

**Cummins College of Engineering for Women**  
(An autonomous institute affiliated to Savitribai Phule pune university)  
Karve Nagar, Pune - 411 052.



**Vision**

To be globally renowned engineering institute for imparting holistic education  
and developing professional women leaders in engineering and technology

**Structure and Syllabus**

of

**F. Y. BTech**

**2023 Pattern [R1]**

## List of Abbreviations

| Abbreviation | Title                                           |
|--------------|-------------------------------------------------|
| PCC          | Programme Core Course                           |
| BSC          | Basic Science Course                            |
| ESC          | Engineering Science Course                      |
| PE           | Programme Elective Course                       |
| OE           | Open Elective                                   |
| VSEC         | Vocational and Skill Enhancement Course         |
| CC           | Co-curricular Courses / Liberal Learning Course |
| IKS          | Indian Knowledge System                         |
| VEC          | Value Education Course                          |
| RM           | Research Methodology                            |
| INTR         | Internship                                      |
| PROJ         | Project                                         |
| CEP          | Community Engagement Project                    |
| RM           | Research Methodology                            |
| Mm           | Multidisciplinary Minor                         |
| AEC          | Ability Enhancement course                      |

**First Year**

**Curriculum for UG Degree Course in BTech. Computer Engineering and  
Information Technology Programs  
(Academic Year: 2026-27 Onwards)**

**Semester-I**

| Course Code    | Course Title                                       | Teaching Scheme<br>Hours / Week |           |           | Cr        | Examination Scheme |            |           | Total Marks |
|----------------|----------------------------------------------------|---------------------------------|-----------|-----------|-----------|--------------------|------------|-----------|-------------|
|                |                                                    | L                               | T         | P         |           | ISE                | ESE        | Pr/Or     |             |
| BSC102         | Chemistry                                          | 3                               | 0         | 0         | 3         | 50                 | 50         | 0         | 100         |
| BSC103         | Linear Algebra and Univariate Calculus             | 3                               | 1         | 0         | 4         | 50                 | 50         | 0         | 100         |
| ESC102         | Basics of Electrical & Electronics Engineering     | 3                               | 0         | 0         | 3         | 50                 | 50         | 0         | 100         |
| ESC103         | Sustainable Renewable Energy                       | 3                               | 1         | 0         | 4         | 50                 | 50         | 0         | 100         |
| CC102          | Liberal Learning                                   | 1                               | 0         | 2         | 2         | 50                 | 0          | 0         | 50          |
| VSEC101L       | Programming Skills in C Language Lab               | 0                               | 0         | 4         | 2         | 25                 | 0          | 25        | 50          |
| BSC102L        | Chemistry Lab                                      | 0                               | 0         | 2         | 1         | 25                 | 0          | 0         | 25          |
| ESC102L        | Basics of Electrical & Electronics Engineering Lab | 0                               | 0         | 2         | 1         | 25                 | 0          | 0         | 25          |
| <b>Total =</b> |                                                    | <b>13</b>                       | <b>02</b> | <b>10</b> | <b>20</b> | <b>325</b>         | <b>200</b> | <b>25</b> | <b>550</b>  |

*L=Lecture, T=Tutorial, P= Practical, Cr= Credits, ISE =In Semester Evaluation, ESE =End Semester Examination, Pr/Or = Practical/Oral.*

  
**APPROVED BY**  
Secretary Academic Council  
MKSSS's Cummins College of Engineering  
For Women, Pune-411052



  
**APPROVED BY**  
Chairman Academic Council  
MKSSS's Cummins College of Engineering  
For Women, Pune-411052