



МО	DULE: AUDIVOVISUAL AND MULTIMEDIA
General objective	Train and qualify the students to be able to carry out 2D and 3D Shape designs, as well as to get working techniques to achieve project Layouts and designs with high visual power. The students will carry out the whole process to create a design: Outline the design to carry out Three-dimensional creation of the object Product presentation
Specific objectives	 Generate the necessary wire geometry to get 3D geometric shapes Use the necessary mathematical calculations to add and subtract volumes and for the dynamic edition of the design Previous outline of the design to carry out Master the layout techniques for a professional outcome
Units Each unit should be described in detail in the following template	 Colour, Visualisation and Dynamics of the Shapes Geometric shapes and abstract concepts 2D and 3D Shape Design Layout and Graphic composition Layout and Graphic composition (II)
Learning outcomes of the Module	 The student will be able to classify the object colours by their texture and the physical properties of the materials they are made of. The student will be able to carry out impact surveys of light on colour through the observation of the object in different situations, such as the spatial point of view. The student will be able to elaborate the design and digital edition of the geometric shapes planned for their further use in volumetric generation. The student will be able to carry out digitally the Volumetric design of the planned project, operating with specific computing equipments and applications in the creation processes: AutoCAD, Inventor, Solid Works, Catia The student will be able to digitalise and elaborate the image processing through computer applications. The student will be able to analyse the colour, evaluate the image quality, using technical specifications. The student will be able to create the layout of graphic products processed for the visual presentation of the design carried out, working with specific computer applications: Photoshop, PowerPoint, Adobe Premiere
Module Duration	Unit 1 6 hours Unit 2 10 hours Unit 3: 15 hours Unit 4: 9 hours Unit 5: 10 hours
Evaluation Methods and Criteria	Module: Colour, Visualisation and Dynamics of the Shapes -Carry out 2D Shape outlines, using the parameters of the necessary variable measurements for their dynamic transformation, using the





corresponding orders of the software used (AutoCAD, Inventor, Catia, Solidworks,...)

- Present the layouts carried out in digital format for their observation, as well as the relevant tests of the module

Module: Geometric shapes and abstract concepts

- -Use the necessary orders for the creation of bidimensional and tridimensional environments using the corresponding orders of the used software (AutoCAD, Inventor, Catia, Solidworks,...)
- -Identify the geometric shapes of objects
- -Identify and create the layers. Properties.

Module: 2D and 3D geometric shape design

- Use the necessary orders for the creation of 3D volumetric Objects, using the corresponding orders of the used software (AutoCAD, Inventor, Catia, Solidworks,...)
- Use the Boolean orders to add and subtract matter to transform 3D volume, using the orders learnt regarding the used software.

Present the designs carried out in digital format for their observation, as well as the relevant tests of the module.

Module: Layout and Graphic composition

- Carry out the Storyboard and the Layouts of the presentation planned from the created design or designs.
- Achieve the Layout of the presentation of the design carried out using the necessary software (Photoshop, PowerPoint, Adobe Premiere,...)

Module: Layout and Graphic composition (II)

- Achieve the Layout of the presentation of the design carried out using the necessary software (Photoshop, PowerPoint, Adobe Premiere,...) Continuation
- Present the Layout carried out in digital format for its observation, as well as the relevant tests of the module.





MODULE:	AUDIVOVISUAL and MULTIME	DIA		
ECVET Unit: Colou	r, Visualisation and Dynamics c	of the Shapes		
Reference Qualification:	Expert on processing and Layout of Graphic Elements in Pre- impression			
EQF Level	4			
Learning outcomes	their texture and the physi they are made of - The student will be able to ca	classify the object colours by cal properties of the material arry out impact surveys of light vation of the object in different at of view.		
Knowledge	Skills Competences			
 Describe the colour, outline and shape; Design and Creativity: Observation and Abstraction; Colour: Shade, Value and Saturation; Illumination and Shades. Define the physical properties of the material: Reflexion, Refraction, Luminance and Transparency Explain the shapes' outline: the shape balance and weight; Lineal and Curve outlines; Visual angle, Points of view 	-Analyse and compare the outlines previously carried out to get an improved design -Compare the outlines carried out to get the best design	- Elaborate the Project survey to create different models by observing the problem to be solved.		





MODULE:	AUDIVOVISUAL and MULTIME	DIA	
ECVET Unit: G	Geometric shapes and abstract c	oncepts	
Reference Qualification: Expert on processing and Layout of Graphic Elements in Pre Impression			
EQF Level	4		
Learning outcomes	- The student will be able to elaborate the design and digital edition of the geometric shapes planned for their further use in volumetric generation.		
Knowledge	Skills	competences	
 Define changing orders: move, copy, turn, scale, equidistance, symmetry, cut, lengthen, connection, chamfer Define axis and plans systems: orthogonal and isometric views 	- Solve the relevant volumetric design, implementing the relevant orders	- Elaborate geometric shapes and abstract designs analysing the necessary parameters of the model to optimize the possible changes.	





MODULE:	AUDIVOVISUAL and MULTIME	DIA	
ECVET Unit:	Design of 2D and 3D geometric	shapes	
Reference Qualification:	Expert on processing and Layo Impression	out of Graphic Elements in Pre-	
EQF Level	4		
Learning outcomes	- The student will be able to carry out digitally the Volumetric design of the planned project, operating with specific computing equipments and applications in the creation processes: AutoCAD, Inventor, Solid Works, Catia		
Knowledge	Skills competences		
 Describe 2D drawing orders: line, circle, arch, ellipse, rectangle, polygon Explain the 3D modelling orders: extrusion, revolution and sweeping and Boolean operations: addition, subtraction and intersection. Describe 3D impression: additive technique: export of parts to stl format. 	 Implement the orders to build 2D outlines Carry out the necessary changes in 2D geometry to get the best design, optimizing the process Use correctly the working plans and axis to get the 3D shape 	- Elaborate 2D and 3D virtual designs analysing the necessary parameters of the model to optimize the possible changes and reduce costs.	





MODULE:	AUDIVOVISUAL and MULTIME	DIA		
ECVET Uni	it: Layout and Graphic composi	ition		
Reference Qualification:	Expert on processing and Layoung Impression	out of Graphic Elements in Pre-		
EQF Level	4			
Learning Outcomes	 The student will be able to digitalise and elaborate the image processing through computer applications. The student will be able to analyse the colour, evaluate the image quality, using technical specifications. 			
Knowledge	Skills Competences			
 Explain the balance in Composition, Rhythm and Harmony Define Shade, Contrast and Texture List the visual directions in Layout: horizontality, verticality 	- Import external elements that will be used in Layout	- Create the project Layout, elaborating an optimal composition of all the elements embedded		





MODULE:	AUDIVOVISUAL and MULTIME	DIA
ECVET Unit:	Layout and Graphic compositi	on (II)
Reference Qualification:	Expert on processing and Layo Impression	out of Graphic Elements in Pre-
EQF Level	4	
Learning Outcomes	products processed for the vi	create the layout of graphic sual presentation of the design pecific computer applications: be Premiere
Knowledge	Skills	Competences
 Describe audio-visual elements Explain multimedia file import Define the use of Typography in Composition. 	- Elaborate the suitable composition for the design presentation	- Create the project Layout, elaborating an optimal composition of all the elements embedded, getting a good rhythm regarding colour and dynamics.





ECVE"	T Unit: Colour, Vi	sualisation and Dyn	amics of the Sh	apes	
Reference	1	processing and Layo	ut of Graphic El		
Qualification: Module Title		•	ession	Λ	
Module Type		AUDIVOVISUAL and MULTIMEDIA Sector-specific			
Module Theme		Audiovisual and	•	5	
Woodale Therice			Training	Weight	
	Training	Methods	hours		
Instructor- led/Classroom- based	Theoretical learning	Theoretical presentation: Color and light chromatic scales RGB, HLS, CMYK	0,5 hour	8,5%	
	Practical learning	Creating colors and textures in the digital environment; Doubts about elearning workshops will be solved individually by the students; Software used in the classroom session: Photoshop, 3dstudio VMAX	0,5 hour of individual working / exercises to be reviewed by teacher	8,5%	
E-learning	digital Color and readings; Workshops, con student on color using digital technology Bocetacion free and its schemat Videos about copsychology	r and behavior, hniques; hand of an object ic process lor and color	4 hours	66%	
Proyecto	colors and its cl variations, which	h later he/she ect, as well as the	1 hour of workshops – final project	17%	
		aining hours	6h		
	Total EC	VET points	0,45		





	ECVET Unit: 2D	and 3D geometric	shape design	
Reference	Expert on I	orocessing and Layo		ements in Pre-
Qualification:		•	ession	Δ.
Module Title		AUDIVOVISUAL a		А
Module Type Module Theme		Sector- Audiovisual and	specific	-
Module Theme		Audiovisual and		Weight
		Methods	Training hours	weight
Instructor- led/Classroom- based	Theoretical learning	Drawing Orders and edit 2D geometric shapes; Creating Orders for 3D objects; Boolean operations	1 hours	12%
	Practical learning	Doubts about e- learning workshops will be solved individually by the students; Practical exercises to help to improve and understand the three- dimensional design; Software used: AutoCAD	3 hour of individual working / exercises to be reviewed by teacher	28%
E-learning	and 3D volumet Mass operations Difference Workshops to p previous issues Videos: Three-dimensio Using Additive T	nal coordinates, 2D ric shapes Design, s: Union and ut in practice the	4 hours	40%
Proyecto	The student per dimensional des	form the three-	2 hours of workshops – final project	20%





proposed object in order to make the project			
	Total training hours	10	
	Total ECVET points	0,75	





	ECVET Unit: La	ayout and Graphic o	composition		
Reference Qualification:	Expert on	processing and Layo impre	out of Graphic El ession	ements in Pre-	
Module Title		AUDIVOVISUAL and MULTIMEDIA			
Module Type		Sector-specific			
Module Theme		Audiovisual and multimedia arts			
	Training Methods Training Weight hours				
Instructor- led/Classroom- based	Theoretical learning	Drawing Orders and edit 2D geometric shapes; Creating Orders for 3D objects; Boolean operations	2 hours	12%	
	Practical learning	Doubts about e- learning workshops will be solved individually by the students; Practical exercises to help to improve and understand the three- dimensional design; Software used: AutoCAD	4 hour of individual working / exercises to be reviewed by teacher	28%	
E-learning	and 3D volumet Mass operations Difference Workshops to p previous issues Videos: Three-dimensio Using Additive T obtaining proto	nal coordinates, 2D ric shapes Design, s: Union and ut in practice the nal design echniques for type: 3D Printing	5 hours	40%	
Proyecto	the project	sign of the t in order to make	4 hours of workshops – final project	20%	
	Total tra	aining hours	15		
Total ECVET points 1,13					





	ECVET Unit: La	ayout and Graphic c	omposition		
Reference Qualification:	Expert on	Expert on processing and Layout of Graphic Elements in Pre- impression			
Module Title		AUDIVOVISUAL a		4	
Module Type Module Theme		Sector-s	•		
iviodule i neme		Audiovisual and	Training	Weight	
	Training	Methods	hours	weight	
Instructor- led/Classroom- based	Theoretical learning	Layers and treatment Brushes, filters Tools for retouching:Patch, Focus and blur	0,5 hours	5%	
	Practical learning	Graphic Composition and layout to present a product Resolution of doubts arising in e-learning workshops Software used: Photoshop, PowerPoint	1,5 hours of individual working / exercises to be reviewed by teacher	16%	
E-learning	Suggested Readings: -Using Layers in the graph composition -Different types of brushes -Opacity, transparency and paints -Filters for applying effects -Harmony, Contrast and balance in the composition Workshops for implementing what is explained in the readings Videos: composition and Psychology presentation; Working with brushes and digital filters		3 hours	32%	
Proyecto	3D design layou composition, typother elements submission of the	pography and involved in the	4 hours of workshops – final project	47%	
		aining hours	9		
		CVET points	0,68		





Reference Qualification: Module Title Module Type Sector-specific Module Theme Audiovisual and multimedia arts Training Methods Theoretical Layers and Training Methods Training Methods Training Methods Theoretical Training Methods Training Methods Theoretical Training Methods	
Module Title AUDIVOVISUAL and MULTIMEDIA Module Type Sector-specific Module Theme Audiovisual and multimedia arts Training Methods Training hours Theoretical Layers and 0,5 hours 5%	ı
Module Type Sector-specific Module Theme Audiovisual and multimedia arts Training Methods Training hours Theoretical Layers and 0,5 hours 5%	i .
Module Theme Audiovisual and multimedia arts Training Methods Training hours Theoretical Layers and 0,5 hours 5%	t .
Training Methods Training Methods Theoretical Layers and Training Weight hours 5%	t
Training Methods hours Theoretical Layers and 0,5 hours 5%	t
Instructor- learning treatment Ied/Classroom- Brushes, filters Tools for retouching:Patch, Focus and blur	
Practical Graphic 1,5 hours of learning Composition and layout to present a product exercises to be reviewed Resolution of doubts arising in e-learning workshops Software used: Photoshop, PowerPoint 1,5 hours of individual working / exercises to be reviewed by teacher	
E-learning Suggested Readings: -Using Layers in the graph composition -Different types of brushes -Opacity, transparency and paints -Filters for applying effects -Harmony, Contrast and balance in the composition Workshops for implementing what is explained in the readings Videos: composition and Psychology presentation; Working with brushes and digital filters	
Proyecto 3D design layout and final 5 hours of composition, typography and other elements involved in the final project	
' '	
submission of the final project Total training hours 10	