**Savitribai Phule Pune University**
**Third Year of Information Technology (2019 course)**
**(With effect from Academic Year 2021-22)**

**Semester-V**

| Course Code | Course Name | Teaching Scheme (Hours/ week) | | | Examination Scheme and Marks | | | | | | Credit Scheme | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Theory | Practical | Tutorial | Mid-Sem | End-Sem | Term work | Practical | Oral | Total | Lecture | Practical | Tutorial | Total |
| 314441 | Theory of Computation | 03 | - | - | 30 | 70 | - | - | - | 100 | 3 | - | - | 3 |
| 314442 | Operating Systems | 03 | - | - | 30 | 70 | - | - | - | 100 | 3 | - | - | 3 |
| 314443 | Machine Learning | 03 | - | - | 30 | 70 | - | - | - | 100 | 3 | - | - | 3 |
| 314444 | Human Computer Interaction | 03 | - | - | 30 | 70 | - | - | - | 100 | 3 | - | - | 3 |
| 314445 | Elective-I | 03 | - | - | 30 | 70 | - | - | - | 100 | 3 | - | - | 3 |
| 314446 | Operating Systems Lab | - | 04 | - | - | - | 25 | 25 | - | 50 | - | 2 | - | 2 |
| 314447 | Human Computer Interaction- Lab | - | 02 | - | - | - | | - | 50 | 50 | - | 1 | | 1 |
| 314448 | Laboratory Practice-I | - | 04 | - | - | - | 25 | 25 | | 50 | - | 2 | - | 2 |
| 314449 | Seminar | - | 01 | - | - | - | 50 | - | - | 50 | - | 1 | - | 1 |
| 314450 | Audit Course 5 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | | | | | | | Total Credit | 15 | 06 | - | 21 |
| | Total | 15 | 11 | - | 150 | 350 | 100 | 50 | 50 | 700 | 15 | 06 | - | 21 |

**Abbreviations:** TH: Theory, TW: Term Work, PR: Practical , OR: Oral ,TUT: Tutorial

**Elective-I:**
314445A- Design and Analysis of Algorithm
314445B- Advanced Database and Management System
314445C- Design Thinking
314445D- Internet of Things

**Audit Course 5:**
314450A-Banking and Insurance
314450B-Startup Ecosystems
314450C- Foreign Language–(Japanese Language- III )

**Laboratory Practice-I:**
Assignment from Machine Learning and Elective I

**Note:** Students of T.E. (Information Technology) can opt any one of the audit course from the list of audit courses prescribed by BoS (Information Technology)

**Savitribai Phule Pune University**
**Third Year of Information Technology (2019 Course)**
**(With effect from Academic Year 2021-22)**

**Semester-VI**

| Course Code | Course Name | Teaching Scheme (Hours/ week) | | | Examination Scheme and Marks | | | | | | Credit Scheme | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Lecture | Practical | Tutorial | Mid-Sem | End-Sem | Term Work | Practical | Oral | Total | Lecture | Practical | Tutorial | Total |
| 314451 | Computer Networks& Security | 03 | - | - | 30 | 70 | - | - | - | 100 | 03 | | | 03 |
| 314452 | Data Science and Big Data Analytics | 03 | - | - | 30 | 70 | - | - | - | 100 | 03 | | | 03 |
| 314453 | Web Application Development | 03 | - | - | 30 | 70 | - | - | - | 100 | 03 | | | 03 |
| 314454 | Elective-II | 03 | - | - | 30 | 70 | - | - | - | 100 | 03 | | | 03 |
| 314455 | Internship | - | 04 | - | - | - | 100 | - | - | 100 | | 04 | | 04 |
| 314456 | Computer Networks& Security-Lab | - | 04 | - | - | - | 25 | - | 50 | 75 | | 02 | | 02 |
| 314457 | DS & BDA-Lab | - | 02 | - | - | - | 25 | 25 | - | 50 | | 01 | | 01 |
| 314458 | Laboratory Practice-II | - | 04 | - | - | - | 50 | 25 | - | 75 | | 02 | | 02 |
| 314459 | Audit Course 6 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | | | | | | | Total | 12 | 09 | - | 21 |
| | Total | 12 | 14 | - | 120 | 280 | 200 | 50 | 50 | 700 | 12 | 09 | - | 21 |

**Abbreviations: TH: Theory, TW: Term Work, PR: Practical , OR: Oral, TUT: Tutorial**

**Elective-II:**
314454A- Artificial Intelligence
314454B- Cyber Security
314454C -Cloud Computing
314454D- Software Modeling and Design

**Audit Course 6:**
314459A - Green and Unconventional Energy
314459B - Leadership and Personality Development
314459C- Foreign Language-(Japanese Language- IV)

**Laboratory Practice-II:**
Assignments from Web Application Development and Elective-II.

**Note: Students of T.E. (Information Technology) can opt any one of the audit course from the list of audit courses prescribed by BoS (Information Technology)**