## VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
### Scheme of Teaching and Examinations–2024
### Bachelor of Computer Applications (BCA)
### SEP and Outcome-Based Education (OBE)

### III SEMESTER

| Sl. No | Course | Course Code | Course Title | Teaching Hours per Week Theory (L) | Teaching Hours per Week Practical/Seminar (P/T) | Teaching Hours per Week Skill Development Activities (Hours are for Interaction between Faculty And students) (SDA) | Examination Duration in hours | Examination CIE Marks | Examination SEE Marks | Examination Total Marks | Credits |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | IPCC | BBCA301 | Fundamentals of Java | 02 | 02 | -- | 03 | 50 | 50 | 100 | 4 |
| 2 | PCC | BBCA302 | Introduction to Python(K) | 03 | -- | -- | 03 | 50 | 50 | 100 | 3 |
| 3 | PCC | BBCA303 | Database management System | 03 | -- | -- | 03 | 50 | 50 | 100 | 3 |
| 4 | PCC | BBCA304 | Computer Networks | 03 | -- | -- | 03 | 50 | 50 | 100 | 3 |
| 5 | PCC | BBCA305 | Operating System Concepts | 03 | - | -- | 03 | 50 | 50 | 100 | 3 |
| 6 | PCCL | BBCAL306 | Python Lab | 01 | 02 | -- | 03 | 50 | 50 | 100 | 2 |
| 7 | PCCL | BBCAL307 | Database management System Lab | 01 | 02 | -- | 03 | 50 | 50 | 100 | 2 |
| 8 | AUD/AEC | BBCA388 | Online Course E-Business from https://online.vtu.ac.in/course-details/E-Business | | | | | | | | PP |
| | | **TOTAL** | | **16** | **06** | **00** | **21** | **350** | **350** | **700** | **20** |

## VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
### Scheme of Teaching and Examinations–2024
### Bachelor of Computer Applications (BCA)
### SEP and Outcome-Based Education (OBE)

### IV SEMESTER

| Sl. No | Course | Course Code | Course Title | Teaching Hours per Week | | | Examination | | | | | Credits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Theory | Practical/Seminar | Skill Development Activities (Hours are for Interaction between Faculty And students) | Duration in hours | CIE Marks | SEE Marks | Total Marks | | |
| | | | | L | P/T | SDA | | | | | | |
| 1 | IPCC | BBCA401 | PHP and SQL | 02 | 02 | -- | 03 | 50 | 50 | 100 | | 4 |
| 2 | PCC | BBCA402 | Design and Analysis of Algorithms | 03 | -- | -- | 03 | 50 | 50 | 100 | | 3 |
| 3 | PCC | BBCA403 | Introduction to Data Analytics using Python | 03 | -- | -- | 03 | 50 | 50 | 100 | | 3 |
| 4 | PCC | BBCA404 | Software Engineering | 03 | -- | -- | 03 | 50 | 50 | 100 | | 3 |
| 5 | PCC | BBCA405 | Digital Entrepreneurship | 03 | -- | -- | 03 | 50 | 50 | 100 | | 3 |
| 6 | PCCL | BBCAL406 | Design and Analysis of Algorithms Laboratory | 01 | 2 | -- | 03 | 50 | 50 | 100 | | 2 |
| 7 | PCCL | BBCAL407 | Data Analytics using Python Laboratory | 01 | 02 | -- | 03 | 50 | 50 | 100 | | 2 |
| 8 | MC | BBCA458 | Yoga for a Healthy Life | 00 | 02 | -- | | 100 | -- | 100 | | 0 |
| | | | **TOTAL** | **16** | **08** | **00** | **21** | **450** | **350** | **800** | | **20** |

**Yoga** is a MC-Mandatory Course (Non-credit). All students have to register for Yoga. Successful completion of the course and requisite CIE score is mandatory for the award of the degree. The events shall be appropriately scheduled by the colleges and the same shall be reflected in the calendar prepared for the Yoga activities. This course shall not be considered for vertical progression as well as for the calculation of SGPA and CGPA, but completion of the course is mandatory for the award of degree.