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| **Scheme of Teaching and Examination for BE (Autonomous Scheme: 2021)** |
| ***VI SEMESTER - Information Science & Engineering*** |

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| **Sl. No** | **Course Area** | **Course Code** | **Course Name** | **Teaching Department** | *A Section* | *B Section* |
| 1 | IPCC | 21IS61# | Machine Learning | IS | Dr. Md. Muddasir / Prof. Neeti Shukla |  |
| 2 | IPCC | 21IS62\* | DevOps | IS | Dr. Ravikumar V / Prof. Vidyashree K P / Prof. Shilpa K S |  |
| 3 | PC | 21IS63 | Management & Entrepreneurship | IS | Prof. Priyanka Mohan | Prof. Priyanka Mohan |
| 4 | PE | 21IS64X | Professional Elective – II | IS |  |  |
| 5 | OE | 21IS65X | Open Elective – II | IS |  |  |
| 6 | PRI | 21INT66 | Innovation/Entrepreneurship  /Societal Internship | TAP |  |  |
| 8 | HS | 21HS68B | Research Methodology and Intellectual Property Rights | ME |  |  |
|  |  | 21IS641\* | **Full Stack Development - II** |  | Prof. Kasturi Rangan R |  |
|  |  | 21IS642@ | **Compiler Design** |  |  |  |
|  |  | 21IS643\* | **Cloud Computing** |  | Prof. Shivani T J /  Spoorthi M |  |
|  |  | 21IS644\* | **Computer Vision** |  |  |  |
|  |  | 21IS645 | **Information Retrieval** |  | Dr. A B Rajendra |  |

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| **Professional Elective – II** | | A Section | | B Secion | **Career Elective-II** | | **Technical Proficiency Enhancement – IV** | |
|  |  |  |  | | 21AL69X | **Mini Project** | 21TP67A | **Competitive Programming** |
|  |  |  |  | | 21AL69X | **Research** |  | |
|  |  |  |  | | 21AL69X | **Add-on Course** |  | |
|  |  |  |  | | 21AL69X | **Foreign Language** |  | |
|  |  |  |  | | 21AL69X | **Online Courses** |  | |
| **Open Elective – II** | |  |  | |  |  |  | |
| 21IS651 | Introduction to Operating System |  |  | |  |  |  | |
| 21IS652 | Introduction to Internet of Things |  |  | |  |  |  | |

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| **Professional Elective – II** | | **Open Elective – II** | | **Career Elective-II** | | **Technical Proficiency Enhancement – IV** | |
| 21IS641\* | **Full Stack Development - II** | 21IS651 | **Introduction to Operating System** | 21AL69X | **Mini Project** | 21TP67A | **Competitive Programming** |
| 21IS642@ | **Compiler Design** | 21IS652 | **Introduction to Internet of Things** | 21AL69X | **Research** |  | |
| 21IS643\* | **Cloud Computing** | 21CI653 | **Introduction to Web Technologies** | 21AL69X | **Add-on Course** |  | |
| 21IS644\* | **Computer Vision** | 21CS654 | **Introduction to Machine Learning** | 21AL69X | **Foreign Language** |  | |
| 21IS645 | **Information Retrieval** | 21CS655 | **Fundamentals of Cloud Computing** | 21AL69X | **Online Courses** |  | |

*\*Common to CS/IS/CI #Common to CS/IS $Common to CS/CI @Common to IS/CI*

**Internship of 04 weeks during the intervening period of IV and V semesters 21INT66: Innovation/ Entrepreneurship/ Societal based Internship**

1. All the students shall have to undergo a mandatory internship of 04 weeks during the intervening period of IV and V semesters. The internship shall be slated for CIE only and will not have SEE. The letter grade earned through CIE shall be included in the VI semester grade card. The internship shall be considered as a head of passing and shall be considered for vertical progression and for the award of degree. Those, who do not take up / complete the internship shall be considered under F (fail) grade and shall have to complete during subsequently after satisfying the internship requirements.
2. Innovation/ Entrepreneurship Internship shall be carried out at industry, State and Central Government /Non-government organizations (NGOs), micro, small and medium enterprises (MSME), Innovation centers, or Incubation centers. Innovation need not be a single breakthrough; it can also be a series of small or incremental changes. Innovation of any kind can also happen outside of the business world. Entrepreneurship internships offer a chance to gain hands-on experience in the world of entrepreneurship and helps to learn what it takes to run a small entrepreneurial business by performing intern duties with an established company. This experience can then be applied to future business endeavours. Start-ups and small companies are a preferred place to learn the business tack ticks or future entrepreneurs as earning how a small business operates will serve the intern well when he/she manages his/her own company. Entrepreneurship acts as a catalyst to open the minds to creativity and innovation. Entrepreneurship internships can be from several sectors, including technology, small and medium-sized, and the service sector.
3. Societal or social internship. Urbanization is increasing on a global scale; and yet, half the world’s population still resides in rural areas and is devoid of many things that urban population enjoys. The rural internship is a work-based activity in which students will have a chance to solve/reduce the problems of the rural place for better living.