| Professional Elective Streams | Code | PE– I (3-1) | Code | PE – II (3-2) | Code | PE – III (4-1) | Code | PE – IV (4-1) | Cod e | PE – V (4-2) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | a | | | | |
| Artificial Intelligence and Machine Learning | | Introduction to AI & Machine Learning | | Introduction to Data Analytics | AIML-03 | Deep Learning and Neural Network | | Special topics in Artificial Intelligence | | Applications of AI |
| | AIML-01 | | AIML-02 | | | | AIML-04 | | AIML-05 | |
| Cybersecurity | CBS-01 | Information Theory for Cyber Security | CBS-02 | Data Encryption | CBS-03 | Steganography and Digital Watermarking | CBS-04 | Security Assessment and Risk Analysis | CBS-05 | Database Security and Access Control |
| Blockchain | BLC-01 | Fundamentals of Blockchain | BLC-02 | Smart Contracts and Solidity | BLC-03 | Blockchain Platforms and Use cases | BLC-04 | Blockchain Security and Performance | BLC-05 | Blockchain and FinTech |
| IoT | IoT-01 | Introduction to Internet of Things | IoT-02 | Introduction to Security of Cyber- Physical Systems | IoT-03 | Ubiquitous sensing, computing, and communications Sensing, Computing and Communication Sensing, Computing and Communication | IoT-04 | Embedded Systems for IoT | IoT-05 | IoT with Arduino, ESP, and Raspberry Pi |

Note : The students who have chosen B.Tech CSE course in Data Science will have to take the professional electives PE1 to PE5 mentioned in the last row only. In the light of this the 3rd row mentioned above must be removed. There is one more slot available for the data science stream as introduction to AI & ML is already introduced in this stream (other than in PEs). In the light of this we may introduce a subject. Either in Blockchain or Robotics or Quantum Computing or Virtual Reality may be taken i.e., replace the subject of AI & ML proposed in II/II by any one of above 4 subjects. The syllabus is available in the AICTE website under AICTE model curriculum of courses at UG level in emerging areas (Enclosed).