

**BIRLA INSTITUTE OF TECHNOLOGY- MESRA, RANCHI**  
**NEWCOURSE STRUCTURE - To be effective from academic session 2018- 19**

**Based on CBCS & OBE model**

**Recommended scheme of study**

*(B.Tech. in Electronics & Communications Engineering, Computer Science & Engineering, Electrical & Electronics Engineering, Information Technology)*

| Semester/ Session of Study (Recommended) | Course Level | Category of course               | Course Code       | Course  | Mode of delivery & credits<br><i>L-Lecture; T-Tutorial; P-Practicals</i> |                      |                      | Total Credits<br><i>C- Credits</i> |
|--|--------------|----------------------------------|-------------------|---|--|----------------------|----------------------|------------------------------------|
|  |              |                                  |                   |   | L<br>(Periods/ week)   | T<br>(Periods/ week) | P<br>(Periods/ week) | C                                  |
|  |              | <b>THEORY</b>                    |                   |   |  |                      |                      |                                    |
| <b>FIRST Monsoon</b>                     | <b>FIRST</b> | FS<br><i>Foundation Sciences</i> | MA 103            | Mathematics - I                                     | 3  | 1                    | 0                    | 4                                  |
|  |              |                                  | CH101             | Chemistry   | 3  | 1                    | 0                    | 4                                  |
|  |              | GE<br><i>General Engineering</i> | EC101             | Basics of Electronics & Communication Engineering   | 3  | 1                    | 0                    | 4                                  |
|  |              |                                  | ME101             | Basics of Mechanical Engineering                    | 3  | 1                    | 0                    | 4                                  |
|  |              | <b>LABORATORIES</b>              |                   |   |  |                      |                      |                                    |
|  | <b>FIRST</b> | FS                               | CH102             | Chemistry Lab                                       | 0  | 0                    | 3                    | 1.5                                |
|  |              | GE                               | EC102             | Electronics & Communication Lab                     | 0  | 0                    | 3                    | 1.5                                |
|  |              | GE                               | ME102             | Engineering Graphics                                | 0  | 0                    | 4                    | 2                                  |
|  |              | MC<br>Mandatory Course           | MC101/102/103/104 | Choice of : NCC/NSS/ PT & Games/ Creative Arts (CA) | 0  | 0                    | 2                    | 1                                  |
|  | <b>TOTAL</b> |                                  |                   |   |  |                      |                      |                                    |
|  |              | <b>THEORY</b>                    |                   |   |  |                      |                      |                                    |
| <b>SECOND Spring</b>                     | <b>FIRST</b> | FS                               | MA107             | Mathematics - II                                    | 3  | 1                    | 0                    | 4                                  |
|  |              |                                  | PH113             | Physics   | 3  | 1                    | 0                    | 4                                  |
|  |              | GE                               | CS101             | Programming for problem Solving                     | 3  | 1                    | 0                    | 4                                  |
|  |              |                                  | EE101             | Basics of Electrical Engineering                    | 3  | 1                    | 0                    | 4                                  |
|  |              | <b>LABORATORIES</b>              |                   |   |  |                      |                      |                                    |
|  | <b>FIRST</b> | FS                               | PH114             | Physics Lab   | 0  | 0                    | 3                    | 1.5                                |
|  |              | GE                               | CS102             | Programming for problem Solving lab                 | 0  | 0                    | 3                    | 1.5                                |
|  |              |                                  | PE101             | Workshop Practice                                   | 0  | 0                    | 3                    | 1.5                                |
|  |              | MC                               | MC105/106/107/108 | Choice of : NCC/NSS/ PT & Games/ Creative Arts (CA) | 0  | 0                    | 2                    | 1                                  |
|  | <b>TOTAL</b> |                                  |                   |   |  |                      |                      |                                    |
| <b>GRAND TOTAL FOR FIRST YEAR</b>        |              |                                  |                   |   |  |                      |                      | <b>43.5</b>                        |