



**P. D. E. A.'s**  
**Prof. Ramakrishna More Arts, Commerce and Science College Akurdi**  
**Pune-411044**  
Affiliated to

**Savitribai Phule Pune University [SPPU]**



**B.Sc. (Computer Science) /B.Sc. Honors (Computer Science)**  
**(Three Years B. Sc. and Four Years B. Sc. Honors Program)**

**Choice Based Credit System [CBCS]**  
Under  
**Autonomy and NEP-2020**

**From Academic Year**

**2024-2025**

Syllabus  
**Computer Science**

**Board of Studies Computer Science**

**F. Y. B. Sc. Computer Science Syllabus 2024 Pattern****Academic Year 2024-25*****SEMESTER-I***

| <b>Paper Code</b>                                       | <b>Title</b>                           | <b>Credits</b> |
|---------------------------------------------------------|----------------------------------------|----------------|
| <b>Major/ Subject -1</b>                                |                                        |                |
| CSMAT-111                                               | Problem Solving and Programming in 'C' | 2              |
| CSMAT-112                                               | Database Management System             | 2              |
| CSMAP-113                                               | C programming & DBMS Laboratory        | 2              |
| <b>Minor/Subject 2</b>                                  |                                        |                |
| MTMIT-111                                               | Matrix Algebra                         | 2              |
| MTMIT-112                                               | Discrete Mathematics                   | 2              |
| MTMIP-113                                               | Maxima Software Part-I                 | 2              |
| <b>OR</b>                                               |                                        |                |
| ELMIT-111                                               | Fundamentals of Analogue Electronics   | 2              |
| ELMIT-112                                               | Fundamentals of Digital Electronics    | 2              |
| ELMIP-113                                               | Electronics Lab-1A                     | 2              |
| <b>Skill Enhancement Course (SEC)</b>                   |                                        |                |
| STSEP-111                                               | Data Analysis using MS-Excel           | 2              |
| <b>General Elective (GE) /Open Elective (OE) Course</b> |                                        |                |
| CSGET-111                                               | MS-Office                              | 2              |
| <b>Indian Knowledge System (IKS) Course</b>             |                                        |                |
| GEIKT-111                                               | Indian Knowledge System                | 2              |
| <b>Ability Enhance Course (AEC)</b>                     |                                        |                |
| MAAET-111                                               | व्यावहारिक मराठी आणि साहित्यप्रकार १   | 2              |
| <b>OR</b>                                               |                                        |                |
| HIAET-111                                               | सामान्य हिंदी - I                      | 2              |
| <b>Value Education Course ( VEC)</b>                    |                                        |                |
| VEEAT-111                                               | Environmental Awareness                | 2              |

Total Credits: 22

***F. Y. B. Sc.(Comp.Sci) Pattern 2024***

***SEMESTER II***

| Paper Code                                              | Title                                            | Credits |
|---------------------------------------------------------|--------------------------------------------------|---------|
| <b>Major/Subject-1</b>                                  |                                                  |         |
| CSMAT-121                                               | Advanced 'C' Programming                         | 2       |
| CSMAT-122                                               | Relational Database Management System            | 2       |
| CSMAP-123                                               | Advanced C programming & RDBMS<br>Laboratory     | 2       |
| <b>Minor/Subject 2</b>                                  |                                                  |         |
| MTMIT-121                                               | Linear Algebra                                   | 2       |
| MTMIT-122                                               | Graph Theory                                     | 2       |
| MTMIP-123                                               | Maxima Software Part -II                         | 2       |
| <b>OR</b>                                               |                                                  |         |
| ELMIT-121                                               | Analogue Systems and Computer<br>Instrumentation | 2       |
| ELMIT-122                                               | Digital Systems and Computer Organization        | 2       |
| ELMIP-123                                               | Electronics Lab-1B                               | 2       |
| <b>Skill Enhancement Course (SEC)</b>                   |                                                  |         |
| STSET-121                                               | Statistical Methods for Data Science             | 2       |
| <b>General Elective (GE) /Open Elective (OE) Course</b> |                                                  |         |
| CSMAT-121                                               | Advanced Excel                                   | 2       |
| <b>Ability Enhance Course (AEC)</b>                     |                                                  |         |
| MAAET-121                                               | व्यावहारिक मराठी आणि साहित्यप्रकार -२            | 2       |
| <b>OR</b>                                               |                                                  |         |
| HIAET-121                                               | सामान्य हिंदी - II                               | 2       |
| <b>Value Education Course ( VEC)</b>                    |                                                  |         |
| VEPOT-121                                               | Democracy & Indian Constitution                  | 2       |
| <b>Co-Curricular Course (CC)</b>                        |                                                  |         |
| CCPEP-121                                               | Physical Education                               | 2       |

***Total Credits :22***