KUMARAGURU COLLEGE OF TECHNOLOGY,

An autonomous Institution affiliated to Anna University, Chennai

COIMBATORE – 641 049.

B.Tech., FASHION TECHNOLOGY

REGULATIONS R2024

(From 2024-2025 Batch onwards)

CURRICULUM

I to VIII

VISION

Achieve academic proficiency, promote scholarly excellence and nurture skillful competence of International standards

MISSION

M1: Deliver holistic education fosters expertise in Design, Manufacturing, and Entrepreneurship.
M2: Promote design thinking, research, creativity, and sustainable innovation using emerging technologies.
M3: Engage in partnerships with global fashion industry, to offer students real-world exposure and face industry challenges
M4: To empower students with technical expertise and a profound commitment to sustainability and social impact.

PROGRAM EDUCATIONAL OBJECTIVES

PEO 1: Professional Competence and Global Readiness
Graduates will demonstrate strong foundational knowledge and practical skills in design, manufacturing, and management, enabling them to pursue successful careers in fashion and fashion-related industries at national and international levels.

PEO 2: Innovation and Sustainable Development
Graduates will apply creative thinking and explore emerging technologies to develop innovative and sustainable solutions that address technical, societal and environmental challenges.

PEO 3: Lifelong Learning and Leadership
Graduates will engage in continuous learning, collaborate with global industry partners, and evolve into responsible leaders committed to ethical practices and social impact.

PROGRAM SPECIFIC OBJECTIVES (PSOs)

Graduates of B.Tech (Fashion Technology) will be able to

PSO1: Excel in their professional career related to fashion, design, manufacturing, management, and research

PSO2: Identify problems in the apparel domain and provide techno- economic solutions focusing on the needs of industry and society.

PSO3: Imbibe awareness on the significance of professional and social ethics in their professional career.

PROGRAM OUTCOMES (POs)

Engineering Graduates will be able to:

PO1: Engineering Knowledge: Apply knowledge of mathematics, natural science, computing, engineering fundamentals and an engineering specialization as specified in respectively to develop to the solution of complex engineering problems.

PO2: Problem Analysis: Identify, formulate, review research literature and analyze complex engineering problems reaching substantiated conclusions with consideration for sustainable development.

PO3: Design/Development of Solutions: Design creative solutions for complex engineering problems and design/develop systems/components/processes to meet identified needs with consideration for the public health and safety, whole-life cost, net zero carbon, culture, society and environment as required.

PO4: Conduct Investigations of Complex Problems: Conduct investigations of complex engineering problems using research-based knowledge including design of experiments, modelling, analysis & interpretation of data to provide valid conclusions.

PO5: Engineering Tool Usage: Create, select and apply appropriate techniques, resources and modern engineering & IT tools, including prediction and modelling recognizing their limitations to solve complex engineering problems.

PO6: The Engineer and The World: Analyze and evaluate societal and environmental aspects while solving complex engineering problems for its impact on sustainability with reference to economy, health, safety, legal framework, culture and environment.

PO7: Ethics: Apply ethical principles and commit to professional ethics, human values, diversity and inclusion; adhere to national & international laws.

PO8: Individual and Collaborative Team work: Function effectively as an individual, nd as a member or leader in diverse/multi-disciplinary teams.

PO9: Communication: Communicate effectively and inclusively within the engineering community and society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations considering cultural, language, and learning differences

PO10: Project Management and Finance: Apply knowledge and understanding of engineering management principles and economic decision-making and apply these to one's own work, as a member and leader in a team, and to manage projects and in multidisciplinary environments.

PO11: Life-Long Learning: Recognize the need for and have the preparation and ability for i) independent and life-long learning ii) adaptability to new and emerging technologies and iii) critical thinking in the broadest context of technological change.

KUMARAGURU COLLEGE OF TECHNOLOGY
FASHION TECHNOLOGY
REGULATION 2024

B.Tech -Fashion Technology - Curriculum

Semester I

S.No	Course code	Course Title	Course Type	Course Category	L	T	P	J	C
1	24HST101	Heritage of Tamils	Theory	HS	1	0	0	0	1
2	24MAI112	Computational Linear Algebra and Calculus	Embedded	BS	3	0	2	0	4
3	24CYI105	Textile and Apparel Chemistry	Embedded	BS	3	0	2	0	4
4	24CSI101	Logical Thinking and Problem Solving	Embedded	ES	3	0	2	0	4
5	24ADP001	Basics of Artificial Intelligence	Practical	ES	0	0	2	0	1
6	24FTI101	Fashion Elements	Embedded	PC	2	0	2	0	3
7	24INP102	Innovation Practicum - 1	Practical	ES	0	0	2	0	1
8	24HSP111	Holistic Wellness - 1	Practical	HS	0	0	2	0	1
9	24INP101	Design Thinking	Practical	HS	0	0	2	0	1
10	24INO1--	FCLF – General Stack -1	Practical	OE	0	0	2	0	1
								Total Credits	**21**
								Total Contact Hours/week	**30**

Semester II

S.No	Course code	Course Title	Course Type	Course Category	L	T	P	J	C
1	24HST102	Tamils and Technology	Theory	HS	1	0	0	0	1
2	24HST103/ 24HST104	Effective Communication/ Professional Communication	Theory	HS	2	0	0	0	2
	24HSJ102	Fluency through practice	Practical	HS	0	0	0	4	
3	24MAI122	Advanced Computational Calculus	Embedded	BS	3	0	2	0	4
4	24PHI103	Applied Physics for Textile Technology	Embedded	BS	3	0	2	0	4
5	24CYT106	Functional Materials for Apparels	Theory	ES	3	0	0	0	3
6	24MEI101	Engineering Graphics	Embedded	ES	2	0	2	0	3
7	24FTI102	Textile Material Science	Embedded	ES	2	0	2	0	3
8	24INP103	Innovation Practicum - 2	Practical	ES	0	0	2	0	1
9	24HSP112	Holistic Wellness - 2	Practical	HS	0	0	2	0	1
10	24INO1--	FCLF – General Stack - 2	Practical	OE	0	0	2	0	1
								Total Credits	**23**
								Total Contact Hours/week	**30**

Semester III									
S.No	**Course code**	**Course Title**	**Course Type**	**Course Category**	**L**	**T**	**P**	**J**	**C**
1	24HSP005	Mastering Conversations	HS	Practical	0	0	2	0	1
2	24MAI232	Applied statistics for Engineers	BS	Embedded	3	0	2	0	4
3	24FTT201	Fashion Pattern Making	PC	Theory	3	0	0	0	3
4	24FTP202	Pattern Drafting Laboratory	PC	Practical	0	0	2	0	1
5	24FTT203	Concepts of Fashion Formulation	PC	Theory	3	0	0	0	3
6	24FTP204	Fashion Illustration Laboratory	PC	Practical	0	0	2	0	1
7	24FTT205	Yarn and Fabric Manufacturing	PC	Theory	3	0	0	0	3
8	24FTT206	Sewing Techniques and Apparel Design	PC	Theory	3	0	0	0	3
9	24FTP207	Garment components Laboratory	PC	Practical	0	0	2	0	1
10	24INP201	Innovation Practicum - 3	ES	Practical	0	0	2	0	1
11	24INM201	Universal Human Values II: Understanding Harmony	HS	Theory	1	0	0	0	1
12	24INO	FCLF - General Stack - 3	OE	Practical	0	0	2	0	1
13	24FTJ208	Internship -I	PRJ	Internship	0	0	0	2	1
Total Credits									**24**
Total Contact Hours/week									**30**

Semester IV									
S.No	**Course code**	**Course Title**	**Course Type**	**Course Category**	**L**	**T**	**P**	**J**	**C**
1	24HSP006	Group Discussion and Presentation Skills	HS	Practical	0	0	2	0	1
2	24FTT208	Knitting and Nonwovens	PC	Theory	3	0	0	0	3
3	24FTI209	Woven Fabrics and Decorative Techniques	PC	Embedded	2	0	2	0	3
4	24FTI210	Textile chemical processing and finishing	PC	Embedded	2	0	2	0	3
5	24FTT211	Apparel Design and Pattern Drafting Techniques	PC	Theory	3	0	0	0	3
6	24FTP212	Apparel Construction Laboratory	PC	Practical	0	0	2	0	1
7	24FTP213	Apparel CAD Laboratory	PC	Practical	0	0	2	0	1
8	24FTT214	Apparel Machinery and Mechanism	ES	Theory	3	0	0	0	3
9	24INM202	Environmental Science and Sustainability	BS	Theory	2	0	0	0	2
10	24INP202	Innovation Practicum - IV	ES	Practical	0	0	2	0	1
11	24TTO001	Apparel Graphics	OE	Practical	0	0	2	0	1
12	24TTO300	Sustainability Certifications for Textiles and Fashion	OE	Practical	0	0	2	0	1
13	24INM102	Indian Knowledge System in Science and Engineering	HS	Theory	1	0	0	0	1
Total Credits									**24**
Total Contact Hours/week									**33**

Semester V									
S.No	**Course code**	**Course Title**	**Course Type**	**Course Category**	**L**	**T**	**P**	**J**	**C**
1	24FTT301	Apparel Production Planning and Control	PC	Theory	3	0	0	0	3
2	24FTT302	Fashion Merchandising and Marketing	PC	Theory	3	0	0	0	3
3	24FTE0XX	Professional Elective I	PE	Theory	3	0	0	0	3
4	24FTE0XX	Professional Elective II	PE	Theory	0	0	0	0	3
5	24HSP013	Mastering Career Readiness	HS	Practical	0	0	2	0	1
6	24FTT303	Sustainable Fashion and Circular Design	HS	Theory	2	0	0	2	3
7	24FTP304	Designer wear Lab	PC	Practical	0	0	2	0	1
8	24FTP305	Virtual Prototyping I	PC	Practical	0	0	2	0	1
9	24INM301	Constitution Of India	HS	Theory	1	0	0	0	0
10	24TTOXX	FCLF – Technical Stack -2	OE	Practical	0	0	2	0	1
11	24TTOXX	FCLF – Emerging Stack - 2	OE	Practical	0	0	2	0	1
12	24FTJ306	Internship II	PRJ	Internship	0	0	0	2	2
Total Credits									**22**
Total Contact Hours/week									**30**

Semester VI									
S.No	**Course code**	**Course Title**	**Course Type**	**Course Category**	**L**	**T**	**P**	**J**	**C**
1	24FTT306	Industrial Engineering in Apparel Industry	PC	Theory	3	0	0	0	3
2	24FTT307	Textile & Apparel Quality Evaluation	PC	Theory	3	0	0	0	3
3	24FTT308	Apparel Costing	PC	Theory	3	0	0	0	3
4	24FTEXXX	Professional Elective III	PE	Theory	3	0	0	0	3
5	24FTEXXX	Professional Elective IV	PE	Theory	3	0	0	0	3
	Indian/foreign language								
6	24HSP014	Hindi Level 1							
7	24HSP015	French Level 1	HS	Practical	0	0	4	0	2
8	24HSP016	German Level 1							
9	24HSP017	Japanese Level 1							
10	24FTP310	Fashion Portfolio	PC	Practical	0	0	2	0	1
11	24FTP311	Virtual Prototyping II	PC	Practical	0	0	2	0	1
12	24FTP312	Apparel Quality Evaluation Lab	PC	Practical	0	0	2	0	1
13	24FTTOXX	FCLF – Technical Stack -3	OE	Practical	0	0	2	0	1
14	24FTTOXX	FCLF – Energing Stack - 3	OE	Practical	0	0	2	0	1
Total Credits									**22**
Total Contact Hours/week									**29**

Semester VII									
S.No	**Course code**	**Course Title**	**Course Type**	**Course Category**	**L**	**T**	**P**	**J**	**C**
1	24FTE	Professional Elective V	PE	Theory	3	0	0	0	3
2	24FTE	Professional Elective VI	PE	Theory	3	0	0	0	3
3	24FTE	Professional Elective VII	PE	Theory	3	0	0	0	3
4	24FTT401	Apparel Brand Management	PC	Theory	2	0	0	0	2
4	24FTT402	Entrepreneurship For Fashion	HS	Theory	3	0	0	0	3
5	24FTP403	Project - Phase 1	PW	Project only	0	0	0	6	3
Total Credits									**17**
Total Contact Hours/week									**30**

Semester VIII									
S.No	**Course code**	**Course Title**	**Course Type**	**Course Category**	**L**	**T**	**P**	**J**	**C**
1	24FTP404	Project - Phase I	PW	Project only	0	0	0	0	12
Total Credits									**12**
Total Contact Hours/week									**30**

PROFESSIONAL ELELCTIVE									
DESIGN MODULE									
S.No	**Course code**	**Course Title**	**Course Type**	**Course Category**	**L**	**T**	**P**	**J**	**C**
1	24FTE001	Fashion Psychology	PE	THEORY	3	0	0	0	3
2	24FTE002	Uncovering Fashion Communication	PE	THEORY	0	3	0	0	3
3	24FTE003	Fashion Design Thinking	PE	THEORY	3	0	0	0	3
4	24FTE004	Photography	PE	THEORY	3	0	0	0	3
5	24FTE005	Handloom Technology and Products	PE	THEORY	3	0	0	0	3
TECHNOLOGY MODULE									
12	24FTE006	Quality Management in Apparel Manufacturing	PE	THEORY	3	0	0	0	3
13	24FTE007	Intimate Apparels	PE	THEORY	3	0	0	0	3
14	24FTE008	Smart Textiles and Wearable Technology in Fashion	PE	THEORY	3	0	0	0	3
15	24FTE009	Leather Garments	PE	THEORY	3	0	0	0	3
16	24FTE010	Home furnishings	PE	THEORY	3	0	0	0	3
MANAGEMENT MODULE									
6	24FTE011	Fashion Forecasting	PE	THEORY	3	0	0	0	3
7	24FTE012	Visual Merchandising	PE	THEORY	3	0	0	0	3
8	24FTE013	Fashion Boutique Management	PE	THEORY	3	0	0	0	3
9	24FTE014	Compliance Management in Apparel Industry	PE	THEORY	3	0	0	0	3
10	24FTE015	Retail Operations in Fashion Business	PE	THEORY	3	0	0	0	3