

UNIVERSITY OF MINES AND TECHNOLOGY, TARKWA
POSTGRADUATE MODULAR PROGRAMME IN
ELECTRICAL AND ELECTRONIC ENGINEERING

2025/2026 ACADEMIC YEAR

C

Module No	Module Title	Date	Instructor
EL 580	Wireless Technologies	7 th July – 18 th July, 2025	Mr S. Ofori
EL 578	Broadcasting Technologies		Assoc Prof C. K. Amuzuvi
EL 592	Green Energy and Smart Grid Systems	21 st July – 1 st Aug, 2025	Dr J. K. Annan
EL 407	Probability and Statistics for Engineers*	4 th Aug– 15 th Aug, 2025	Dr B. Odoi
EL 572	Advanced Signal Processing**		Assoc Prof S. Nunoo
EL 401	MATLAB/SIMILINK for Engineer*	18 th Aug – 29 th Aug, 2025	Dr J. K. Annan
EL 590	Power Systems Optimisation and Economics	1 st Sept – 12 th Sept, 2025	Assoc Prof J. C. Attachie
EL 551	Research Methods***	15 th Sept – 26 th Sept, 2025	Assoc Prof S. Nunoo
EL 556	Field/Laboratory Work***	29 th Sept – 10 th Oct, 2025	Dr R. A. Ofosu
EL 405	Numerical Methods*	13 th Oct – 24 th Oct, 2025	Dr H. Otoo
EL 571	Modelling and Simulation **		Assoc Prof S. Nunoo
EL 577	Microwave Engineering and Optical Communication Systems	27 th Oct – 7 th Nov, 2025	Assoc Prof C. K. Amuzuvi
EL 573	Artificial Intelligence in Manufacturing**		Mr K. Abakah-Paintsil / Dr R. A. Ofosu
EL 560	Engineering Economics**	10 th Nov – 21 st Nov, 2025	Dr K. Kamasa
EL 403	Introduction to Computer Applications*		Assoc Prof S. Nunoo
EL 579	Computer Control Systems**	24 th Nov – 5 th Dec, 2025	Dr J. K. Annan
EL 581	Advanced Robotics	8 th Dec – 19 th Dec, 2025	Mr K. Abakah-Paintsil/ Assoc Prof J. C. Attachie
EL 588	Environmental and Safety Engineering		Dr T. Wi-Afedzi
EL 583	Industrial Automation		Assoc Prof S. Nunoo
EL 575	Power System Planning, Protection and Operations**	5 th Jan – 16 th Jan, 2026	Mr P. Blewushie
EL 574	Microprocessor Systems**	19 th Jan – 30 th Jan, 2026	Mr F. Mumuni
EL 407	Probability and Statistics for Engineers*	2 nd Feb – 13 th Feb, 2026	Dr B. Odoi
EL 401	MATLAB/ SIMILINK for Engineers*	16 th Feb – 27 th Feb, 2026	Dr J. K. Annan
EL 551	Research Methods***	2 nd Mar – 13 th Mar, 2026	Assoc Prof S. Nunoo
EL 405	Numerical Methods*	16 th Mar – 27 th Mar, 2026	Dr H. Otoo
EL 403	Introduction to Computer Applications*	30 th Mar – 10 th April, 2026	Assoc Prof S. Nunoo
EL 586	Mobile Communication Systems	13 th Apr – 24 th Apr, 2026	Mr S. Ofori
EL 576	Power System Modelling, Stability and Control	27 th Apr – 8 th May, 2026	Assoc Prof J. C. Attachie
EL 582	Electrical Machines and Power Electronics Drives	11 th May – 22 nd May, 2026	Mr P. Blewushie
EL 584	Optimal Control Systems	25 th May – 5 th Jun, 2026	Dr Alhassan Osman
EL 553	Operations Research	8 th Jun – 19 th Jun, 2026	Dr H. Otoo
EL 500	Thesis		Supervisors
EL 655	Individual Studies		Supervisors

* Preparatory/Introductory Module

** Core Module

*** University Mandatory Module

- N.B. (i) Module Fee: **GH¢1000.00** per module for registered Students
 Module Fee: **GH¢1,400.00** per module for participants (non-registered students)
 Module Fee: **\$500.00** per module for foreign participants

(ii) Registration closes one (1) week before the commencement of the module.

PROGRAMME DURATION

MSc/MPhil

Full Time:	2 years	+ 1 year extension	taken in 6 months instalment.
Part Time:	3 years	+ 1 year extension	taken in 6 months instalment.

PhD

Full Time:	3 years	+ 1 year extension	taken in 6 months instalment.
Part Time:	4 years	+ 1 year extension	taken in 6 months instalment.

DEng

Part Time:	4 years	+ 1 year extension	taken in 6 months instalment.
------------	---------	--------------------	-------------------------------

REQUIREMENTS FOR GRADUATION

MSc

- i. A minimum of fifty-seven (57) credit hours is required for the award of **MSc** Degree. This is made up of a minimum of seven (7) compulsory modules (at least 21 credit hours) and at least three (3) other modules (electives) which must be selected by the candidate in consultation with his/her supervisor(s), Postgraduate Seminar (3 credit hours), Field/Laboratory Work (3 credit hours) and Thesis (21 credit hours).
- ii. The successful defence of a **thesis** is required for the award of the MSc degree in Electrical and Electronic Engineering. The thesis should be an embodiment of independent research conducted by the student under the guidance of a supervisor (s) on a significant problem in a chosen area of Electrical and Electronic Engineering.

MPhil

- i. A minimum of sixty (60) credit hours is required for the award of **MPhil** Degree. This is made up of a minimum of seven (7) compulsory modules (at least 21 credit hours) and at least one other module (elective) which must be selected by the candidate in consultation with his/her supervisor(s), Postgraduate Seminar (3 credit hours), Field/Laboratory Work (3 credit hours) and Thesis (30 credit hours).
- ii. The successful defence of a **thesis** and publication of **at least one (1) technical paper** arising out of the research are required for the award of the MPhil degree in Electrical and Electronic Engineering. The thesis should be an embodiment of independent research conducted by the student under the guidance of a supervisor (s) on a significant problem in a chosen area of Electrical and Electronic Engineering.

PHD

- i. A minimum of fifty-seven (57) credit hours (45 credit hours for thesis, 6 credit hours for two seminars, 3 credit hours for Research Methods and 3 credit hours for Individual Studies) is required for the award of a PhD degree in Electrical and Electronic Engineering. In addition, he/she may audit modules recommended by the Supervisor (s) to facilitate the student's research work.
- ii. The successful defence of a **thesis** and publication of **at least two (2) technical papers** arising out of the research are required for the award of the PhD degree in Electrical and Electronic Engineering. The thesis should be an embodiment of independent research conducted by the student under the guidance of a supervisor (s) on a significant problem in a chosen area of Electrical and Electronic Engineering. It should contribute significant knowledge to the chosen area.

DEng

- i. A minimum of 39 credit hours shall be required for graduation. This is made up of thesis, two (2) seminars, three (3) taught courses (i.e., Research Methods and two (2) other courses in the area of specialisation ***including at least one (1) individual studies, and one (1) publication.***
The thesis is to solve industry-based problem.