

B.Tech. Mechanical Engineering Batch – 2026

Semester I		
S No	Course Code	Course Title
1	26BTAL11C01	Applied Physics
2	26BTAL11C02	Applied Physics Lab
3	26BTAL11C03	Programming Concepts
4	26BTAL11C04	Programming Concepts Lab
5	26BTAL11C05	Engineering Mathematics-I
6	26BTAL11C06	Workshop Practices
7	26DOAS0VAC1	Environmental Studies
8	26ENGL0AEC1	Communicative English- I
9	26ETPM0VAC1	Entrepreneurship Mindset-I*
10	26BTCN11E01	Open Source Technology
11	26BTCN11E02	Open Source Technology Lab

*Entrepreneurship Mindset-I shall be delivered through blended and self-paced learning approaches, supported by experiential learning, mentoring, startup-oriented activities, and innovation practices.

Semester II		
S No	Course Code	Course Title
1	26BTAL12C01	Applied Chemistry
2	26BTAL12C02	Applied Chemistry Lab
3	26BTAL12C03	Basics of Electrical and Electronics Engineering
4	26BTAL12C04	Basics of Electrical and Electronics Engineering Lab
5	26BTAL12C05	Engineering Mathematics- II
6	26BTAL12C06	Engineering Drawing
7	26UHVU0VAC1	Universal Human Value
8	26ENGL0AEC02	Communicative English II
9	26ETPM0VAC2	Entrepreneurship Mindset-II *
10	26BTCN12E01	Python Programming
11	26BTCN12E02	Python Programming Lab

*Entrepreneurship Mindset-II shall be delivered through blended and self-paced learning approaches, supported by experiential learning, mentoring, startup-oriented activities, and innovation practices.

Semester III		
S No	Course Code	Course Title
1	26SOL0MDC03	Intellectual Property Rights
2	26ASUG0AEC3	Analytical Skills - I
3	26ETPM0VAC3	Entrepreneurship Mindset – III
4	26BTME23C01	Machine Drawing
5	26BTME23C02	Kinematics of Machines
6	26BTME23C03	Kinematics of Machines Lab
7	26BTME23C04	Elements of Thermodynamics
8	26BTME23C05	Strength of Materials-I
9	26BTME23C06	Strength of Material-I Lab
10	26BTME23C07	Engineering Materials
11	26BTME23C08	Engineering Materials Lab

- Entrepreneurship Mindset-III shall be delivered through blended and self-paced learning approaches, supported by experiential learning, mentoring, startup-oriented activities, and innovation practices.
- MOOCs courses from recognized platforms such as NPTEL/SWAYAM may be mapped or included after registration opens; total credits and contact hours may increase accordingly.

Semester IV		
S No	Course Code	Course Title
1	26ETPM0VAC4	Entrepreneurship Mindset – IV*
2	26SMEW0AEC1	Stress Management and Emotional Wellness
3	26ASUG0AEC4	Analytical Skills - II
4	26PSUG0SEC1	Professional Skills
5	26BTAL24C01	Engineering Mathematics- III
6	26BTME24C01	Dynamics of Machines
7	26BTME24C02	Applied Thermodynamics
8	26BTME24C03	Applied Thermodynamics Lab
9	26BTME24C04	Strength of Materials-II
10	26BTME24C05	Manufacturing Technology
11	26BTME24C06	Manufacturing Technology Lab
Optional to choose (Open Elective Basket)*		
12		Learn One More-Bharatiya Bhasha* Or Foreign Languages*

- Learn One More Bharatiya Bhasha / Foreign Languages courses are optional. Students opting for these courses will earn 1 additional credit
- MOOCs courses from recognized platforms such as NPTEL/SWAYAM may be mapped or included after registration opens; total credits and contact hours may increase accordingly.
- Students will undergo industrial training of 4 weeks after 4th semester whose evaluation will be done in 5th Semester
- Entrepreneurship Mindset-IV shall be delivered through blended and self-paced learning approaches, supported by experiential learning, mentoring, startup-oriented activities, and innovation practices.

Open Elective Basket			
S. no	Course Code	Course Title	Type
1	26BFRN0AEC	Basic French	Modern Indian Languages
2	26BKOR0AEC1	Basic Korean	
3	26BSPA0AEC1	Basic Spanish	
4	26BHIN0AEC1	Basic Hindi	Learn-One-More-Bharatiya-Bhasha
5	26BPUN0AEC1	Basic Punjabi	
6	26BURD0AEC1	Basic Urdu	

Semester V		
S No	Course Code	Course Title
1	26ETPM0VAC5	Entrepreneurship Mindset- V
2	26SOMS0MDC2	Principles of Management
3	26BTME35C01	Industrial Training-I Evaluation
4	26BTME35C02	Fluid Mechanics and Machinery
5	26BTME35C03	Fluid Mechanics and Machinery Lab
6	26BTME35C04	Heat Transfer
7	26BTME35C05	Heat Transfer Lab
8	26BTME35C06	Metrology and Instrumentation
9	26BTME35C07	Metrology and Instrumentation Lab
10	26BTME35C08	Operation Research
11		Departmental Elective-I
12		Departmental Elective-II
Optional to choose		
13	26DRRM0SEC1	Disaster Risk Reduction and Management [#]

- Disaster Risk Reduction and Management is an optional course. Students who opt for this course will earn 2 additional credits.
- Entrepreneurship Mindset-V shall be delivered through blended and self-paced learning approaches, supported by experiential learning, mentoring, startup-oriented activities, and innovation practices.
- MOOCs courses from recognized platforms such as NPTEL/SWAYAM may be mapped or included after registration opens; total credits and contact hours may increase accordingly.

Basket – I Departmental / Discipline Elective		
S. no	Course Code	Course Title
1	26BTME35E01	Non-Traditional Machining
2	26BTME35E02	Automotive Electrical System
3	26BTME35E03	Sensors and Instrumentation
4	26BTME35E04	Fundamentals of Electric Vehicle

Basket – II		
Departmental / Discipline Elective		
S. no	Course Code	Course Title
1	26BTME35E05	Industrial Engineering
2	26BTME35E06	Automotive Engine Systems
3	26BTME35E07	Microcontrollers and Plc

Semester VI		
S No	Course Code	Course Title
1	26SSLA0MDC1	Technical Writing
2	26BTME36C01	Refrigeration and Air Conditioning
3	26BTME36C02	Refrigeration and Air Conditioning Lab
4	26BTME36C03	Design of Machine Elements
5	26BTME36C04	Research Methodology
6		Departmental Elective- III
7		Departmental Elective- III Lab
8		Departmental Elective- IV
9		Departmental Elective- IV Lab
Optional to choose (Non-Credit Course)		
10	26PRDV0AEC1	Professional Development –I*

- Professional Development–II is an optional, non-credit course. Evaluation shall be on a Satisfactory/Unsatisfactory basis.
- MOOCs courses from recognized platforms such as NPTEL/SWAYAM may be mapped or included after registration opens; total credits and contact hours may increase accordingly.

Basket – III		
Departmental / Discipline Elective		
S. no	Course Code	Course Title
1	26BTME36E01	Automobile Engineering
2	26BTME36E02	Automobile Engineering Lab
3	26BTME36E03	Automotive Heating, Ventilation and Air Conditioning
4	26BTME36E04	Automotive Heating, Ventilation and Air Conditioning Lab
5	26BTME36E05	Principles of Robotics
6	26BTME36E06	Principles of Robotics Lab
7	26BTME36E07	Electric Drives and Control
8	26BTME36E08	Electric Drives and Control Lab

Basket – IV		
Departmental / Discipline Elective		
S. no	Course Code	Course Title
1	26BTME36E09	Robotics and Automation
2	26BTME36E10	Robotics and Automation Lab
3	26BTME36E11	Automotive Transmission
4	26BTME36E12	Automotive Transmission Lab
5	26BTME36E13	Automation System Design
6	26BTME36E14	Automation System Design Lab
7	26BTME36E15	Energy Storage and Battery Management System
8	26BTME36E16	Energy Storage and Battery Management System Lab

Semester VII		
S No	Course Code	Course Title
1	26BTME47C01	Mechanical Vibrations
2	26BTME47C02	Mechanical Vibrations Lab
3	26BTME47C03	Total Quality Management
4	26BTME47C04	Computer Aided Design and Manufacturing
5	26BTME47C05	Computer Aided Design and Manufacturing Lab
6	26BTME47C06	Capstone Project - I
7		Departmental Elective- V
8		Departmental Elective- VI
Optional to choose (Non Credit course)*		
9	26PRDV0AEC2	Professional Development-II

- Professional Development–II is an optional, non-credit course. Evaluation shall be on a Satisfactory/Unsatisfactory basis.
- MOOCs courses from recognized platforms such as NPTEL/SWAYAM may be mapped or included after registration opens; total credits and contact hours may increase accordingly

Basket – V		
Departmental / Discipline Elective		
S. no	Course Code	Course Title
1	26BTME47E01	Non-destructive Testing
2	26BTME47E02	Automotive Chassis System
3	26BTME47E03	Introduction to MATLAB
4	26BTME47E04	Micro Electro Mechanical Systems and Embedded Systems

Basket – VI		
Departmental / Discipline Elective		
S. no	Course Code	Course Title
1	26BTME47E05	Mechatronics
2	26BTME47E06	Vehicle Body Engineering and Safety
3	26BTME47E07	Machine vision
4	26BTME47E08	IOT Applications in Automotive Industry

Semester VIII		
S No	Course Code	Course Title
1	26BTME48C01	Industrial Training
2	26BTME48C02	Capstone Project - II