

**Teaching Scheme for B. Des.
(Courses/Credit Distribution-2023)**

FIRST YEAR

Semester-I

Course Code	Subject	Credits	L	T	P	Category
	Orientation and Introduction to Discipline (1 Credit)	2	1	0	0	
	World of Design	3	2	1	0	DEPARTMENTAL CORE COURSE
	Sketching 2D/3D & Rendering	4	2	0	4	DEPARTMENTAL CORE COURSE
	Tinkering Studio	3	1	0	4	ENGINEERING SCIENCE COURSE
	Communication Skill & Ethics (HSM-I)	3	2	0	2	HSM
	Materials and Manufacturing	3	2	0	2	ENGINEERING SCIENCE COURSE
	Engineering Drawing and CAD	4	2	0	4	ENGINEERING SCIENCE COURSE
	Environment Science	1	1	0	0	GENERAL SCIENCE
	Total	23				

Semester-II

Course Code	Subject	Credits	L	T	P	Category
	Design Thinking	3	2	1	0	DEPARTMENTAL CORE COURSE
	Creative Visualization Techniques	4	2	0	4	DEPARTMENTAL CORE COURSE
	Principles and Elements of Design	3	2	0	2	DEPARTMENTAL CORE COURSE
	Introduction to Sustainable Design	3	2	0	2	DEPARTMENTAL CORE COURSE
	Design Case Studies	3	2	0	2	DEPARTMENTAL CORE COURSE
	Basics of Computer Graphics	3	2	0	2	ENGINEERING SCIENCE COURSE
	Design Project-I (Problem Identification and Analysis)	2	0	0	4	Project
	Universal Human Value	1	1	0	0	GENERAL SCIENCE
	Total	22				

SECOND YEAR

Semester III

Course Code	Subject	Credits	L	T	P	Category
	Mathematics	4	3	1	0	BASIC SCIENCE COURSE
	Design Arts and Aesthetics	4	3	0	2	DEPARTMENTAL CORE COURSE
	Basics of Interactive Design	4	3	0	2	DEPARTMENTAL CORE COURSE
	Physical Ergonomics	4	3	0	2	DEPARTMENTAL CORE COURSE
	Programming for Designers	4	3	0	2	DEPARTMENTAL CORE COURSE
	Design Project-II (Creative Exploration)	2	0	0	4	Project
	Total	22				

Semester IV

Course Code	Subject	Credits	L	T	P	Category
	Product Design & Development	4	3	0	2	DEPARTMENTAL CORE COURSE
	Form and Product Photography	4	3	0	2	DEPARTMENTAL CORE COURSE
	Cognitive Ergonomics	4	3	0	2	DEPARTMENTAL CORE COURSE
	Form Language	4	2	0	4	DEPARTMENTAL CORE COURSE
	Department Elective Course-I	4	2	0	4	DEPARTMENTAL ELECTIVE COURSE
	Design Project-III (Prototyping and Testing)	2	0	0	4	Project
	Total	22				

THIRD YEAR

Semester V

Course Code	Subject	Credits	L	T	P	Category
	AI in Design	3	2	0	2	DEPARTMENTAL CORE COURSE
	Industrial Design	4	3	0	2	DEPARTMENTAL CORE COURSE
	Design Forecasting and Trend Research	3	2	0	2	DEPARTMENTAL CORE COURSE
	Design, Media and Technology	4	3	0	2	DEPARTMENTAL CORE COURSE
	Department Elective Course-II	4	3	1	0	DEPARTMENTAL ELECTIVE COURSE
	Minor Project (Collaborative Design Project)	2	0	0	4	Project
	Total	20				

Semester VI

Course Code	Subject	Credits	L	T	P	Category
	Internship (Optional) *	12				Internship
	Students opting for course work will do Dept. Electives (8 credits), Project work (4 credits)					
	Total	12				

*Internship Seminar presentations may be held a week before the date of Registration in Semester-I of 4th Year

FOURTH YEAR

Semester VII

Course Code	Subject	Credits	L	T	P	Category
	HSM-II	4				HSM
	Department Elective Course-III	4	3	1	0	DEPARTMENTAL ELECTIVE COURSE
	Department Elective Course-IV	4	3	1	0	DEPARTMENTAL ELECTIVE COURSE
	Major Project-I	3	0	0	6	Project
	Open Elective Course-I	4				OPEN ELECTIVE COURSE
	Open Elective Course-II	4				OPEN ELECTIVE COURSE
	Total	23				

*Evaluation needs to be carried out in next semester

Semester VIII

Course Code	Subjects	Credits	L	T	P	Category
	HSM-III	4				HSM
	Department Elective Course-V	4	3	1	0	DEPARTMENTAL ELECTIVE COURSE
	Department Elective Course-VI	4	3	0	2	DEPARTMENTAL ELECTIVE COURSE
	Open Elective Course-III	4				OPEN ELECTIVE COURSE
	Proficiency	2				Proficiency
	Major Project-II	4	0	0	8	Project
	Total	22				

List of Electives

Department Elective-I

- Nature and Form
- Animation Design

Department Elective-II

- Supply Chain management
- Materials and Design
- Material Management
- Operations Research

Department Elective-III

- Product Semantics
- Product Life Cycle Analysis

Department Elective-IV

- Business Process Reengineering
- Entrepreneurship
- Technology Management

Department Elective-V

- Quality & Reliability Engineering
- Value Engineering
- Design Research Methodology

Department Elective-VI

- Universal Design
- Applied Ergonomics
- 3D Modelling and Prototyping
- Quality & Reliability Engineering

DEPARTMENTAL CORE COURSE	69
DEPARTMENTAL ELECTIVE COURSE	24
BASIC SCIENCE COURSE	4
GENERAL SCIENCE	2
ENGINEERING SCIENCE COURSE	13
Project	13
Internship	12
OPEN ELECTIVE COURSE	12
HSM	11
Proficiency	2
Orientation	2
Total	164