UNIVERSITY OF THE WITWATERSRAND SCHOOL OF ELECTRICAL AND INFORMATION ENGINEERING

APPLICATION OF RULE G.13 AND CALCULATOR REQUIREMENTS 2018

A dictionary may be taken into any School examination or test

COURSE No.	COURSE NAME	RULE REQUIREMENTS		TYPE OF EXAM	DURATION OF EXAM	TERM
ELEN1000	Electric Circuits	Test 1 Test 2 (June Exam) Test 3 Exam FCOM applies in the Exam	10% 30% 10% 50%	Open book-limited to: - one text book - one bound file or one notebook of handwritten notes Type 1	3 hours	1+2
ELEN1002	Concepts of Design	Project 1: Project 2: A student cannot obtain a para Outcomes are achieved (see	0.0		No examination	1
ELEN1003	Critical Thinking	Assign 1 Assign 2 Tests (4)		40% 40% 20%	No examination	1+2
ELEN1004	Engineering Design and Skills	Test 1: Project 1: Project 2.1: Project 2.2:		10% 20% 30% 40%	No examination	1 + 2
ELEN1008	Health System Dynamics	Test 1 Test 2 Midyear Exam Test 3 Test 4 Exam	10% 10% 20% 10% 10% 40%	Type 1 MCQ – may include written component	2 hours	1+2
WSOA1011	Key Concepts in Game Design I	Design Project Coursework	509 509	6 Design Project and	No examination	1
WSOA1012	Key Concepts in Game Design II	Design Project Coursework	509 509	<u> </u>	No examination	2
COMS2004	Data Structures & Algorithms	Class test 1 Class test 2 Lab tests Assignment and test Exam	10% 20% 10% 20% 40%	75 Type 1	3 hours	2
ELEN2000	Electrical Engineering (Mechanical, Mining and Chemical Engineering)	Test Labs Exam	20% 10% 70%	Type 1 + A4 handwritten	3 hours	2

ELEN2001	Electronics I	Labs Tutorial Test Class Test Exam Project FCOM applies in the Exar component	10% 10% 10% 50% 20%	Closed book Type 2 Equation sheet provided	3 hours	1
ELEN2003	Electric and Magnetic Systems	Test 1 Test 2 Labs Exam	10% 30% 10% 50%	Closed book Type 1 Equation sheet provided	3 hours	2
ELEN2004	Software Development I	Practical programming: - Test 1 - Test 2 Project Exam FCOM applies	10% 20% 30% 60%	Closed book Type 1 + A4 handwritten information sheet C++ Quick Reference provided	3 hours	1
ELEN2005	Signals & Systems I	Project Test 1 Test 2 Labs Exam FCOM applies	20% 10% 10% 10% 50%	Closed book Type 2 Equation sheet provided	3 hours	2
ELEN2006	Microprocessors	Project Test Labs Exam	20% 20% 10% 50%	Closed book Type 0 Information sheet provided	3 hours	2
ELEN2008	Electric Circuits	Test 1 Test 2 Exam FCOM applies	15% 20% 65%	Open book-limited to: - one text book - one A4 plastic sleeve (handwritten notes) Type 2	3 hours	1
HAEM2001	Molecular and Cell Biology	Class Test Project Exam	20% 30% 50%	Closed book Type 1	2 hours	2
WSOA2006	Digital Art Design Project	Design Project Coursework	50% 50%	Design Project and Technical Report	No examination	2
WSOA2009	Introduction to Game Creation IIA	Design Project Coursework	50% 50%	Design Project and Technical Report	No examination	1
WSOA2010	Introduction to Game Creation IIB	10x Short Assignments Exam	5% each 50%	Design Project	No Examination	2
ELEN3000	Electromagnetic Engineering	Test Exam Labs	20% 60% 20%	Closed book A4 (handwritten information sheet) Type 2	3 hours	2

ELEN3002	Electronics II	Test Exam Labs	20% 60% 20%	Open book-limited to: - one text book - one A4 folder Type 2	3 hours	1
ELEN3003	Power Engineering	Test Exam Labs	20% 60% 20%	Closed book Type 2 + A4 handwritten information sheet	3 hours	1
ELEN3007	Probabilistic Systems and Signal Analysis		12.5% 12.5% 20% 55%	Closed book Type 1	3 hours	2
ELEN3008	Biomedical Measurement, Instrumentation and Imaging	Assignments / Oral Labs Exam FCOM applies	20% 20% 60%	Closed book Type 1	3 hours	1
ELEN3009	Software Development II	Labs Test Project Exam FCOM Applies	5% 10% 35% 50%	Closed book Type 1	3 hours	2
ELEN3012	Signals & Systems II A	Test Lab Exam	20% 20% 60%	Closed book Type 2 + A4 handwritten information sheet	3 hours	1
ELEN3013	Signals & Systems II B	Test Lab Exam	20% 20% 60%	Closed book Type 2 + A4 handwritten information sheet	3 hours	2
ELEN3014	Biomedical Signals, Systems and Control	Test Lab Exam	20% 20% 60%	Closed book Type 2 + A4 handwritten information sheet	3 hours	2
ELEN3015	Data and Information Management	Test Labs Exam	20% 20% 60%	Closed book Type 2 + A4 handwritten information sheet	3 hours	1
ELEN3016	Control I	Test Labs Exam	20% 20% 60%	Closed book Type 2 + A4 handwritten information sheet	3 hours	2
ELEN3017	Electrical Engineering Design	Design Project: Blocks 1 and 2 Prelim Report = 25% of design project mark. Project demonstration =10% Final report = 50% Group presentation = 15%			No examination	1
ELEN3018	Economics of Design	Macroeconomics Block 3 = 50% of overall cour mark (20% from Group Project 30% from Class Test) Microeconomics Block 4 = 50% of overall cours mark (20% from Group Project 30% from Class Test)	et and		No examination	2

ELEN3019	Signals & Systems I	Project Test 1	20% 10%	Type 2	3 hours	2
	Systems 1	Test 2 Labs Exam FCOM applies	10% 10% 50%	Equation sheet provided		
ELEN3020	Professional Practice and Software Development (Applied Computing and Digital Arts)	Project Ass Test Labs Final deliverables for cours form the examination	50% 30% 10% 10% se project			
ELEN3021	Capstone Project (Applied Computing)	 Preliminary Report Project Report Presentation Individual Appraisal (Interpretation) FCOM applies – maximum 		15% 60% 25% ±10%	No examination	1+2
ELEN3022	Electronics I (Applied Computing)	Labs Tutorial Test Class Test Exam Project FCOM applies in the Exan component	10% 10% 10% 50% 20%	Closed book Type 2 Equation sheet provided	3 hours	1
ELEN3023	Introduction to Software Engineering (Applied Computing)	Labs Exam Project	20% 50% 30%	Closed Book One A4 crib sheet Equation Sheet provided if necessary	3 hours	1
ELEN3024	Fundamentals of Communication	Test Labs Exam	20% 20% 60%	Closed book Type 2 Equation sheet provided	3 hours	2
WSOA3000	Introduction to Game Creation IIB	Coursework Design Project	50% 50%	Design Project	No Examination	2
WSOA3003	Game Design IIA	Design Project Coursework	50% 50%	Design Project and Technical Report	No Examination	1
WSOA3004	Game Design IIB	Design Project Coursework	50% 50%	Design Project and Technical Report	No Examination	2
ELEN4000 and 4011	Electrical Engineering Design II and Information Engineering Design	Project A student cannot obtain a plant final mark unless all claim ECSA Exit Level Outcomes achieved (see CB&O) FCOM applies	ed	Students are required to report to their supervisor once per week	No examination	2
ELEN4001	High Frequency Techniques	Project Labs Exam	30% 20% 50%	Closed book A4 (handwritten information sheet) Type 2	2 hours	1

ELEN4002 and 4012	Electrical Engineering Laboratory and Information Engineering Laboratory	a) Planning b) Project Report c) Presentation A student cannot obtain of ECSA Exit Level Outcom FCOM applies	No examination	2		
ELEN4003	High Voltage Engineering	Project Exam Lab	30% 60% 10%	Closed book Type 2 + A4 handwritten information sheet	3 hours	1
ELEN4006	Measurement Systems	Project Labs Exam A student cannot obtain a p final mark unless all claime Exit Level Outcomes are ac (refer to the CB&O) FCOM applies	d ECSA	Open Book – limited to: - prescribed text book; - one A4 folder. Type 2	2 hours	1
ELEN4010	Software Development III	Project Exam Labs	20% 50% 30%	Closed book Type 1	2 hours	1
ELEN4014	Electromechanica 1 Conversion	Project Exam Labs	30% 50% 20%	Closed book Type 2 + A4 handwritten information sheet	3 hours	1
ELEN4016	Control II	Project Labs Exam	20% 30% 50%	Closed book Type 2 + A4 handwritten information sheet	3 hours	1
ELEN4017	Network Fundamentals	Project Exam Lab	30% 50% 20%	Closed book Type 2 + A4 handwritten information sheet	3 hours	1
ELEN4018	Power Systems	Project Lab Exam	30% 20% 50%	Closed book Type 2 + A4 handwritten information sheet	3 hours	1
ELEN4019	Engineer in Society	Assign 1 Assign 2 (FCOM) subminimum Test Exam	15 % 15% 20% 50%	The Exam will consist of essay questions, answer 3 out of 5 questions	3 hours	1
ELEN4020	Data Intensive Computing in Data Science	Lab & Scribing Project Exam	20% 30% 50%	Closed Book Type 2 + A4 handwritten information sheet	3 hours	1
MECN4020	Systems Management and Integration	Project Exam	65% 35%	Closed book Type 2 Equation sheet provided	2 hours	1

CALCULATORS:

- Type 0 No calculator permitted
- Type 1 Basic scientific calculator permitted
- Type 2 Engineering calculator permitted (+ handwritten information sheet if specified or as provided)
- Type 3 No restrictions on calculating and data storage devices

GENERAL:

Lectures:

"Better never than late". This is a professional School and students may not be late for lectures.

SATISFACTORY PERFORMANCE (SP):

A student has attended / completed / submitted - labs / projects / tasks, etc as defined in the CB&O. As a rule 100% attendance / completion / submission, etc is required.

FCOM:

See CB&O for each course.

LABORATORIES: There will be no laboratory exemptions.