BACHELOR OF TECHNOLOGY

IN

# MECHANICAL ENGINEERING

(Applicable from the academic session 2018-2019)



## Maulana Abul Kalam Azad University of Technology, West Bengal

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Fourth Year Seventh Semester | | | |  | | |  |
| Sl No. | Category | Subject Code | Subject Name | Total No. of contact hours | | | Credits |
| L | T | P |
| Theory | | | |  | | |  |
| 1 | Professional Core courses | PC-ME701 | Advanced Manufacturing Technology | 3 | 0 | 0 | 3 |
| 2 | Professional Elective courses | PE-ME701 | Elective III | 3 | 0 | 0 | 3 |
| 3 | Professional Elective courses | PE-ME702 | Elective-IV | 3 | 0 | 0 | 3 |
| 4 | Open Elective courses | OE-ME 701 | Open Elective- I | 3 | 0 | 0 | 3 |
| 5 | Humanities and Social  Sciences including  Management courses | HM-HU701 | Economics for Engineers | 2 | 0 | 0 | 2 |
|  | Total Theory | | | 14 | 0 | 0 | 14 |
| Practical/ Sessional | | | |  | | |  |
| 1 | Professional Core courses | PC-ME791 | Mechanical Engineering  Laboratory III (Manufacturing) | 0 | 0 | 3 | 1.5 |
| 2 | Project | PW-ME781 | Project-III | 0 | 0 | 6 | 3 |
|  | Total Practical | | | 0 | 0 | 9 | 4.5 |
|  | Total of Seventh Semester | | | 14 | 0 | 9 | 18.5 |

(Formerly West Bengal University of Technology) Haringhata-

741249, Nadia, West Bengal, INDIA

List of Professional Electives in Semester VII for (Elective-III) PE-ME701 and (Elective-IV) PE-ME702

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| --- | --- |
| Subject Code | Subject name |
| Thermo-Fluid Group | |
| A | Automobile Engineering |
| B | Gas Dynamics and Jet Propulsion |
| C | Computational Fluid Dynamics |
| Design Group | |
| D | Elements of Atmospheric Fluid Dynamics |
| E | Selection and Testing of Materials |
| F | Mechanical Vibration |
| G | Finite Element Analysis |
| Manufacturing Group | |
| H | Advanced Welding Technology |
| I | Quantity Production Methods |
| J | CAD/CAM |

List of Open Electives (OE-ME701) in Semester VII

|  |  |
| --- | --- |
| Subject Code | Subject Name |
| A | Industrial Engineering |
| B | Project Management |
| C | Introduction to Product Design and Development |
| D | Non-conventional Energy Sources |
| E | Biomechanics and Biomaterials |
| F | Computational Methods in Engineering |
| G | Artificial Intelligence (AI) |
| H | Machine Learning |
| I | Water Resource Engineering |