

ELECTRICAL - ELECTRONICS ENGINEERING (Advanced Program)

From Intake 2013 onwards

Sem.	No.	Subjects (English)	Subjects (Vietnamese)	Credit
Pre	1	Softskill	K n ng m m	2
Pre	2	Physical Training 1	Giáo d c Th ch t 1	0
Total Credits				2

Sem.	No.	Subjects (English)	Subjects (Vietnamese)	Credit
1	1	English 1	Anh v n 1	2
1	2	English 2	Anh v n 2	2
Total Credits				4

Sem.	No.	Subjects (English)	Subjects (Vietnamese)	Credit
2	1	English 3	Anh v n 1	2
2	2	English 4	Anh v n 2	2
Total Credits				4

Sem.	No.	Subjects (English)	Subjects (Vietnamese)	Credit
1	1	General Chemistry 1	Hóa ic ng 1	2
1	2	Engineering Lecture + English for Electrical - Electronics Eng	Nh p môn K thu t + Anh v n chuyên ngành i n - i n t	0
1	3	Calculus 1	Gi i tích 1	5
1	4	Intro to Elec & Computer Eng	C s K thu t i n - Máy tính	4
1	5	Univ Physics - Mechanics	V t lý - C h c	4
1	6	Introduction to VN Law System	Pháp lu t Vi t Nam ic ng	2
1	7	Physical Training 2	Giáo d c Th ch t 2	0
Total Credits				17

Sem.	No.	Subjects (English)	Subjects (Vietnamese)	Credit
2	1	Calculus of Several Variables	Gi i tích Hàm nhi u bi n	3
2	2	Calculus 2	Gi i tích 2	3
2	3	Intro to Computing Systems	C s H th ng tính	4
2	4	General Chemistry Lab 1	Thí nghi m Hóa ic ng	1
2	5	Physics Lab	Thí nghi m V t lý	1
2	6	Physical Training 3	Giáo d c Th ch t 3	0
2	7	Basic principles of Marxism-Leninism	Nguyên lý C b n Ch ngh a Mác-Lênin	5

Total Credits		17
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Sem.	No.	Subjects (English)	Subjects (Vietnamese)	Credit
3	1	Univ Physics - Elec & Mag	V t lý - i n t h c	4
3	2	Intro Differential Equations	C s Ph ng trình vi phân	3
3	3	Analog Signal Processing	X lý Tín hi u t ng t	4
3	4	Univ Physics - Thermal Phys	V t lý - Nhi t h c	2
3	5	Univ Physics - Quantum Phys	V t lý - L ng t	2
3	6	Linear Algebra	i s Tuy n tính	3
3	7	HoChiMinh's Thoughts	T t ng H Chí Minh	2
3	8	Military Training	Giáo d c Qu c phòng	0
Total Credits				20

Sem.	No.	Subjects (English)	Subjects (Vietnamese)	Credit
4	1	Intro Electromagnetic Fields	C s Tr ng i n t	3
4	2	Solid State Electronic Devices	Linh ki n Bán d n	3
4	3	Computer Engineering 1	K thu t Máy tính 1	3
4	4	Electronics Circuits	M ch i n t	3
4	5	Electronics Ciccuits Laboratory	Thí nghi m M ch i n t	1
4	6	Digital Systems Laboratory	Thí nghi m K thu t s	2
4	7	Direction of the Vietnamese Communist Party	ng l i Cách m ng ng C ng s n VN	3
Total Credits				18

Sem.	No.	Subjects (English)	Subjects (Vietnamese)	Credit
5	1	Probability with Engrg Applications	Xác xu t và ng d ng k thu t	3
5	2	Digital Signal Processing	X lý Tín hi u s	3
5	3	Computer Systems Engineering	K thu t H th ng máy tính	3
5	4	Microcomputer Laboratory	Thí nghi m Vi i u khi n	3
5	5	Numerical Methods	Ph ng pháp tính	2
5	6	Economics	Kinh t h c	3
5	7	Capstone Project 1	án 1	1
Total Credits				18

Sem.	No.	Subjects (English)	Subjects (Vietnamese)	Credit
6	1	Thermodynamics	Nhi t ng l ch c	2
6	2	Digital Signal Processing Laboratory	Thí nghi m X lý tín hi u s	2
6	3	Lines, Fields and Waves	Tr ng và Sóng i n t	3
6	4	Power Ciccuits and Electromechanics	M ch Công su t và i n c	3
6	5	Principles of Composition	Nguyên lý T lu n	3

6	6	Marketing	Ti p th	3
6	7	Capstone Project 2	án 2	1
Total Credits				17

Power - Energy System Area

Sem.	No.	Subjects (English)	Subjects (Vietnamese)	Credit
7	1	Intro to Control Systems + Control Eng Lab	C s H th ng i u khi n + Thí nghi m K thu t i u khi n	4
7	2	Power Electronics	i n t Công su t	3
7	3	Electric Machinery	Máy i n	3
7	4	Electrical Machinery Laboratory	Thí nghi m Máy i n	2
7	5	Industrial Quality Control	Qu n lý Ch t l ng công nghi p	3
7	6	Industry Internship	Th c t p Công nghi p	2
Total Credits				17

Communication Systems Area

Sem.	No.	Subjects (English)	Subjects (Vietnamese)	Credit
7	1	Communications 1	H th ng Thông tin 1	3
7	2	Intro to Image and Video Processing	C s X lý nh và video	3
7	3	Radio Communication Circuits	M ch i n t thông tin	3
7	4	Digital Communications	Thông tin S	3
7	5	Industrial Quality Control	Qu n lý Ch t l ng công nghi p	3
7	6	Industry Internship	Th c t p Công nghi p	2
Total Credits				17

Control Systems Area

Sem.	No.	Subjects (English)	Subjects (Vietnamese)	Credit
7	1	Intro to Control Systems + Control Eng Lab	C s H th ng i u khi n + Thí nghi m K thu t i u khi n	4
7	2	Power Electronics	i n t Công su t	3
7	3	Industrial Quality Control	Qu n lý Ch t l ng công nghi p	3
7	4	Industry Internship	Th c t p Công nghi p	2
7	5	Communication Networks	H th ng Thông tin	3
7	6	Sensors and Intrumentation	C m bi n và o l ng	3
Total Credits				18

Power - Energy System Area

Sem.	No.	Subjects (English)	Subjects (Vietnamese)	Credit
8	1	Power Systems Analysis	Gi i tích H th ng i n	3
8	2	Renewable Energy Systems	H th ng N ng l ng tái t o	3

8	3	Techniques for Engineering Decisions	K thu t Ra quy t nh	3
8	4	Power Electronics Laboratory	Thí nghi m i n t công su t	2
8	5	Electrical Power Systems Lab	Thí nghi m Gi i tích h th ng i n	2
8	6	Communication Networks	M ng Thông tin	3
8	7	Senior Design Project	Lu n v n T t nghi p	8
Total Credits				24

Communication Systems Area

Sem.	No.	Subjects (English)	Subjects (Vietnamese)	Credit
8	1	Communications 2	H th ng Thông tin 2	3
8	2	Digital Communications Lab	Thí nghi m Thông tin s	1
8	3	Computer Networking Laboratory	Thí nghi m M ng máy tính	1
8	4	Communication Networks	M ng Thông tin	3
8	5	Techniques for Engineering Decisions	K thu t Ra quy t nh	3
8	6	Wireless Network	M ng Không dây	3
8	7	Senior Design Project	Lu n v n T t nghi p	8
Total Credits				22

Control Systems Area

Sem.	No.	Subjects (English)	Subjects (Vietnamese)	Credit
8	1	Techniques for Engineering Decisions	K thu t Ra quy t nh	3
8	2	Power Electronics Laboratory	Thí nghi m i n t công su t	2
8	3	Introduction to Robotics	C s Ng i máy (Robot)	3
8	4	Nonlinear and Adaptive Control	i u khi n Phi tuy n và thích nghi	3
8	5	Industrial Automation + Lab	T ng hóa Công nghi p + Thí nghi m	3
8	6	Senior Design Project	Lu n v n T t nghi p	8
Total Credits				22

Total Credits of Power & Energy Systems Area				158
Total Credits of Communication Systems Area				156
Total Credits of Control Systems Area				157