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| **Suggestive Study Path For Mechanical Engineering CBCS** |
|  | **First Semester** | **Second Semester** | **Third Semester** | **Fourth Semester** | **Fifth Semester** | **Sixth Semester** | **Seventh Semester** | **Eighth Semester** |
| **Basic Sciences****(23)** | MA 1001 EM-I(3+1+0)BS1001 Engg Physics (3+0+0)BS 1005 Biology(3+0+0)BS 1002 Lab- Engg Physics (0+0+1) | MA 1002 EM II(3+1+0)BS 1003 Engg Chemistry (3+0+0)BS 1004 Lab- Engg Chemistry(0+0+1) | MA 2001EM III(3+1+0) |  |  |  |  |  |
| **Engineering** **Sciences****(25)** | ME 1001 BME (4+0+0)ME 1002 Lab- BME(0+0+1)ME 1005 Lab- Workshop-I(0+0+1) | AM 1001 Engg Mechanics (3+0+1)ME 1003 EnggGraphic(3+0+0)#BCE BEEBECEBCOM&ITBEEE(4+0+0)ME 1004 Lab- Engg Graphics(0+0+1)# Lab-BCE BEEBECEBCOM&ITBEEE(0+0+1)ME 1006Lab Workshop II(0+0+1) | ME 2008Workshop III(0+0+1) | ME 2009Electrical Machines (2+0+0)ME 2016Lab - Electrical Machines(0+0+1)ME 2021Workshop IV(0+0+1) |  |  |  |  |
| **Professional** **Core****(82)** |  |  | ME 2001Engg Thermodynamics(2+1+0)ME 2002Machine Drawing(3+0+0)ME 2003Manufacturing Process (2+0+0)ME 2006Lab- Engg Thermodynamics(0+0+1)ME 2007 Lab- Machine Drawing(0+0+1) | ME 2010Mechanisms of Machines (2+1+0)ME 2011Applied Thermodynamics(3+0+0)ME 2012SOM (2+0+0)ME 2017Lab- Mechanisms of Machines(0+0+1)ME 2018 lab - Applied Thermodynamics(0+0+1)ME 2019Lab – SOM(0+0+1)ME 2020 Lab- CAME I (0+0+1) | ME 3001Applied Mathematics(3+0+0)ME 3002DOME (2+1+0)ME 3003Metallurgy(2+0+0)ME 3004Fluid Mechanics and Hydraulic Machines(3+1+0)ME 3010 Lab -Design of Machines I(0+0+1)ME 3011Lab-Metallurgy(0+0+1)ME 3012Lab- Fluid Mechanics and Hydraulic Machines(0+0+1)ME 3013 Lab –CAME II (0+0+1) | ME 3014Heat and Mass Transfer(2+1+0)ME 3015MQC(3+0+0)ME 3016 IE(2+0+0) ME 3017MM(2+0+0) ME 3023Lab- Heat and mass Transfer(0+0+1)ME 3024Lab-MQC(0+0+1)ME 3025Lab-MM(0+0+1)ME 3026 Industrial Interaction(0+0+1) | ME 4001ICE & GT (2+1+0)ME 4002MEX(2+1+0)ME 4003CADCAM (3+0+0)ME 4010Lab- ICE & GT(0+0+1)ME 4011Lab- MEX(0+0+1)ME 4012Lab - CADCAM(0+0+1)ME 4013Seminar (0+0+1)ME 4014Project I(0+0+2) | ME 4017ACS (3+0+0)ME 4018Tool Design(2+1+0)ME 4019RAC(2+1+0)ME 4026Lab- RAC(0+0+1)ME 4027Lab- ACS(0+0+1)ME 4028Lab - Tool Design(0+0+1)ME 4029 Project II(0+0+3) |
| **Professional** **Electives****(20)** |  |  | ME 2004Engg Materials ME 2005Biomechanical Engineering (3+0+0) | ME 2013Machine ToolsME 2014Material Handling ME 2015Surface Coating(3+0+0) | ME 3005Advanced Theory of MachinesME 3006Advanced ManufacturingTechniquesME 3007 Machine Tool Design ME 3008Modern Control Theory ME 3009Power Plant Engineering (3+0+0) | ME 3018Introduction to FEM ME 3019Mechanical VibrationsME 3020Advanced stress analysis ME 3021Advanced Machine DesignME 3022Machine Tool Erection (3+0+0) | ME 4004Computational Fluid Dynamics ME 4005Reliability EngineeringME 4006Operation Research Techniques ME 4007Robotics & Automation ME 4008Tribology ME 4009Advanced Joining Techniques`(4+0+0) | ME 4020Automobile EngineeringME 4021Energy Audit & ManagementME 4022Flexible Manufacturing System ME 4023Operation ManagementME 4024CryogenicsME 4025Optimization Techniques(4+0+0) |
| **Open Elective****(12)** |  |  |  | ME 2022Total Quality Management(3+0+0)  |  | ME 3027Quality ManagementSystems ME 3028Entrepreneurship Development (3+0+0)  | ME 4015Industrial management ME 4016Costing & Cost Estimation (3+0+0) | ME 4030Engineering EconomicsME 4031Renewable Energy Engg.(3+0+0) |
| **Humanity** **and** **Sciences****(14)** | HS1001 Communication Skills (4+0+0)HS 1002 Lab- Communication Skills (0+0+1) |  | HSEnvironment Studies (4+0+0) |  | HS Industrial Organization and management (3+0+0) | HS Production Management (2+0+0) |  |  |
| **Mandatory** **Audit Courses( No Credits)** |  Any one |  | ACNSS Group Discussion Yoga  | AC Professional Communication | ACBasics of Product Survey | ACSeminar  | AC Talent hour drama Music Instrument  |  |
| **Total Credits** | **22** | **22** | **22** | **22** | **22** | **22** | **22** | **22** |

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 **HEAD**

**Department of Mechanical Engineering**

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| **List of the courses offered under following categories.** |
| Basic Science(26) | MA1001 Engineering Mathematics IBS1001 Engineering PhysicsBS1005 BiologyBS1002 Lab- Engineering PhysicsMA1002 Engineering Mathematics IIBS1003 Engineering ChemistryBS1004 Lab- Engineering ChemistryMA2001 Engineering Mathematics IIIME 2009 Electrical MachinesME 2016 Lab - Electrical MachinesME 3001 Applied Mathematics |
| Engineering Sciences | ME 1001 BME (4+0+0)ME 1002 Lab- BME(0+0+1)ME 1005 Lab- Workshop-I(0+0+1)ME1003 Engineering GraphicsAM1001 Engineering MechanicsME1004 Lab- Engineering GraphicsAM1002 Lab- Engineering MechanicsME1006 Lab- Workshop-II BCE/BEE/BECE/BCOMP&IT/BEEE Lab- BCE/BEE/BCOMP&IT/BECE/BEEEME 2009 Electrical MachinesME 2016 Lab - Electrical MachinesME 2008 Workshop IIIME 2021 Workshop IV(0+0+1) |
| Professional Core(82) | 1. ME 2001 Engg. Thermodynamics
2. ME 2006 Labs - Engg. Thermodynamics
3. ME 2002 Machine Drawing
4. ME 2007 Lab- Machine Drawing
5. ME 2020 Lab- CAME-I
6. ME 2008 Workshop Practice III
7. ME 2003 Manufacturing Process

 ME 2010 Mechanism of MachinesME 2017 Lab - Mechanism of MachinesME 2011 Applied ThermodynamicsME 2018 Lab - Applied ThermodynamicsME 2012 Strength of MaterialsME2019 Lab- Strength of Materials1. ME 2021 Workshop Practice IV\

ME 3001 Applied MathematicsME 3002 DOME ME 3003 MetallurgyME 3004 Fluid Mechanics and Hydraulic MachinesME 3010 Lab -Design of Machines IME 3011 Lab-MetallurgyME 3012 Lab- Fluid Mechanics and Hydraulic MachinesME 3013 Lab –CAME II ME 3014 Heat and Mass TransferME 3015 MQCME 3016 IEME 3017 MMME 3023 Lab- Heat and mass TransferME 3024 Lab-MQCME 3025 Lab-MMME 3026 Industrial InteractionME 4001 ICE & GT ME 4002 MEXME 4003 CADCAM ME 4010 Lab- ICE & GTME 4011 Lab- MEXME 4012 Lab - CADCAMME 4013 Seminar ME 4014 Project IME 4017 ACS ME 4018 Tool DesignME 4019 RACME 4026 Lab- RACME 4027 Lab- ACSME 4028 Lab - Tool DesignME 4029 Project II |
| Professional Electives(16) | ME 2004 Engg Materials ME 2005 Biomechanical EngineeringME 2013 Machine ToolsME 2014 Material Handling ME 2015 Surface CoatingME 3005 Advanced Theory of MachinesME 3006 Advanced Manufacturing TechniquesME 3007 Machine Tool Design ME 3008 Modern Control Theory ME 3009 Power Plant Engineering ME 3018 Introduction to FEM ME 3019 Mechanical VibrationsME 3020 Advanced stress analysis ME 3021 Advanced Machine DesignME 3022 Machine Tool Erection ME 4004 Computational Fluid Dynamics ME 4005 Reliability EngineeringME 4006 Operation Research Techniques ME 4007 Robotics & Automation ME 4008Tribology ME 4009 Advanced Joining TechniquesME 4020 Automobile EngineeringME 4021 Energy Audit & ManagementME 4022 Flexible Manufacturing System ME 4023 Operation ManagementME 4024 CryogenicsME 4025 Optimization Techniques |
| Open Elective(12) | ME 2022 Total Quality ManagementME 3027 Quality Management Systems ME 3028 Entrepreneurship DevelopmentME 4015 Industrial management ME 4016 Costing & Cost EstimationME 4030 Engineering EconomicsME 4031 Renewable Energy Engg |
| Humanity and Generic Courses (14) | HS1001 Communication SkillsHS1002 Lab- Communication SkillsHS Environment StudiesHS Industrial Organization and managementHS Production Management  |
| Mandatory Courses ( No Credits) |  |

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