

TERM 1 (45 days)	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8	WEEK 9	WEEK 10	
TERIVIT (45 days)	27 – 29 Jan	01 – 05 Feb	08 – 12 Feb	15 – 19 Feb	22 – 26 Feb	01 – 05 Mar	08 – 12 Mar	15 – 19 Mar	23 – 26 Mar	29 – 31 Mar	
CAPS Topic	Classroom Admin	Mechar	nical Drawing	Commence with	PAT	Continue with Civil Drawing		Perspecti	PAT		
(Days)	(3 days)	(1	2 days)	Civil Drawing	(2 days)	(15 days TOTAL)		(10	(3 days)		
Prescribed	◆ Classroom and	3 rd angle orthog	raphic working	Limited to single-storey	Revision of the	Limited to single-storey dwellings, 1st		2- Point perspectiv	NOTE: Rather		
content & Skills	administrative	drawings with no	•	dwellings, 1st angle Design Process angle orthographic working drawings		complex castings,	complex castings, dwellings and civil				
	management		ectional and part-		orthographic working ◆ The PAT with floor plans, detailed elevations				• • • • • • • • • • • • • • • • • • • •		
	 ◆ Revision of the 	sectional views	of <u>complex</u>	drawings with floor	scenarios given to	sectional elevation	ns showing the detail	detail, circles and	hrs)		
	General Drawing		emblies. Include the	plans, detailed	learners and	of the foundation t		The HL, PP and SF			
	Principles	following:		elevations and	discussed.	Include ALL the pr		provide any desired	d view.	Phase 1: Complete/	
		◆ Title, scale, hid	·	sectional elevations		content (see 2021	content mapping),			consolidate the	
		_	ntre lines, cutting	showing the detail of the		i.e.:				Design Process	
			detail, notes, symbol	foundation to the roof		◆ On all relevant v				requirements:	
		of projection and		Include ALL the			nd flat <u>roofs</u> (trusses,			 ◆ Design brief, 	
			ts, nuts and lock nuts,	prescribed Civil			ering, fascia, barge-			specifications and	
			. keys and keyways	content (see 2021		board, ceiling, etc.),				constraints	
		and appropriate I		content mapping), i.e.:		water downpipes,	. •			◆ Research	
			of section, e.g. aligned	◆ Annotation, labels,		,	or plans, elevations &			conducted	
		· ·	section, removed	dimensioning, scales			al fixtures and wiring			◆ TWO free hand	
		section, etc. Conventional presentation of		◆ Relevant		diagrams as well a				solutions	
		common features		abbreviations and		Gr 10 and Gr 11	res already covered in			◆ Selecting best	
				graphical symbols			no chowing electrical			solution.	
		 Format and co drawing name/titl 	Ŭ	 Hatching detail and the application of colours 		:	ns showing electrical, e services detail as				
			ings of individual	◆ Format and content of		well as relevant nat					
		components	ings of individual	layout/working drawing		◆ The north point					
		•	, machining and	name/title panels		· The north point					
		surface treatme	. •	◆ Perimeters and							
		◆ Tolerances	iit oyiiibolo	total/floor areas							
Requisite pre-	Gr 10 General		10 & 11 Mechanical	ALL the Grade 10 & 11	Design Process	ALL the Grade 10 8	11 Civil drawing	ALL the Grade 11 2	2-point perspective	Design Process	
knowledge	Drawing Principles	drawing content	To de 11 moondinour	Civil drawing content	200.9.1.100000	content	om aramiy	drawing content	- point poropodato	requirements	
		◆ 3 rd angle ortho	. projection								
Add. resources,	Files/folders, own	•	omplaint notes, previous	exam/test questions on	PAT document,	◆ LTSM: Own com	plaint notes, previous e	xam/test questions or	n specific	PAT document,	
other than	notes		tent, compliant content fi	•	previous best		liant content from TD te		•	previous best	
textbooks &			physical examples	,	examples	examples		•	. ,	practice examples	
drawing instruments			r & data projector, video	clips	•	•	data projector, video cl	ips		·	
Informal		Min 7 DDFs/Tas	ks completed. Class	•		İ	completed	NI/A			
Assessment	Class test (suggested)	test suggested for	or theory.	Min 7 DDEs/Tasks compl	eleu. Ciass lest sugge	Sieu ioi ilieory.		Min 6 DDEs/Tasks	completed	N/A	
Formal	None	Drawings for Cou	urse Drawing (CD) 1	Drawings for CD 3 (Floor I	Plan & Elevations), CD	4 (Sectional Elevatio	n) & CD 5 (Site Plan),	Drawings for CD 6	Phase 1 of ALL		
Assessment		(1st Mechanical A	Assembly) & CD 2	to be sourced from the DD	Es/Tasks		•	to be sourced from		PATs completed	
(SBA & PAT)), sourced from the								
		DDEs/Tasks									



TERM 2 (52 days)	WEEK 1 13 – 16 Apr	WEEK 2 19 – 23 Apr	WEEK 3 26 – 30 Apr	WEEK 4 03 – 09 May	WEEK 5 10 – 14 May	WEEK 6 17 – 21 May	WEEK 7 24 – 28 May	WEEK 8 09 May – 04 Jun	WEEK 9 07 – 11 Jun	WEEK 10 14 – 18 Jun	WEEK 11 21 – 24 Jun
CAPS Topic Isometric Drawing (10 days)		Solid Geometry (12 days)				Interpenetration & (19 days	Commence with Loci (Cam) (Min 6 days in Term 2)	PAT (5 days)			
Prescribed content & Skills		rawings with isometric es as well as auxiliary ections.	of solids, which in The solids and sha regular prisms or only, as well as cy	ncludes solids with ape of the holes map pyramids with 3, 4 linders or cones. ular, parallel or inclinly.	ay be either right- , 5, 6 and 8 sides The axis of the solids ined to one principal	 1st angle orthographic views showing the curve of interpenetration formed between two solids or pipes joined at either 30°, 45°, 60° or 90°. ◆ The solids or pipes have to be right-regular geometrical prisms, with 3, 4, 5, 6 & 8 sides, and/or cylinders only. ◆ The axes of the two solids or pipes must meet in a common plane, i.e. in-line only, but the curve of interpenetration could be non-symmetrical. ◆ Hidden detail must be shown. ◆ Include the surface developments of the parts of the interpenetrating solids of pipes. 				Cams in complex applications showing the following: ♦ the cam shaft and follower detail ♦ the complete displacement graph ♦ the complete cam profile. • The motion may be uniform and/or simple harmonic and/or uniform acceleration and retardation. • The follower may be placed at any angle that reciprocates on a line which passes through the centre of the cam shaft. • Emphasise direction. • Wedge-shaped or roller follower.	NOTE: Rather complete during one entire day (8 - 9 hrs) Phase 2: Complete the working drawing an pictorial (3D) drawing as required by the specific scenario, i.e.: An Orthographic Working Drawing with min 4 x views A Site Plan/ Detailed Drawing with min 3 x views Pictorial (3D) Drawing (Perspective or Isometric Drawing)
Requisite pre- knowledge	ALL the Grade 10 & 11 Isometric drawing content The ability to convert 2D views into a 3D drawing ALL Gr 10 & 11 Solid geo content. ALL Gr 10 & 11 Solid geo content.						ALL the Grade 11 Cam content	Content & skills for Civil/ Mech. working drawings			
Add. resources, other than textbooks & drawing instruments	◆ LTSM: Own compl	laint notes, previous exar lata projector, video clips		specific topic/conte	nt, compliant content fro	om TD textbooks, releva	nt models/ physical ex	amples		1	N/A
Informal Assessment	Min 6 DDEs/Tasks co	DDEs/Tasks completed Min 6 DDEs/Tasks completed					ompleted	Min 3 DDEs/Tasks completed for Term 2	N/A		
Formal Assessment (SBA & PAT)	Drawings for Course Drawing (CD) 7 (complex Isometric drawing), to be sourced from the DDEs/Tasks Drawings for CD 9 (Solid Geom.), sourced from DDEs/Tasks Drawings for CD 1 Drawings for CD 1 DDEs/Tasks						nterpenetration & Devel	opment), to be sourced	N/A (To be completed in Term 3) N/A (To be Drawing for CD 10 (3rd Mech. Assembly)	Phase 2 of ALL PATs completed	



TERM 1 (52 days)	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8	W	EEK 9	W	EEK 1	0 WE	EK 11
CAPS Topic (Days)	Continue with Loci (Cam) (4 days in Term 3, i.e. 10 days in TOTAL)	PAT (3 days)	Loci (Mechanisms) (10 days)	Loci (H (8 da)		Developm Transition (8 days	Pieces	Continue with Term 3 content or	Preparatory Examination (Min. 15 days)					
Prescribed content & Skills	Cams in complex applications showing the following: ♦ the cam shaft and follower detail ♦ the complete	NOTE: Rather owing owing owing of the owing owin				nents of	do revision until the commencement of the 'Preparatory Exams'!	(3	PAPER 1 -CIVA 3 hours) In first-a thographic project Civil analytical	ngle	(3	ANICAL- eangle ection ± 15%		
	displacement graph ♦ the complete cam profile. The motion may be uniform and/or simple harmonic and/or uniform acceleration	include: ◆ Self-assess. & Deadlines ◆ Present.	◆ Maximum THREE points.	Single start onl Right handed or The direction hemphasised	r left handed				Q 2	Solid geometry and/or Interpenetrati on and Development	± 20%	Q 2	Loci of a Cam and/or Loci of a Mechanism	± 20%
	and retardation. ◆ The follower may be	d retardation. The follower may be						Q 3	2-point perspective drawing	± 20%	Q 3	Isometric drawing	± 20%	
	placed at any angle that reciprocates on a line which passes through the centre of the cam shaft. • Emphasise direction. • Wedge-shaped or								Q 4	Civil working drawing including electrical features	± 45%	Q 4	Mechanical assembly	± 45%
Requisite pre-	roller follower. ALL the Grade 11 Cam content	Design Process	N/A	ALL the Grade 11	Helix content	◆ ALL the Gr. 11 & 12 content	Development	-						
Add. resources, other than textbooks & drawing instruments		•	est questions on specific to	l opic/content, complia	ant content from		nodels/ physical	-						
Informal Assessment	Min 3 DDEs/Tasks completed for Term 3 (Min 6 DDEs/Tasks in TOTAL!)	N/A	Min 6 DDEs/Tasks completed	Min 5 DDEs/Tasks	s completed	Min 5 DDEs/Tasks cor	•							
Formal Assessment (SBA & PAT)	Drawings for CD 11 (Cam), to be sourced from the DDEs/Tasks	All PATs completed	Drawings for CD 12 (Mechanisms), to be sourced from the DDEs/Tasks	Drawings for CD 1 sourced from the I		Drawings for CD 14 (To be sourced from the DI		Drawings for CD 15 (3 rd Mech. Assembly)						



TERM 1 (45 days)	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEE	K 5	WE	EK 6	WEEK 7	WEEK 8	WEEK 9	WEEK 10
CAPS Topic (Days)	(Until the com	evision Imencement of the Examinations')	Final NSC Examination									
Prescribed content & Skills	Revision using EGD NSC Exam	previous n Papers/Questions	PAPER 1 -CIVIL- (3 hours) In first-angle orthographic projection PAPER 2 -MECHANICAL- (3 hours) In third-angle orthographic projection									
			Q 1 Civil analytical ± 15%				Q 1	Mechanical	l analytical	± 15%		
Requisite pre-knowledge Add. resources, other than textbooks &			Q 2 <u>an</u>	lid geometry <u>d/or</u> erpenetration and Developm		± 20%	Q 2	Loci of a Ca and/or Loci of a M		± 20%		
drawing instruments Informal Assessment Formal Assessment	ents ssment		Q 3 2-	point perspective drawing		± 20%	Q 3	Isometric d	rawing	± 20%		
(SBA & PAT)			1 (1/1 1	vil working drawing including atures	electrical	± 45%	Q 4	Mechanical	l assembly	± 45%		