



APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

(A State Government University)

Bachelor of Design (B. Des)

Curriculum -2024

Semester I to VIII

Branch Code: BD

Ambady Nagar, Sreekaryam

Thiruvananthapuram- 695016

FIRST SEMESTER (July-December)														
5 Days Compulsory Induction Program														
Sl. No:	Slot	Course Code	Course Category	Course Title	Credit Structure				SS	Total Marks			Credits	Hrs./Week
					L	T	S	P		CIA	ESE	EJ		
1	A	BDPCS101	PCS	Art and Design Fundamentals -1	0	0	10	0	10	60	0	40	10	10
2	B	BDPCT102	PCC	Visual fundamentals	3	0	0	0	6	60	40	0	3	3
3	C	BDPCL103	PCC	Material Exploration -1	0	0	0	6	6	100	0	0	2	6
4	D	BDPCS104	PCC	Photography	0	1	1	0	1.5	100	0	0	2	2
5	E	BDAEL105	AEC	Communication skills	0	2	0	0	1	100	0	0	2	2
6	F	BDAEL106	AEC	Digital skills- I	0	1	0	3	3.5	100	0	0	2	4
7	H (S1/S2)	UCSEM129	SEC	Digital 101(NASSCOM)	MOOC*				2	-	-		-	-
Total									28/ 30				21	29

- L-T-S-P: Lecture-Tutorial-Studio -Practical
- SS (Self Study) Hours= 2L+0.5 T+S+ P
- CIA: Continuous Internal Assessment, ESE: End Semester Examination, EJ -External Jury

SECOND SEMESTER (January-June)														
Sl. No:	Slot	Course Code	Course Category	Course Title	Credit Structure				SS	Total Marks			Credits	Hrs./Week
					L	T	S	P		CIA	ESE	EJ		
1	A	BDPCS201	PCS	Art and Design Fundamentals- 2	0	0	10	0	10	60	0	40	10	10
2	B	BDPCT202	PCC	History of Art	2	0	0	0	4	60	40	0	2	2
3	C	BDPCL203	PCC	Material Exploration- 2	0	0	0	6	6	100	0	0	2	6
4	D	BDPCL204	PCC	Typography	0	1	0	3	3.5	100	0	0	2	4
5	E	BDPCS205	PCC	Moving Image Design	0	1	2	0	2.5	100	0	0	3	3
6	F	BDAEL206	AEC	Digital skills II	0	1	0	3	3.5	100	0	0	2	4
7	H (S1/S2)	UCSEM129	SEC	Digital 101(NASSCOM)	MOOC*				2	-	-		1	-
Total									30/32				22	29

Digital 101 (NASSCOM)		
Sl. No:	Technologies Covered	Hours
1	Artificial intelligence and Big Data Analytics (AI/BDA)	11
2	Internet of Things (IoT)	2.5
3	Cyber Security	2.5
4	Block Chain	2.5
5	Robotic Process Automation	1.5
6	Augmented Reality and Virtual Reality (AR and VR)	2.5
7	Cloud Computing	2.5
8	3 D Printing and Modelling	2
9	Web, Mobile Dev and Marketing	2
10	Responsible AI	1
	Total Hours	30

***Skill Enhancement Course:** Digital 101 is an introductory Massive Open Online Course (MOOC) offered by NASSCOM. It is designed to provide students with foundational knowledge and skills in digital technologies, preparing them for further studies and careers in the digital domain. By incorporating the Digital 101 course into the curriculum, KTU ensures that all students gain valuable digital skills early in their academic journey, enhancing their readiness for advanced courses and future careers in technology.

Course Registration and Completion:

- Students have the flexibility to register and complete the Digital 101 course either in their first semester (S1) or second semester (S2). The credit for this course (1 credit) will be officially recorded in the second semester grade card.

THIRD SEMESTER (July-December)

Sl. No:	Slot	Course Code	Course Category	Course Title	Credit Structure				SS	Total Marks			Credits	Hrs./Week
					L	T	S	P		CIA	ESE	EJ		
1	A	BDPCS301	PCS	Design Studio- I	0	0	10	0	10	60	0	40	10	10
2	B	BDPCT302	PCC	History of Design	2	0	0	0	4	60	40	0	2	2
3	C	BDPCT303	PCC	Design Methodology	2	0	0	0	4	60	40	0	2	2
4	D	BDPCS304	PCC	Form Studies	0	1	3	0	3.5	100	0	0	4	4
5	E	BDPCS305	PCC	Interaction Design	0	1	3	0	3.5	100	0	0	4	4
6	F	BDPEL31N	PEC	Elective -1	0	1	0	3	3.5	100	0	0	2	4
Total									29				24	26

PROGRAM ELECTIVE 1: BDPEL31N

Slot	Course Code	Course Title	L-T-S-P	Hours	Credit
F	BDPEL311	Human Anatomy for Designers	0-1-0-3	4	2
	BDPEL312	Advanced Typography			
	BDPEL313	Storytelling and Narratives			
	BDPEL314	Basic Coding			
	BDPEL315	Product Detailing			
	BDPEL316	Wood - Material and Processes			
	BDPEL317	Textile - Material and Processes			

FOURTH SEMESTER (January-June)

Sl. No:	Slot	Course Code	Course Category	Course Title	Credit Structure				SS	Total Marks			Credits	Hrs./Week
					L	T	S	P		CIA	ESE	EJ		
1	A	BDPCS401	PCS	Design Studio -II	0	0	10	0	10	60	0	40	10	10
2	B	BDPCT402	PCC	Design and Environment	2	0	0	0	4	60	40	0	2	2
3	C	BDPEL42N	PEC	Elective-2	0	1	0	3	3.5	100	0	0	2	4
4	D	BDPEL43N	PEC	Elective-3	0	1	0	3	3.5	100	0	0	2	4
Total									21				16	20

PROGRAM ELECTIVE 2: BDPEL42N

Slot	Course Code	Course Title	L-T-S-P	Hours	Credit
C	BDPEL421	Animation Design	0-1-0-3	4	2
	BDPEL422	Information Design			
	BDPEL423	User Interface design			
	BDPEL424	Product Ergonomics			
	BDPEL425	Advance prototyping and manufacturing process			
	BDPEL426	Exhibition Design			
	BDPEL427	Metal and Plastic - Materials and Processes			
	BDPEL428	Sewing and Draping techniques			

PROGRAM ELECTIVE 3: BDPEL43N

Slot	Course Code	Course Title	L-T-S-P	Hours	Credit
D	BDPEL431	Film and Video Design	0-1-0-3	4	2
	BDPEL432	Instructional Design			
	BDPEL433	Game Design- 1			
	BDPEL434	User Experience Design			
	BDPEL435	Furniture Design			
	BDPEL436	Lighting Design			
	BDPEL437	Ceramics and Clay			
	BDPEL438	Weaving			

FIFTH SEMESTER (July-December)

FIFTH SEMESTER (July-December)														
Sl. No:	Slot	Course Code	Course Category	Course Title	Credit Structure				SS	Total Marks			Credits	Hrs./Week
					L	T	S	P		CIA	ESE	EJ		
1	A	BDPCS501	PCS	Design Studio-III	0	0	12	0	12	60	0	40	12	12
2	B	BDPCT502	PCC	Design Management	2	0	0	0	4	60	40	0	2	2
3	C	BDPCS503	PCC	Design and Technology	0	2	2	0	2.5	100	0	0	4	4
4	D	BDPEL54N	PEC	Elective- 4	0	1	0	3	3.5	100	0	0	2	4
Total									22				20	22

PROGRAM ELECTIVE 4: BDPEL54N

Slot	Course Code	Course Title	L-T-S-P	Hours	Credit
D	BDPEL541	Sound Design	0-1-0-3	4	2
	BDPEL542	Branding Design			
	BDPEL543	Game Design -2			
	BDPEL544	Augmented and Virtual Reality Design			
	BDPEL545	Transportation Design			
	BDPEL546	Visual Merchandising			
	BDPEL547	Design for Craft			
	BDPEL548	Product and Fashion Photography			

SIXTH SEMESTER (January-June)

Sl. No:	Slot	Course Code	Course Category	Course Title	Credit Structure					Total Marks			Credits	Hrs./Week
					L	T	S	P	SS	CIA	ESE	EJ		
1	A	BDPCS601	PCS	Design Studio- VI	0	0	12	0	12	60	0	40	12	12
2	B	BDPCT602	PCC	Design Research	2	0	0	0	4	60	40	0	2	2
3	C	BDPES65N	PEC	Elective- 5	0	1	2	0	2.5	100	0	0	3	3
4	D	BDPES66N	PEC	Elective- 6	0	1	2	0	2.5	100	0	0	3	3
Total									21				20	20

PROGRAM ELECTIVE 5: BDPES65N

Slot	Course Code	Course Title	L-T-S-P	Hours	Credit
C	BDPES651	Project planning and Finance	0-1-2-0	3	3
	BDPES652	Graphics and Print making			
	BDPES653	Game Design- 3			
	BDPES654	Parametric Design			
	BDPES655	Interaction Design- 1			
	BDPES656	Advances in Technology and Trend monitoring			
	BDPES657	Service Design			
	BDPES658	Niche Journalism			

PROGRAM ELECTIVE 6: BDPES66N

Slot	Course Code	Course Title	L-T-S-P	Hours	Credit
D	BDPES661	Business Models	0-1-2-0	3	3
	BDPES662	Publication Design			
	BDPES663	Experiential Design			
	BDPES664	Interaction Design- 2			
	BDPES665	Sustainability in Design			
	BDPES666	Packaging Design			
	BDPES667	Indian Design Culture			
	BDPES668	Design of Toys			

SEVENTH SEMESTER (July-December)

Sl. No:	Slot	Course Code	Course Category	Course Title	Credit Structure				SS	Total Marks			Credits	Hrs./Week
					L	T	S	P		CIA	ESE	EJ		
1	G	BDIBI701	IBL	Internship	-	-	-	-	-	-	-	100	20	-
Total									-				20	-

EIGHTH SEMESTER (January-June)

Sl. No:	Slot	Course Code	Course Category	Course Title	Credit Structure				SS	Total Marks			Credits	Hrs./Week
					L	T	S	P		CIA	ESE	EJ		
1	I	BDPCP801	PCP	Thesis and Viva Voce	-	-	-	-	-	60	-	40	24	-
Total									-				24	-

Activity Points				
Sl. No.	Group	Courses	Credits	Minimum Credit Requirements
1	I	NSS, NCC, NSO (National Sports Organization)	1 (40 Points)	3 Credits (One credit from each Group)
2		Arts/Sports/Games		
3		Union/Club Activities		
4	II	English Proficiency Certification (TOFEL, IELTS, BEC etc)	1 (40 Points)	
5		Aptitude Proficiency Certification (GRE, CAT, GMAT etc)		
6		Short Term Internship (Minimum 2 weeks), Training (Minimum 2 weeks), Conferences/Paper Presentation/ Workshop Activities/ Professional Body Activities, Participation in University level/State Level/ National Level Hackathons		
7	III	Journal Publication, Patents, Start-Up, Innovation, Winners of National/ International Level Hackathons	1 (40 Points)	
8		Skilling Certificates (Approved by the University)		

- Students are required to acquire a minimum of 120 activity points, with at least 40 points per group, to fulfill the curriculum requirement of 3 activity credits.

Course Classification and Overall Credit Structure			
Sl. No.	Category/Knowledge Segment	Code	Credits
1	Programme Core Course	PCC	38
2	Programme Elective Course	PEC	14
3	Programme Core Studio	PCS	64
4	Programme Core Project	PCP	24
5	Internship Based Learning	IBL	20
6	Ability Enhancement Course	AEC	6
7	Skill Enhancement Course	SEC	1
8	Mandatory Student Activities	MSA	3
Total Mandatory Credits			170

Course Coding Pattern for B. Des Degree Curriculum

In the B. Des (Bachelor of Design) degree curriculum, each course is identified by a unique course code. This code is a combination of letters and numbers designed to serve as a shorthand reference for the course. The course code consists of eight alphanumeric characters, with the format being:

Format: [BDXXCSNN]

- **First Five Characters (BDXXC):**
 - BD: Represents the B.Des programme.
 - XX: Represents the first two letters of Course Category Code or the knowledge segment to which the course belongs to. These letters will vary based on the on the Course Category.
 - C: Denotes the nature of the course.
 - T: Theory
 - L: Lab
 - P: Project
 - S: Studio
 - I: Industrial Exposure Training
- **The last three characters (SNN) will be digits, providing a unique numerical identifier for the course:**
 - S- Semester Number (It can have a number from 1 to 8) in which the course is offered
 - NN- Provides a unique numerical identifier for the course within that semester. This sequence number helps distinguish between different courses offered in the same semester.

Example Course Codes:

- **BDPCS101:**
 - **BD:** B. Des programme
 - **PC:** Programme Core Course
 - **S:** Studio course
 - **1:** Offered in the 1st semester
 - **01:** The first course in the sequence for that semester
- **BDPCT602:**
 - **BD:** B. Des programme
 - **PC:** Programme Core Course
 - **T:** Theory course
 - **6:** Offered in the 6th semester
 - **02:** The second course in the sequence for that semester