 606 E03	Refrigeration and Air-conditioning
BEME 606 E04	Vibration and Noise Control
BEME 606 E05	Renewable Sources of Energy
BEME 606 E06	Numerical Methods
BEME 606 E07	Quality Control and Reliability Engineering

**Semester – VII**

<b>Subject Code</b>	<b>Subject Name</b>
BEME 705 E01	Process Planning and Cost Estimation
BEME 705 E02	Robotics
BEME 705 E03	Design of Jigs, Fixtures and Press Tools
BEME 705 E04	Nuclear Engineering
BEME 706 E01	Computational Fluid Dynamics
BEME 706 E02	Modern concepts of Engineering Design
BEME 706 E03	Thermal Turbo Machines
BEME 706 E04	Composite Materials