

1.	Exerc	ise : 1				2. Date:		
3.	Title	: Essentials	of engineerin	g graphics Ir	ntroduction a	and basics		
4.	Aim		he importanc ple 2D objects			s, standards, I	ettering; and	to
5.	Softw	vare used:						
6.	Intro	duction:						
	i	i. About Engin	eering Graphi	cs:				
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	i 	ii. About Draft	ing tools and	its advantag	ges over con	ventional draf	fting:	
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roce	dure (for solving ques	stion # ):	
7.1	Question outline	:	
7.2	Object	:	
7.3	Conditions (if any)	:	
7.4		Free hand sketch of the solution to question #	
7.4	Fig. Drawing Procedure: Step 1.	Free hand sketch of the solution to question #	
7.4	<b>Drawing Procedure:</b>		
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1.	Exercis	se : 2	2. Date:
3.	Title	: Co	nic and special curves.
4.			understand and draw conic curves, and special curves like cycloid, involute, d Archimedean spiral.
5.	Softwa	are us	ed:
6.	Introd	luction	1:
	i.	Abou	t Conic curves:
	ii	. Abou	ut special curves:



roce	edure (for solving question #	):	
7.1	Question outline	:	
7.2	Object	:	
7.3	Conditions (if any)	:	
	Fig. Free ha	and sketch of the solution to question #	
7.4	Drawing Procedure:	and sketch of the solution to question #	
7.4	Fig. Free had Drawing Procedure: Step 1.		
7.4	Drawing Procedure:		



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Result:			



1.	Exerc	ise : 3			2. Date:	
3.	Title	: Fundam	mentals of projections - Ort	thographic projec	tion of points and l	ines.
4.	Aim		w the orthographic project quadrant inclined to only o			
5.	Softw	are used:				
6.	Introd	duction:				
	i	. About Orti	hographic projection :			
	<del></del>					
	i 	i. Projection	n of points and lines:			



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roce	edure (for solving question #	)	
7.1	Question outline	:	
7.2	Object	:	
7.3	Conditions (if any)	:	
		and sketch of the solution to question #	
7.4	Drawing Procedure:	and sketch of the solution to question #	
7.4		and sketch of the solution to question #	
7.4	Drawing Procedure:	and sketch of the solution to question #	
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	Drawing Procedure:	and sketch of the solution to question #	
7.4	Drawing Procedure:		
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7.4	Drawing Procedure:		



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Result:			



1. Exer	rcise : 4	2. Date:
3. Title	e :Orthographic multi-view proj	ections - lines and planes inclined to both the planes
4. Aim	: To draw the orthographic pr the planes.	ojections of straight lines and planes inclined to both
5. Soft	ware used:	
6. Intro	oduction:	
	i. About Orthographic projection	of lines inclined to both the planes:
	ii. Projection of planes inclined to	o both the planes :



Proce	edure (for solving question #	)	
7.1	Question outline	:	
7.2	Object	:	
7.3	Conditions (if any)	:	
7.4	Drawing Procedure:	and sketch of the solution to question	#
7.4		and sketch of the solution to question	#
7.4	Drawing Procedure:	and sketch of the solution to question	#
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1. Exerc	cise : 5		2. Date:
3. Title	: Projection of solids.		
4. Aim	: To draw the orthograp pyramids/ cones.	ohic multi-view proj	ection of solid prisms/ cylinders.
5. Softv	ware used:		
6. Intro	duction: Prisms and Cylinde	ers:	
	6.1 Terminology ( pyramid	with sketch):	6.2 Real time example - Picture
	( p)	,	
	Fig.		Fig.
	edure (for solving question	# ):	
	Question outline	:	
	Object	:	
	Resting on Conditions	:	
7.4	Other resting condition (if	fany):	
7.5	Other condition (if any)	:	



	7.6	Procedure:				
		Step 1.				
0	Com	mands used:				
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1.	Exercis	se : 6		2. Date:	
3.	Title	: Combinations of solids: CSG	6, and advance	d solid modelling.	
4.	Aim			Constructive Solid Geometry (CSG), and hell solid models and obtain their projection	s.
5.	Softwa	are used:			
6.	Introd	uction: CSG, Advanced solid mo	odelling		
	6	.2 CSG sketch):		6.2 Real time example - Picture	
			'		
		Fig.		Fig.	
7.	Proce	dure (for solving question #	):		
		Question outline	:		
		Object  Rosting on Conditions	:		
		Resting on Conditions Other resting condition (if any)	•		
	,	care resume condition (in arry)	•		

**7.5** Other condition (if any)



	7.6	Procedure:				
		Step 1.				
0	Com	mands used:				
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1. Ex	xerci	se : 7		2. Date:
3. Ti	itle	: Section of solids.		
4. A	im	: To draw the orthograp cylinders and pyramids/	·	rojection of sectioned solid like prisms/
5. Sc	oftw	are used:		
6. In	ntrod	uction: Section of solids:		
		action. Section of Solids.		
		5.3 Terminology (with sketo	·h)·	6.2 Real time example - Picture
		reminology (with sketch	,,,,,	0.2 hear time example. Fredure
		Fig.		Fig.
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7. P	roce	<b>dure</b> (for solving question	<b>#</b> ):	
	7.1	Question outline	:	
	7.2	Object	:	
	7.3	Resting on Conditions	:	
	7.4	Other resting condition (if	any):	
	7.5	Other condition (cutting pl	ane) :	



	7.6	Procedure:				
		Step 1.				
0	Com	mands used:				
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1.	Exercise : 8		2. Date:
3.	Title : Building Drawing (2D/3D)	).	
4.	Aim : To draw the orthographic showing the construction		ection of a building with sectioned view
5.	Software used:		
6.	Introduction: Building drawing, Plan	n, Elevation and	Sectional view:
	6.4 Terminology (with sketch)	: :	6.2 Real time example Picture
	Fig.		Fig.
7.	Procedure (for solving question #	):	
	<b>7.1</b> Question outline	:	
	7.2 Object	:	



Stepwise procedure:			
Step 1.			
mands used:			
Command		Use	
	:		
<b>1</b>	mands used:  Command		



1.	Exercise	: 9		2. Date:
3.	Title	: 3D part modelling – Parame	etric.	
4.	Aim	: To draw the 3D part model		
	Software			
		tion: Advanced 3D part mod	elling software	
	20.	a ant alcatala		
	30	part sketch		
			Fig. 3D part model	
7.	Procedu	ıre (for solving question #	):	
	7.1 Q	uestion outline	:	
	7.2 O	oject	:	



7.3	Procedure:				
	Step 1.				
Comn	nands/ tools/ features	used:			
	Command/ tool/ fea		<u> </u>	 Lico	
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1.	Exercise	: 10	2. Date:
3.	Title	: Generating 2D drawings from 3D models.	
4.	Aim	: To generate associated 2D drawings from 3D mode	els, and to annotate the same.
5.	Software		
6.	Introduc	tion: 2D drawings from 3D models, and on Annotati	on
		Fig, Generated 2D drawi	ng
7.	Procedu	re (for solving question # ):	
	<b>7.1</b> Qu	uestion outline :	

**7.2** Object



7.3	Procedure:				
	Step 1.				
Comn	nands/ tools/ features	used:			
	Command/ tool/ fea		<u> </u>	 Lico	
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1.	Exercise : 11		2. Date:
3.	Title : Development of surfaces		
4.	Aim : To draw the development prisms/ cylinders, pyramic		ces of un-cut and sectioned solid
5.	Software used:		
6.	Introduction: Development of latera	al surfaces.	
	6.5 Sectioned solid - sketch):		6.2 Real times example Picture
			I
	Fig.		Fig.
7.	Procedure (for solving question #	):	
	<b>7.1</b> Question outline	:	
	7.2 Object	:	
	<b>7.3</b> Resting on Conditions	:	
	7.4 Other resting condition (if any	y):	
	7.5 Other condition - cutting plan	ne:	



	7.6	Procedure:				
		Step 1.				
0	Com	mands used:				
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1.	Exercise : 12	2. Date:
3.	Title : Assembly modelling and	generating assembly drawing.
4.	Aim : To model assembly of pa	arts and to generate the assembly drawing and exploded
5.	Software used:	
6.	<b>Introduction</b> : Assembly of parts an	nd Assembly drawing
•••••		
		Fig. Assembly model
 7.	Procedure (for solving question #	):

**7.1** Question outline

**7.2** Object



	Step 1.				
Com	mands/ tools/ feat	tures used:			
	Command/ tool,			Use	
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