

## BACHELOR OF SCIENCE (COMPUTER SCIENCE)

### F. Y. B.Sc. (CS)

| Semester I                              | Semester II                     |
|---|---------------------------------|
| Digital Systems & Architecture          | Design & Analysis of Algorithms |
| Introduction to Programming with Python | Advanced Python Programming     |
| LINUX Operating System                  | Introduction to OOPs using C++  |
| Open Source Technologies                | Database Systems                |
| Discrete Mathematics                    | Calculus                        |
| Descriptive Statistics                  | Statistical Methods             |
| Soft Skills Development                 | E-Commerce & Digital Marketing  |

### S.Y.B.Sc (CS)

| Semester III                       | Semester IV                          |
|------------------------------------|--------------------------------------|
| Principles of Operating Systems    | Theory of computation Linear Algebra |
| Computer Networks Data Structures  | Software Engineering                 |
| Advanced Database Concepts         | IOT Technologies                     |
| Java based Application Development | Android Application Development      |
| Web Technologies                   | Advanced Application Development     |
| <b>Elective (Any one)</b>          | <b>Elective (Any one)</b>            |
| Green Technologies                 | Research Methodology                 |
| Creative Content Writing           | Management & Entrepreneurship        |

### T.Y.B.Sc (CS)

| Semester V                           | Semester VI                                     |
|--------------------------------------|---|
| Project Implementation               | Project Implementation                          |
| <b>Elective-I (Select Any Two)</b>   | <b>Elective-I (Select Any Two)</b>              |
| Artificial Intelligence              | Wireless Sensor Networks & Mobile Communication |
| Linux Server Administration          | Cloud Computing                                 |
| Software Testing & Quality Assurance | Cyber Forensics                                 |
| <b>Elective-II (Select Any Two)</b>  | <b>Elective-II (Select Any Two)</b>             |
| Information and Network Security     | Information Retrieval                           |
| Architecting of IoT                  | Digital Image Processing                        |
| Web Services                         | Data Science                                    |
| Game Programming                     | Ethical Hacking                                 |

Subject likely to change as per University notification for the year 2023-24

#### Eligibility :

A Candidate for being eligible for admission to the three years integrated course leading to the degree of Bachelor of Science (B. Sc.) must have passed Higher Secondary School Certificate Examination (Std. XII) in Science stream conducted by the Maharashtra State Board of Secondary and Higher Secondary Education with Mathematics and Statistics as one of the subject or its equivalent. Admission will be on merit, based on order of preference as follows :

1. Aggregate Marks at H. S. C. or equivalent.
2. Aggregate Marks in Science Group (Physics, Chemistry and Mathematics )
3. Marks in Mathematics and Statistics and Physics. Marks in Mathematics and Statistics.