

**FIRST YEAR B Tech CURRICULUM 2022 (Common to all branches)**

**PHYSICS CYCLE/GROUP**

| Year | FIRST SEMESTER                         |  |           |          |           |           | SECOND SEMESTER                        |   |           |          |           |           |
|------|--|--|-----------|----------|-----------|-----------|--|---|-----------|----------|-----------|-----------|
|      | Sub. Code                              | Subject Name   | L         | T        | P         | C         | Sub. Code                              | Subject Name                                    | L         | T        | P         | C         |
| I    | MAT 1171                               | Engineering mathematics - I                          | 3         | 1        | 0         | 4         | MAT 1271                               | Engineering mathematics - II                    | 3         | 1        | 0         | 4         |
|      | PHY 1071                               | Engineering Physics                                  | 3         | 0        | 0         | 3         | CHM 1071                               | Engineering Chemistry                           | 3         | 0        | 0         | 3         |
|      | CIE 1071                               | Mechanics of Solids                                  | 2         | 1        | 0         | 3         | BIO 1071                               | Biology for Engineers                           | 3         | 0        | 0         | 3         |
|      | ECE 1071                               | Basic Electronics                                    | 3         | 0        | 0         | 3         | ELE 1071                               | Basic Electrical Technology                     | 2         | 1        | 0         | 3         |
|      | MIE 1071                               | Basic Mechanical Engineering                         | 3         | 0        | 0         | 3         | CSE 1071                               | Problem Solving Using Computers                 | 2         | 1        | 0         | 3         |
|      | HUM 1071                               | Communication Skills in English                      | 1         | 0        | 2         | 2         | CIE 1072                               | Environmental Studies                           | 1         | 0        | 2         | 2         |
|      | IPE 1071                               | Universal Human Values and Professional Ethics (MLC) | 1         | 0        | 0         | 1         | HUM 1072                               | Human Rights and Constitution (MLC)             | 1         | 0        | 0         | 1         |
|      | PHY 1081                               | Engineering Physics Lab                              | 0         | 0        | 3         | 1         | CHM 1081                               | Engineering Chemistry Lab                       | 0         | 0        | 3         | 1         |
|      | MIE 1081                               | Workshop Practice                                    | 0         | 0        | 3         | 1         | CSE 1081                               | Problem Solving Using Computers Lab             | 0         | 0        | 3         | 1         |
|      | MIE 1181                               | Engineering Graphics - I                             | 0         | 0        | 3         | 1         | MIE 1281                               | Engineering Graphics - II                       | 0         | 0        | 3         | 1         |
|      | IPE ****                               | Creativity, Problem Solving & Innovation* (MLC)      | 1         | 0        | 0         | --*       | IPE ****                               | Creativity, Problem Solving & Innovation* (MLC) | 1         | 0        | 0         | --*       |
|      |  |  | <b>17</b> | <b>2</b> | <b>11</b> | <b>22</b> |  |   | <b>16</b> | <b>3</b> | <b>11</b> | <b>22</b> |
|      | <b>Total Contact Hours (L + T + P)</b> |  | <b>30</b> |          |           |           | <b>Total Contact Hours (L + T + P)</b> |   | <b>30</b> |          |           |           |

\*After completing a project work along with other activities which are assessed periodically the students would earn 3 credits which would be considered in lieu of an open elective for Fifth Semester B Tech. **MLC** – Mandatory Learning Course

**FIRST YEAR B Tech CURRICULUM 2022 (Common to all branches)**

**CHEMISTRY CYCLE/GROUP**

| Year | FIRST SEMESTER                         |   |           |          |           |  | SECOND SEMESTER |  |           |          |           |           |
|------|--|---|-----------|----------|-----------|--|-----------------|--|-----------|----------|-----------|-----------|
|      | Sub. Code                              | Subject Name                                    | L         | T        | P         | C                                      | Sub. Code       | Subject Name   | L         | T        | P         | C         |
| I    | MAT 1171                               | Engineering mathematics - I                     | 3         | 1        | 0         | 4                                      | MAT 1271        | Engineering mathematics - II                         | 3         | 1        | 0         | 4         |
|      | CHM 1071                               | Engineering Chemistry                           | 3         | 0        | 0         | 3                                      | PHY 1071        | Engineering Physics                                  | 3         | 0        | 0         | 3         |
|      | BIO 1071                               | Biology for Engineers                           | 3         | 0        | 0         | 3                                      | CIE 1071        | Mechanics of Solids                                  | 2         | 1        | 0         | 3         |
|      | ELE 1071                               | Basic Electrical Technology                     | 2         | 1        | 0         | 3                                      | ECE 1071        | Basic Electronics                                    | 3         | 0        | 0         | 3         |
|      | CSE 1071                               | Problem Solving Using Computers                 | 2         | 1        | 0         | 3                                      | MIE 1071        | Basic Mechanical Engineering                         | 3         | 0        | 0         | 3         |
|      | CIE 1072                               | Environmental Studies                           | 1         | 0        | 2         | 2                                      | HUM 1071        | Communication Skills in English                      | 1         | 0        | 2         | 2         |
|      | HUM 1072                               | Human Rights and Constitution (MLC)             | 1         | 0        | 0         | 1                                      | IPE 1071        | Universal Human Values and Professional Ethics (MLC) | 1         | 0        | 0         | 1         |
|      | CHM 1081                               | Engineering Chemistry Lab                       | 0         | 0        | 3         | 1                                      | PHY 1081        | Engineering Physics Lab                              | 0         | 0        | 3         | 1         |
|      | CSE 1081                               | Problem Solving Using Computers Lab             | 0         | 0        | 3         | 1                                      | MIE 1081        | Workshop Practice                                    | 0         | 0        | 3         | 1         |
|      | MIE 1181                               | Engineering Graphics – I                        | 0         | 0        | 3         | 1                                      | MIE 1281        | Engineering Graphics - II                            | 0         | 0        | 3         | 1         |
|      | IPE ****                               | Creativity, Problem Solving & Innovation* (MLC) | 1         | 0        | 0         | --*                                    | IPE ****        | Creativity, Problem Solving & Innovation* (MLC)      | 1         | 0        | 0         | --*       |
|      |  |   | <b>16</b> | <b>3</b> | <b>11</b> | <b>22</b>                              |                 |  | <b>17</b> | <b>2</b> | <b>11</b> | <b>22</b> |
|      | <b>Total Contact Hours (L + T + P)</b> | <b>30</b>                                       |           |          |           | <b>Total Contact Hours (L + T + P)</b> | <b>30</b>       |  |           |          |           |           |

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