

CBSE | DEPARTMENT OF SKILL EDUCATION

CURRICULUM FOR SESSION 2020-2021

MULTI MEDIA (CODE NO. – 415)

JOB ROLE: TEXTURING ARTIST

RATIONALIZED CURRICULUM FOR CLASS–X FOR SESSION 2020-21

Total Marks: 100 (Theory-50 + Practical-50)

	UNITS	NO. OF HOURS for Theory and Practical 200		MAX. MARKS for Theory and Practical 100
Part A	Employability Skills			
	Unit 1 : Communication Skills-II	10		10
	Unit 2 : Self-Management Skills-II	10		
	Unit 3 : ICT Skills-II	10		
	Unit 4 : Entrepreneurial Skills-II	15		
	Unit 5 : Green Skills-II	05		
	Total	50		10
Part B	Subject Specific Skills	Theory (In Hours)	Practical (In Hours)	Marks
	Unit 1: Surfaces and Materials	30	15	9
	Unit 2: Shading and Texturing	30	15	8
	Unit 3: Texturing in Photoshop and Autodesk MAYA	35	25	7
		Total	95	55
Part C	Practical Work			
	Practical Examination			15
	Written Test			10
	Viva Voce			10
		Total		
Part D	Project Work/Field Visit			
	Practical File/ Student Portfolio			10
	Viva Voce			05
		Total		
	GRAND TOTAL		200	100

DETAILED CURRICULUM/TOPICS:

Part-A: EMPLOYABILITY SKILLS

S. No.	Units	Duration in Hours
1.	Unit 1: Communication Skills-II	10
2.	Unit 2: Self-management Skills-II	10
3.	Unit 3: Basic Information and Communication Technology Skills-II	10
4.	Unit 4: Entrepreneurial Skills-II	15
5.	Unit 5: Green Skills-II	05
TOTAL		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: SURFACES AND MATERIALS

LEARNING OUTCOMES	THEORY	PRACTICAL
1. Identify the characteristics of the real life surfaces	<ul style="list-style-type: none">Real life surfaces in the context of texturing	<ul style="list-style-type: none">Demonstration of characteristics of real life surfaces
2. Describe the various 3D surfaces and material	<ul style="list-style-type: none">3D surfaces and material in the context of texturing	<ul style="list-style-type: none">Demonstration of the characteristics of real 3D surfaces and material
3. Identify the properties of the surface and material	<ul style="list-style-type: none">Properties of surfaces and material in the context of texturing	<ul style="list-style-type: none">Explanation of the properties of material and their effect on texturing
4. Explain the effect of lighting conditions on surfaces	<ul style="list-style-type: none">Reaction of surfaces to varying lighting conditions	<ul style="list-style-type: none">Demonstration of effects of lighting conditions on different surfaces

Unit 2: Shading and Texturing

LEARNING OUTCOMES	THEORY	PRACTICAL
1. Identify surface shading properties	<ul style="list-style-type: none">Types of surface shading properties	<ul style="list-style-type: none">Differentiation of colour and transparency, specular and reflection
2. Describe Maya material	<ul style="list-style-type: none">Surface, displacement and volumetric materials	<ul style="list-style-type: none">Explanation of the Maya materialDemonstration of double side shaded surface, layer texture and layer shader
3. Describe assigning and creation material	<ul style="list-style-type: none">Creation and assigning materials by the use of hyper shade in MAYA or 3Ds MAX	<ul style="list-style-type: none">Demonstration of texturing using hyper shade in MAYAAssigning separate material to a group of faces
4. Describe various texture maps	<ul style="list-style-type: none">Realistic texturing	<ul style="list-style-type: none">Demonstration of the use of texturing maps
5. Describe shading network	<ul style="list-style-type: none">Shading network in MAYA	<ul style="list-style-type: none">Demonstration of the use of shading network in MAYA

Unit 3: Texturing in Photoshop and Autodesk Maya

LEARNING OUTCOMES	THEORY	PRACTICAL
1. Create colour map	<ul style="list-style-type: none"> Process of creating diffuse map in photoshop Unrapping the 3D Polygon Object. <u>(To be assessed in practicals only, No question to be asked in theory examination from this portion)</u> 	<ul style="list-style-type: none"> Differentiation of pixels and resolution Demonstration of creating diffuse map
2. Create bump map and use desaturate command	<ul style="list-style-type: none"> Creating bump in MAYA map in MAYA Use of desaturate command and high pass filter 	<ul style="list-style-type: none"> Demonstration of the process to desaturate and high pass filter
3. Create specular map	<ul style="list-style-type: none"> Use of specular maps Process of creating specular maps in photoshop and MAYA Export the UV map to Adobe Photoshop and paint the Texture on UV map <u>(To be assessed in practicals only, No question to be asked in theory examination from this portion)</u> Return to MAYA and observe the Texture on 3D objects 	<ul style="list-style-type: none"> Demonstration of texturing using hyper shade Assignment of separate material to a group of faces
4. Demonstrate knowledge of creating seamless textures	<ul style="list-style-type: none"> Diffuse and opacity map, specular, reflection and glow map, hump, normal and displacement map 	<ul style="list-style-type: none"> Demonstration of the process of displacement, normal, bump map, reflection, specular and glow map Create textured and painted 3D object, like Pen, Pencil, Chair, House, Tree, Human Face, Human Body in MAYA