

CBSE | DEPARTMENT OF SKILL EDUCATION CURRICULUM FOR SESSION 2020-2021

DESIGN (SUBJECT CODE – 830)

JOB ROLE: ASSISTANT DESIGNER

RATIONALIZED CURRICULUM FOR CLASS XII

SESSION 2020-2021

Total Marks: 100 (Theory-60 + Practical-40)

	UNITS	NO. OF HOURS for Theory and Practical		MAX. MARKS for Theory and Practical
Part A	Employability Skills			
	Unit 1 : Communication Skills-IV	10		10
	Unit 2 : Self-Management Skills-IV	10		
	Unit 3 : ICT Skills-IV	10		
	Unit 4 : Entrepreneurial Skills-IV	15		
	Unit 5 : Green Skills-IV	05		
	Total	50		10
Part B	Subject Specific Skills	Theory	Practical	Marks
	Unit 1: Introduction to Design*	50	40	15
	Unit 2: Design Tools & Techniques*	15	20	10
	Unit 3: Occupational Health and Safety	15	20	10
	Unit 4: Practical workshop	30	20	15
	Total	110	100	50
Part C	Practical Work			
	Practical Examination			15
	Written Test			10
	Viva Voce			05
	Total			30
Part D	Project Work/ Field Visit/			
	Practical File/Student Portfolio			10
	Total			10
	GRAND TOTAL	260		100

DETAILED CURRICULUM/ TOPICS FOR CLASS XII

PART-A: EMPLOYABILITY SKILLS

S. No.	Units	Duration (in Hours)
1.	Unit 1: Communication Skills- IV	10
2.	Unit 2: Self-management Skills- IV	10
3.	Unit 3: Information and Communication Technology Skills- IV	10
4.	Unit 4: Entrepreneurial Skills- IV	15
5.	Unit 5: Green Skills- IV	05
	TOTAL DURATION	50

NOTE: For Detailed Curriculum/ Topics to be covered under Part A: Employability Skills can be downloaded from CBSE website.

Part-B – SUBJECT SPECIFIC SKILLS

- ❖ Unit 1: Introduction to Design
- ❖ Unit 2: Design Tools & Techniques
- ❖ Unit 3: Occupational Health and Safety
- ❖ Unit 4: Practical workshop

UNIT-1: INTRODUCTION TO DESIGN

Session 1: Design Thinking

- Human-centric approach to Design
- Research and Discovery
- Ideation
- Prototyping & Piloting
- Testing

Session 2: Design Fundamental

- Geometry and space
- Simple Product Design

***Note: To be assessed in Practicals only. No question shall be asked from this portion in Theory Exams**

UNIT-2: DESIGN TOOLS AND TECHNIQUES

Session 1: Basic Materials

- Categorization of Basic Materials and related properties
- Material Forms and Sources and measures
- Working on Basic Materials

Session 2: Basic Production Processes

- Basic Production Processes in Textile Industry
- Basic Production Processes in Wood Industry

- Basic Production Processes in Metal Industry
- Basic Production Processes in Plastic Industry

***Note : To be assessed in Practicals only. No question shall be asked from this portion in Theory Exams**

UNIT 3: OCCUPATIONAL HEALTH & SAFETY

- Safety and Health responsibility in Metal and Plastic industry
- Role of way safe inspection in the above industries.
- Hazard identification risk assessment and risk control in metal and plastic industries.
- Dealing with emergency
- Minimum 3 visits to industries related to the above areas.

UNIT 4: PRACTICAL WORKSHOP

Session 1: Knowledge Workshop

- Source and Document information on environmentally friendly design
- Project 1 : Research on a past movement of Design
- Project 2 : Photograph and report on an Architectural monument of national repute/recognition
- Project 3 :Critique the Design of display and control of a complex product such as computer/ washing medicine/ medical equipment

Session 2: Design Concept workshop

- Design concept workshop on Design for Handicapped
- Design concept workshop on Sustainable Design
- Design concept workshop on Interface Design

Session 3: Product Design workshop

- Produce Design for a product for children
- Produce Design for display and control for Senior Citizens
- Design a functional product from waste

Session 4: Digital workshop

- Introduction to Basic Design software
- Digitize images for reproduction
- Project 1: Digital workshop Adobe Photoshop
- Project 2: Digital workshop Adobe Illustrator
- Project 3: Digital workshop Adobe In-Design