Department of Electrical Engineering

Curriculum Requirements for Enrollees in the Academic Year 111 (Fall 2022)

Prog	gram	Four-year technical college program of the Day Division										
Gro	oup	None										
Class	Туре	Regular Class										
Special	Program	None										
		Department Curriculum										
		College Curriculum										
Curriculum	Committee	University Curriculum	iculum 111.06.06									
		Academic Affairs 111.06.06										
Graduatio /Study I	on Credits Duration	At least 128 credits required (normally 4 years).										
	Load per ester	Students in Grades 1 and 2 must take no fewer than 16 credits and no more than 28 credits per semester. Students in Grades 3 and 4 must take no fewer than 9 credits and no more than 25 credits per semester.										
Required an	nd Elective	Credits	Subject Category			Credits						
			Gen	eral E	Education	15 Credits						
Requ	ired	75 Credits	Major Required				60 Credits					
			College Major				0 Credits					
		1		General Education		6 Credits						
Elec	tive	53 Credits	Major Elective			47 Credits						
Other Reg	gulations		•									
Rema	arks	"Computer Course" mean	ns com	puter	access is n	required (c	computer and internet u	sage f	ee).			
	First S	emester, First Year			Second Semester, First Year							
Course	Course	Course Name	Credits / Hours	Notes	Course	Course	Course Name	Credits / Hours	Notes			
General Education	405021	Chinese(1)	2/2		General Education	405022	Chiness(2)	2/2				
General Education	400E00	English(I)	2/2		General Education	400F00	English(II)	2/2				
General Education	405081	Community Service & Learning(1)	0/1		General Education	405082	Community Service & Learning(2)	0/1				
General Education	400A00	physical education (1)	1/2		General Education	400B00	physical education (2)	1/2				
General Education	300A00		2/2		General Education	300B00	General Courses (II)	2/2				
Major Required	405057	Human Rights and Legal Education	2/2		Major Required	405C02	Physics(2)	3/3				
Major Required	405C01	Physics (1)	3/3		Major Required	405C08	Calculus(2)	3/3				
Major Required	405C03	Physics Lab.	1/2		Major Required	405C06	Computer Program	2/3	Compu ter Cours e			
Major Required	405C07	Calculus (1)	3/3		Major Required	405C04	Chemistry	3/3				
Major Required	405C09	Introduction to Electrical Engineering	0/1		Major Required	405004	Labor education (2)	0/1				
Major Required	405031	Introduction to Computer Science	2/3	Compu ter Cours e	Major Elective	405885	Industrial Wiring internship	2/3				

Major Required	405003	Labor education (1)	0/1		Major Elective	405892	Computer Programming and Application	1/2	Compu ter Cours e			
	18 Credits, 24 Hours					21 Credits, 27 Hours						
	First Semester, Second Year						Semester, Second Year	1	1			
Course	Course	Course Name	Credits / Hours	Notes	Course	Course	Course Name	Credits / Hours	Notes			
General Education	400G00	English(III)	2/2		General Education	400H00	English (IV)	2/2				
General Education	400C00	Physical Education (III)	1/2		Major Required	405023	Practical Chinese	2/2				
General Education	300C00		2/2		Major Required	405C13	Electric Circuits(2)	3/3				
Major Required	405056	Contemporary Taiwan and Modern World	2/2		Major Required	405C15	Engineering Mathematics (2)	3/3				
Major Required	405C12	Electric Circuits (1)	3/3		Major Required	405C17	Electronics (2)	3/3				
Major Required	405C14	Engineering Mathematics (1)	3/3		Major Required	405D42	Single-Chip Application and Lab.	2/3				
Major Required	405C16	Electronics (1)	3/3		Major Elective	405886	Mechatronics Integration Practice(1)	2/3				
Major Required	405C36	Electronics Lab.	2/3		Major Elective	405893	Internet Applications	2/3	Compu ter Cours e			
Major Required	405C43	Programmable Logic Control and Lab.	2/3		Major Elective	405N12	Professional Electrical Engineering English	2/2				
Major Elective	405Q10	Logic Design and Lab.	3/3		Major Elective	405Q15	Signals and Systems	3/3				
Major Elective	405Q47	Computer Software Application and Lab.	2/3	Compu ter Cours e	Major Elective	405R86	Photovoltaic System Construction Practice	2/3				
Major Elective	405T16	Green energy and energy conservation engineering	3/3									
	28 (Credits, 32 Hours				26	Credits, 30 Hours					
	First S	Semester, Third Year				Second S	Semester, Third Year					
Course	Course	Course Name	Credits / Hours	Notes	Course	Course	Course Name	Credits / Hours	Notes			
Major Required	405C19	Control System	3/3		Major Required	405C20	Control System Lab	1/3				
Major Required	405C21	Project in Practice (1)	1/2		Major Required	405C22	Project in Practice (2)	1/2				
Major Required	405C28	Electrical Machinery(1)	3/3		Major Required	405C29	Electrical Machinery Lab.	1/3				
Major Elective	405883	Introduction to Electric Vehicles	3/3		Major Elective	405884	Mechatronics and Practical of electric vehicles	3/3				
Major Elective	405887	Mechatronics Integration Practice(2)	2/3		Major Elective	405895	Digital System Design	2/3				
Major Elective	405894	Linear Algebra	3/3		Major Elective	405N10	PC-based programming practice	2/3				
Major Elective	405N09	Supervisory Control System and Practice	3/3		Major Elective	405Q18	Power Systems(1)	3/3				
Major Elective	405N11	Microprocessor and Lab	2/3	Compu ter Cours e	Major Elective	405Q20	Control System Design	3/3				
Major Elective	405Q14	Computer-Aided Circuit Design and Practice	2/3	Compu ter Cours e	Major Elective	405Q40	Computer Graphics on Electrical Engineering	3/3	Compu ter Cours e			
Major Elective	405Q16	Distribution Design	3/3		Major Elective	405Q42	Electrical Machinery(2)	3/3				

Reserve Major Control										
Riective Moster Moster Elements of Fiber Option		405Q21		3/3			405Q71		3/3	
Elective Semiconductor Semiconductor Semiconductor Elective Elect		405Q41	Electromagnetism	3/3			405R15	Materials and Elements of Fiber-	3/3	
Course C		405R13	Electro-optics	3/3			405R50		3/3	
Major Ricetive 405N07 Personal Character and Professional Elective 405N07 Programing 2/2 Major Ricetive 405N07 Programing 2/2 Major Ricetive 405Q25 Energy Technology 3/3 Major Ricetive 405Q25 Energy Technology 3/3 Major Ricetive 405Q25 Energy Technology 3/3 Rajor Ricetive 405Q27 Respired 405Q25 Energy Technology 3/3 Rajor Ricetive 405Q27 Respired 405Q27 Respired 405Q27 Respired 405Q25 Energy Technology 3/3 Rajor Ricetive 405Q25 Energy Technology 3/3 Rajor Ricetive 405Q27 Respired 405Q27		405R14		3/3			405R71	optoelectronic manufacturing	3/3	
Programming and Analysis Anal	Elective	405T08		2/3			405T31	Distribution Design and Lab.	2/3	
Analysis	Major Elective	400N01	Teaching assistant practice	1/1						
First Semester, Fourth Year Course Course Course Name Course Name Required A05058 English Proficiency Qualification Placitive Elective A05058 English Proficiency Qualification Auditor Required A05058 Introduction to Manufacturing Training A05058 Introduction to Manufacturing Training A05059 Practic of Elective A05059 Practic of Elective A05059 Practic of Elective A05059 Practic of Elective A05059 Practic of Electrical Supervision A05059 Processional Elective A05059 Practic of Electrical Supervision A05050 Processional A05059 Processional A05059 Processional A05059 Practic of Electrical Supervision A05059 Practic of Electrical Supervision A05059 Practic of Electrical Elective A05059 Practic of Electrical Electrical A05059 Processional Electrical A05059 Processional A05059 Processional Electrical A05059 Processional A05059 Practic of Electrical A	None	405R55		3/3						
Course Mame Credits Notes Course Course Course Course Mame Credits Course Course Course Course Mame Credits Course Cours										
Course Major Ma		43	Credits, 48 Hours				36	Credits, 44 Hours		
Major Required 405058 English Proficiency qualification 0/2 Qualification College Najor 40TND9 Interdisciplinary program learning 0/1 Major Elective 405865 Introduction to Semiconductor Manufacturing Technology College Major 40TNP1 Micro Course Program for Engineering Digital Technology 0/1 Major Elective 405806 Originality Thinking Training 2/2 Major Required 405C42 Electrical Engineering Practical Capability Certification 0/2 Major Elective 405N07 Personal Character and Professional Ethics 2/2 Major Elective 405848 Thin Film Engineering 3/3 and Lab Major Elective 405Q19 Power Systems(2) 3/3 Major Elective 405891 Numerical Methods 3/3 Elective 405Q24 Power electronics 3/3 Major Elective 405896 Power Generation Technology for New and Renewable Resource Major Elective 405Q25 Energy Technology. 3/3 Major Elective 405Q32 Electrical Supervisory and Control Automation Major Elective 405Q43 Project Management 3/3 Major Elective <td></td> <td>First S</td> <td>emester, Fourth Year</td> <td></td> <td></td> <td></td> <td>Second S</td> <td>Semester, Fourth Year</td> <td></td> <td></td>		First S	emester, Fourth Year				Second S	Semester, Fourth Year		
Required Major Elective Major Elec	Course		Course Name	/	Notes	Course	Course	Course Name	/ Hours	Notes
Semiconductor Manufacturing Required Micro Course Program for Engineering Picknology Major Elective 405N06 Originality Thinking 2/2 Major Elective 405N07 Personal Character and Professional Ethics Major Elective 405Q19 Power Systems(2) 3/3 Major Elective Major Elective 405Q24 Power electronics 3/3 Major Elective Major Elective 405Q25 Energy Technology 3/3 Major Elective Major Elective 405Q25 Energy Technology 3/3 Major Elective Major Elective 405Q49 Project Management 3/3 Major Elective 405Q49 Electrical Similation Major Elective 405Q49 Practic of Electrical 2/3 Major Elective 405Q49 Electrical Elective 405Q49 Electrical 2/3 Major Elective 405Q49 Electrical 2/4 Major Elective 405R49 Practic of Electrical 2/3 Major Elective 405R49 Practic of Electrical 2/3 Major Elective 405R49 Electrical Elective 405R49 Electrical Elective 405R41 Electrical E	Required	405058	English Proficiency qualification	0/2		College Major		program learning		
Required	Major Elective	405865	Semiconductor Manufacturing			Major	40TNF1	Micro Course Program for Engineering		
Blective		405N06		2/2			405C42	Engineering Practical Capability	0/2	
Major Elective Mosque Mo		405N07	and Professional	2/2		Major Elective	405848	Thin Film Engineering and Lab	3/3	
Elective Hajor Hajor Hajor Elective Hajor Haj		405Q19	Power Systems(2)	3/3		Major Elective	405891	Numerical Methods	3/3	
Major Elective A05Q43 Project Management 3/3 Major Elective A05Q44 Project Management 3/3 Major Elective A05Q45 Electrical Supervisory and Control Automation A05Q46 Control Automation A05Q47 Control Automation A05Q48 Project Management 3/3 Major Elective A05Q49 Summer Internship 3/3 Major Elective A05Q49 Semester Off-campus Internship A05Q49 Electrical Technology A05Q49 Electrical Technology Elective A05Q49 Electrical Technology Elective Elective A05Q49 Electrical Technology Elective Evaluation A05Q49 Electrical Technology Elective Elective A05Q49 Electrical Evaluation A05Q49 Electrical Elective A05Q49 Electrical Electrical Evaluation A05Q49 Electrical Elective A05Q49 Electric Motor Elective Electi	Major Elective	405Q24	Power electronics	3/3			405896	Technology for New and Renewable	3/3	
Elective and Coordinations Elective Supervisory and Control Automation Major Elective 405Q43 Project Management 3/3 Major Elective 405Q34 Renewable Electricity 3/3 Elective 405Q49 Summer Internship 3/3 Major Elective 405Q34 Power system simulation 3/3 Semester Off-campus Internship (1) Major Elective 405Q35 Semester Off-campus Internship (1) Major Elective 405Q39 Electrical Technology 2/2 Evaluation 405Q59 Practic of Electrical 2/3 Major Elective Elective 405Q56 Semester Off-campus Internship (2) Semester Off-campus Internship (2) Elective Major Elective 405R16 Introduction to Nanotechnology 405R19 Vacuum Technique 3/3 Major Elective Elective Elective 405R24 The Theory and Technique of Solar Cell Major Elective 405R51 Programming and Analysis of Power System Major Elective Elective Elective Elective Elective Elective System 405R51 Distribution of electricity Elective Elective Engineering quality control and budget 2/4 Engineering quality control and budget 2/4 Engineering quality 2/4 Engineering quality 2/4 Engineering quality control and budget 2/4 Engineering quality 2/4 Engineering quality 2/4 Elective Elective Elective Elective Supervisors And Engineering quality 2/4 Elective Elective Elective Elective Elective Elective Control and budget Electricity 2/4 Engineering quality 2/4 Elective Ele		405Q25	Energy Technology.	3/3			405N08		2/2	
Major Elective 405Q49 Summer Internship 3/3 Major Elective 405Q34 Power system simulation 3/3 Major Elective 405Q55 Semester Off-campus Internship (1) Major Elective 405Q59 Practic of Electrical 2/3 Major Elective 405Q60 Electric Motor Control and Practice 405R19 Vacuum Technique 3/3 Major Elective 405R51 Programming and Analysis of Power System 3/3 Major Elective 405R51 Distribution of Elective 405T01 Distribution of electricity 3/3 Major Elective 405T01 Distribution of electricity 3/3 Major Elective 405T13 Engineering quality control and budget 2/4 Control		405Q27	System Protections and Coordinations	3/3			405Q32	Supervisory and	3/3	
Elective Simulation Major Elective 405Q55 Semester Off-campus Internship (1) Major Elective 405Q59 Practic of Electrical 2/3 Major Elective 405Q56 Semester Off-campus Internship (2) Major Elective 405R16 Introduction to Nanotechnology Major Elective 405R19 Vacuum Technique 3/3 Major Elective 405R24 The Theory and Technique of Solar Cell Major Elective 405R51 Programming and Analysis of Power System Major Elective 405R10 Distribution of electricity Major Elective 405R11 Engineering quality control and budget		405Q43	Project Management	3/3			405Q33	Renewable Electricity	3/3	
Elective Internship (1) Elective Evaluation 9/9 Major Elective 405Q59 Practic of Electrical 2/3 Major Elective Internship (2) Semester Off-campus Internship (2) Major Elective 405R16 Introduction to Nanotechnology Nanotechnology A05R19 Vacuum Technique 3/3 Major Elective A05R24 The Theory and Technique of Solar Cell Major Elective A05R51 Programming and Analysis of Power System A05R01 Distribution of electricity A05R01 Distribution of electricity A05R01 Elective Evaluation Evaluation Evaluation 405Q56 Semester Off-campus Internship (2) Major Elective A05Q60 Electric Motor Control and Practice A05R01 The Theory and Technique of Solar Cell A05R01 Elective A05R01 Elective A05R01 Elective Elective A05R01 Elective Elective Elective Control and budget A05R01 Elective Elective Elective Control and budget A05R01 Elective Control and budget A05R01 Elective Elective Control and budget A05R01 Elective Control and Control and Control Elective Control and Control Elective Control and Control Elective Control and Control Elective Control Electiv	Major Elective	405Q49	Summer Internship	3/3		Major Elective	405Q34		3/3	
Elective Facility Testing Elective Internship (2) Major Elective 405R16 Introduction to Nanotechnology Major Elective 405R19 Vacuum Technique 3/3 Major Elective 405R24 The Theory and Technique of Solar Cell Major Elective 405R51 Programming and Analysis of Power System Major Elective 405R51 Distribution of electricity Major Elective 405R51 Engineering quality control and budget	Elective	405Q55				Elective	405Q39			
Major Elective Major Elective	Elective		Facility Testing			Elective	-	Internship (2)		
Elective Cell Major Elective 405R51 Programming and Analysis of Power System Major Elective 405T01 Distribution of electricity Elective Technique of Solar Cell Major Elective A05R81 LED Lighting and Applications Major Elective Control and budget	Elective					Elective	-			
Elective Analysis of Power System Elective Applications Major Elective 405T01 Distribution of electricity Analysis of Power System 405T13 Engineering quality control and budget	Major Elective	405R19	Vacuum Technique	3/3		Major Elective	405R24	Technique of Solar	3/3	
Elective electricity Elective control and budget		405R51	Analysis of Power	3/3			405R81		3/3	
	Major Elective	405T01	electricity	3/3		Major Elective	405T13	control and budget	2/4	

48 Credits, 51 Hours 41 Credits, 49 Hours