Department of Information Technology

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|  |  |  |  |  |  |  |
| **Semester** |  | **Subject** | **L** | **T** | **Practical** | **Total** |
| **1st Semester** | Theory |  |  |  |  |  |
| BS-PH101 | Physics-I(Gr-A) | 3 | 1 | 0 | 4 |
| BS-M101 | Mathematics –IA | 3 | 1 | 0 | 4 |
| ES-EE101 | Basic Electrical Engineering | 3 | 1 | 0 | 4 |
|  |  |  |  |  |  |
| Laboratory |  |  |  |  |  |
| BS-PH191 | Physics-I Laboratory | 0 | 0 | 3 | 3 |
| ES-EE191 | Basic Electrical Engineering Laboratory | 0 | 0 | 2 | 2 |
| ES-ME192 | Workshop Manufacturing  Practice | 1 | 0 | 4 | 5 |
|  |  |  |  |  |  |  |
| **3rd Semester** | Theory |  |  |  |  |  |
| ESC-301 | Analog & Digital Electronics | 3 | 0 | 0 | 3 |
| PCC-CS 301 | Data Structure & Algorithms | 3 | 0 | 0 | 3 |
| PCC-CS 302 | Computer Organiztion | 3 | 0 | 0 | 3 |
| BSC-301 | Mathematics-III | 2 | 0 | 0 | 2 |
| HSMC-301 | Economics for Engineers | 3 | 0 | 0 | 3 |
|  |  |  |  |  |  |
| Laboratory |  |  |  |  |  |
| ESC-391 | Analog & Digital Electronics Lab | 0 | 0 | 4 | 4 |
| PCC-CS391 | Data Structure & Algorithm Lab | 0 | 0 | 4 | 4 |
| PCC-CS392 | Computer Organization Lab | 0 | 0 | 4 | 4 |
| PCC-CS393 | IT Workshop Lab(Python) | 0 | 0 | 4 | 4 |
|  |  |  |  |  |  |  |
| **5th Semester** | Theory |  |  |  |  |  |
| ESC501 | Software Engineering | 3 | 0 | 0 | 3 |
| PCC-CS501 | Compiler Design | 3 | 0 | 0 | 3 |
| PCC-CS502 | Operating Systems | 3 | 0 | 0 | 3 |
| PCC-CS503 | Object Oriented Programming | 3 | 0 | 0 | 3 |
| HSMC-501 | Introduction to Industrial  Management | 3 | 0 | 0 | 3 |
| Electives |  |  |  |  |  |
| PEC-IT501B | Artificial Intelligence | 3 | 0 | 0 | 3 |
| PEC-IT501D | Computer Graphics | 3 | 0 | 0 | 3 |
| Sessional |  |  |  |  |  |
| MC-CS501 | Constitution of India | 0 | 0 | 0 | 0 |
|  |  |  |  |  |  |
| Laboratory |  |  |  |  |  |
| ESC591 | Software Engineering Lab | 0 | 0 | 4 | 4 |
| PCC-CS593 | Object Oriented  Programming Lab | 0 | 0 | 4 | 4 |
| PCC-CS592 | Operating System Lab | 0 | 0 | 4 | 4 |
|  |  |  |  |  |  |  |
| **Seventh Semester** | **Theory** |  |  |  |  |  |
| HSMC 701 | Project Management and  Entrepreneurship | 3 | 0 | 0 | 3 |
| **Prof. Elective IV** |  |  |  |  |  |
| PEC-IT701C | Cloud Computing | 3 | 0 | 0 | 3 |
| PEC-IT701D | Machine Learning | 3 | 0 | 0 | 3 |
| **Prof. Elective IV** |  |  |  |  |  |
| PEC-IT702B | Neural Networks and Deep Learning | 3 | 0 | 0 | 3 |
| PEC-IT702F | Cyber Security | 3 | 0 | 0 | 3 |
| **Open ElectiveII** |  |  |  |  |  |
| OEC-IT701A | Operations Research | 3 | 0 | 0 | 3 |
| OEC-IT701C | Soft Skills & Interpersonal Communication | 3 | 0 | 0 | 3 |
| **Sessional** |  |  |  |  |  |
| PROJ-IT781 | Project |  |  | 12 | 12 |