



K J's EDUCATIONAL INSTITUTES

**Trinity College of Engineering & Research,
Pune, Maharashtra, India**

Accredited NAAC Grade 'A+'



**Approved by AICTE, Government of Maharashtra &
Affiliated to Savitribai Phule Pune University, Pune,
Maharashtra, India**

Faculty of Science and Technology

**National Education Policy (NEP)-2020 Compliant
Proposed Curriculum**

F. Y. B. Tech. (2025 Pattern)

(With effect from Academic Year 2025-26)

NEP 2020 Compliant Proposed Curriculum Structure
F. Y. B. Tech. (2025 Pattern)

Course Code	Course Type	Course Name	Teaching Scheme (Hrs./week)			Examination Scheme and Marks					Credits			
			Theory	Tutorial	Practical	CIE	ESE	Term work	Practical	Oral	Theory	Tutorial	Practical	Total
Semester I														
BSCF101	Basic Science Course	Linear Algebra and Differential calculus	3	1	-	40	60		-	-	3	1		4
BSCF103/ BSCF105	Basic Science Course	Applied Physics / Applied Chemistry	3	-	-	40	60		-	-	3	-	-	3
BSCF104/ BSCF106		Applied Physics Lab / Applied Chemistry Lab	-	-	2	20	30		-	-	-	-	1	1
ESCF111	Engineering Science Course	Basics of Programming Language	3	-	-	40	60	-	-	-	3	-	-	3
ESCF112		Basics of Programming Language Lab	-	-	2	20	30		-	-	-	-	1	1
ESCF113/ ESCF115	Engineering Science Course	Sustainable Engineering / Basics of Electrical and Electronics Technology	3	-	-	40	60	-	-	-	3	-	-	3
ESCF114/ ESCF116		Sustainable Engineering Lab / Basics of Electrical and Electronics Technology	-	-	2	20	30		-	-	-	-	1	1
ESCF117	Engineering Science Course	Engineering Graphics Lab	1	-	2	20	30	-	-	-	1	-	1	2
VSECF141/ VSECF142	Vocational and Skill Enhancement Course	Workshop Practices / Design Thinking and Idea Lab	-	-	2	20	30		-	-	-	-	1	1
HSSMF143	Ability Enhancement Course	Professional Communication Skills	1		2	20	30		-	-	1		1	2
LLCF145	Liberal Learning Course	Liberal Learning-I	-		2	50	-		-	-	-		1	1
Total			14	01	14	330	420		-	-	14	01	07	22

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			Theory	Tutorial	Practical	CIE	ESE	Term work	Practical	Oral	Theory	Tutorial	Practical	Total
Semester II														
BSCF102	Basic Science Course	Integral calculus	3	1	-	40	60	-	-	-	3	1	-	4
BSCF105/ BSCF103	Basic Science Course	Applied Chemistry / Applied Physics	3	-	-	40	60	-	-	-	3	-	-	3
BSCF106/ BSCF104		Applied Chemistry Lab / Applied Physics Lab	-	-	2	20	30	-	-	-	-	-	1	1
ESCF121	Engineering Science Course	Artificial Intelligence and Programming	3	-	-	40	60	-	-	-	3	-	-	3
ESCF122		Artificial Intelligence and Programming Lab	-	-	2	20	30	-	-	-	-	-	1	1
ESCF115/ ESCF113	Engineering Science Course	Basics of Electrical and Electronics Technology / Sustainable Engineering	3	-	-	40	60	-	-	-	3	-	-	3
ESCF116/ ESCF114		Basics of Electrical and Electronics Technology Lab / Sustainable Engineering Lab	-	-	2	20	30	-	-	-	-	-	1	1
PCCF131/ PCCF132/ PCCF133/ PCCF134	Program Core Course	Sensors and Electronic Systems / Open Source Operating System Programming / Fundamental of Building Planning / CAD	1	-	2	20	30	-	-	-	1	-	1	2
VSECF142/ VSECF141	Vocational and Skill Enhancement Course	Design Thinking and Idea Lab / Workshop practices	-	-	2	20	30	-	-	-	-	-	1	1
HSSMF144	Indian Knowledge System	Indian Knowledge System	-	-	2	20	30	-	-	-	-	-	2	2
LLCF146	Liberal Learning Course	Liberal Learning-II	-	-	2	50	-	-	-	-	-	-	1	1
Total			13	01	14	330	420				13	01	08	22