



BENNETT
UNIVERSITY
THE TIMES GROUP

NAAC
GRADE A+
ACCREDITED UNIVERSITY

School of Design

Program Structure & Curriculum

Bachelor of Design (Hons.) – Intelligent Textile Design

Year - 2026-2030

Duration: 04 Years

Vision of the Bennett University:

To be a global leader in education, research, and innovation, empowering higher learning ecosystems.

Mission of the Bennett University:

- Empower all the members of the Bennett ecosystem and provide thought leadership, focusing on nation-building and preparing our graduates to move with the Times.
- Cultivate international partnerships and collaborations with academic institutions, industry, and government organizations, and provide a rigorous and innovative education that equips students with the knowledge, skills, and ethical values required to excel in their careers.
- Foster a culture of lifelong learning, adaptability, and critical thinking, ensuring graduates are prepared to tackle challenges in all academic fields.
- Drive interdisciplinary research and innovation, pushing the boundaries of human knowledge, addressing pressing global issues, and solving real-world problems.
- Enhance a collaborative environment that encourages faculty and students to engage in research, innovation, and entrepreneurship, creating a lasting impact on society.
- Promote diversity, equity, and inclusion, ensuring that all individuals, regardless of background, feel welcomed, respected, and empowered.
- Prepare students to become global citizens, capable of addressing global challenges and contributing to the well-being of communities worldwide.
- Provide a globally connected career services network with graduate employers and alumni.
- Foster a strong sense of ethical responsibility in our graduates, emphasizing the importance of ethical conduct, sustainability, and social impact in professional practice.
- Commit to ongoing assessment and improvement of our programs and invest in modern infrastructure and advanced technology to support teaching, research, and innovation, adapting to the evolving needs of students, industries, and society.

Vision of the School of Design at Bennett University:

To be a global leader in design education, shaping ethical, empathetic, innovative designers who blend sustainability, heritage, and technology to create a better world.

Mission of the School of Design at Bennett University:

1. Empower designers with strong foundations in the design process, technology, and entrepreneurship to lead with creativity and intent.
2. Foster interdisciplinary innovation and real-world problem-solving through collaboration across fields, cultures, and contexts.
3. Champion inclusivity, sustainability, and cultural preservation by embedding ethical design practices rooted in both tradition and change.
4. Strengthen global and industry relevance through hands-on experiences, live projects, and international partnerships that prepare designers as future-ready global citizens.
5. Inculcate adaptability and lifelong learning to enable designers to evolve with a rapidly changing world.

Program Educational Objectives (PEO):

PEO1: Build a strong foundation in design, creativity, and problem-solving.

PEO2: Equip graduates with technical skills and industry-relevant tools.

PEO3: Foster adaptability to emerging technologies and sustainable practices.

PEO4: Develop entrepreneurial and collaborative skills for career success.

PEO to Mission Statement Mapping:

PEO Statements	Mission Statements				
	M1	M2	M3	M4	M5
PEO1	3	3	2	2	2
PEO2	3	2	2	3	2
PEO3	2	3	3	2	3
PEO4	3	2	2	3	3

1: Low

2: Medium

3: High

Program Outcomes (POs) and Program Specific Outcomes (PSOs):

PO1: Empathy and Human-Centered Design: Graduates will integrate empathy into the design process, considering user needs, emotions, and experiences to create meaningful and inclusive solutions.

PO2: Critical Thinking and Problem Solving: Graduates will be able to analyze complex design problems, identify design requirements, and generate innovative solutions.

PO3: Design Process Understanding: Graduates will demonstrate an understanding of the complete design process, from concept to implementation.

PO4: Radical Creativity and Innovation: Graduates will use creativity to develop novel design solutions while considering feasibility and user experience.

PO5: Craftsmanship & Technical Skills: Graduates will apply technical skills in using design tools and technologies relevant to the design industry.

PO6: Communication: Graduates will articulate design concepts effectively through visual and verbal mediums, including sketches, prototypes, and digital presentations.

PO7: Collaboration and Teamwork: Graduates will work effectively in multidisciplinary teams, showing leadership and adaptability in collaborative settings.

PO8: Ethical and Sustainable Design: Graduates will practice design with a focus on sustainability and ethical considerations.

PO9: Global and Cultural Awareness: Graduates will design with sensitivity to cultural contexts, societal needs, and historical significance.

PO10: Interdisciplinary Approach: Graduates will integrate knowledge from multiple disciplines, fostering a holistic perspective in design thinking and problem-solving to create innovative and well-informed solutions.

PO11: Industry Orientation & Professionalism: Graduates will exhibit professional behavior, including time management, effective communication, and ethical decision-making in the design industry.

PO12: Lifelong Learning and Adaptability: Graduates will demonstrate the ability to continuously learn, adapt to new technologies, and stay current in the evolving design landscape.

B. Design (Hons.) Communication Design Program Specific Outcomes (PSOs)

PSO1: Demonstrate expertise in intelligent textile systems, advanced material exploration, wearable technologies, and textile-based innovation by integrating craftsmanship with emerging technologies.

PSO2: Integrate sustainability, circular systems, smart materials, and interdisciplinary approaches to develop ethical, responsive, and future-oriented textile solutions.

PSO3: Conceptualize and execute intelligent textile applications for global contexts through research-driven design, technical experimentation, user-centered innovation, and sustainable practices.

PSO4: Develop industry-ready, entrepreneurial, and research-oriented intelligent textile strategies through prototyping, collaborative projects, technological integration, and real-world applications.

Assessment Scheme:

Components	Internal Assessment	Mid-Term Exam	End Exam	Total
Weightage %	40%	20%	40%	100%

Assessment Policies & Procedures

Deadlines & Submissions: Students must manage time effectively to meet deadlines. Absence on the day a brief is delivered does not alter submission deadlines unless an extension is formally approved.

Extensions & Special Circumstances: Students facing exceptional situations (illness, emergencies) must inform the course faculty member in advance and refer to the Student Handbook for assessment policies.

Academic Integrity: Plagiarism and academic misconduct are strictly prohibited. Refer to the Student Handbook for guidelines on ethical academic practices.

Communication & Support: If students face challenges with the module, they should approach the course tutor early for guidance. Non-academic concerns should be directed to the Student Counsellor at Student Development and Support.

Assessment Criteria: Grades are based on the quality of work, adherence to project requirements, creativity, critical analysis, and timely submission.

Curriculum Structure

Semester-I							
S.No	Course Title	Course Code	L	T	P	E	Credits
1	Drawing for Designers	2025DESN100	0	1	4	0	3
2	Elements of Design & Colour	2025DESN101	0	2	4	0	4
3	Material Exploration	2025DESN102	0	1	4	0	3
4	Photography for Designers	2025COMM100	0	1	2	0	2
5	Elective I: Introduction to Textile Fibres, Yarns & Fabric Structures/ Foundations of Textile Materials & Fabric Formation	2026ITEX100/ 2026ITEX101	0	2	4	0	4
6	History of Art & Design	2026DSMD100	0	2	2	0	3
7	Digital Design Fundamentals	2025COMM103	0	1	2	0	2
8	TREP1	2026TREP101	2	0	0	0	2
Total							23

Semester-II							
S.No	Course Title	Course Code	L	T	P	E	Credits
1	Motif, Repeat & Textile Surface Structures	2026ITEX151	0	1	2	0	2
2	Digital Futures with AI	2026IXDN151	0	1	4	0	3
3	People, Environment and Context	2025DESN152	0	1	0	3	2
4	Design Process	2025DESN151	0	2	4	0	4
5	Elective II: Basic Weaves/Fundamentals of Woven Textile Structures	2026ITEX152/ 2026ITEX153	0	2	4	0	4
6	Geometry in Design	2025DSMD151	0	1	4	0	3
7	Environmental Studies 1	2026ENVS151	2	0	0	0	2
8	TREP2	2026TREP151	1	0	0	3	2
Total							22

Semester-III							
S.No	Course Title	Course Code	L	T	P	E	Credits
1	History of Textiles	2026ITEX200	0	2	0	0	2
2	Advanced Textile Structures & Digital Weaving Inputs	2026ITEX201	0	1	2	0	2
3	Introduction to Sustainability & Circular Thinking	2026SACS202	0	1	2	0	2
4	Circular Design Strategies (Project)	2026SACS203	0	1	4	0	3
5	Studio I: Advanced Textile Materials – Material Exploration	2026ITEX204	0	1	4	0	3
6	Elective III: High-Performance Fibers & Yarns / Communication Graphics	2026ITEX205/ 2026ITEX206	3	0	0	0	3
7	SUMMER INTERNSHIP - I	NTNC	0	0	0	0	0
8	Basic Stitching	2026ITEX207	0	2	2	0	3
9	TREP3	2026TREP201	1	0	2	0	2
10	AI for All	2026AINT20X	2	0	0	0	2
Total							22

Semester-IV							
S.No	Course Title	Course Code	L	T	P	E	Credits
1	SLA (Material Culture/Field Study)	2026ITEX251	0	1	2	0	2
2	Smart and Interactive Textiles: Sensors & Wearable Electronics	2026ITEX252	0	1	2	0	2
3	Natural Fibers & Sustainable Material Cultures	2026SACS253	0	1	2	0	2
4	Sustainable Textile Systems	2026SACS254	0	2	4	0	4
5	Textile Composites & Fabric Engineering	2026ITEX254	0	1	2	0	2
6	Studio Project II Studio: Coatings, Finishes & Sustainable Applications	2026SACS255	0	2	4	0	4
7	Elective IV: Functional Dyeing, Printing & Surface Applications / Natural & Synthetic Dyeing	2026ITEX256/ 2026ITEX257	0	3	0	0	3
8	Psychology for Designer	2026DSMD251	0	2	0	0	2

9	TREP4	2026TREP252	2	0	0	0	2
Total							23

Semester-V							
S.No	Course Title	Course Code	L	T	P	E	Credits
1	High-Performance Fibers & Functional Textiles	2026ITEX300	0	1	2	0	2
2	Wearable Electronics & Interactive Textile Studio	2026ITEX301	0	1	2	0	2
3	Textile Portfolio	2026ITEX302	0	1	2	0	2
4	Ethical Production & Slow Design Systems	2026SACS303	0	1	2	0	2
5	STUDIO III: IDEA Textile Design (International Design Exploration Approach) (Smart Textile Prototype)	2026ITEX304	0	1	6	0	4
6	Elective V: Nanotechnology & Material Futures Lab / Textile Innovation & Entrepreneurship	2026ITEX305/ 2026ITEX306	0	1	4	0	3
7	Social Immersion (Summer Internship 2)	NTCC	0	0	0	6	2
8	TREP5	2026TREP301	2	0	0	0	2
Total							19

Semester-VI							
S.No	Course Title	Course Code	L	T	P	Hours	Credits
1	Smart Textile Data & AI Applications	2026ITEX351	0	1	2	0	2
2	Smart Textile Prototyping Lab & Product Detailing	2026ITEX352	0	1	2	0	2
3	Waste-to-Value Textile Innovation	2026SACS353	0	2	4	0	4
4	Studio Project IV: Advanced Textile Applications	2026ITEX354	3	0	2	0	4
5	Elective VI: Advanced Functional Printing & Hybrid Coatings	2026ITEX355/ 2026ITEX356	0	1	2	0	2
6	Elective VII: Technical Textiles & Performance Fabrics	2026ITEX357/ 2026ITEX358	0	1	2	0	2

7	Immersive Design in Textiles	2026ITEX359	0	2	0	0	2
8	Interdisciplinary Project	2026DSMD351	0	2	0	0	2
9	TREP6	2026TREP351	0	0	0	6	2
Total							22

Semester-VII							
S.No	Course Title	Course Code	L	T	P	E	Credits
1	Policy, Climate & Circular Economy for Textiles	2026SACS400	0	2	4	0	4
2	Design for Sustainable Textile Futures	2026SACS401	0	1	2	0	2
3	Elective VIII: Advanced Textile Applications: Automotive / Medical / Geotextiles	2026ITEX402/ 2026ITEX403	0	1	2	0	2
4	Elective IX: Protective & Performance Textiles / Visual Merchandising	2026ITEX404/ 2026ITEX405	0	1	2	0	2
5	Circular Textile Systems & Regenerative Design	2026SACS406	0	0	0	6	2
6	Design Research Methodology	2026DESN400	0	2	0	0	2
7	Textile Entrepreneurship & Technology Ventures	2026ITEX407	0	0	4	0	2
8	Environmental Studies- II	2026ENVS401	2	0	0	0	2
9	Textile Industry Internship (Advanced Textiles & Craft-Tech)	2026ITEX408	0	0	0	6	2
Total						540	20

Semester-VIII							
S.No	Course Title	Course Code	L	T	P	E	Credits
1	Design Research for Advanced Textile Systems / Independent Project	2026ITEX451/ 2026ITEX452	0	2	0	3	3
2	Intellectual Property Rights for Design	2026DSMD451	0	2	0	0	2
3	Creative Direction for Smart & Sustainable Textile Collection	2026ITEX451	0	1	0	3	2
4	Sustainability Portfolio & Documentation	2026SACS452	0	1	0	3	2
5	Intelligent Textile Design Graduation Project	2026ITEX453	0	2	0	30	12
Total							21

