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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 2001  EM 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  Engg  Graphic  (3+0+0)  #BCE BEE  BECEBCOM&IT  BEEE  (4+0+0)  ME 1004  Lab- Engg Graphics  (0+0+1)  # Lab-BCE BEE  BECEBCOM&IT  BEEE  (0+0+1)  ME 1006  Lab Workshop II(0+0+1) | ME 2008  Workshop III(0+0+1) | ME 2009  Electrical Machines (2+0+0)  ME 2016  Lab - Electrical Machines(0+0+1)  ME 2021  Workshop IV(0+0+1) |  |  |  |  |
| **Professional**  **Core**  **(82)** |  |  | ME 2001  Engg Thermodynamics  (2+1+0)  ME 2002  Machine Drawing(3+0+0)  ME 2003  Manufacturing Process (2+0+0)  ME 2006  Lab- Engg Thermodynamics  (0+0+1)  ME 2007  Lab- Machine Drawing(0+0+1) | ME 2010  Mechanisms of Machines (2+1+0)  ME 2011  Applied Thermodynamics  (3+0+0)  ME 2012  SOM  (2+0+0)  ME 2017  Lab- Mechanisms of Machines  (0+0+1)  ME 2018  lab - Applied Thermodynamics  (0+0+1)  ME 2019  Lab – SOM  (0+0+1)  ME 2020  Lab- CAME I (0+0+1) | ME 3001  Applied Mathematics  (3+0+0)  ME 3002  DOME  (2+1+0)  ME 3003  Metallurgy  (2+0+0)  ME 3004  Fluid Mechanics and Hydraulic Machines  (3+1+0)  ME 3010  Lab -Design of Machines I  (0+0+1)  ME 3011  Lab-Metallurgy  (0+0+1)  ME 3012  Lab- Fluid Mechanics and Hydraulic Machines  (0+0+1)  ME 3013  Lab –CAME II (0+0+1) | ME 3014  Heat and Mass Transfer  (2+1+0)  ME 3015  MQC  (3+0+0)  ME 3016  IE  (2+0+0)  ME 3017  MM  (2+0+0)  ME 3023  Lab- Heat and mass Transfer  (0+0+1)  ME 3024  Lab-MQC  (0+0+1)  ME 3025  Lab-MM  (0+0+1)  ME 3026  Industrial Interaction  (0+0+1) | ME 4001  ICE & GT (2+1+0)  ME 4002  MEX(2+1+0)  ME 4003  CADCAM (3+0+0)  ME 4010  Lab- ICE & GT  (0+0+1)  ME 4011  Lab- MEX  (0+0+1)  ME 4012  Lab - CADCAM  (0+0+1)  ME 4013  Seminar (0+0+1)  ME 4014  Project I  (0+0+2) | ME 4017  ACS (3+0+0)  ME 4018  Tool Design  (2+1+0)  ME 4019  RAC  (2+1+0)  ME 4026  Lab- RAC  (0+0+1)  ME 4027  Lab- ACS  (0+0+1)  ME 4028  Lab - Tool Design  (0+0+1)  ME 4029  Project II  (0+0+3) |
| **Professional**  **Electives**  **(20)** |  |  | ME 2004  Engg Materials  ME 2005  Biomechanical Engineering  (3+0+0) | ME 2013  Machine Tools  ME 2014  Material Handling  ME 2015  Surface Coating  (3+0+0) | ME 3005  Advanced Theory of Machines  ME 3006  Advanced Manufacturing  Techniques  ME 3007  Machine Tool Design  ME 3008  Modern Control Theory  ME 3009  Power Plant Engineering  (3+0+0) | ME 3018  Introduction to FEM  ME 3019  Mechanical Vibrations  ME 3020  Advanced stress analysis  ME 3021  Advanced Machine Design  ME 3022  Machine Tool Erection  (3+0+0) | ME 4004  Computational Fluid Dynamics  ME 4005  Reliability Engineering  ME 4006  Operation Research Techniques  ME 4007  Robotics & Automation  ME 4008  Tribology  ME 4009  Advanced Joining Techniques`  (4+0+0) | ME 4020  Automobile Engineering  ME 4021  Energy Audit & Management  ME 4022  Flexible Manufacturing System  ME 4023  Operation Management  ME 4024  Cryogenics  ME 4025  Optimization Techniques  (4+0+0) |
| **Open Elective**  **(12)** |  |  |  | ME 2022  Total Quality Management  (3+0+0) |  | ME 3027  Quality Management  Systems  ME 3028 Entrepreneurship Development  (3+0+0) | ME 4015  Industrial management  ME 4016  Costing & Cost Estimation (3+0+0) | ME 4030 Engineering Economics  ME 4031  Renewable Energy Engg.(3+0+0) |
| **Humanity**  **and**  **Sciences**  **(14)** | HS1001 Communication Skills (4+0+0)  HS 1002  Lab- Communication Skills (0+0+1) |  | HS  Environment 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 |  | AC  NSS Group Discussion Yoga | AC  Professional Communication | AC  Basics of Product Survey | AC  Seminar | 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 I  BS1001 Engineering Physics  BS1005 Biology  BS1002 Lab- Engineering Physics  MA1002 Engineering Mathematics II  BS1003 Engineering Chemistry  BS1004 Lab- Engineering Chemistry  MA2001 Engineering Mathematics III  ME 2009 Electrical Machines  ME 2016 Lab - Electrical Machines  ME 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 Graphics  AM1001 Engineering Mechanics  ME1004 Lab- Engineering Graphics  AM1002 Lab- Engineering Mechanics  ME1006 Lab- Workshop-II  BCE/BEE/BECE/BCOMP&IT/BEEE  Lab- BCE/BEE/BCOMP&IT/BECE/BEEE  ME 2009 Electrical Machines  ME 2016 Lab - Electrical Machines  ME 2008 Workshop III  ME 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 Machines  ME 2017 Lab - Mechanism of Machines  ME 2011 Applied Thermodynamics  ME 2018 Lab - Applied Thermodynamics  ME 2012 Strength of Materials  ME2019 Lab- Strength of Materials   1. ME 2021 Workshop Practice IV\   ME 3001 Applied Mathematics  ME 3002 DOME  ME 3003 Metallurgy  ME 3004 Fluid Mechanics and Hydraulic Machines  ME 3010 Lab -Design of Machines I  ME 3011 Lab-Metallurgy  ME 3012 Lab- Fluid Mechanics and Hydraulic Machines  ME 3013 Lab –CAME II  ME 3014 Heat and Mass Transfer  ME 3015 MQC  ME 3016 IE  ME 3017 MM  ME 3023 Lab- Heat and mass Transfer  ME 3024 Lab-MQC  ME 3025 Lab-MM  ME 3026 Industrial Interaction  ME 4001 ICE & GT  ME 4002 MEX  ME 4003 CADCAM  ME 4010 Lab- ICE & GT  ME 4011 Lab- MEX  ME 4012 Lab - CADCAM  ME 4013 Seminar  ME 4014 Project I  ME 4017 ACS  ME 4018 Tool Design  ME 4019 RAC  ME 4026 Lab- RAC  ME 4027 Lab- ACS  ME 4028 Lab - Tool Design  ME 4029 Project II |
| Professional  Electives  (16) | ME 2004 Engg Materials  ME 2005 Biomechanical Engineering  ME 2013 Machine Tools  ME 2014 Material Handling  ME 2015 Surface Coating  ME 3005 Advanced Theory of Machines  ME 3006 Advanced Manufacturing Techniques  ME 3007 Machine Tool Design  ME 3008 Modern Control Theory  ME 3009 Power Plant Engineering  ME 3018 Introduction to FEM  ME 3019 Mechanical Vibrations  ME 3020 Advanced stress analysis  ME 3021 Advanced Machine Design  ME 3022 Machine Tool Erection  ME 4004 Computational Fluid Dynamics  ME 4005 Reliability Engineering  ME 4006 Operation Research Techniques  ME 4007 Robotics & Automation  ME 4008Tribology  ME 4009 Advanced Joining Techniques  ME 4020 Automobile Engineering  ME 4021 Energy Audit & Management  ME 4022 Flexible Manufacturing System  ME 4023 Operation Management  ME 4024 Cryogenics  ME 4025 Optimization Techniques |
| Open Elective(12) | ME 2022 Total Quality Management  ME 3027 Quality Management Systems  ME 3028 Entrepreneurship Development  ME 4015 Industrial management  ME 4016 Costing & Cost Estimation  ME 4030 Engineering Economics  ME 4031 Renewable Energy Engg |
| Humanity  and Generic Courses (14) | HS1001 Communication Skills  HS1002 Lab- Communication Skills  HS Environment Studies  HS Industrial Organization and management  HS Production Management |
| Mandatory Courses ( No Credits) |  |

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