2. Shri Vaishnav Institute of Information Technology

- **Department of Computer Science & Engineering**
  - Program
    1) B.tech (CCE)

- Sem 1

S.1 Mathematics – (BTMACS-101)
S.2 APPLIED PHYSICS(BTPH-101)
S.3 Introduction to Computer Science and Engineering(BTCS-102)
S.4 Digital Logic and Circuit Design(BTEC-104)
S.5 Principles of 'C' language (BTCS-104)
S.6 Programming Skills with 'C' (BTCS-108)
S.7 Web Development Lab-I(HTML & XML) (BTIT-307)

- Sem 2

S.1 Mathematics-II (BTMACS-201)
S.2 Computer Peripherals and Interfaces (BTCS-204)
S.3 Data Structure and Algorithms (BTCS-403)
S.4 Computer System Organization (BTCS-404)
S.5 Object Oriented Programming (BTCS-305)
S.6 Programming Skills with 'C++' (BTCS-208)
S.7 Communication Skills (HUCS-101)

- Sem 3

S.1 Discrete Structures (BTIT-401)
S.2 Data Communication (BTCS-302)
S.3 Analysis and Design of Algorithms (BTIT-305)
S.4 Principles of Programming Languages (BTCS-303)
S.5 Introduction to Core Java (BTIT-309)
S.6 Technical Presentation Skills (BTCS-610)
S.7 Web Development Lab-II (PHP/JSP) (BTIT-407)

- Sem 4

S.1 Environment and Energy Studies (ML-301)
S.2 Computer Networks(BTIT-502)
S.3 Operating Systems (BTCS-502)
S.4 Database Management Systems (BTCSI-405)
S.5 Advanced Java Programming (BTCS-409)
S.6 Unix and Shell Programming Lab (BTIT-406)
S.7 Mobile App Development Lab (BTIT-306)

- Sem 5

S.1 Computer Graphics and Multimedia (BTCS-503)

S.2 Software Engineering and Project Management (BTCS-504)

S.3 Artificial Intelligence (BTCS-511)

S.4 CYBER AND NETWORK SECURITY (BTIT-603)

S.5 WIRELESS COMMUNICATION NETWORKS (BTIT-511)

S.6 MANAGEMENT INFORMATION SYSTEM (BTIT-513)

S.7 INFORMATION STORAGE AND MANAGEMENT (BTIT-611)

S.8 ENTERPRISE RESOURCE PLANNING (BTIT-712)

S.9 Programming with Python (BTCS-407)

- Sem 6

S.1 Theory of Computation (BTCS-501)

S.2 Internet of Things (BTCS-602)

S.3 Cloud Computing (BTCS-701)

S.4 Data Science (BTCS-608)

S.5 Simulation and Modeling (BTCS-612)

S.6 Software Testing and Quality Assurance (BTCS-613)

S.7 Block Chain (BTCS-618)

S.8 Robotics (BTCS-617)

S.9 IT WorkshopSciLab/MATLAB (BTIT-608)

S.10 Minor Project (BTCS-606)

- Sem 7

S.1 Human Values and Professional Ethics (BBAI-501)

S.2 Compiler Design (BTCS-601)

S.3 OBJECT ORIENTED ANALYSIS AND DESIGN (BTIT-604)

S.4 BIG DATA AND HADOOP (BTCS-702)

S.5 Next Generation Telecommunication Networks (BTCC-703)

S.6 Soft computing (BTCS-711)

S.7 Quantum Computing (BTCS-715)

S.8 Virtual Reality (BTCS-716)

S.9 Project (BTCS-706)

2) B.tech (IBM - DS/FSDB/BDA/CMC/AI)

- Sem 1

S.1 Mathematics – (BTMACS-101)

S.2 APPLIED PHYSICS(BTPH-101)

S.3 Introduction to Computer Science and Engineering(BTCS-102)

S.4 Digital Logic and Circuit Design(BTEC-104)

S.5 Principles of 'C' language (BTCS-104)

S.6 Software Foundation and Programming (1. Clean Coding; 2. Javascript; 3. NodeRed; 4. NodeJS) (BTIBM-105)

S.7 Programming Skills with 'C' (BTCS-108)

S.8 Software Foundation and Programming 1 (with 'C') (BTCS-105)

S.9 Web Development Lab-I(HTML & XML) (BTIT-307)

- Sem 2

S.1 Mathematics-II (BTMACS-201)

S.2 Computer Peripherals and Interfaces (BTCS-204)

S.3 Design Thinking (BTIBM-203)

S.4 Computer System Organization (BTCS-404)

S.5 Agile Development Methodologies (DevOps + Agile) (BTIBM-202)

S.6 Programming Skills with 'C++' (BTCS-208)

S.7 Communication Skills (HUCS-101)

S.8 Data Structure and Algorithms (BTCS-403)

S.9 Agile Development Methodologies (BTIBM-201)

S.10   Programming Skills with 'C++' (BTCS-208)

- Sem 3

S.1 Discrete Structures (BTIT-401)

S.2 Data Communication (BTCS-302)

S.3 Analysis and Design of Algorithms (BTIT-305)

S.4 Cloud Computing: Project Based Learning (BTIBM-401)

S.5 Introduction to Core Java (BTIT-309)

S.6 Unix and Shell Programming Lab (BTIT-406)

S.7 Web Development Lab-II (PHP/JSP) (BTIT-407)

S.8 Computational Learning (AI) (BTAI-301)

S.9 Principles of Programming Languages (BTCS-303)

S.10   Object Oriented Programming Using Java (BTCS-308)

- Sem 4

S.1   Environment and Energy Studies (ML-301)

S.2 Computer Networks(BTIT-502)

S.3 Operating Systems (BTCS-502)

S.4 Database Management Systems (BTCS-405)

S.5 Advanced Java (BTCS-307)

S.6 Application Development Using Python (BTIBM-403)

S.7 Application Development and deployment using IOT (BTIBMC-701)

- Sem 5

S.1 Computer Graphics and Multimedia (BTCS-503)

S.2 Software Engineering and Project Management (BTCS-504)

S.3 Artificial Intelligence (BTCS-511)

S.4 CYBER AND NETWORK SECURITY (BTIT-603)

S.5 WIRELESS COMMUNICATION NETWORKS (BTIT-511)

S.6 MANAGEMENT INFORMATION SYSTEM (BTIT-513)

S.7 INFORMATION STORAGE AND MANAGEMENT (BTIT-611)

S.8 ENTERPRISE RESOURCE PLANNING (BTIT-712)

S.9 Programming with Python (BTCS-407)

S.10   Scripting Languages (BTCS-607)

S.11   Big Data Technologies (BTIBMB-601)

S.12   Predictive Analytics (BTIBDA-501)

S.13   Micro services Architecture and Implementation (BTIBM-601)

S.14   Predictive Modelling (BTIBMA-501)

- Sem 6

S.1 Theory of Computation (BTCS-501)

S.2 Object Oriented Analysis and Design (BTIT-604)

S.3 Simulation and Modeling (BTCS-612)

S.4 Software Testing and Quality Assurance (BTCS-613)

S.5 Robotics (BTCS-617)

S.6 Block Chain (BTCS-618)

S.7 Micro services Architecture and Implementation (BTIBM-601)

S.8 Big Data Engineering - Spark & Scala (BTIBMB-602)

S.9 IT WorkshopSciLab/MATLAB (BTIT-608)

S.10   Big Data Technologies (Hadoop) (BTIBMC-602)

S.11   Artificial Intelligence (BTIBMC-601)

S.12   Cloud Computing (BTCS-701)

S.13   Internet of Things (BTCS-602)

S.14   Data Science (BTCS-608)

S.15   Minor Project (BTCS-606)

- Sem 7

S.1 Human Values and Professional Ethics (BBAI-501)

S.2 Compiler Design (BTCS-601)

S.3 OBJECT ORIENTED ANALYSIS AND DESIGN (BTIT-604)

S.4 BIG DATA AND HADOOP (BTCS-702)

S.5 Next Generation Telecommunication Networks (BTCC-703)

S.6 Soft computing (BTCS-711)

S.7 Quantum Computing (BTCS-715)

S.8 Virtual Reality (BTCS-716)

S.9 Project (BTCS-706)

3) B.tech (ES-RH)

- Sem 1

S.1 Mathematics – (BTMACS-101)

S.2 APPLIED PHYSICS(BTPH-101)

S.3 Introduction to Computer Science and Engineering(BTCS-102)

S.4 Digital Logic and Circuit Design(BTEC-104)

S.4 Principles of 'C' language (BTCS-104)

S.5 Programming Skills with 'C' (BTCS-108)

S.6 Red Hat Administration-I (RH-124)

- Sem 2

S.1 Mathematics-II (BTMACS-201)

S.2 Computer Peripherals and Interfaces (BTCS-204)

S.3 Data Structure and Algorithms (BTCS-403)

S.4 Object Oriented Programming (BTCS-305)

S.5 Programming Skills with 'C++' (BTCS-208)

S.6 Communication Skills (HUCS-101)

S.7 Red Hat Administration-II (RH-134)

- Sem 3

S.1 Discrete Structures (BTIT-401)

S.2 Data Communication (BTCS-302)

S.3 Analysis and Design of Algorithms (BTIT-305)

S.4 Principles of Programming Languages (BTCS-303)

S.5 Introduction to Core Java (BTIT-309)

S.6 RedHat Administration-III (RH254)

S.7 Web Development Lab-I(HTML & XML) (BTIT-307)

- Sem 4

S.1 Environment and Energy Studies (ML-301)

S.2 Computer Networks(BTIT-502)

S.3 Operating Systems (BTCS-502)

S.4 Database Management Systems (BTCS-405)

S.5 Advanced Java Programming (BTCS-409)

S.6 Red Hat Application Development I - Java EE (JB-183)

S.7 System Programming (BTCS-410)

- Sem 5

S.1 Artificial Intelligence (BTCS-511)

S.2 Software Engineering and Project Management (BTCS-504)

S.3 Cloud Computing (BTCS-701)

S.4 Computer Architecture and Microprocessor (BTCS-509)

S.5 Programming with Python (BTCS-407)

S.6 RedHat Open Stack and Ansible (CLDO-507)

S.7 ENTERPRISE RESOURCE PLANNING (BTIT-712)

S.8 MANAGEMENT INFORMATION SYSTEM (BTIT-513)

S.9 INFORMATION STORAGE AND MANAGEMENT (BTIT-611)

S.10   WIRELESS COMMUNICATION NETWORKS (BTIT-511)

- Sem 6

S.1 Theory of Computation (BTCS-501)

S.2 Data Science (BTCS-608)

S.3 CYBER AND NETWORK SECURITY (BTIT-603)

S.4 Block Chain (BTCS-618)

S.5 Introduction to container Kubernete and RedHat OpenShift and JBOSS (DOJB-603)

S.6 Simulation and Modeling (BTCS-612)

S.7 Software Testing and Quality Assurance (BTCS-613)

S.8 Robotics (BTCS-617)

- Sem 7

S.1 Human Values and Professional Ethics (BBAI-501)

S.2 Compiler Design (BTCS-601)

S.3 Computer Graphics and Multimedia (BTCS-503)

S.4 Object Oriented Analysis and Design (BTIT-604)

S.5 Next Generation Telecommunication Networks (BTCC-703)

S.6 Soft computing (BTCS-711)

S.7 Quantum Computing (BTCS-715)

S.8 Virtual Reality (BTCS-716)

4) B.tech (ICS)

- Sem 1

S.1 Mathematics – (BTMACS-101)

S.2 APPLIED PHYSICS(BTPH-101)

S.3 Introduction to Computer Science and Engineering(BTCS-102)

S.4 Computer Peripherals and Interfaces (BTCS-204)

S.5 Principles of 'C' language (BTCS-104)

S.6 Programming Skills with 'C' (BTCS-108)

S.7 Web Development Lab-I(HTML & XML) (BTIT-307)

- Sem 2

S.1 Mathematics-II (BTMACS-201)

S.2 Digital Logic and Circuit Design(BTEC-104)

S.3 Data Structure and Algorithms (BTCS-403)

S.4 Computer System Organization (BTCS-404)

S.5 Object Oriented Programming (BTCS-305)

S.6 Programming Skills with 'C++' (BTCS-208)

S.7 Communication Skills (HUCS-101)

- Sem 3

S.1 Discrete Structures (BTIT-401)

S.2 Data Communication (BTCS-302)

S.3 Analysis and Design of Algorithms (BTIT-305)

S.4 Cyber Ethics and Social Media Analysis(ICS) (BTICS-301)

S.5 Introduction to Core Java (BTIT-309)

S.6 Technical Presentation Skills (BTCS-610)

S.7 Web Development Lab-II (PHP/JSP) (BTIT-407)

- Sem 4

S.1 Environment and Energy Studies (ML-301)

S.2 Computer Networks(BTIT-502)

S.3 Operating Systems (BTCS-502)

S.4 Database Management Systems (BTCS-405)

S.5 Advanced Java Programming (BTCS-409)

S.6 Mobile App Development Lab (BTIT-306)

S.7 Unix and Shell Programming Lab (BTIT-406)

- Sem 5

S.1 Software Engineering and Project Management (BTCS-504)

S.2 Artificial Intelligence (BTCS-511)

S.3 Network Security And Cryptography (BTICS-501)

S.4 Computer Graphics and Multimedia (BTCS-503)

S.5 WIRELESS COMMUNICATION NETWORKS (BTIT-511)

S.6 MANAGEMENT INFORMATION SYSTEM (BTIT-513)

S.7 INFORMATION STORAGE AND MANAGEMENT (BTIT-611)

S.8 ENTERPRISE RESOURCE PLANNING (BTIT-712)

S.9 Programming with Python (BTCS-407)

S.10   Ethical Hacking Lab-1 (BTICS-502)

- Sem 6

S.1 Ethical Hacking Lab-II (BTICS-602)

S.2 Block Chain (BTCS-618)

S.3 Robotics (BTCS-617)

S.4 Software Testing and Quality Assurance (BTCS-613)

S.5 Simulation and Modeling (BTCS-612)

S.6 Data Science (BTCS-608)

S.7 Concepts of System Security (BTICS-601)

S.8 Cloud Computing (BTCS-701)

S.9 Theory of Computation (BTCS-501)

- Sem 7

S.1 Human Values and Professional Ethics (BBAI-501)

S.2 Compiler Design (BTCS-601)

S.3 BIG DATA AND HADOOP (BTCS-702)

S.4 Mobile and Cloud Security (BTICS-701)

S.5 Cyber Investigation and Digital Forensic (BTICS-702)

S.6 Virtual Reality (BTCS-716)

S.7 Soft computing (BTCS-711)

S.8 Quantum Computing (BTCS-715)

5) B.tech (CSE_MA)

- Sem 1

S.1 Mobile Application Development-I (BTCSMOB-101)

S.2 Programming Skills with 'C' (BTCS-108)

S.3 Mathematics – (BTMACS-101)

S.4 APPLIED PHYSICS(BTPH-101)

S.5 Introduction to Computer Science and Engineering(BTCS-102)

S.6 Digital Logic and Circuit Design(BTEC-104)

S.7 Principles of 'C' language (BTCS-104)

- Sem 2

S.1 Mobile Application Development-II (BTCSMOB-201)

S.2 Communication Skills (HUCS-101)

S.3 Programming Skills with 'C++' (BTCS-208)

S.4 Object Oriented Programming (BTCS-305)

S.5 Mathematics-II (BTMACS-201)

S.6 Computer Peripherals and Interfaces (BTCS-204)

S.7 Data Structure and Algorithms (BTCS-403)

- Sem 3

S.1 Web Development Lab-I(HTML & XML) (BTIT-307)

S.2 Mobile App Development III iOS (BTCSMOB-301)

S.3 Introduction to Core Java (BTIT-309)

S.4 Principles of Programming Languages (BTCS-303)

S.5 Discrete Structures (BTIT-401)

S.6 Data Communication (BTCS-302)

S.7 Analysis and Design of Algorithms (BTIT-305)

- Sem 4

S.1 Unix and Shell Programming Lab (BTIT-406)

S.2 Mobile Application Development IV Android (BTCSMOB-401)

S.3 Advanced Java programming (BTCS-409)

S.4 Environment and Energy Studies (ML-301)

S.5 Computer Networks(BTIT-502)

S.6 Operating Systems (BTCS-502)

S.7 Database Management Systems (BTCS-405)

6) B.tech (CSBS-TCS)

- Sem 1

S.1 Principles of Electrical Engineering (BTCSH-104)

S.2 Physics for Computing Science (BTCSH-105)

Business Communication and Value Science – I (BTCSH-106)

S.3 Discrete Mathematics (BTCSH-101)

S.4 Statistics, Probability and Calculus (BTCSH-102)

S.5 Fundamentals of Computer Science (BTCSCS-103)

- Sem 2

S.1 Data Structures and Algorithms (BTCSCS-109)

S.2 Principles of Electronics Engineering (BTCSH-110)

S.3 Fundamentals of Economics (BTCSH-111)

S.4 Business Communication and Value Science – II (BTCSH-112)

S.5 Linear Algebra (BTCSH-107)

S.6 Statistical Methods (BTCSH-108)

- Sem 3

S.1 Object Oriented Programming (BTCSCS-203)

S.2 Computational Statistics (BTCSCS-204)

S.3 Software Engineering (BTCSCS-205)

S.4 Financial Management (BTCSMS-206)

S.5 Formal Language and Automata Theory (BTCSCS-201)

S.6 Computer Organization and Architecture (BTCSCS-202)

- Sem 4

S.1 Database Management Systems (BTCSCS-210)

S.2 Software Design with UML (BTCSCS-211)

S.3 Introduction to Innovation, IP Management and Entrepreneurship (BTCSIIE-212)

S.4 Business Communication and Value Science – III (BTCSIIE-213)

S.5 Operations Research (BTCSMS-214)

S.6 Operating Systems (BTCSCS-209)

7) B.tech (BDCE- Impetus Technologies)

- Sem 1

S.1 Web Development Lab-I(HTML & XML) (BTIT-307)

S.2 Programming Skills with 'C' (BTCS-108)

S.3 Mathematics – (BTMACS-101)

S.4 APPLIED PHYSICS(BTPH-101)

S.5 Introduction to Computer Science and Engineering(BTCS-102)

S.6 Digital Logic and Circuit Design(BTEC-104)

S.7 Principles of 'C' language (BTCS-104)

- Sem 2

S.1 Communication Skills (HUCS-101)

S.2 Programming Skills with 'C++' (BTCS-208)

S.3 Object Oriented Programming (BTCS-305)

S.4 Computer System Organization (BTCS-404)

S.5 Data Structure and Algorithms (BTCS-403)

S.6 Mathematics-II (BTMACS-201)

S.7 Computer Peripherals and Interfaces (BTCS-204)

- **Department of Information Technology**
  - Program
  1) B.tech (IT)

- Sem 1

S.1 Web Development Lab-I(HTML & XML) (BTIT-307)

S.2 Programming Skills with 'C' (BTCS-108)

S.3 Principles of 'C' language (BTCS-104)

S.4 Digital Logic and Circuit Design(BTEC-104)

S.5 Introduction to Information Technology (BTIT-101)

S.6 Computer Peripherals and Interfaces (BTCS-204)

S.7 Mathematics – (BTMACS-101)

- Sem 2

S.1 Communication Skills (HUCS-101)

S.2 Programming Skills with 'C++' (BTCS-208)

S.3 Object Oriented Programming (BTCS-305)

S.4 Computer System Organization (BTCS-404)

S.5 Data Structure and Algorithms (BTCS-403)

S.6 APPLIED PHYSICS(BTPH-101)

S.7 Mathematics-II (BTMACS-201)

- Sem 3

S.1 Web Development Lab-II (PHP/JSP) (BTIT-407)

S.2 Technical Presentation Skills (BTCS-610)

S.3 Introduction to Core Java (BTIT-309)

S.4 Operating Systems (BTCS-502)

S.5 Discrete Structures (BTIT-401)

S.6 Data Communication (BTCS-302)

S.7 Analysis and Design of Algorithms (BTIT-305)

- Sem 4

S.1 Mobile App Development Lab (BTIT-306)

S.2 Unix and Shell Programming Lab (BTIT-406)

S.3 Advanced Java Programming (BTCS-409)

S.4 Software Engineering and Project Management (BTCS-504)

S.5 Database Management Systems (BTCS-405)

S.6 Environment and Energy Studies (ML-301)

S.7 Computer Networks(BTIT-502)

- Sem 5

S.1 Scripting Languages (BTCS-607)

S.2 Programming with Python (BTCS-407)

S.3 MANAGEMENT INFORMATION SYSTEM (BTIT-513)

S.4 ENTERPRISE RESOURCE PLANNING (BTIT-712)

S.5 INFORMATION STORAGE AND MANAGEMENT (BTIT-611)

S.6 WIRELESS COMMUNICATION NETWORKS (BTIT-511)

S.7 Computer Graphics and Multimedia (BTCS-503)

S.8 CYBER AND NETWORK SECURITY (BTIT-603)

S.9 DISTRIBUTED SYSTEM (BTIT-713)

S.10   Artificial Intelligence (BTCS-511)

- Sem 6

S.1 Minor Project (BTCS-606)

S.2 IT WorkshopSciLab/MATLAB (BTIT-608)

S.3 Block Chain (BTCS-618)

S.4 Robotics (BTCS-617)

S.5 Software Testing and Quality Assurance (BTCS-613)

S.6 Simulation and Modeling (BTCS-612)

S.7 Cloud Computing (BTCS-701)

S.8 Internet of Things (BTCS-602)

S.9 Data Science (BTCS-608)

S.10   Theory of Computation (BTCS-501)

- Sem 7

S.1 Next Generation Telecommunication Networks (BTCC-703)

S.2 Soft computing (BTCS-711)

S.3 Quantum Computing (BTCS-715)

S.4 Virtual Reality (BTCS-716)

S.5 OBJECT ORIENTED ANALYSIS AND DESIGN (BTIT-604)

S.6 BIG DATA AND HADOOP (BTCS-702)

S.7 Human Values and Professional Ethics (BBAI-501)

S.8 Compiler Design (BTCS-601)