

				Republic of Iraq - Ministry of Higher Education and Scientific Research Northern Technical University Bachelor's degree in Electrical Engineering Techniques (First cycle) Four years (Eight semesters) - 240 ECTS credits - 1 ECTS = 30 hr Program Curriculum (2025 - 2026)										جمهورية العراق - وزارة التعليم العالي والبحث العلمي الجامعة التقنية الشمالية بكالوريوس في تقنيات الهندسة الكهربائية (الدورة الأولى) اربع سنوات (ثمان فصول دراسية) - 240 وحدة اوروبية - كل وحدة اوروبية = 30 ساعة المنهاج الدراسي للعام الدراسي 2025-2026										 جامعة التقنية الشمالية Northern Technical University		
Level	Semester	No.	Module Code	Module Name in English	اسم المادة التدريسية	Language	SSWL (hr/w)							Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS	Module Type	Prerequisite Module(s)						
							CL	Lect	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)														
UGI	One	1	EET100	DC Electrical Circuits	دوائر التيار المستمر	English	4		2				3	3	93	107	200	8	C	LRM						
		2	EET101	Digital Technologies	التقنيات الرقمية	English	4		2				3	3	93	57	150	6	C	LRM						
		3	EET102	Engineering Drawing	الرسم الهندسي	English			4					3	63	87	150	6	B	None						
		4	EET103	Mathematics	الرياضيات	English	4				2		3	3	93	57	150	6	B	LRM						
		5	NTU100	Human Rights and Democracy	ديمقراطية وحقوق الإنسان	Arabic	2					6		3	33	17	50	2	S	None						
		6	NTU101	English Language	اللغة الانكليزية	English	2							3	33	17	50	2	S	None						
Total							16	0	8	0	2	15	18	408	342	750	30									
Semester	Two	No.	Module Code	Module Name in English	اسم المادة التدريسية	Language	SSWL (hr/w)							Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS	Module Type	Prerequisite Module(s)						
		CL	Lect	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)																			
		1	EET104	Engineering Mechanics	الميكانيك الهندسي	English	3						6	3	48	102	150	6	B	None						
		2	EET105	Engineering Workshops	ورش العمل الهندسية	English			3					4	3	48	102	150	6	B	None					
		3	EET106	AC Electrical Circuits	دوائر التيار المتردد	English	4		3					4	3	108	92	200	8	C	LRM					
		4	EET107	Physics	الفيزياء	English	3		2					4	3	78	72	150	6	B	LRM					
Semester	Three	No.	Module Code	Module Name in English	اسم المادة التدريسية	Language	SSWL (hr/w)							Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS	Module Type	Prerequisite Module(s)						
		CL	Lect	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)																			
		1	EET200	DC Generators	مولدات التيار المستمر	English	3		2					3	3	78	72	150	6	C	LRM					
		2	EET201	Electronic Essentials	اساسيات الالكترونيات	English	3		2					2	3	78	47	125	5	C	LRM					
		3	EET202	Electrical Circuit Analysis	تحليل الدوائر الكهربائية	English	2		2					3	3	63	62	125	5	C	LRM					
		4	EET203	Sensors	المتحسسات	English	2		2					4	3	63	62	125	5	C	LRM					
Semester	Four	No.	Module Code	Module Name in English	اسم المادة التدريسية	Language	SSWL (hr/w)							Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS	Module Type	Prerequisite Module(s)						
		CL	Lect	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)																			
		1	EET207	DC Motors	محركات التيار المستمر	English	3		2					3	3	78	72	150	6	C	LRM					
		2	EET208	communication	الاتصالات	English	2		2					3	3	63	87	150	6	C	LRM					
		3	EET209	power circuit and transformer	دوائر القدرة والمحولات	English	2		2					4	3	63	137	200	8	C	LRM					
		4	EET210	Instruments and Measurements	الأجهزة والقياسات	English	3		2					2	3	78	72	150	6	C	LRM					
Semester	Five	No.	Module Code	Module Name in English	اسم المادة التدريسية	Language	SSWL (hr/w)							Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS	Module Type	Prerequisite Module(s)						
		CL	Lect	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)																			
		1	EET300	Principles of Power Engineering	مبادئ هندسة القدرة	English	3		2					3	3	78	47	125	5	C	LRM					
		2	EET301	DC Power Conversions	مغيرات القدرة المستمرة	English	3		2					3	3	78	47	125	5	C	LRM					
		3	EET302	Induction Machines	المكانز الحثية	English	3		2					2	3	78	47	125	5	C	LRM					
		4	EET303	Electromagnetic Fields	المجالات الكهرومغناطيسية	English	3		2					2	3	78	47	125	5	C	LRM					
Semester	Six	No.	Module Code	Module Name in English	اسم المادة التدريسية	Language	SSWL (hr/w)							Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS	Module Type	Prerequisite Module(s)						
		CL	Lect	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)																			
		1	EET306	control systems	النظم البسيطة	English	2		2					3	3	63	62	125	5	C	LRM					
		2	EET307	AC Power Conversions	مغيرات القدرة المتناوبة	English	2		2					3	3	63	62	125	5	C	LRM					
		3	EET308	Synchronous and Special Machines	المكانز التزامنية والخاصة	English	4		2					3	3	93	32	125	5	C	LRM					
		4	EET309	Numerical analysis	تحليلات عددية	English	3		2					3	3	48	77	125	5	C	LRM					
Semester	Seven	No.	Module Code	Module Name in English	اسم المادة التدريسية	Language	SSWL (hr/w)							Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS	Module Type	Prerequisite Module(s)						
		CL	Lect	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)																			
		1	EET400	Transmission and Distribution	نظم التوزيع والنقل	English	4		2					3	3	93	32	125	5	C	LRM					
		2	EET401	Electric Machine Drives	محركات المكانز الكهربائية	English	4		2					3	3	93	32	125	5	C	LRM					
		3	EET402	Power Systems Analysis	تحليل أنظمة القدرة	English	4		2					3	3	93	32	125	5	C	LRM					
		4	EET403	Electric Power Generation Stations	محطات توليد القدرة	English	3		2					3	3	78	47	125	5	C	LRM					
Semester	Eight	No.	Module Code	Module Name in English	اسم المادة التدريسية	Language	SSWL (hr/w)							Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS	Module Type	Prerequisite Module(s)						
		CL	Lect	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)																			
		1	EET406	power system operation and control	تشغيل والتحكم في أنظمة	Arabic	2		2					3	3	33	42	75	3	S	None					
		2	EET407	Power System Protection	حماية أنظمة القدرة	English	2		2					3	3	63	87	150	6	C	LRM					
		3	EET408	Power system stability	استقرار أنظمة القدرة	English	2		2					3	3	63	87	150	6	C	LRM					
		4	EET409	High Voltage Techniques	تقنيات الضغط العالي	English	3		2					1	3	78	47	125	5	C	LRM					
Semester	Nine	No.	Module Code	Module Name in English	اسم المادة التدريسية	Language	SSWL (hr/w)							Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS	Module Type	Prerequisite Module(s)						
		CL	Lect	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)																			
		1	EET410	Project 2	مشروع 2	English	3		1		4			3	3	93	32	125	5	C	LRM					
		2	EET411	profesional safty	السلامة المهنية	English	3		2					3	3	78	47	125	5	E	LRM					
		Total							12	1	9	4	0	13	18	408	342	750	30							
		Note: Columns O, Q, and R are programmed, protected and should not be edited.																			PASSWORD= 123456					
Note: The summer training course has 8 training weeks (320 hours) [4 weeks x 5 days/week x 8 hours/day]																										
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