

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
T. Y. BTech
(Information Technology)

2023 Pattern [R0]

List of Abbreviations

Abbreviation	Title
PC	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
Mm	Multidisciplinary Minor
AEC	Ability Enhancement course

Curriculum for UG Degree Course in BTech. Information Technology

(Academic Year: 2025-26 Onwards)

Third Year | Semester-V

Sr. No.	Course Code	Course Title	Teaching Scheme Hours /Week			Credits	Examination Scheme			Total Marks
			L	T	P		ISE	ESE	Pr/Or	
1	23PCIT501	Design and Analysis of Algorithms	3	0	0	3	50	50	0	100
2	23PCIT502	Theory of Computation	3	1	0	4	50	50	0	100
3	23PCIT503	Machine Learning	3	0	0	3	50	50	0	100
4	23PCIT504	Human Computer Interaction	2	0	0	2	25	25	0	50
5	23PEIT501	Programme Elective-I	3	0	0	3	50	50	0	100
6	23MmIT501	Multidisciplinary Minor Course 2	3	0	0	3	50	50	0	100
7	23PCIT501L	Design and Analysis of Algorithms Laboratory	0	0	2	1	25	0	25	50
8	23PCIT503L	Machine Learning Laboratory	0	0	2	1	25	0	25	50
9	23PEIT501L	Programme Elective-I Laboratory	0	0	2	1	25	0	25	50
10	23MmIT501L	Multidisciplinary Minor Course 2 Laboratory	0	0	2	1	50	0	0	50
Total =			17	01	08	22	400	275	75	750

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

23PEIT501: Program Elective-I

- A. Artificial Intelligence
- B. Multimedia Techniques
- C. Distributed Systems

23PEIT501L: Program Elective-I Laboratory

- A. Artificial Intelligence Laboratory
- B. Multimedia Techniques Laboratory
- C. Distributed Systems Laboratory

23MmIT501 Multidisciplinary Minor Course 2

- A. Green IT Infrastructure and Sustainability Metrics
- B. Space Data Analytics

23MmIT501L Multidisciplinary Minor Course 2 Laboratory

- A. Green IT Infrastructure and Sustainability Metrics Laboratory
- B. Space Data Analytics Laboratory



APPROVED BY
Secretary Academic Council
MKSSS's Cummins College of Engineering
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