



| Sr. No.    | Course Code     | Course Type                           | Course Name                                | Teaching Scheme (Hrs./week) |    |     |               |                     |       | Examination Scheme and Marks |     |     |    |    |       | Credit |    |     |       |
|------------|-----------------|---------------------------------------|--------------------------------------------|-----------------------------|----|-----|---------------|---------------------|-------|------------------------------|-----|-----|----|----|-------|--------|----|-----|-------|
|            |                 |                                       |                                            | TH                          | PR | TUT | Contact Hours | Self Learning Hours | Total | CCE                          | ESE | TW  | PR | OR | TOTAL | TH     | PR | TUT | TOTAL |
| Semester-I |                 |                                       |                                            |                             |    |     |               |                     |       |                              |     |     |    |    |       |        |    |     |       |
| 1          | R25-SH-BSC-101  | Basic Science Course                  | Linear Algebra and Calculus                | 4                           | -  | -   | 60            | 60                  | 120   | 40                           | 60  | -   | -  | -  | 100   | 4      |    |     | 4     |
| 2          | R25-SH-BSC-103  | Basic Science Course                  | Engineering Chemistry                      | 3                           | 2  | -   | 45            | 45                  | 120   | 40                           | 60  | 25  | -  | -  | 125   | 3      | 1  |     | 4     |
| 3          | R25-ME-ESC-104  | Engineering Science Course            | Systems of Mechanical Engineering          | 3                           | -  | -   | 45            | 45                  | 90    | 40                           | 60  | -   | -  | -  | 100   | 3      |    |     | 3     |
| 4          | R25-EE-ESC-106  | Engineering Science Course            | Fundamentals of Electrical Engineering     | 2                           | 2  | -   | 30            | 30                  | 90    | 40                           | 60  | 25  | -  | -  | 125   | 2      | 1  |     | 3     |
| 5          | R25-CO-ESC-108  | Engineering Science Course            | Programming & Problem Solving Using Python | 2                           | 2  | -   | 30            | 30                  | 90    | 40                           | 60  | 25  | -  | -  | 125   | 2      | 1  |     | 3     |
| 6          | R25-ME-VSEC-109 | Vocational & Skill Enhancement Course | Engineering Workshop Skills Lab            | -                           | 2  | -   | 30            | -                   | 30    | -                            | -   | 50  | -  | -  | 50    |        | 1  |     | 1     |
| 7          | R25-ME-VSEC-110 | Vocational & Skill Enhancement Course | Engineering Graphics Lab                   | -                           | 2  | -   | 30            | -                   | 30    | -                            | -   | 50  | -  | -  | 50    |        | 1  |     | 1     |
| 8          | R25-SH-AEC-113  | Ability Enhancement Course            | Indian Knowledge System                    | -                           | -  | 2   | 30            | 30                  | 60    | -                            | -   | 50  | -  | -  | 50    |        |    | 2   | 2     |
| 9          | R25-SH-CC-114   | Cocurricular Courses                  | Cocurricular Courses - I                   | -                           | 2  | -   | 30            | -                   | 30    | -                            | -   | 25  | -  | -  | 25    |        | 1  |     | 1     |
|            |                 |                                       | Total                                      | 14                          | 12 | 2   | 330           | 240                 | 660   | 200                          | 300 | 250 | 0  | 0  | 750   | 14     | 6  | 2   | 22    |

  
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| Sr. No.     | Course Code     | Course Type                           | Course Name                                                            | Teaching Scheme (Hrs./week) |    |     |               |                     |       | Examination Scheme and Marks |     |     |    |    |       | Credit |    |     |       |
|-------------|-----------------|---------------------------------------|------------------------------------------------------------------------|-----------------------------|----|-----|---------------|---------------------|-------|------------------------------|-----|-----|----|----|-------|--------|----|-----|-------|
|             |                 |                                       |                                                                        | TH                          | PR | TUT | Contact Hours | Self Learning Hours | Total | CCE                          | ESE | TW  | PR | OR | TOTAL | TH     | PR | TUT | TOTAL |
| Semester-II |                 |                                       |                                                                        |                             |    |     |               |                     |       |                              |     |     |    |    |       |        |    |     |       |
| 1           | R25-SH-BSC-116  | Basic Science Course                  | Advanced Calculus and Numerical Integration                            | 4                           | -  | -   | 60            | 60                  | 120   | 40                           | 60  | -   | -  | -  | 100   | 4      |    |     | 4     |
| 2           | R25-SH-BSC-102  | Basic Science Course                  | Engineering Physics                                                    | 3                           | 2  | -   | 45            | 45                  | 120   | 40                           | 60  | 25  | -  | -  | 125   | 3      | 1  |     | 4     |
| 3           | R25-CE-ESC-105  | Engineering Science Course            | Engineering Mechanics and Civil Engineering Systems                    | 3                           | -  | -   | 45            | 45                  | 90    | 40                           | 60  | -   | -  | -  | 100   | 3      |    |     | 3     |
| 4           | R25-ET-ESC-107  | Engineering Science Course            | Fundamentals of Electronics Engineering                                | 2                           | 2  | -   | 30            | 30                  | 90    | 40                           | 60  | 25  | -  | -  | 125   | 2      | 1  |     | 3     |
| 5           | R25-ITT-PCC-118 | Program Core Course                   | Modern IT Engineering Trends                                           | 2                           | -  | -   | 30            | 30                  | 60    | 40                           | 60  | -   | -  | -  | 100   | 2      |    |     | 2     |
| 6           | R25-IT-PCC-119  | Program Core Course Lab               | Programming in C                                                       | -                           | 2  | -   | 30            |                     | 30    | -                            | -   | 25  | -  | -  | 25    |        | 1  |     | 1     |
| 7           | R25-IT-VSEC-115 | Vocational & Skill Enhancement Course | Digital Technology Lab                                                 | -                           | 2  | -   | 30            | -                   | 30    | -                            | -   | 50  | -  | -  | 50    |        | 1  |     | 1     |
| 8           | R25-CE-VSEC-111 | Vocational & Skill Enhancement Course | Civil Engineering Lab                                                  | -                           | 2  | -   | 30            | -                   | 30    | -                            | -   | 50  | -  | -  | 50    |        | 1  |     | 1     |
| 9           | R25-SH-AEC-113  | Indian Knowledge System               | Professional Communication Skill or Foreign Language (Japanese/German) | -                           | -  | 2   | 30            | 30                  | 60    | -                            | -   | 50  | -  | -  | 50    |        |    | 2   | 2     |
| 10          | R25-SH-CC-117   | Cocurricular Courses                  | Cocurricular Courses - II                                              | -                           | 2  |     | 30            | -                   | 30    | -                            | -   | 25  | -  | -  | 25    |        | 1  |     | 1     |
|             |                 |                                       | Total                                                                  | 14                          | 12 | 2   | 360           | 240                 | 660   | 200                          | 300 | 250 | 0  | 0  | 750   | 14     | 6  | 2   | 22    |

  
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| Exit option: Award of UG Certificate in Major with 44 credits and an additional 8 credits from following Exit Courses |                                         |   |   |    |         |             |     |    |             |
|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------|---|---|----|---------|-------------|-----|----|-------------|
| Course Code                                                                                                           | Course Title                            | L | T | P  | Credits | Contact Hrs | TW  | OR | Total Marks |
| R25-IT-EXC-101A                                                                                                       | System Administration and IT Operations | – | – | –  | 4       | –           | 100 |    | 100         |
| R25-IT-EXC-101B                                                                                                       | Project                                 | – | – | 16 | 4       | 16          | 50  | 50 | 100         |
| Total                                                                                                                 |                                         |   |   |    |         |             |     |    | 200         |