

LONDON CAPITAL COMPUTER COLLEGE

Diploma in Graphic Design (991) – AutoCAD

Prerequisites: Keystroking ability. Knowledge of Windows terminology and mouse techniques.

Corequisites: A pass or better in Diploma in eCommerce & Web Design, Information Technology or equivalence.

Aim: This course requires basic computer skills. Candidates must know how to use the keyboard and mouse and how to work in the Windows environment, including file creation/deletion; directory commands and navigation; data entry and manipulation; and program execution. This course is designed for users new to AutoCAD. Candidates will learn to create basic 2D drawings while discovering the essential core topics for working with the commands and interface in AutoCAD. Candidates will create, modify, annotate and output simple drawings. This course provides a fun, hands-on introduction to drafting and AutoCAD for individuals with no CAD background who are considering taking a profession in Graphic Design. Candidates will then continue with more sophisticated techniques, delving deeper into command options. The course takes the candidates beyond the basic skills of using commands to the more intermediate aspects of creating, manipulating and controlling the objects used to create the basic drawings covered in the introductory lessons. The course meets the industry professional skills by covering commands and enhancements in the latest release of AutoCAD. The lectures are hands-on, designed so users can acquire those concepts needed to update and enhance their AutoCAD skills. Exercises cover the application of AutoCAD in a variety of industries. Candidates learn to create and edit 2D drawings using the latest release of AutoCAD. This comprehensive and highly structured course covers: viewing and creating accurate drawings, editing existing drawings, managing object properties, creating and inserting blocks, applying dimensions, annotations, and hatch patterns, as well as plotting techniques and creating drawing templates. Emphasis is on the specifics of the tools in the software along with the necessary concepts and techniques that allow users to be productive, regardless of their drafting discipline.

Required Materials: Recommended Learning
Resources.

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Supplementary Materials: Lecture notes and tutor extra reading recommendations.

Special Requirements: This is a hands-on course, hence practical use of computers is essential. Requires intensive lab work outside of class time.

Intended I coming Outcomes		
Intended Learning Outcomes:	Assessment Criteria:	
1. Demonstrate tour of AutoCAD's	1.1 Describe model space	
interface and the tools used to create basic shapes.	1.2 Explore AutoCAD's tools	
	1.3 Analyse leveraging dockable palettes	
	1.4 Be able to monitor the Status bar	
	1.5 Describe the anatomy of a command	
	1.6 Be able to customise AutoCAD's preferences	
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	1.7 Outline accessing help	
	1.8 Be able to save a workspace	
2. Describe the graphical elements of	2.1 Explore opening an AutoCAD drawing	
AutoCAD interface and explains the basic menus.	2.2 Describe mouse functions	
Demonstrate opening, viewing, and saving drawings.	2.3 Describe zooming, panning, and regenning	
	2.4 Explore working in a multiple-document	
	environment	
	2.5 Be able to save your work	

3. Illustrate geometry creation and mesh generation for a simple geometry using AutoCAD. 3.1 Explore how to construct lines Be able to lock angles with the Ortho and Polar modes 3.2 Practice drawing circles 3.3 Practice drawing circles 3.4 Be able to activate the Heads-Up Display 4. Demonstrate on drawing unit representations and outline how objects created are measured in drawing units. 5. Describe the differences between 3D object snaps and 2D object snaps. Demonstrate how to maintaining accuracy with object snaps 5.1 Describe the Cartesian coordinate system Be able to lock to geometry using architectural measurements 4.2 Be able to work with metric units 5.2 Be able to lock to geometry using architectural measurements 8. Be able to work with metric units 8. Describe the Gartesian coordinate system 5.2 Outline automating object snap selection 4. Analyse using temporary tracking to find points in space 6. Be able to draw rectangles 6. Be able to lock to geometry using architectural measurements 8. Be able to lock to geometry using object snaps selection 4. Be able to lock to geometry using object snaps selection 4. Be able to lock to geometry using object snaps selection 4. Be able to lock to geometry using object snaps selection 4. Be able to lock to geometry using object snaps selection 4. Be able to lock to geometry using object snaps selection 4. Be able to draw rectangles 6. Be able to draw polygons 6. Be able to tractangles 6. Be able to tractangles 8. Be able to tractangles 9. Be able to tractangle changes 9. Be able to create objects using windows 9. Be able to create changers 9. Be able to create changers 9. Be able to create changers 9. Be able to create and adjust layers 9. Describe layers 9. Be able to create and		2.6	Analyse saving time with templates
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grawing	properties of objects.	10.3	
10.4 Analyse changing popular settings using		10.4	
the layer control		10.4	
10.5 Describe the BYLAYER property		10.5	

	10.6	D 11
	10.6	Be able to restore previous layer states
	10.7	Be able to use existing geometry to set the current layer
		the current layer
11. Describe annotations objects and	11.1	Be able to create single-line text
demonstrate how to use annotation tools.	11.2	Be able to justify text
	11.3	Be able to control appearance using text
		styles
	11.4	Outline annotating with multi-line text
	11.5	Be able to edit text
	11.6	Be able to create bulleted and numbered
		lists
	11.7	Be able to create incorporating symbols
	11.8	Outline how to correct spelling errors
12. Dscribe AutoCAD dimensioning tools	12.1	Be able to create general dimensions
and demonstrate the several aspect of dimensions	12.2	Be able to create continuous and baseline
including placing the dimension, dimension style,	12.2	dimensions
and tolerances.	12.3	Be able to control appearance using
		dimension styles
	12.4	Be able to modify dimensions
	12.5	Be able to create multileaders
	12.6	Identify how to control appearance using
		multileader styles
	12.7	Be able to modify multileaders
13. Demonstrate how the Palette is a very	13.1	Be able to insert blocks
easy way to manage (and create) reusable content.	13.1	Be able to create blocks
casy way to manage (and create) reasone content.	13.3	Be able to leverage blocks
	13.4	Be able to redefine blocks
	13.5	Be able to build a block library
14 Don't A GAD on id along the	141	O discount in a law in a size
14. Describe AutoCAD specialized tools for	14.1	Outline querying a drawing using
drafting and designing. Outline how specialized tools incorporate CAD data into other formats	14.2	rollover tooltips Analyse taking measurements using the
tools incorporate CAD data into other formats	14.2	Distance command
	14.3	Be able to modify properties using the
	11.5	Quick Properties tool
	14.4	Analyse automating calculations using
		the Quick Calculator feature
15 Damonstrate the preferred way of	15 1	Re able to greate quiel plets
15. Demonstrate the preferred way of plotting drawings in both model space and Layout	15.1 15.2	Be able to create quick plots Be able to select a pen table
/ Paper Space workspaces.	15.2	Be able to choose line weights
/ Luper Space workspaces.	15.4	Explore creating a layout:
	13.7	Choosing a paper size
	15.5	Explore creating a layout: Inserting a
	-2.0	title block
	15.6	Explore creating a layout: Cutting
		viewports
	15.7	Be able to reuse layouts
	15.8	Be able to organise layouts
16. Demonstrate how to scale a drawing in	16.1	Outline using the Annotative property to
16. Demonstrate how to scale a drawing in AutoCAD and way of setting some types of annotation objects to the appropriate plotted size.	10.1	automatically size text
	16.2	Outline using the Annotative property to
amount objects to the appropriate protect size.	10.2	automatically size dimensions
	16.3	Outline using the Annotative property to
		automatically size multileaders
	16.4	Be able to change the scale assigned to
TD 1 (0044 74232	

	annotations	
17. Demonstrate how to share and manipulate site data including sharing drawings online, revoking permissions granted at any time and protecting data.	 17.1 Outline the process of saving drawings to other formats 17.2 Be able to plot to PDF 17.3 Be able to plot to the Web Design format 17.4 Be able to send drawings via email 	

Recommended Learning Resources: AutoCAD

	AutoCAD Tutorials by Frede Uhrskov. ISBN-10: 8790632362	
	Accessing Autocad Architecture X by Wyatt. ISBN-10: 111164831X	
	AutoCAD for the Built Environment: An Introduction to 2D by Carlos	
Text Books	Jimenez-Bescos. ISBN-10: 041569759X	
	Mastering AutoCAD and AutoCAD LT: Autodesk Official Training Guide	
	by George Omura. ISBN-10: 1118174070	
Study Manuals		
	BCE produced study packs	
CD ROM		
	Power-point slides	
Software		
	AutoCAD	