

BIRLA INSTITUTE OF TECHNOLOGY- MESRA, RANCHI
NEW COURSE STRUCTURE - To be effective from academic session 2021- 22
Based on CBCS system & OBE model
Recommended scheme of study
(For Minor in Mechanical Engineering)

| Semester of Study | Course Level | Course Code | Course Name | Mode of delivery & credits <i>L-Lecture; T-Tutorial; P-Practical</i> | | | Total Credit C- Credit | |
|---|--------------|---------------------|--|---|--|--|------------------------------|------------|
| | | | | L <i>(Periods/ week)</i> | T <i>(Periods/ week)</i> | P <i>(Periods/ week)</i> | | C |
| THEORY | | | | | | | | |
| FIFTH | PC | ME315 | Heat & Mass Transfer | 3 | 0 | 0 | 3 | |
| | | ME206 | Hydraulic Machines | 3 | 0 | 0 | 3 | |
| | | LABORATORIES | | | | | | |
| | | ME202 | Fluid Mechanics& Hydraulic Machines Lab | 0 | 0 | 3 | 1.5 | |
| | | Total | | | | | | 7.5 |
| THEORY | | | | | | | | |
| SIXTH | PC | ME205/ ME355 | Strength of Materials/ Advanced Solid Mechanics | 3 | 1 | 0 | 4 | |
| | | ME301 | IC Engines & Gas Turbines | 3 | 0 | 0 | 3 | |
| | | LABORATORIES | | | | | | |
| | | ME304 | Internal Combustion Engines Lab | 0 | 0 | 3 | 1.5 | |
| | | Total | | | | | | 8.5 |
| THEORY | | | | | | | | |
| SEVENTH | PC | ME211 | Machine Design | 3 | 0 | 0 | 3 | |
| | | LABORATORIES | | | | | | |
| | | ME406 | Computer Aided Design & Drafting Lab | 0 | 0 | 3 | 1.5 | |
| Total | | | | | | 4.5 | | |
| GRAND TOTAL | | | | | | 20.5 | | |
| <i>Minimum requirement for minor degree award</i> | | | | | | | | |