Timetable UEE62122 Advanced Diploma of Engineering Technology Electrical

Course Code	Title of Unit (Core Units)	Nominal Hours Core	Nominal Hours Electives	Number of weeks	Class based	Laboratory				SDL (self directed learning) in class	SDL (Self directed learning)	Online assessments in IQY LMS
					Class theory delivery	Lab theory teaching	Lab practical teaching	Lab tasks and exercises	Lab practical assessments	Energy LMS exercises	Energy LMS assessments	Summative exam
Term 1												
UEECD0046	Solve problems in single path circuits	40		4 weeks done together	28	4	6	7	3	20	5	4
UEECD0044	Solve problems in multiple path circuits	40										
UEECD0007 (prerequisite)	Apply work health and safety regulations, codes and practices in the workplace	20										
UEECD0024	Implement and monitor energy sector WHS policies and procedures		20	2	14	2	2	4	4	10	2	2
UEECD0016	Document and apply measures to control WHS risks associated with electrotechnology work		20									
UEECD0019	Fabricate, assemble and dismantle utilities industry components		40	2	14	2	3	2	3	12	2	2

Course Code	Title of Unit (Core Units)	Nominal Hours Core	Nominal Hours Electives	Number of weeks	Class based	Laboratory				SDL (self directed learning) in class	SDL (Self directed learning)	Online assessments in IQY LMS
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UEECD0020	Fix and secure electrotechnology equipment		20	2	14	2	3	2	3	12	2	2
Term 2												
UEEEL0020	Solve problems in low voltage (a.c.) circuits	80		4	14	2	3	2	3	12	2	2
UEECD0051	Use drawings, diagrams, schedules, standards, codes and specifications		40	4	14	2	3	2	3	12	2	2
UEECD0025	Lay wiring/cabling and terminate accessories for extra-low voltage (ELV) circuits		40	2	14	2	2	2	2	10	2	2
Term 3												
UEEEL0021	Solve problems in magnetic and electromagnetic devices	30		6 weeks done together	42	6	9	7	10	36	6	6
UEEEL0019	Solve problems in direct current (d.c.) machines	30										
UEEEL0042	Develop engineering solutions for d.c. machine and control problems		50									

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					Class theory delivery	Lab theory teaching	Lab practical teaching	Lab tasks and exercises	Lab practical assessments	Energy LMS exercises	Energy LMS assessments	Summative exam
UEEEL0079	Plan and analyse LV electrical apparatus	60		4	28	4	7	7	7	18	5	4
Term 4												
UEECD0005	Apply physics to solving electrotechnology engineerng problems	60		3	21	4	4	4	3	15	6	3
UEECD0004	Apply material science to solving electrotechnology engineering problems	60		3	21	4	4	4	3	15	6	3
MEM30027	Prepare basic programs for programmable logic controllers		40	2	14	2	2	2	2	10	2	2
ICTICT214	Operate application software packages		20	2	14	2	2	2	2	10	2	2
Term 5												
UEEEL0077	Evaluate and report on the performance of LV machines	100		5 weeks together	35	8	10	10	10	30	6	5
UEEEL0041	Develop engineering solution for synchronous machine and control problems		60									

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UEEEL0043	Develop engineering solutions for induction machine and control problems		60									
UEERE0013	Develop strategies to address environmental and sustainability issues in the energy sector	20		1	1	1	1	1	5		4	1
UEECD0017	Establish and follow a competency development plan in an electrotechnology engineering discipline		100	2	2	2	2	2	10	2	6	4
UEECD0003	Apply industry and community standards to engineering activities	20		1	1	1	1	1	5		4	1
UEECD0056	Apply methods to maintain currency of industry developments		20	1	1	1	1	1	5		4	1
Term 6												
UEECD0036	Provide engineering solutions for problems in complex multiple path circuits	60		4	28	4	6	7	3	20	5	2
UEERE0064	Design renewable energy heating systems		60	2	2	2	2	2	10	2	6	4
UEEEL0080	Plan and analyse wiring systems, circuits, control	100		4	28	4	6	7	3	20	5	2

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	and protection for electrical installations												
Term 7													
UEEEL0062	Provide engineering solutions to problems in complex polyphase power circuits	60		3	21	4	4	4	3	15	6	3	
UEEEC0075	Troubleshoot single phase input d.c power supplies		40	1	1	1	1	1	1	5		4	1
UEERE0066	Develop effective engineering strategies for energy reduction in buildings		60	3	21	4	4	4	3	15	6	3	
UEECD0049	Use advanced computational processes to provide solutions to energy sector engineering problems		80	3	21	4	4	4	3	15	6	3	
Term 8													
UEERE0061	Design grid-connected photovoltaic power supply systems		60	3	21	4	4	4	3	15	6	3	

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UEERE0063	Design off-grid photovoltaic/generating set systems		40									
UEECD0014	Develop design briefs for electrotechnology projects	20		1	7	1	1	1	1			1
UEECD0026	Manage risk in electrotechnology activities	40		1	7	1	1	1	1			1
UEECD0059	Write specifications for electrical engineering projects	40		1	7	1	1	1	1			1
UEECO0001	Estimate electrotechnology projects		40	1	1	1	1	1	1			1
UEEEL0015	Manage large electrical projects	60		1	1	1	1	1	1			1
UEEEL0058	Plan large electrical projects	60		1	1	1	1	1	1			1
UEECO0017	Source and purchase material/parts for installation or service jobs		20	1	1	1	1	1	1			1
UEECD0010	Compile and produce an energy sector detailed report	60		1	1	1	1	1	1			1
TOTAL	**Total Amount of Training: 1440 hours**											

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	Delivery Period	**Class sessions: 1 Term 1 to 8** 80 weeks x 14 hours per week= 1120 hrs **Electrical Lab:** 80 weeks x 4 hours per weeks= 320 hrs **Total delivery period is 80 weeks + 24 weeks holiday breaks = 104 weeks** **TOTAL 104 weeks 2160 Points and 1440 Hours**										
	Location of delivery											

Timetable UEE62122 Advanced Diploma of Engineering Technology Electrical-Electronics Stream

Course Code	Title of Unit (Core Units)	Nominal Hours Core	Nominal Hours Electives	Number of weeks	Class based	Laboratory				SDL (self directed learning) in class	SDL (Self directed learning)	Online assessments in IQY LMS
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Term 1												
UEECD0046	Solve problems in single path circuits	40		4 weeks done together	28	4	6	7	3	20	5	4
UEECD0044	Solve problems in multiple path circuits	40										
UEECD0007 (prerequisite)	Apply work health and safety regulations, codes and practices in the workplace	20										
UEECD0024	Implement and monitor energy sector WHS policies and procedures		20	2	14	2	2	4	4	10	2	2
UEECD0016	Document and apply measures to control WHS risks associated with electrotechnology work		20									
UEECD0019	Fabricate, assemble and dismantle utilities industry components		40	2	14	2	3	2	3	12	2	2

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					Class theory delivery	Lab theory teaching	Lab practical teaching	Lab tasks and exercises	Lab practical assessments	Energy LMS exercises	Energy LMS assessments	Summative exam
UEECD0020	Fix and secure electrotechnology equipment		20	2	14	2	3	2	3	12	2	2
Term 2												
UEEEL0020	Solve problems in low voltage (a.c.) circuits	80		4	14	2	3	2	3	12	2	2
UEECD0051	Use drawings, diagrams, schedules, standards, codes and specifications		40	4	14	2	3	2	3	12	2	2
UEECD0025	Lay wiring/cabling and terminate accessories for extra-low voltage (ELV) circuits		40	2	14	2	2	2	2	10	2	2
Term 3												
UEEEL0021	Solve problems in magnetic and electromagnetic devices	30		6 weeks done together	42	6	9	7	10	36	6	6
UEEEL0019	Solve problems in direct current (d.c.) machines	30										
UEEEC0060	Repairs basic electronic apparatus faults by replacement of components		40									

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UEEEL0079	Plan and analyse LV electrical apparatus	60		4	28	4	7	7	7	18	5	4
Term 4												
UEECD0005	Apply physics to solving electrotechnology engineerng problems	60		3	21	4	4	4	3	15	6	3
UEECD0004	Apply material science to solving electrotechnology engineering problems	60		3	21	4	4	4	3	15	6	3
UEEEC0005	Assess electronic apparatus compliance	60		3	21	4	4	4	3	15	6	3
UEERE0066	Develop effective engineering strategies for energy reduction in buildings		60	3	21	4	4	4	3	15	6	3
Term 5												
UEEEL0077	Evaluate and report on the performance of LV machines	100		5 weeks together	35	8	10	10	10	30	6	5
UEEIC0013	Develop, enter and verify discrete control programs for programmable controllers		60									

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UEEIC0015	Develop, enter and verify word and analogue control programs for programmable logic controllers		60	3	21	4	4	4	3	15	6	3
UEERE0013	Develop strategies to address environmental and sustainability issues in the energy sector	20		1	1	1	1	1	5		4	1
UEECD0017	Establish and follow a competency development plan in an electrotechnology engineering discipline		100	2	2	2	2	2	10	2	6	4
UEECD0003	Apply industry and community standards to engineering activities	20		1	1	1	1	1	5		4	1
UEECD0056	Apply methods to maintain currency of industry developments		20	1	1	1	1	1	5		4	1
Term 6												
UEECD0036	Provide engineering solutions for problems in complex multiple path circuits	60		4	28	4	6	7	3	20	5	2
UEEIC0014	Develop, enter and verify programs in supervisory control and data acquisition systems		60	2	2	2	2	2	10	2	6	4
UEEEL0080	Plan and analyse wiring systems, circuits, control	100		4	28	4	6	7	3	20	5	2

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	and protection for electrical installations											
Term 7												
UEEEL0062	Provide engineering solutions to problems in complex polyphase power circuits	60		3	21	4	4	4	3	15	6	3
UEEEC0014	Design signal-conditioning sub-systems		80	3	21	4	4	4	3	15	6	3
UEECD0049	Use advanced computational processes to provide solutions to energy sector engineering problems		80	3	21	4	4	4	3	15	6	3
Term 8												
UEEIC0007	Design and use advanced programming tools, PC networks and HMI Interfacing		120	6	42	8	8	8	6	30	12	6

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UEECD0014	Develop design briefs for electrotechnology projects	20		1	7	1	1	1	1			1
UEECD0026	Manage risk in electrotechnology activities	40		1	7	1	1	1	1			1
UEECD0059	Write specifications for electrical engineering projects	40		1	7	1	1	1	1			1
UEECO0001	Estimate electrotechnology projects		40	1	1	1	1	1	1			1
UEEEL0015	Manage large electrical projects	60		1	1	1	1	1	1			1
UEEEL0058	Plan large electrical projects	60		1	1	1	1	1	1			1
UEECO0017	Source and purchase material/parts for installation or service jobs		20	1	1	1	1	1	1			1
UEECD0010	Compile and produce an energy sector detailed report	60		1	1	1	1	1	1			1
TOTAL	**Total Amount of Training: 1440 hours**											

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	Location of delivery											