

SEMESTER –III

| SN | Subject Code | Subject | Type | Category | Periods | | | Sessional Component | | Sessional (SW) (TS/PS) | End Semester Examination (ESE) | Total SW+ESE | Credit Cr |
|----|-----------------|--|------|----------|-----------|----------|----------|---------------------|----|------------------------|--------------------------------|--------------|-----------|
| | | | | | L | T | P | CT | TA | | | | |
| 1 | BOE3** / BAS303 | Science Based Open Elective/BSC (Maths-III/Math IV/ Math V) | T | ES/BS | 3 | 1 | 0 | 20 | 10 | 30 | 70 | 100 | 4 |
| 2 | BVE301 / BAS301 | Universal Human Value and Professional Ethics/ Technical Communication | T | VA/HS | 2 | 1 | 0 | 20 | 10 | 30 | 70 | 100 | 3 |
| 3 | BCS301 | Data Structure | T | PC | 3 | 1 | 0 | 20 | 10 | 30 | 70 | 100 | 4 |
| 4 | BCS302 | Computer Organization and Architecture | T | PC | 3 | 1 | 0 | 20 | 10 | 30 | 70 | 100 | 4 |
| 5 | BCS303 | Discrete Structures & Theory of Logic | T | PC | 2 | 1 | 0 | 20 | 10 | 30 | 70 | 100 | 3 |
| 6 | BCS351 | Data Structure Lab | P | PC | 0 | 0 | 2 | | 50 | 50 | 50 | 100 | 1 |
| 7 | BCS352 | Computer Organization and Architecture Lab | P | PC | 0 | 0 | 2 | | 50 | 50 | 50 | 100 | 1 |
| 8 | BCS353 | Web Designing Workshop | P | PC | 0 | 0 | 2 | | 50 | 50 | 50 | 100 | 1 |
| 10 | BCC301 / BCC302 | Cyber Security/Python programming | T | VA | 2 | 0 | 0 | 20 | 10 | 30 | 70 | 100 | 2 |
| 11 | BCC351 | Internship Assesment /Mini Project* | P | | | | | | | 100 | | 100 | 2 |
| | | Total | | | 15 | 5 | 6 | | | | | | 25 |

- **Mathematics –III** for CE / ENV and allied branches
- **Mathematics-IV** for Computer/Electronics/Electrical & allied Branches, Mechanical & Allied Branches Textile/Chemical & allied Branches
- **Mathematics-V** for Bio Technology / Agriculture Engineering

SEMESTER –IV

| SN | Subject Code | Subject | Type | Category | Periods | | | Sessional Component | | Sessional (SW) (TS/PS) | End Semester Examination (ESE) | Total SW+ESE | Credit Cr |
|----|-----------------|---|------|----------|-----------|----------|----------|---------------------|----|------------------------|--------------------------------|--------------|-----------|
| | | | | | L | T | P | CT | TA | | | | |
| 1 | BAS403 / BOE4** | BSC(Maths-III/Math IV/ Math V)/Science Based Open Elective | T | BS/ES | 3 | 1 | 0 | 20 | 10 | 30 | 70 | 100 | 4 |
| 2 | BAS401 / BVE401 | Technical Communication / Universal Human Value and Professional Ethics | T | HS/VA | 2 | 1 | 0 | 20 | 10 | 30 | 70 | 100 | 3 |
| 3 | BCS401 | Operating System | T | PC | 3 | 1 | 0 | 20 | 10 | 30 | 70 | 100 | 4 |
| 4 | BCS402 | Theory of Automata and Formal Languages | T | PC | 3 | 1 | 0 | 20 | 10 | 30 | 70 | 100 | 4 |
| 5 | BCS403 | Object Oriented Programming with Java | T | PC | 2 | 1 | 0 | 20 | 10 | 30 | 70 | 100 | 3 |
| 6 | BCS451 | Operating System Lab | P | PC | 0 | 0 | 2 | | 50 | 50 | 50 | 100 | 1 |
| 7 | BCS452 | Object Oriented Programming with Java Lab | P | PC | 0 | 0 | 2 | | 50 | 50 | 50 | 100 | 1 |
| 8 | BCS453 | Cyber Security Workshop | P | PC | 0 | 0 | 2 | | 50 | 50 | 50 | 100 | 1 |
| 9 | BCC402 / BCC401 | Python Programming/Cyber Security | P | VA | 2 | 0 | 0 | 20 | 10 | 30 | 70 | 100 | 2 |
| 10 | BVE451 / BVE452 | Sports and Yoga - II / NSS-II | P | VA | 0 | 0 | 3 | | | 100 | | 100 | 0 |
| | | Total | | | 15 | 5 | 9 | | | | | | 23 |
| | | Minor Degree/ Honors Degree MT-1/HT-1 | | | | | | | | | | | |

*The Mini Project or internship (4 weeks) will be done during summer break after 4th Semester and will be assessed during V semester.