

Denari (1993)

RB @BSc 1 VGU:

Architectural Design I / Computer-aided Design I: Architectural embodiments

Team:

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- Architecture is both the process and the product of planning, designing, and constructing buildings.
- Buildings are characterized by features that make them historically identifiable categorized as <u>styles</u>. Styles include aspects such as form, function, method of construction, materials, and local/regional character.
- Architecture is classified within a <u>chronology of styles</u> which changes over time reflecting respective ideologies, fashions, beliefs, technologies, and materials.

Assignment:

- <u>Architectural embodiments</u> as tangible and visible forms of ideas are defined in the context of the design studio as variations derived from one architecture.
- Based on analysis and reflection on Neil Denari's space separator students will develop <u>variations</u> of it as their own designs. Alternative function, form, method of construction and materials are speculated upon.
- Considering that the supporting frame is made of welded aluminium and the skin is made of moulded
 fiberglass the students are encouraged to speculate about possible <u>alternative materials</u> (wood, steel, glass,
 bamboo, etc.) and their impact on design. Furthermore, they are encouraged to speculate on alternative
 functionalities and forms.

Architectural Design I:

- Culture and Society: Analysis of structural situations with regard to history, culture and society and their interaction with human needs
- <u>Measure of Man:</u> Studies on the development of space and form in relation to human behavior patterns and motion sequences.

- <u>Design Studio</u>: Applying analysis of design assignment with the aim of developing body, space, form and function as an <u>architectural embodiment</u>; Creating analogue models and digital three- and two-dimensional representations in the form of 3D models, floor plans, sections and views implemented at various scales; Determining the basics of the design task, deriving a space concept with a fixed construction volume for a specific location; Designing the form, function, construction and appearance of the architectural embodiment.

Tasks:

- Describe project using text and images;
- Describe design in text, image, scaled analogue/digital models.

Requirements:

- ±500 words report;
- Design variant embodiment (3D model, renderings, 2D sections and plans, views).

Computer-aided Design (CAD) I:

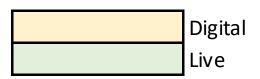
- Data organization, systematics of electronic data processing (EDP) and CAD.
- Text processing, standard-compliant reports / business letters, formatting spreadsheets, working with simple formulas and calculations.
- CAD (2-3D): Project structure, drawings, images and layers.
- Create and modify lines and geometric shapes.
- Architectural 2D drawings such as floor plans, sections and views at scale (using hatching, labelling and dimensioning).
- Furnishing, plan processing and plan output.

Tasks:

- Describe employed EDP and CAD methodology using text and images;
- Describe design in text, image, scaled analogue/digital models.

Requirements:

- 500 words report describing CAD methodology and approach using text and images;
- 3D models and architectural 2D drawings at various scales.



Schedule Architectural Design/CAD 1 – BSc 1 2020

Week	CET	Time @VGU	Monday	Tuesday	Wednesday	Thursday	Friday
		08:45-09:30		Tutorial	Tutorial		Excercise
		09:30-10:15		Tutorial	Tutorial		Excercise
				Break	Break		Break
		10:30-11:15		Tutorial	Excercise		Excercise
30.11		11:15-12:00		Tutorial	Excercise		Excercise
-				Lunch	Lunch	Lunch	Lunch
04.12	08:00-08:45	13:00-13:45	Intro Lecture	Tutorial	Excercise	Excercise	Review
	08:45-09:30	13:45-14:30	& Tutorial	Tutorial	Excercise	Excercise	Upload
				Break	Break		Break
	09:45-10:30	14:45-15:30	Exercise/Seminar	Excercise	Seminar	Seminar	
	10:30-11:15	15:30-16:15	Review	Excercise	Review	Review	



Schedule Architectural Design/CAD 1 - ARC Intake 2019

1 WEEK Monday	CET	Time @VGU	Monday	Tuesday	Wednesday	Thursday	Friday
Lecture/Tut	orial (±90 r	nin:) ^{8:45-09:30}		Tutorial	Tutorial		Excercise

- 1. Introduction to CAD I and Architectural Design I / <u>Culture and Society: Analysis of structural situations with regard to history, culture and society and their interaction with human needs / Multi-media (re-)presentation</u>
- Develop multi-media presentation using PPT and 2-3D modelling tutorials in Rhino and developing own 2-3D models / Data organization, systematics of electronic data processing (EDP) and CAD (data storage, file formats, translating and sharing).

Exercise(±45 min.)

- 3. Understand structure of tutorials and test the individual use of tutorials.
- 4. Analyse in groups of 6 students Denari's drawings in order to understand the project functionally and spatially (what are the spaces used for, how big they are and what activities do or could they accommodate, etc.) / Identify alternative use and functional distribution (while preserving the separation between front and back), etc. / Prepare 3 PPT-presentations (one per each group) showing results of the analysis.

Seminar/Review (±45 min.)

5. Present orally PPTs and discuss results of analysis in PechaKucha style (https://en.wikipedia.org/wiki/PechaKucha) / Q&A on Tutorials and Exercises for next day.



Schedule Architectural Design/CAD 1 – ARC Intake 2019

1 WEEK Tuesday	Time @VGU	Monday	Tuesday	Wednesday	Thursday	Friday
Tutorials (±270)	08:45-09:30		Tutorial	Tutorial		Excercise
1. CAD (2-3D): Proje	ect structure, drawir	ngs/models, ima	ges and layers	(import image	in Rhino, trad	ce lines,
extrude, etc.) / Cre	eate and modify line	•				
	eate and modify line y lines surfaces and	es and geometri	c shapes / Dev	velop simplified	I 3D model of	the replica
•	y lines surfaces and	es and geometri	c shapes / Dev	velop simplified	I 3D model of	the replica

- 2. CAD (2-3D): Develop own project structure, drawings/models, images and layers (import image of sections in Rhino, trace lines, tilt/rotate, extrude, etc.) / Create and modify lines, surfaces and 3D geometric shapes / Develop individual simplified model of the replica.
- 3. Corbusier: Towards a New Architecture (read text and prepare PechaKucha style PPT-presentations organised in 3 groups of 6 students each; groups 1-3 read pp. 21-65, pp. 85-129, and pp. 149-199, respectively whereas each student reads ±7 pages, summarizes the content, and discusses it with his/her group mates).



Schedule Architectural Design/CAD 1 - ARC Intake 2019

1 WEEK Wednesday	Time @VGU	Monday	Tuesday	Wednesday	Thursday	Friday
Tutorials (±90 min.)	08:45-09:30		Tutorial	Tutorial		Excercise
Exercise (±180 min.)			Tutorial	Tutorial		Excercise
 CAD (2-3D): Development Devel	1.	plified model of the	e replica (crea	ite and modify	lines surfaces	and 3D
2. Prepare individual I	PPT-presentation	s in PechaKucha	style showing	individual sim	plified model	of the repli
Seminar/ Review (±90			Tutorial	Excercise		Excercise
	0 min.)15-12:00		Tutorial	Excercise		Excercise
Seminar/ Review (±90) 3. Corbusier: Towards content). 4. Present individual s	O min.) s a New Architect simplified model o	ure (present PPT-	Tutorial presentation i	Excercise n PechaKucha	style and dis	Excercise CUSS _{Lunch}
Seminar/ Review (±90) 3. Corbusier: Towards content)	O min.) s a New Architect simplified model o	ure (present PPT- of the replica as 3I	presentation i D model / Q&/	n PechaKucha A and discussi	a style and dis on on Tutorial	Excercise Cuss _{Lunch} Review s and
Seminar/ Review (±90)3. Corbusier: Towards content).4. Present individual s	O min.) s a New Architect simplified model o	ure (present PPT- of the replica as 3I	presentation i D model / Q&/	n PechaKucha A and discussion	a style and dis on on Tutorial	Excercise CUSS _{Lunch} Review s and Upload



1 WEEK Hedule Architectural Design/CAD 1 – ARC Intake 2019

Thursda	y						
Exercise	e (±90 min.)	Time @VGU	Monday	Tuesday	Wednesday	Thursday	Friday
	1 ` '	1 00.43-07.30	lified model of the	LITORAL	I HTORAL I		tation,
creat	te simple horizo	ntal and vertical	sections) and prep	oare PPT-slide	s in PechaKu	cha style.	LACCICISC
2. Rele	vant literature B	Sc I (read text o	rganised in 3 grou	ps pages pp. ⁻	18 and 25, pp.	19-21, and p	p. 22-24 and
prep	are 3 PPT-prese	entations in Pech	naKucha style).	Break	Break	•	Break
<u>Seminar</u>	/ Review (±90	min.):30-11:15		Tutorial	Excercise		Excercise
3. Rele	vant literature B	Sc I (present PF	T-presentations in	PechaKucha	style and disc	uss content).	- Fyeoreico
4. Pres	ent individual si	mplified model o	f the replica PPT-p	resentations i	n PechaKucha	a style. Q&A a	ind Excercise
discu	ussion on Tutoria	als and Exercise	s for next day.	Lunch	Lunch	Lunch	Lunch
04.12	08:00-08:45	13:00-13:45	Intro Lecture	Tutorial	Excercise	Excercise	Review
	08:45-09:30	13:45-14:30	& Tutorial	Tutorial	Excercise	Excercise	Upload

Break

Break

Break

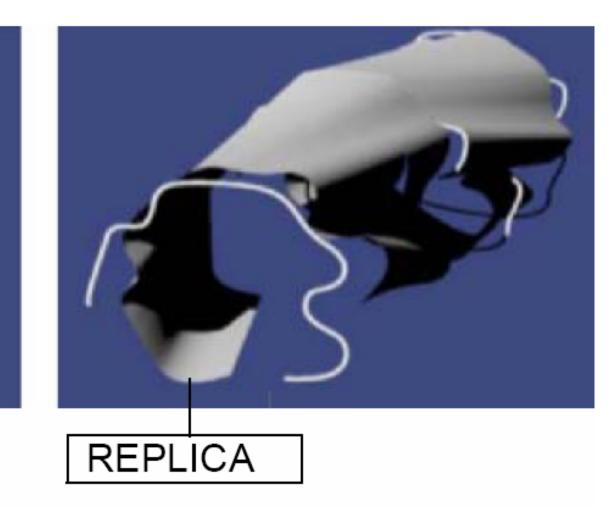


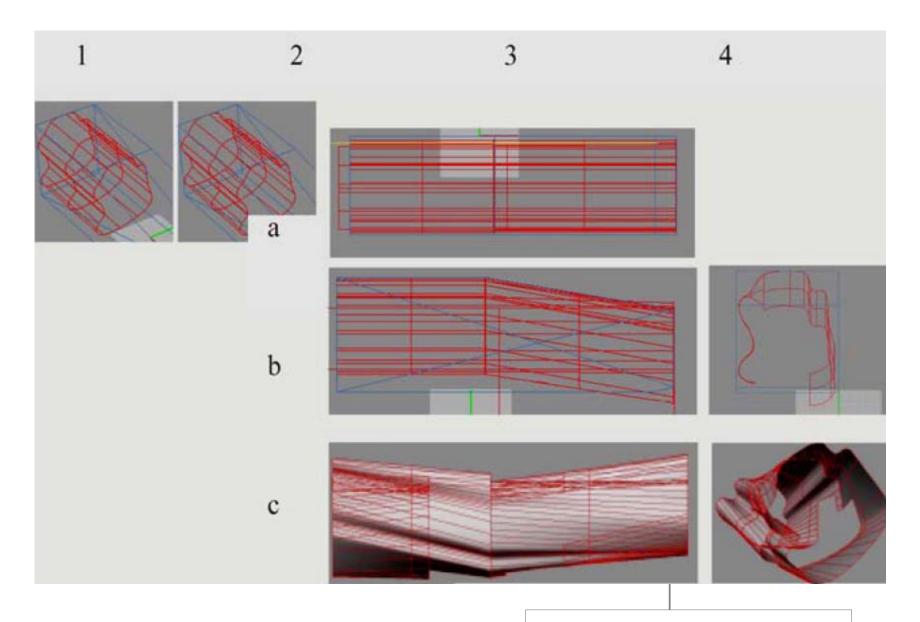
Schedule Architectural Design/CAD 1 - ARC Intake 2019

1 WE Frida	(-	Time @VGU	Monday	Tuesday	Wednesday	Thursday	Friday
	; cise (±180 min.)	08:45-09:30		Tutorial	Tutorial		Excercise
1. Fi	nalise simplified	model of the rep	lica and compile	PPT-slides in	PechaKucha s	tyle to presen	t final 3D
	odel of the replic			Break	Break		Break
	ew/Upload (±90 PT-presentations	10.20 11.1E I	style and discuss	ion of final 3D	model of the	renlica	Excercise
30.11	procentations	11:15-12:00	otyto arra alocace	Tutorial	Excercise	opiiod.	Excercise
				Lunch	Lunch	Lunch	Lunch
04.12	08:00-08:45	13:00-13:45	Intro Lecture	Tutorial	Excercise	Excercise	Review
	08:45-09:30	13:45-14:30	& Tutorial	Tutorial	Excercise	Excercise	Upload
				Break	Break		Break
	09:45-10:30	14:45-15:30	Exercise	Excercise	Seminar	Seminar	
	10:30-11:15	15:30-16:15	Exercise	Excercise	Review	Review	

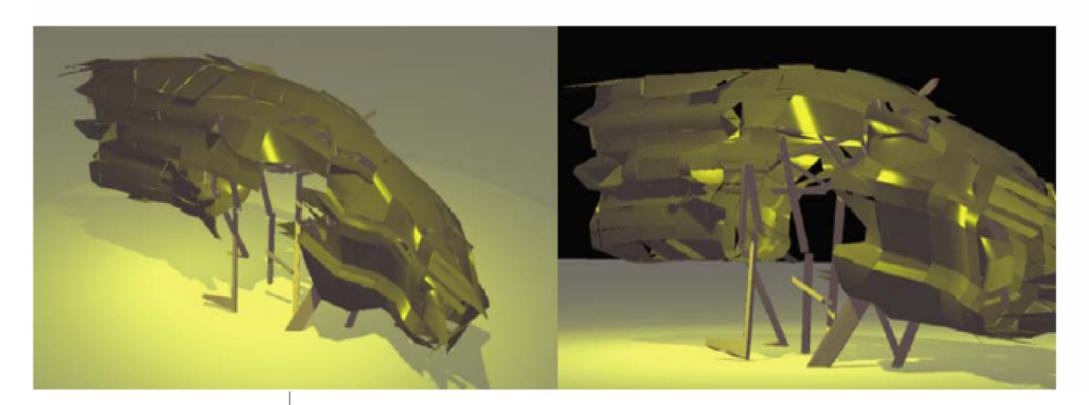


ORIGINAL



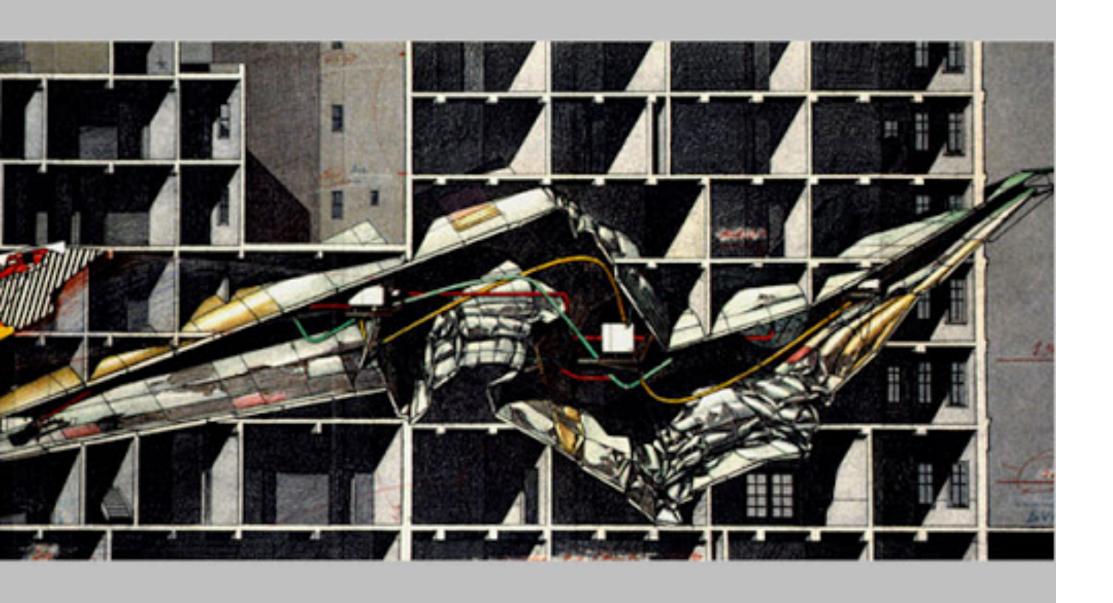


TRANSFORMATION





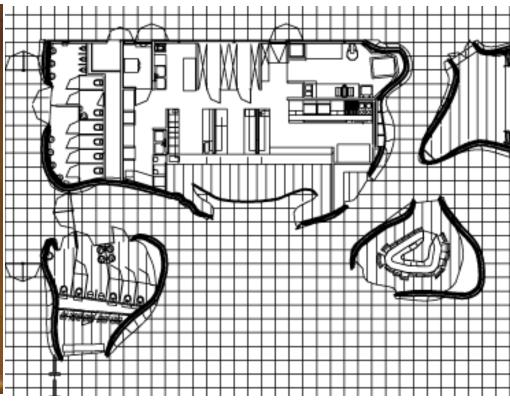
REPLICA: L. WOODS











Facetted vs. Curvilinear