

The Public Authority for Applied Education and Training					
The Higher Institute of Energy		HIE- TD - QP03 – F621			
Department		Electrical Power			
Major: Electrical Installation	Awarded Training	l Certificate: Diploma	Program Duration: Two years (4 Semesters)		



## FIRST TRAINING SEMESTER

	FIECTRICAL CIRCUITS (1)			
Course Code	EG 101		Credits	4
Lecture Hours	4 Practical Hours	0	Total Hours	4
Course Description	rainer the basic principles	of Dire	ect Current Circuit	s He
studies the definition	of voltage, current and re	sistanc	e. Then he studies	s the
connection of resistant	ce, series, parallel, series	unparal	leled and the star-	delta
connection. He studies	the concepts of power ene	rgy.		
Course Title	General Workshop			
Course Code	EG 103		Credits	3
Lecture Hours	0 Practical Hours	6	Total Hours	6
Course Description				
use of the file - the use	of a hand saw Electrical ex	asuring tension	and planning tools s -	- the
Course Title	Electrical Materials			
Course Code	EG 102		Credits	2
Lecture Hours	2 Practical Hours	0	Total Hours	2
Course Description	of matorials and their cla	ecificat	ions in torms of k	oing
conductive and insulat	ing materials for electricit	v and s	semiconductors. It	also
deals with the uses of	different materials and exa	mples c	of them, their prope	erties
and uses in the field of	electricity.		, p. op.	
Course Title	Engineering Draw	ing		
Course Code	EG 105		Credits	2
Lecture Hours	0 Practical Hours	4	Total Hours	4
Course Description	oolo drowing okillf	incer!	a abanca and m	hode
using basic tools such	asic grawing skills of eng	ineering	and compass. All	noas so. it
underlines the isometri	c planes by applying exerci	ises.		, n
Course Title	Computer (1)			
Course Code	CS 101		Credits	1
Lecture Hours	0 Practical Hours	2	Total Hours	2
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In this course the stude as a fundamental intro they will learn how to u	ents will learn about compu duction, which is the theor use Microsoft Windows an	ter hist etical p d Micro	ory and its compor art of the course. soft Word, which is	nents Then s the
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## SECOND TRAINING SEMESTER

Course Title Electrical Circuits (2)						
Course Code ES 151 Credits 5						
Lecture Hours	4	Practical Hours	2	Total Hours	6	
Course Descript	tion					
Introduction to AC impedance. Imped connection in sei impedance. Electro power, and power circuit.	current. ance cor ries, par omagnet r factor.	Resistance, inductive re nection in series, parall allel, and combined. S ic inductance. Active po Operations of single-p	actano el, ano tar an wer, ro hase f	ce, capacitive reactar d combined. Admitta d delta connection eactive power, appa transformers. Resor	nce, ince in of rent nant	
Course Title		Electrical Installa	tion	workshop (1)		
Course Code		ES 153		Credits	4	
Lecture Hours	0	Practical Hours	8	Total Hours	8	
Course Descript	lion	Thetheal Hours	Ū	Total Hours	U	
Electrical install the previous wo distribution boa using uPVC and the discharge la cover the practi directly with the switch and its fi	lation w orkshop ord to fe I galvan imp and ical skil D.B by unction	ork shop 1 extend th by demonstrate the eed the light and pow ized conduit with its d the component of th lls of installing the p understanding the Mo	e skil pract ver ci acces ne D.E ower CB, E	Ils and knowledge ical wiring using ircuit with electri ssories , also expl 3 ,as well the cou and the light circ LCB , Busbars , m	e of the city lain rse cuit ain	
Switch and its it		•				
Course Title		Electrical Measurin	g Inst	truments		
Course Code		ES 152		Credits	3	
Lecture Hours	2	Practical Hours	2	Total Hours	4	
Course Descript	tion					
function of the	clamp	ammeter, megger, p	hase	rotation, and ca	the	
function of the route locator.	clamp	ammeter, megger, p	hase	n. Students learn rotation, and ca	the	
function of the route locator. Course Title Course Code	clamp	ammeter, megger, p Electrical Drawings ES 154	hase	rotation, and ca	the ible	
function of the route locator. Course Title Course Code Lecture Hours	clamp	ammeter, megger, p Electrical Drawings ES 154 Practical Hours	hase	rotation, and ca Credits Total Hours	the ible 2 4	
function of the route locator. Course Title Course Code Lecture Hours Course Descrip	clamp 0 tion	ammeter, megger, p Electrical Drawings ES 154 Practical Hours	hase	Credits Total Hours	the ble 2 4	
function of the route locator. Course Title Course Code Lecture Hours Course Descript This course cov installation sym	clamp 0 tion vers the bols	ammeter, megger, p Electrical Drawings ES 154 Practical Hours e drawing and the un	4 ders	Credits Total Hours	ical	
function of the route locator. Course Title Course Code Lecture Hours Course Descript This course cov installation sym Course Title	clamp 0 tion vers the bols	ammeter, megger, p Electrical Drawings ES 154 Practical Hours e drawing and the un Mathematics (2)	4 addres	Credits Total Hours	the ible 2 4 ical	
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function of the route locator. Course Title Course Code Lecture Hours Course Descript This course covinstallation sym Course Title Course Code Lecture Hours	clamp 0 tion vers the bols 3	ammeter, megger, p Electrical Drawings ES 154 Practical Hours drawing and the un Mathematics (2) MA158 Practical Hours	4 anders	Credits Total Hours tanding of electri Credits Total Hours	ical	
function of the route locator. Course Title Course Code Lecture Hours Course Descript This course coor installation sym Course Title Course Code Lecture Hours Course Descript This course in vectors, comple	clamp 0 iton vers the bols 3 iton troduce x numb	ammeter, megger, p Electrical Drawings ES 154 Practical Hours drawing and the un Mathematics (2) MA158 Practical Hours es arithmetic skills, pers and derivatives a	4 nders	Credits Total Hours tanding of electri Credits Total Hours uding trigonome tegration.	the ble 2 4 ical 3 3 try,	
function of the route locator. Course Title Course Code Lecture Hours Course Descript This course code Lecture Hours Course Title Course Code Lecture Hours Course Descript This course in vectors, comple	clamp 0 iton vers the bols 3 iton troduce x numb	ammeter, megger, p Electrical Drawings ES 154 Practical Hours drawing and the un Mathematics (2) MA158 Practical Hours es arithmetic skills, hers and derivatives a English Language	4 hase 4 nders inclu	Credits Total Hours tanding of electri Credits Total Hours uding trigonome tegration.	the ble 2 4 ical 3 3 try,	
function of the route locator. Course Title Course Code Lecture Hours Course Descript This course code Lecture Hours Course Title Course Code Lecture Hours Course Descript This course in vectors, comple Course Title Course Title Course Code	clamp 0 tion vers the bols 3 tion ttroduce x numb	ammeter, megger, p Electrical Drawings ES 154 Practical Hours drawing and the ur Mathematics (2) MA158 Practical Hours es arithmetic skills, pers and derivatives a English Language EN 166	4 hase 4 nders inclind in (2)	Credits Total Hours tanding of electri Credits Total Hours uding trigonome tegration.	the ble	
function of the route locator. Course Title Course Code Lecture Hours Course Descript This course code Lecture Hours Course Title Course Descript This course in vectors, complet Course Title Course Title Course Title Course Title Course Code Lecture Hours	clamp 0 tion vers the bols 3 tion ttroduce x numb	ammeter, megger, p Electrical Drawings ES 154 Practical Hours e drawing and the un Mathematics (2) MA158 Practical Hours es arithmetic skills, eers and derivatives a English Language EN 166 Practical Hours	A ders	Credits Total Hours Credits Total Hours tanding of electri Credits Total Hours uding trigonome tegration. Credits Total Hours	the ble 2 4 4 ical 3 3 3 try, 2 2 3	
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In this course the students will learn about computer and its components and the use of MS-Excel and windows to manage file then introduction to MS-Word.



The Public Authority for Applied Education and Training				
The Higher Institute of Energy HIE- T		D - QP03 – F621		
Department		Elec	ctrical Power	
Major: Electrical Installation	Awarded Training	l Certificate: Diploma	Program Duration: Two years (4 Semesters)	



## THIRD TRAINING SEMESTER

Lecture Hours         4*         Practical Hours         2         Total Hours         6           Course Description         Overse Description         Voltage and current in the at connections. Active and reactive power in three phase connections. Power in three phase circuits. Phase sequence. Power factor improvement. Power transformers operation.         Course Code         ES 203         Credits         4           Course Code         ES 203         Credits         4         Lecture Hours         0         Practical Hours         8         Total Hours         8           Course Code         ES 203         Credits         4         Lecture Hours         0         Practical Hours         8         Total Hours         8           Course Code         ES 203         Credits         4         Lecture Hours         0         Practical Hours         8         Total Hours         8           Electrical Installation work shop 2 extend the skills and knowledge of the previous workshop by demonstrate the practical wiring using the full wiring the double poll switch and the way of the cable fitting into the board, also explain the controlling by using , float switch, photocell switch for water heater and cocker.         Course Code         ES 205         Credits         3           Course Code         ES 205         Credits         3         Course Code         ES 207         Credits         2	Course Inte		Electrical Circuits (	3)	Credits	5
Course Description           Voltage and current in star connections. Three and four wires electrical systems. Voltage and current in delta connections. Active and reactive power in three phase connections. Power in three phase circuits. Phase sequence. Power factor improvement. Power transformers operation.           Course Title         Electrical Installation workshop (2)           Course Code         ES 203         Credits         4           Lecture Hours         0         Practical Hours         8         Total Hours         8           Course Description         8         Total Hours         8         Total Hours         8           Electrical installation work shop 2 extend the skills and knowledge of the previous workshop by demonstrate the practical wiring using the the previous workshop by demonstrate the practical wiring using the main component as MCCB, Main switch and the way of the cable fitting into the board, also explain the controlling by using , float switch, photocell switch , contactors and double pushbutton box, as well install and wiring the double poll switch for water heater and cocker.           Course Code         ES 205         Credits         3           Lecture Hours         2         Practical Hours         2         Total Hours           Study the various control elements of relays, contactors, end-of-journey switches, floats, pressure, and thermostats and their relationship to each other, read different control schemes, and study different control circuits in electrical Hours         2         Total Hours	Lecture Hours	4*	Practical Hours	2	Total Hours	6
Voltage and current in star connections. Three and four wires electrical systems. Voltage and current in delta connections. Active and reactive power in three phase circuits.           Phase sequence. Power factor improvement. Power transformers operation.         Course Title         Electrical Installation workshop (2)           Course Code         ES 203         Credits         4         4           Course Origonome Control of the previous workshop by demonstrate the practical wiring using the Main distribution board to feed the electricity to the Distribution board at the building with all knowledge needed for the functionality of the main component as MCCB. Main switch and the way of the cable fitting into the board, also explain the controling by using , float switch, photocell switch , contactors and double pushbutton box, as well and install and wiring the double poll switch for water heater and cocker.           Course Code         ES 205         Credits         3           Lecture Hours         2         Practical Hours         2         Total Hours         4           Course Code         ES 205         Credits         3         3         3           Lecture Hours         2         Practical Hours         2         Total Hours         4           Course Code         ES 207         Credits         3         3         3           Lecture Hours         1         Practical Hours         2         Total Hours         3 <td< th=""><th>Course Description</th><th>า</th><th></th><th></th><th></th><th></th></td<>	Course Description	า				
systems. Voltage and current in defa connections. Active and reactive power in three phase connections. Power in three phase circuits. Phase sequence. Power factor improvement. Power transformers operation. Course Code ES 203 Credits 4 Lecture Hours 0 Practical Hours 8 Total Hours 8 Course Description Electrical installation work shop 2 extend the skills and knowledge of the previous workshop by demonstrate the practical wiring using the Main distribution board to feed the electricity to the Distribution board at the building with all knowledge needed for the functionality of the main component as MCCB. Main switch and the way of the cable fitting into the board, also explain the controlling by using , float switch, photocell switch , contactors and double pushbutton box , as well install and wiring the double poll switch for water heater and cocker. Course Code ES 205 Credits 3 Lecture Hours 2 Practical Hours 2 Total Hours 4 Course Code ES 205 Credits 3 Lecture Hours 2 Practical Hours 2 Total Hours 4 Course Code ES 207 Credits 20 Lecture Hours 1 Practical Hours 2 Total Hours 4 Course Code ES 207 Credits 2 Lecture Hours 1 Practical Hours 2 Total Hours 3 Course Code ES 207 Credits 2 Lecture Hours 1 Practical Hours 2 Total Hours 3 Course Code ES 209 Credits 2 Lecture Hours 1 Practical Hours 2 Total Hours 3 Course Code ES 209 Credits 2 Lecture Hours 1 Practical Hours 2 Total Hours 3 Course Code ES 209 Credits 2 Lecture Hours 1 Practical Hours 4 Total Hours 3 Course Code ES 209 Credits 2 Lecture Hours 0 Practical Hours 4 Total Hours 4 Course Code ES 209 Credits 2 Lecture Hours 1 Practical Hours 4 Total Hours 4 Course Code ES 209 Credits 2 Lecture Hours 1 Practical Hours 4 Total Hours 4 Course Code ES 201 Credits 2 Lecture Hours 1 Practical Hours 4 Total Hours 3 Course Code ES 201 Credits 2 Lecture Hours 1 Practical Hours 2 Total Hours 3 Course Code ES 211 Credits 2 Lecture Hours 1 Practical Hours 2 Total Hours 3 Course Code ES 221 Credits 3 Course Code ES 221 Credits 3 Co	Voltage and curren	tins	tar connections. Thre	e anc	l four wires elect	rical
Down in three phase connections. Power in three phase circuits.           operation.           Course Title         Electrical Installation workshop (2)           Course Code         ES 203         Credits         4           Active Possibility         8         Total Hours         4           Course Description         8         Total Hours         8         Total Hours         4           Electrical installation work shop 2 extend the skills and knowledge of the previous workshop by demonstrate the practical wiring using the Main distribution board to feed the electricity to the Distribution board at the building with all knowledge needed for the functionality of the main component as MCCB. Main switch and the way of the cable fitting into the board, also explain the controlling by using , float switch, pontactors and double pushbutton box, as well install and wiring the double poll switch for water heater and cocker.           Course Title         Electrical Control         Course Code         ES 205         Credits         3           Lecture Hours         2         Practical Hours         2         Total Hours         4           Course Code         ES 205         Credits         3         1         2         Total Hours         4           Course Code         ES 207         Credits         3         2         Total Hours         3           Course Code         ES 207	systems. Voltage a	nd c	urrent in delta connec	tions	. Active and read	ctive
Trade sequence:       Over factor minipotential: To their dualisation register of the operation.         Course Title       Electrical Installation workshop (2)         Course Code       ES 203       Credits       4         Lecture Hours       0       Practical Hours       8       Total Hours       8         Course Description       Electrical installation work shop 2 extend the skills and knowledge of the previous workshop by demonstrate the practical wiring using the Main distribution board to feed the electricity to the Distribution board at the building with all knowledge needed for the functionality of the main component as MCCB. Main switch and the way of the cable fitting into the board, also explain the controlling by using , float switch, photocell switch , contactors and double pushbutton box, as well install and wiring the double pull switch for water heater and cocker.         Course Code       ES 205       Credits       3         Lecture Hours       2       Practical Hours       2       Total Hours       4         Course Code       ES 205       Credits       3         Lecture Hours       1       Practical Hours       2       Total Hours       4         Course Code       ES 207       Credits       3       3       3       3         Course Code       ES 207       Credits       2       Total Hours       3       3       3       3       3	power in three pha	Se CO	nnections. Power in	three	e phase circuits.	
Course Title         Electrical Installation workshop (2)           Course Code         ES 203         Credits         4           Lecture Hours         0         Practical Hours         8         Total Hours         8           Course Description         Electrical installation work shop 2 extend the skills and knowledge of the previous workshop by demonstrate the practical wiring using the Main distribution board to feed the electricity to the Distribution board at the building with all knowledge needed for the functionality of the main component as MCCB Main switch and the way of the cable fitting into the board, also explain the controlling by using , float switch, photocell switch , contactors and double pushbutton box , as well install and wiring the double poll switch for water heater and cocker.           Course Code         ES 205         Credits         3           Lecture Hours         2         Practical Hours         2         Total Hours         4           Course Code         ES 205         Credits         3         1         1         1         2         Total Hours         4           Course Code         ES 207         Credits         3         2         1         2         1         2         1         2         1         2         1         1         2         1         1         2         1         1         2         1         1         1<	operation.	owe		FOW		
Course Title         Electrical Installation workshop (2)           Course Code         ES 203         Credits         4           Course Description         8         Total Hours         8         Total Hours         4           Electrical Installation work shop 2 extend the skills and knowledge of the previous workshop by demonstrate the practical wiring using the Main distribution board to feed the electricity to the Distribution board at the building with all knowledge needed for the functionality of the main component as MCCB. Main switch and the way of the cable fitting into the board, also explain the controlling by using , float switch, photocell switch , contactors and double pushbutton box, as well install and wiring the double poll switch for water heater and cocker.           Course Code         ES 205         Credits         3           Lecture Hours         2         Practical Hours         2         Total Hours         4           Course Code         ES 205         Credits         3         1         1         1         2         Total Hours         4         2         Total Hours         4         2         Total Hours         4         2         Total Hours         1         1         1         1         2         Total Hours         1         1         1         1         1         1         1         1         1         1         1         1 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
Course Code         ES 203         Credits         4           Lecture Hours         0         Practical Hours         8         Total Hours         8           Course Description         Electrical installation work shop 2 extend the skills and knowledge of the previous workshop by demonstrate the practical wiring using the Main distribution board to feed the electricity to the Distribution board at the building with all knowledge needed for the functionality of the main component as MCCB, Main switch and the way of the cable fitting into the board, also explain the controlling by using , float switch, photocell switch , contactors and double pushbutton box , as well install and wiring the double poll switch for water heater and cocker.           Course Title         Electrical Control           Course Code         ES 205           Credits         3           Lecture Hours         2         Practical Hours         2           Study the various control elements of relays, contactors, end-of- journey switches, floats, pressure, and thermostats and their relationship to each other, read different control schemes, and study different control circuits in electric motors in different industry sites.           Course Code         ES 207         Credits         2           Course Description         Total Hours         3           This course is part of the area of Electrical Installation program. It introduces the basic concepts of Technical Drawing using a Computer Assisted Drafting (CAD) program. This course is designed for using AutoCAD to applied Electrical i	Course Title		Electrical Installatio	n wo	rkshop (2)	
Lecture Hours         0         Practical Hours         8         Total Hours         a           Course Description           Electrical installation work shop 2 extend the skills and knowledge of the previous workshop by demonstrate the practical wiring using the main component as MCCB ,Main switch and the way of the cable fitting into the board, also explain the controlling by using , float switch, photocell switch , contactors and double pushbutton box, as well install and wiring the double poll switch for water heater and cocker.           Course Code         ES 205         Credits         3           Lecture Hours         2         Practical Hours         2         Total Hours         4           Course Code         ES 205         Credits         3         1         4         4           Course Description         Study the various control elements of relays, contactors, end-of- journey switches, floats, pressure, and thermostats and their relationship to each other, read different control schemes, and study different control circuits in electric motors in different industry sites.         2           Course Code         ES 207         Credits         2           Lecture Hours         1         Practical Hours         2         Total Hours         3           Course Code         ES 207         Credits         2         Lecture Hours         4         Total Hours         3           Course Code <td< td=""><td>Course Code</td><td></td><td>ES 203</td><td></td><td>Credits</td><td>4</td></td<>	Course Code		ES 203		Credits	4
Course Description           Electrical installation work shop 2 extend the skills and knowledge of the previous workshop by demonstrate the practical wiring using the Main distribution board to feed the electricity to the Distribution board at the building with all knowledge needed for the functionality of the main component as MCCB, Main switch and the way of the cable fitting into the board, also explain the controlling by using , float switch, photocell switch , contactors and double pushbutton box , as well install and wiring the double poll switch for water heater and cocker.           Course Title         Electrical Control           Course Code         ES 205           Lecture Hours         2           Practical Hours         2           Total Hours         4           Course Code         ES 205           Lecture Hours         2           Practical Hours         2           Total Hours         4           Course Description         Study the various control elements of relays, contactors, end-of- journey switches, floats, pressure, and thermostats and their relationship to each other, read different control schemes, and study different control circuits in electric motors in different industry sites.           Course Code         ES 207           Lecture Hours         1           Practical Hours         2           Course Description           This course is part of the area of Electrical Installation program. It introduces the basic concepts of Technical Dra	Lecture Hours	0	Practical Hours	ð	Total Hours	ŏ
the previous workshop by demonstrate the practical wiring using the Main distribution board to feed the electricity to the Distribution board at the building with all knowledge needed for the functionality of the main component as MCCB ,Main switch and the way of the cable fitting into the board, also explain the controlling by using , float switch, photocell switch, contactors and double pushbutton box, as well install and wiring the double poll switch for water heater and cocker.          Course Title       Electrical Control         Course Code       ES 205         Credits       3         Lecture Hours       2       Practical Hours       2         Study the various control elements of relays, contactors, end-of-journey switches, floats, pressure, and thermostats and their relationship to each other, read different control schemes, and study different control circuits in electric motors in different industry sites.         Course Code       ES 207       Credits       2         Lecture Hours       1       Practical Hours       2       Total Hours       3         Course Code       ES 207       Credits       2       2         Lecture Hours       1       Practical Hours       2       Total Hours       3         Course Title       AutoCAD (1)       Course in grad. The area of Electrical Installation program. This course is designed for using Acompter Assisted Draking (CAD) program. This course is designed for using AutoCAD to applied Electrical installation rules in civil drawing.       4       Course Code       ES	Electrical installati	on w	ork shop 2 extend the	e skil	Is and knowledg	ie of
Main distribution board to feed the electricity to the Distribution board at the building with all knowledge needed for the functionality of the main component as MCCB, Main switch and the way of the cable fitting into the board, also explain the controlling by using , float switch, photocell switch , contactors and double pushbutton box, as well install and wiring the double poll switch for water heater and cocker.         Course Title       Electrical Control         Course Code       ES 205       Credits       3         Lecture Hours       2       Practical Hours       2       Total Hours       4         Course Code       ES 205       Credits       3         Lecture Hours       2       Practical Hours       2       Total Hours       4         Course Description       Study the various control elements of relays, contactors, end-of-journey switches, floats, pressure, and thermostats and their relationship to each other, read different control schemes, and study different control circuits in electric motors in different industry sites.         Course Title       AutoCAD (1)       Course Code       ES 207       Credits       2         Course Description       1       Practical Hours       2       Total Hours       3         Course Code       ES 207       Credits       2       Total Hours       4         Course Code       ES 207       Credits       2       Total Hours       3	the previous works	shop	by demonstrate the	pract	ical wiring using	the
at the building with all knowledge needed for the functionality of the main component as MCCB ,Main switch and the way of the cable fitting into the board, also explain the controlling by using , float switch, photocell switch , contactors and double pushbutton box ,as well install and wiring the double poll switch for water heater and cocker.  Course Title Electrical Control Course Code ES 205 Credits 3 Lecture Hours 2 Practical Hours 2 Total Hours 4 Course Description Study the various control elements of relays, contactors, end-of- journey switches, floats, pressure, and thermostats and their relationship to each other, read different control schemes, and study different control circuits in electric motors in different industry sites.  Course Title AutoCAD (1) Course Code ES 207 Credits 2 Lecture Hours 1 Practical Hours 2 Total Hours 3 Course Description This course is part of the area of Electrical Installation program. It introduces the basic concepts of Technical Drawing using a Computer Assisted Drafting (CAD) program. This course is designed for using AutoCAD to applied Electrical installation rules in civil drawing.  Course Code ES 209 Credits 2 Lecture Hours 0 Practical Hours 4 Total Hours 4 Course Description Introduction in electrical circuits. Designing current calculation, adjusting current depending on temperature.  Course Title Installations Rules (1) Course Code ES 211 Credits 2 Lecture Hours 2 Practical Hours 0 Total Hours 3 Course Description General Knowledge of all electrical installation in buildings in the state of Kuwait.  Course Title English Language (3) Course Code EN 222 Credits 2 Lecture Hours 1 Practical Hours 2 Total Hours 3 Course Code ES 211 Credits 2 Lecture Hours 2 Practical Hours 2 Total Hours 3 Course Code EN 222 Credits 2 Lecture Hours 1 Practical Hours 2 Total Hours 3 Course Code ES 211 Credits 2 Lecture Hours 3 Practical Hours 3 Total Hours 3 Course Code ES 211 Credits 2 Lecture Hours 4 Practical Hours 2 Total Hours 3 Course Code ES 211 Credits 3 Course Code EN 222 Credit	Main distribution b	oard	to feed the electricity	to th	e Distribution b	oard
main component as MCCB ,Main Switch and the Way of the cable fitting busing , float switch, photocell switch , contactors and double pushbutton box ,as well install and wiring the double poll switch for water heater and cocker.           Course Title         Electrical Control           Course Code         E S 205         Credits         3           Lecture Hours         2         Practical Hours         2         Total Hours         4           Course Code         E S 205         Credits         3         4           Course Code         E S 205         Credits         4           Course Description         Study the various control elements of relays, contactors, end-of-journey switches, floats, pressure, and thermostats and their relationship to each other, read different control schemes, and study different control circuits in electric motors in different industry sites.           Course Title         AutoCAD (1)         2         Total Hours         3           Course Code         E S 207         Credits         2         3         2           Lecture Hours         1         Practical Hours         2         Total Hours         3           Course Code         E S 207         Credits         2         2         4         4         1         1         Practical Hours         2         Total Hours         2         1         0         1         1	at the building with	h all	knowledge needed for	or the	functionality of	f the
Inter Board and Control of the board of	into the board als		CB, Main switch and t	ne w	ay of the cable fill	itch
Install and wiring the double poll switch for water heater and cocker.         Course Title       Electrical Control         Course Code       ES 205       Credits       3         Lecture Hours       2       Total Hours       4         Course Code       ES 205       Credits       3         Lecture Hours       2       Total Hours       4         Course Description         Course Code       ES 207       Credits       2         Lecture Hours       1       Practical Hours       2       Total Hours       3         Course Code       ES 207       Credits       2         Lecture Hours       1       Practical Hours       2       Total Hours       3         Course Code       ES 207       Credits       2         Lecture Hours       1       Practical Hours       2       Total Hours       3         Course Code       ES 209       Credits       2	photocell switch .	con	tactors and double	nush	button box .as	well
Course Title         Electrical Control           Course Code         ES 205         Credits         3           Lecture Hours         2         Practical Hours         2         Total Hours         4           Course Description         Study the various control elements of relays, contactors, end-of- journey switches, floats, pressure, and thermostats and their relationship to each other, read different control schemes, and study different control circuits in electric motors in different industry sites.           Course Title         AutoCAD (1)         Credits         2           Course Code         ES 207         Credits         2           Lecture Hours         1         Practical Hours         2         Total Hours         3           Course Title         AutoCAD (1)         Credits         2         Lecture Hours         1         Practical Hours         2         Total Hours         3           Course Title         Davings Design (1)         Course is part of the area of Electrical Installation rules in civil drawing.         Course Total Hours         4         Total Hours         4         Course Code         ES 209         Credits         2           Lecture Hours         0         Practical Hours         4         Total Hours         4           Course Title         Drawings Design (1)         Course Code </td <td>install and wiring t</td> <td>he de</td> <td>puble poll switch for v</td> <td>vater</td> <td>heater and cock</td> <td>er.</td>	install and wiring t	he de	puble poll switch for v	vater	heater and cock	er.
Course Code         Electrical Control           Course Code         ES 205         Credits         3           Lecture Hours         2         Practical Hours         2         Total Hours         4           Course Code         ES 205         Credits         3           Study the various control elements of relays, contactors, end-of-journey switches, floats, pressure, and thermostats and their relationship to each other, read different control schemes, and study different control circuits in electric motors in different industry sites.           Course Code         ES 207         Credits         2           Lecture Hours         1         Practical Hours         2         Total Hours         3           Course Code         ES 207         Credits         2         Lecture Hours         3           Course Description         This course is part of the area of Electrical Installation program. It introduces the basic concepts of Technical Drawing using a Computer Assisted Drafting (CAD) program. This course is designed for using AutoCAD to applied Electrical installation rules in civil drawing.         2           Course Title         Drawings Design (1)         Course Credits         2           Course Title         Drawings Design (2)         Credits         2           Introduction in electrical circuits. Designing current calculation, adjusting current depending on temperature.         2	Course Title		Electrical Control			
Source Code         Los 200         Otention         3           Lecture Hours         2         Total Hours         3           Course Description         Study the various control elements of relays, contactors, end-of- journey switches, floats, pressure, and thermostats and their relationship to each other, read different control schemes, and study different control circuits in electric motors in different industry sites.         Course Title         AutoCAD (1)           Course Title         AutoCAD (1)         Credits         2           Course Code         ES 207         Credits         2           Lecture Hours         1         Practical Hours         2         Total Hours         3           Course Description         This course is part of the area of Electrical Installation program. It introduces the basic concepts of Technical Drawing using a Computer Assisted Drafting (CAD) program. This course is designed for using AutoCAD to applied Electrical installation rules in civil drawing.         2           Course Title         Drawings Design (1)         Course Code         2         2           Lecture Hours         0         Practical Hours         4         Total Hours         4           Course Code         ES 209         Credits         2         2           Lecture Hours         0         Practical Hours         4         Cotal Hours         2	Course Code		Electrical Control		Credite	2
Course Description       Production         Study the various control elements of relays, contactors, end-of- journey switches, floats, pressure, and thermostats and their relationship to each other, read different control schemes, and study different control circuits in electric motors in different industry sites.         Course Title       AutoCAD (1)         Course Code       ES 207         Lecture Hours       1         Practical Hours       2         This course is part of the area of Electrical Installation program. It introduces the basic concepts of Technical Drawing using a Computer Assisted Drafting (CAD) program. This course is designed for using AutoCAD to applied Electrical installation rules in civil drawing.         Course Title       Drawings Design (1)         Course Code       ES 209         Course Title       Drawings Design (2)         Course Totle       Practical Hours       4         Total Hours       0       Practical Hours       4         Course Code       ES 209       Credits       2         Lecture Hours       0       Practical Hours       4         Course Code       ES 211       Credits       2         Lecture Hours       2       Practical Hours       0       Total Hours       2         Course Code       ES 211       Credits       2       2       Lecture Hours	Lecture Hours	2	Practical Hours	2	Total Hours	4
Study the various control elements of relays, contactors, end-of- journey switches, floats, pressure, and thermostats and their relationship to each other, read different control schemes, and study different control circuits in electric motors in different industry sites.         Course Title       AutoCAD (1)         Course Code       ES 207       Credits       2         Lecture Hours       1       Practical Hours       2       Total Hours       3         Course Description       This course is part of the area of Electrical Installation program. It introduces the basic concepts of Technical Drawing using a Computer Assisted Drafting (CAD) program. This course is designed for using AutoCAD to applied Electrical installation rules in civil drawing.         Course Title       Drawings Design (1)         Course Code       ES 209       Credits       2         Lecture Hours       0       Practical Hours       4       Total Hours       4         Course Code       ES 209       Credits       2       Lecture Hours       4         Total Hours       0       Practical Hours       1       Total Hours       4         Course Code       ES 211       Credits       2       Lecture Hours       2       Practical Hours       1         Course Code       ES 211       Credits       2       Lecture Hours       2       Practical Hours       2 <td>Course Description</td> <td>1</td> <td></td> <td>_</td> <td></td> <td></td>	Course Description	1		_		
journey switches, floats, pressure, and thermostats and their relationship to each other, read different control schemes, and study different control circuits in electric motors in different industry sites. Course Title AutoCAD (1) Course Code ES 207 Credits 2 Lecture Hours 1 Practical Hours 2 Total Hours 3 Course Description This course is part of the area of Electrical Installation program. It introduces the basic concepts of Technical Drawing using a Computer Assisted Drafting (CAD) program. This course is designed for using AutoCAD to applied Electrical installation rules in civil drawing. Course Title Drawings Design (1) Course Code ES 209 Credits 2 Lecture Hours 0 Practical Hours 4 Total Hours 4 Course Description Introduction in electrical circuits. Designing current calculation, adjusting current depending on temperature. Course Title Installations Rules (1) Course Code ES 211 Credits 2 Lecture Hours 2 Practical Hours 0 Total Hours 2 Course Description General Knowledge of all electrical installation in buildings in the state of Kuwait. Course Title English Language (3) Course Code EN 222 Credits 2 Lecture Hours 1 Practical Hours 2 Total Hours 3 Course Description This course introduces a domain of Technical vocabulary items, structural themes, language functions and listening/speaking /writing as well as evaluation, enables the trainees to identify the technical terms in English in a simple way and to express themselves in their jobs, in a sound comprehended language. Course Code ES 252 Credits 2 Lecture Hours 2 Practical Hours 0 Total Hours 3 Course Code ES 252 Credits 2 Lecture Hours 2 Practical Hours 0 Total Hours 3 Course Code ES 252 Credits 2 Lecture Hours 2 Public Relations Course Code ES 252 Credits 2 Lecture Hours 2 Practical Hours 0 Total Hours 2 Course Description	Study the various	cor	ntrol elements of re	lays,	contactors, end	d-of-
relationship to each other, read different control schemes, and study different control circuits in electric motors in different industry sites. Course Title AutoCAD (1) Course Code ES 207 Credits 2 Lecture Hours 1 Practical Hours 2 Total Hours 3 Course Description This course is part of the area of Electrical Installation program. It introduces the basic concepts of Technical Drawing using a Computer Assisted Drafting (CAD) program. This course is designed for using AutoCAD to applied Electrical installation rules in civil drawing. Course Title Drawings Design (1) Course Code ES 209 Credits 2 Lecture Hours 0 Practical Hours 4 Total Hours 4 Course Description Introduction in electrical circuits. Designing current calculation, adjusting current depending on temperature. Course Title Installations Rules (1) Course Code ES 211 Credits 2 Lecture Hours 2 Practical Hours 0 Total Hours 2 Course Description General Knowledge of all electrical installation in buildings in the state of Kuwait. Course Title English Language (3) Course Code EN 222 Credits 2 Lecture Hours 1 Practical Hours 2 Total Hours 3 Course Code EN 222 Credits 2 Lecture Hours 1 Practical Hours 2 Total Hours 3 Course Description This course introduces a domain of Technical vocabulary items, structural themes, language functions and listening/speaking /writing as well as evaluation, enables the trainees to identify the technical terms in English in a simple way and to express themselves in their jobs, in a sound comprehended language. Course Code ES 252 Credits 2 Lecture Hours 2 Practical Hours 0 Total Hours 2 Course Code ES 252 Credits 2 Lecture Hours 2 Practical Hours 0 Total Hours 2 Course Code ES 252 Credits 2 Lecture Hours 2 Practical Hours 0 Total Hours 2 Course Description	journey switches,	flo	ats, pressure, and	the	mostats and t	their
different control circuits in electric motors in different industry sites.         Course Title       AutoCAD (1)         Course Code       ES 207       Credits       2         Lecture Hours       1       Practical Hours       2       Total Hours       3         Course Description       This course is part of the area of Electrical Installation program. It introduces the basic concepts of Technical Drawing using a Computer Assisted Drafting (CAD) program. This course is designed for using AutoCAD to applied Electrical installation rules in civil drawing.         Course Title       Drawings Design (1)       Course Code       ES 209       Credits       2         Lecture Hours       0       Practical Hours       4       Total Hours       4         Course Code       ES 209       Credits       2         Lecture Hours       0       Practical Hours       4       Total Hours       4         Course Description       Installations Rules (1)       Credits       2         Course Title       Installations Rules (1)       Credits       2         Course Code       ES 211       Credits       2         Lecture Hours       2       Practical Hours       0       Total Hours       2         Course Description       Installation in buildings in the state of Kuwait.       1	relationship to eac	h otl	ner, read different co	ntrol	schemes, and st	tudy
Course Title         AutoCAD (1)           Course Code         ES 207         Credits         2           Lecture Hours         1         Practical Hours         2         Total Hours         3           Course Description         This course is part of the area of Electrical Installation program. Instructures the basic concepts of Technical Drawing using a Computer Assisted Drafting (CAD) program. This course is designed for using AutoCAD to applied Electrical installation rules in civil drawing.           Course Title         Drawings Design (1)         Course Code         2           Course Code         ES 209         Credits         2           Lecture Hours         0         Practical Hours         4         Total Hours         4           Course Code         ES 209         Credits         2         Lecture Hours         0         Practical Hours         4         Total Hours         4           Course Description         Installations Rules (1)         Credits         2         2         Lecture Hours         2         Practical Hours         0         Total Hours         2           Course Code         ES 211         Credits         2         2         Credits         2           Course Description         Installation in buildings in the state of Kuwait.         0         Total Hours	different control ci	rcuit	s in electric motors in	diffe	erent industry sit	es.
Course Code         ES 207         Credits         2           Lecture Hours         1         Practical Hours         2         Total Hours         3           Course Description         This course is part of the area of Electrical Installation program. It introduces the basic concepts of Technical Drawing using a Computer         Assisted Drafting (CAD) program. This course is designed for using AutoCAD to applied Electrical installation rules in civil drawing.           Course Title         Drawings Design (1)         Ceredits         2           Course Code         ES 209         Credits         2           Lecture Hours         0         Practical Hours         4         Total Hours         4           Course Code         ES 209         Credits         2         2         4           Course Description         Introduction in electrical circuits. Designing current calculation, adjusting current depending on temperature.         2         2           Course Code         ES 211         Credits         2         2         2           Lecture Hours         2         Practical Hours         0         Total Hours         2           Course Code         ES 211         Credits         2         2         2         2         2         2         2         2         2         2	Course Title		AutoCAD (1)			
Lecture Hours       1       Practical Hours       2       Total Hours       3         Course Description       This course is part of the area of Electrical Installation program. It introduces the basic concepts of Technical Drawing using a Computer Assisted Drafting (CAD) program. This course is designed for using AutoCAD to applied Electrical installation rules in civil drawing.         Course Title       Drawings Design (1)       Course Code       2         Course Title       Drawings Design (1)       2       2         Course Code       ES 209       Credits       2         Lecture Hours       0       Practical Hours       4       Total Hours       4         Course Description       Introduction in electrical circuits. Designing current calculation, adjusting current depending on temperature.       2         Course Code       ES 211       Credits       2         Lecture Hours       2       Practical Hours       0       Total Hours       2         Course Code       ES 211       Credits       2       2       Lecture Hours       2         Course Code       ES 211       Credits       2       2       Lecture Hours       2       Practical Hours       2       1       2         Course Code       ES 211       Credits       2       2       2       2	Course Code		ES 207		Credits	2
Course Description         This course is part of the area of Electrical Installation program. It introduces the basic concepts of Technical Drawing using a Computer Assisted Drafting (CAD) program. This course is designed for using AutoCAD to applied Electrical installation rules in civil drawing.         Course Title       Drawings Design (1)         Course Code       ES 209       Credits       2         Lecture Hours       0       Practical Hours       4       Total Hours       4         Course Description       Introduction in electrical circuits. Designing current calculation, adjusting current depending on temperature.       2         Course Code       ES 211       Credits       2         Lecture Hours       2       Practical Hours       0       Total Hours       2         Course Title       Installations Rules (1)       Course Code       2       2       2         Course Code       ES 211       Credits       2       2       2       2         Lecture Hours       2       Practical Hours       0       Total Hours       2         Course Code       ES 211       Credits       2       2       2       2         Lecture Hours       1       Practical Hours       0       Total Hours       2       2       2       2       2	Lecture Hours	1	Practical Hours	2	Total Hours	3
Course Title       Drawings Design (1)         Course Code       ES 209       Credits       2         Lecture Hours       0       Practical Hours       4       Total Hours       4         Course Description       Introduction in electrical circuits. Designing current calculation, adjusting current depending on temperature.       Course Title       Installations Rules (1)         Course Code       ES 211       Credits       2         Lecture Hours       2       Practical Hours       0       Total Hours       2         Course Code       ES 211       Credits       2         Lecture Hours       2       Practical Hours       0       Total Hours       2         Course Description       General Knowledge of all electrical installation in buildings in the state of Kuwait.       0       Total Hours       2         Course Title       English Language (3)       Course Code       EN 222       Credits       2         Course Description       This course introduces a domain of Technical vocabulary items, structural themes, language functions and listening/speaking /writing as well as evaluation, enables the trainees to identify the technical terms in English in a simple way and to express themselves in their jobs, in a sound comprehended language.         Course Title       Public Relations       Credits       2         Course	introduces the bas Assisted Drafting (	rt of ic co (CAD	the area of Electrica ncepts of Technical D ) program. This cour	l Ins rawii se is	tallation program ng using a Comp s designed for u	n. It outer sing
Course Code         ES 209         Credits         2           Lecture Hours         0         Practical Hours         4         Total Hours         4           Course Description         Introduction in electrical circuits. Designing current calculation, adjusting current depending on temperature.         Course Title         Installations Rules (1)           Course Title         Installations Rules (1)         Credits         2           Course Code         ES 211         Credits         2           Lecture Hours         2         Practical Hours         0         Total Hours         2           Course Description         General Knowledge of all electrical installation in buildings in the state of Kuwait.         0         Total Hours         2           Course Title         English Language (3)         Course Code         2         Iterative administration of Total Hours         3           Course Code         EN 222         Credits         2         2         Lecture Hours         1         Practical Hours         2         Total Hours         3           Course Code         EN 222         Credits         2         2         Lecture Hours         3         3           Course Code         EN 222         Credits         2         Total Hours         3 </th <th>Inis course is par introduces the bas Assisted Drafting AutoCAD to applie</th> <th>rt of ic co (CAD d Ele</th> <th>the area of Electrica ncepts of Technical D ) program. This cour ectrical installation rul</th> <th>l Ins rawii se is les in</th> <th>tallation program ng using a Comp designed for us civil drawing.</th> <th>n. It outer sing</th>	Inis course is par introduces the bas Assisted Drafting AutoCAD to applie	rt of ic co (CAD d Ele	the area of Electrica ncepts of Technical D ) program. This cour ectrical installation rul	l Ins rawii se is les in	tallation program ng using a Comp designed for us civil drawing.	n. It outer sing
Lecture Hours       0       Practical Hours       4       Total Hours       4         Course Description       Introduction in electrical circuits. Designing current calculation, adjusting current depending on temperature.       Course Title       Installations Rules (1)         Course Title       Installations Rules (1)       Credits       2         Course Code       ES 211       Credits       2         Lecture Hours       2       Practical Hours       0       Total Hours       2         Course Description       General Knowledge of all electrical installation in buildings in the state of Kuwait.       0       Total Hours       2         Course Title       English Language (3)       Course Code       2       2       1       2         Course Total Hours       1       Practical Hours       2       Total Hours       3         Course Code       EN 222       Credits       2       2       2       2       2       2       1       1       1       1       1       1       2       1       1       2       1       1       1       1       1       2       1       1       1       1       1       1       1       1       1       1       1       1       1 <t< td=""><td>Inis course is par introduces the bas Assisted Drafting AutoCAD to applie</td><td>rt of ic co (CAD d Ele</td><td>the area of Electrica ncepts of Technical D program. This cour ectrical installation rul Drawings Design (1</td><td>l Ins rawii se is les in</td><td>tallation program ng using a Comp designed for us civil drawing.</td><td>n. It outer sing</td></t<>	Inis course is par introduces the bas Assisted Drafting AutoCAD to applie	rt of ic co (CAD d Ele	the area of Electrica ncepts of Technical D program. This cour ectrical installation rul Drawings Design (1	l Ins rawii se is les in	tallation program ng using a Comp designed for us civil drawing.	n. It outer sing
Course Description         Course Title       Installations Rules (1)         Course Code       ES 211       Credits       2         Lecture Hours       2       Practical Hours       0       Total Hours       2         Course Description       General Knowledge of all electrical installation in buildings in the state of Kuwait.       0       Total Hours       2         Course Title       English Language (3)       Credits       2         Course Code       EN 222       Credits       2         Lecture Hours       1       Practical Hours       2       Total Hours       3         Course Code       EN 222       Credits       2       2       Lecture Hours       3         Course Description       This course introduces a domain of Technical vocabulary items, structural themes, language functions and listening/speaking /writing as well as evaluation, enables the trainees to identify the technical terms in English in a simple way and to express themselves in their jobs, in a sound comprehended language.         Course Title       Public Relations       Credits       2         Course Code       ES 252       Credits       2         Lecture Hours       2       Practical Hours       0       Total Hours       2	Inis course is par introduces the basi Assisted Drafting ( AutoCAD to applie Course Title Course Code	rt of ic co (CAD d Ele	the area of Electrica ncepts of Technical D o) program. This cour extrical installation rul Drawings Design (1 ES 209	l Ins Frawin Se is les in	tallation program ng using a Comp designed for u civil drawing. Credits	m. It outer sing
Adjusting current depending on temperature.         Course Title       Installations Rules (1)         Course Code       ES 211       Credits       2         Lecture Hours       2       Practical Hours       0       Total Hours       2         Course Description       General Knowledge of all electrical installation in buildings in the state of Kuwait.       0       Total Hours       2         Course Title       English Language (3)       Course Code       EN 222       Credits       2         Course Code       EN 222       Credits       2       1       Practical Hours       2       Total Hours       3         Course Code       EN 222       Credits       2       1	Inis course is par introduces the basi Assisted Drafting ( AutoCAD to applie Course Title Course Code Lecture Hours	rt of ic co (CAD d Ele	the area of Electrica ncepts of Technical D pogram. This cour ectrical installation rul Drawings Design (1 ES 209 Practical Hours	I Ins rawii rse is les in ) 4	tallation program ng using a Comp designed for u civil drawing. Credits Total Hours	m. It outer sing
Course Title       Installations Rules (1)         Course Code       ES 211       Credits       2         Lecture Hours       2       Practical Hours       0       Total Hours       2         Course Description       General Knowledge of all electrical installation in buildings in the state of Kuwait.       English Language (3)         Course Title       English Language (3)       Credits       2         Course Code       EN 222       Credits       2         Lecture Hours       1       Practical Hours       2       Total Hours       3         Course Description       This course introduces a domain of Technical vocabulary items, structural themes, language functions and listening/speaking /writing as well as evaluation, enables the trainees to identify the technical terms in English in a simple way and to express themselves in their jobs, in a sound comprehended language.         FOURTH TRAINING SEMESTER       Course Title       Public Relations       Course Code       ES 252       Credits       2         Lecture Hours       2       Practical Hours       0       Total Hours       2	Inis course is par introduces the basi Assisted Drafting ( AutoCAD to applie Course Title Course Code Lecture Hours Course Description Introduction in el	rt of ic co (CAD d Ele 0 1	the area of Electrica ncepts of Technical D program. This cour extrical installation rul Drawings Design (1 ES 209 Practical Hours	I Ins rawin se is les in ) 4	tallation program ng using a Comp designed for us civil drawing. Credits Total Hours	n. It outer sing 2 4 tion
Course Title       Installations Rules (1)         Course Code       ES 211       Credits       2         Lecture Hours       2       Practical Hours       0       Total Hours       2         Course Description	Inis course is par introduces the basi Assisted Drafting ( AutoCAD to applie Course Title Course Code Lecture Hours Course Description Introduction in el adjusting current d	rt of ic co (CAD d Ele 0 1 lectri leper	the area of Electrica ncepts of Technical D program. This cour ectrical installation rul Drawings Design (1 ES 209 Practical Hours ical circuits. Design dding on temperature	I Ins prawii se is les in ) 4 ing	tallation program ng using a Comp designed for u civil drawing. Credits Total Hours current calculat	m. It outer sing 2 4 tion,
Course Code       ES 211       Credits       2         Lecture Hours       2       Practical Hours       0       Total Hours       2         Course Description       General Knowledge of all electrical installation in buildings in the state of Kuwait.       0       Total Hours       2         Course Title       English Language (3)       Course Code       EN 222       Credits       2         Lecture Hours       1       Practical Hours       2       Total Hours       3         Course Description       1       Practical Hours       2       Total Hours       3         Course Description       1       Practical Hours       2       Total Hours       3         Course Description       1       Practical Hours       2       Total Hours       3         Course Introduces a domain of Technical vocabulary items, structural themes, language functions and listening/speaking /writing as well as evaluation, enables the trainees to identify the technical terms in English in a simple way and to express themselves in their jobs, in a sound comprehended language.         Course Title       Public Relations       Course Code       ES 252       Credits       2         Lecture Hours       2       Practical Hours       0       Total Hours       2	Inis course is par introduces the basi Assisted Drafting ( AutoCAD to applie Course Title Course Code Lecture Hours Course Description Introduction in et adjusting current d	rt of ic co (CAD d Ele d Ele lectri leper	the area of Electrica ncepts of Technical D program. This cour ectrical installation rul Drawings Design (1 ES 209 Practical Hours ical circuits. Design ading on temperature	I Ins rawin se is les in ) 4 ing	tallation program ng using a Comp designed for us civil drawing. Credits Total Hours current calculat	m. It outer sing 2 4 tion,
Course Description       2       Fractical Hours       0       Fotal Hours       2         Course Description       General Knowledge of all electrical installation in buildings in the state of Kuwait.       0       Fotal Hours       1         Course Title       English Language (3)       Course Code       EN 222       Credits       2         Lecture Hours       1       Practical Hours       2       Total Hours       3         Course Description       This course introduces a domain of Technical vocabulary items, structural themes, language functions and listening/speaking /writing as well as evaluation, enables the trainees to identify the technical terms in English in a simple way and to express themselves in their jobs, in a sound comprehended language.         FOURTH TRAINING SEMESTER         Course Title       Public Relations         Course Code       ES 252       Credits       2         Lecture Hours       2       Practical Hours       0       Total Hours       2	Inis course is par introduces the basi Assisted Drafting ( AutoCAD to applie Course Title Course Code Lecture Hours Course Description Introduction in et adjusting current d Course Title	rt of ic co (CAD d Ele d Ele leper	the area of Electrica ncepts of Technical D program. This cour extrical installation rul Drawings Design (1 ES 209 Practical Hours ical circuits. Design nding on temperature Installations Rules (	I Ins rawii se is les in ) 4 ing	tallation program ng using a Comp designed for us civil drawing. Credits Total Hours current calculat	m. It outer sing 2 4 tion,
Course Title       English Language (3)         Course Code       EN 222       Credits       2         Lecture Hours       1       Practical Hours       2       Total Hours       3         Course Description       This course introduces a domain of Technical vocabulary items, structural themes, language functions and listening/speaking /writing as well as evaluation, enables the trainees to identify the technical terms in English in a simple way and to express themselves in their jobs, in a sound comprehended language.         Course Title       Public Relations         Course Code       ES 252       Credits       2         Lecture Hours       2       Practical Hours       2       2	Inis course is pai introduces the basi Assisted Drafting ( AutoCAD to applie Course Title Course Code Lecture Hours Course Description Introduction in el adjusting current d Course Title Course Title Course Hours	rt of ic co (CAD d Ele lectri leper	the area of Electrica ncepts of Technical D program. This cour extrical installation rul Drawings Design (1 ES 209 Practical Hours Installations Rules ( ES 211 Bratical Hours	I Ins prawin se is les in ) 4 ing (1)	tallation program ng using a Comp designed for us civil drawing. Credits Total Hours current calculat Credits Total Hours	m. It puter sing 2 4 tion, 2
of Kuwait.         Course Title       English Language (3)         Course Code       EN 222       Credits       2         Lecture Hours       1       Practical Hours       2       Total Hours       3         Course Description       This course introduces a domain of Technical vocabulary items, structural themes, language functions and listening/speaking /writing as well as evaluation, enables the trainees to identify the technical terms in English in a simple way and to express themselves in their jobs, in a sound comprehended language.         FOURTH TRAINING SEMESTER         Course Title       Public Relations         Course Code       ES 252       Credits       2         Lecture Hours       2       Practical Hours       0       Total Hours       2	Inis course is pai introduces the basi Assisted Drafting ( AutoCAD to applie Course Title Course Code Lecture Hours Course Description Introduction in el adjusting current d Course Title Course Code Lecture Hours Course Description	rt of ic co (CAD d Ele lectri leper	the area of Electrica ncepts of Technical D program. This cour extrical installation rul Drawings Design (1 ES 209 Practical Hours and circuits. Design nding on temperature Installations Rules ( ES 211 Practical Hours	I Ins prawii se is les in ) 4 ing (1) (1)	tallation program ng using a Comp designed for us civil drawing. Credits Total Hours current calculat Credits Total Hours	m. It outer sing 2 4 tion, 2 2 2 2
Course Title       English Language (3)         Course Code       EN 222       Credits       2         Lecture Hours       1       Practical Hours       2       Total Hours       3         Course Description       This course introduces a domain of Technical vocabulary items, structural themes, language functions and listening/speaking /writing as well as evaluation, enables the trainees to identify the technical terms in English in a simple way and to express themselves in their jobs, in a sound comprehended language.         FOURTH TRAINING SEMESTER         Course Title       Public Relations         Course Code       ES 252       Credits       2         Lecture Hours       2       Practical Hours       0       Total Hours       2	Inis course is pai introduces the basi Assisted Drafting ( AutoCAD to applie Course Title Course Code Lecture Hours Course Description Introduction in el adjusting current d Course Title Course Code Lecture Hours Course Description General Knowledge	rt of ic co (CAD (CAD d Ele lectri leper	the area of Electrica ncepts of Technical D program. This cour extrical installation rul Drawings Design (1 ES 209 Practical Hours Installations Rules ( ES 211 Practical Hours	I Ins rawii rse is les in ) 4 ing (1) (1)	tallation program ng using a Comp designed for us civil drawing. Credits Total Hours current calculat Credits Total Hours Duildings in the s	m. It outer sing 2 2 4 4 tion, 2 2 2 2
Course Title         English Language (3)           Course Code         EN 222         Credits         2           Lecture Hours         1         Practical Hours         2         Total Hours         3           Course Description         This course introduces a domain of Technical vocabulary items, structural themes, language functions and listening/speaking /writing as well as evaluation, enables the trainees to identify the technical terms in English in a simple way and to express themselves in their jobs, in a sound comprehended language.           FOURTH TRAINING SEMESTER         Course Title         Public Relations           Course Code         ES 252         Credits         2           Lecture Hours         2         Practical Hours         2         2	Inis course is pai introduces the basi Assisted Drafting ( AutoCAD to applie Course Title Course Code Lecture Hours Course Description Introduction in el adjusting current d Course Title Course Code Lecture Hours Course Description General Knowledge of Kuwait.	rt of ic co (CAE (CAE d Ele e lectri leper 1 2 1 2	the area of Electrica neepts of Technical D program. This cour extrical installation rul Drawings Design (1 ES 209 Practical Hours and circuits. Design nding on temperature Installations Rules ( ES 211 Practical Hours all electrical installation	Al Ins prawin se is les in ) ) 4 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	tallation program ng using a Comp designed for us civil drawing. Credits Total Hours current calculat Credits Total Hours Duildings in the s	m. It outer sing 2 4 4 tion, 2 2 2 2 3 5 5 5
Course Code         EN 222         Credits         2           Lecture Hours         1         Practical Hours         2         Total Hours         3           Course Description         This course introduces a domain of Technical vocabulary items, structural themes, language functions and listening/speaking /writing as well as evaluation, enables the trainees to identify the technical terms in English in a simple way and to express themselves in their jobs, in a sound comprehended language.           FOURTH TRAINING SEMESTER           Course Title         Public Relations           Course Code         ES 252         Credits         2           Lecture Hours         2         Practical Hours         0         Total Hours         2	Inis course is pai introduces the basi Assisted Drafting AutoCAD to applie Course Title Course Code Lecture Hours Course Description Introduction in et adjusting current d Course Title Course Code Lecture Hours Course Description General Knowledge of Kuwait.	rt of ic co (CAE d Ele d Ele e of a e of a	the area of Electrica ncepts of Technical D o) program. This cour ectrical installation rul Drawings Design (1 ES 209 Practical Hours ical circuits. Design nding on temperature Installations Rules ( ES 211 Practical Hours all electrical installation	Al Ins prawin se is les in ) ) 4 4 (1) (1) (1) (1) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	tallation program ng using a Comp designed for us civil drawing. Credits Total Hours current calculat Credits Total Hours buildings in the s	m. It puter sing 2 4 4 tion, 2 2 2 2 5 5 5 5
Course Description       Thattical Hours       2       Total Hours       3         Course Description       This course introduces a domain of Technical vocabulary items, structural themes, language functions and listening/speaking /writing as well as evaluation, enables the trainees to identify the technical terms in English in a simple way and to express themselves in their jobs, in a sound comprehended language.         FOURTH TRAINING SEMESTER         Course Title       Public Relations         Course Code       ES 252       Credits       2         Lecture Hours       2       Practical Hours       0       Total Hours       2	Inis course is par introduces the basi Assisted Drafting ( AutoCAD to applie) Course Title Course Code Lecture Hours Course Description Introduction in el adjusting current d Course Title Course Code Lecture Hours Course Description General Knowledge of Kuwait.	rt of ic co (CAD d Ele 0 1 lectri leper 2 1 2 1 c of a	the area of Electrica ncepts of Technical D o) program. This cour ectrical installation rul Drawings Design (1 ES 209 Practical Hours acal circuits. Design nding on temperature Installations Rules ( ES 211 Practical Hours all electrical installation English Language	I Ins           prawing           prawing           )                                   4           ining           (1)                       0           ining           (1)           (3)	tallation program ng using a Comp designed for u civil drawing. Credits Total Hours current calculat Credits Total Hours buildings in the s	m. It puter sing 2 4 4 tion, 2 2 2 state
Course introduces a domain of Technical vocabulary items, structural themes, language functions and listening/speaking /writing as well as evaluation, enables the trainees to identify the technical terms in English in a simple way and to express themselves in their jobs, in a sound comprehended language.         COURTH TRAINING SEMESTER         Course Title         Public Relations         Course Code         ES 252       Credits       2         Lecture Hours       2       Practical Hours       0       Total Hours       2	This course is par introduces the basi Assisted Drafting ( AutoCAD to applie Course Title Course Code Lecture Hours Course Description Introduction in el adjusting current d Course Title Course Code Lecture Hours Course Description General Knowledge of Kuwait. Course Title Course Title Course Title Course Title Course Title Course Title Course Title Course Title Course Title Course Title	rt of fic co (CAD d Ele 0 1 lectri leper 2 1 2	the area of Electrica ncepts of Technical D or pogram. This cour ectrical installation rul Drawings Design (1 ES 209 Practical Hours acal circuits. Design nding on temperature Installations Rules ( ES 211 Practical Hours all electrical installation English Language English Language English Language	al Ins prawin rse is les in ) 4 4 ing (1) (1) (1) (1) (3)	tallation program ng using a Comp designed for u civil drawing. Credits Credits Total Hours Credits Total Hours buildings in the s Credits	m. It puter sing 2 4 4 tion, 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
There is a minority of rechnical vocational y terms, should all terms in the terms in the terms in a simple way and to express themselves in their jobs, in a sound comprehended language.         FOURTH TRAINING SEMESTER         Course Title       Public Relations         Course Code       ES 252       Credits       2         Lecture Hours       2       Practical Hours       2	Inis course is par introduces the basis Assisted Drafting ( AutoCAD to applie Course Title Course Code Lecture Hours Course Description Introduction in el adjusting current d Course Title Course Code Lecture Hours Course Description General Knowledge of Kuwait.	rt of ic co (CAD d Ele e lectri leper 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	the area of Electrica ncepts of Technical D or program. This cour ectrical installation rul Drawings Design (1 ES 209 Practical Hours acal circuits. Design nding on temperature Installations Rules ( ES 211 Practical Hours all electrical installation English Language EN 222 Practical Hours	al Ins prawin rse is les in ) 4 (1) (1) (1) (1) (3) (3) (3)	tallation program ng using a Comp designed for u civil drawing. Credits Total Hours current calculat Credits Total Hours buildings in the s Credits Total Hours	m. It puter sing 2 4 4 tion, 2 2 2 2 2 3
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Comprehended language.         FOURTH TRAINING SEMESTER         Course Title       Public Relations         Course Code       ES 252       Credits       2         Lecture Hours       2       Practical Hours       0       Total Hours       2	Inis course is pai introduces the basi Assisted Drafting ( <u>AutoCAD to applie</u> <u>Course Title</u> <u>Course Code</u> <u>Lecture Hours</u> <u>Course Description</u> Introduction in el adjusting current d <u>Course Title</u> <u>Course Code</u> <u>Lecture Hours</u> <u>Course Description</u> <u>General Knowledg</u> of Kuwait. <u>Course Title</u> <u>Course Title</u> <u>Course Title</u> <u>Course Code</u> <u>Lecture Hours</u> <u>Course Description</u> This course introduc themes, language f evaluation, enables	rt of ic co (CAE d Ele 0 0 1 lectri leper 2 1 2 1 2 0 1 2 1 1 1 2 1 1 1 1 1 1 1 1	the area of Electrica ncepts of Technical D or program. This cour ectrical installation rul Drawings Design (1 ES 209 Practical Hours cal circuits. Design nding on temperature Installations Rules ( ES 211 Practical Hours all electrical installation English Language EN 222 Practical Hours domain of Technical V ions and listening/spe ainees to identify the te	al Ins prawin se is ins is is is is is is is is is is is is is	tallation program ng using a Comp designed for u civil drawing. Credits Total Hours Current calculat Credits Total Hours buildings in the s Credits Total Hours ulary items, struc g /writing as welcal terms in Englis	m. Itt sutter sing 2 4 4 tion, 2 2 2 2 2 3 state 2 3 3 tural II assh in
Course Title         Public Relations           Course Code         ES 252         Credits         2           Lecture Hours         2         Practical Hours         0         Total Hours         2           Course Description         Course Code         ES 252         Credits         2	Inis course is pai introduces the basi Assisted Drafting ( AutoCAD to applie Course Title Course Code Lecture Hours Course Description Introduction in el adjusting current d Course Title Course Code Lecture Hours Course Description General Knowledgo of Kuwait. Course Title Course Title Course Title Course Title Course Code Lecture Hours Course Title Course Code Lecture Hours Course Introduction this course introduct themes, language f evaluation, enables a simple way and	rt of fic co (CAE d Ele 0 0 1 1 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 1 2 1	the area of Electrica ncepts of Technical D or orgram. This cour ectrical installation rul Drawings Design (1 ES 209 Practical Hours ical circuits. Design nding on temperature Installations Rules ES 211 Practical Hours all electrical installation English Language EN 222 Practical Hours domain of Technical v ions and listening/spe ainees to identify the te express themselves i	al Ins prawin se is inses in ) 4 (1) (1) (1) (1) (1) (1) (1) (2) (3) (3) (3) (3) (3) (3) (3) (3) (3) (4) (4) (4) (4) (4) (5) (5) (6) (6) (6) (6) (6) (7) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	tallation program ng using a Comp designed for u civil drawing. Credits Total Hours Credits Total Hours buildings in the s Credits Total Hours ulary items, strucg g /writing as wel cal terms in Englise ir jobs, in a so	m. Itt sutter sing 2 4 4 tion, 2 2 2 2 2 2 2 3 tural ll ass sh in pound
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The way were at the value to to to to to the trained about the matera th	Inis course is pai introduces the basi Assisted Drafting AutoCAD to applie Course Title Course Code Lecture Hours Course Description Introduction in el adjusting current d Course Title Course Code Lecture Hours Course Description General Knowledg of Kuwait. Course Title Course Title Course Code Lecture Hours Course Description This course introdu themes, language evaluation, enables a simple way and comprehended lang Course Title Course Title Course Title Course Code Lecture Hours Course Title Course Title Course Title Course Title Course Title Course Title Course Title Course Title Course Code Lecture Hours Course Description The purpose of the	rt of ric CAD (CAD d Ele 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	the area of Electrica ncepts of Technical D or orgram. This cour extrical installation rul Drawings Design (1 ES 209 Practical Hours and circuits. Design nding on temperature Installations Rules ( ES 211 Practical Hours all electrical installation English Language EN 222 Practical Hours domain of Technical v tions and listening/spe ainees to identify the te express themselves i NING SEMES Public Relations ES 252 Practical Hours	I Ins prawin se is les in ) 4 (1) (1) (1) (1) (1) (1) (1) (1) (2) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3	tallation program ng using a Comp designed for u civil drawing. Credits Total Hours current calculat Credits Total Hours buildings in the s Credits Total Hours ulary items, struc g /writing as wel cal terms in Englise ir jobs, in a sc Credits Total Hours	m. Itti uuter sing 22 4 4 tion, 22 2 4 tural 11 as sh in pound 22 2 2 state

<b>0 1 1 1</b>				1.1			
Course Litle		Electrical Installatio	n wo	rksnop (3) Credits	4		
Lecture Hours	0	Practical Hours	8	Total Hours	8		
Course Description	1						
Electrical installati the previous work includes the major course includes the meter and the Meg system, testing by shooting, and the f the final report and	on w shop r pro e tes ger. usin inal inal	vorkshop 3 extend the b and it is the final s oject of electric instal ting instruments such also extend the know ng the earth tester in: project will be the sub electrical drawing.	e skil tep t lation as tl /ledg strun ject o	Is and knowledg before graduating n for a building. he multimeter, cla e about the earth nent and the trou of the final exam y	e of g, it the amp ing uble with		
Course Title		Protection					
Course Code		ES 255		Credits	3		
Lecture Hours	2	Practical Hours	2	Total Hours	4		
Specifications and Theory, specifica specifications an transmitters. Applie phrase motors. DC	clas tions d catio mot	sifications of fuses. In s, and classificatio classifications of o ns to control circuits. or control circuits.	sulat ns conta Cont	ors. Current Cutt of relays. The actors and sig trol circuits for the	ers. ory, gnal ree-		
Course Title		AutoCAD (2)					
Course Code	4	ES 257 Practical Hours	1	Credits	2		
Course Description	1	Practical Hours	2	Total Hours	3		
This course is par introduces the bas Assisted Drafting AutoCAD to applie	rt of ic co (CAE d Ele	the area of Electrica ncepts of Technical D ) program. This cour actrical installation rul	l Ins rawii se is les in	tallation progran ng using a Comp designed for us civil drawing.	n. It uter sing		
Course Title		Buildings Technolog	gy	Quadita			
Lecture Hours	4	ES 254 Practical Hours	0	Total Hours	4		
Course Description Engineering contra Bricks works Meo painting and interio	acts. hani or fin	Scheme and diagram cal and electrical we ishing, outside buildi	ms. ( orks, ngs f	Concrete structu ceiling and flo inishing.	res. ors,		
Course Title		Drawings Design (2)	)				
Course Code	0	ES 259 Brootion Hours	4	Credits	2		
Course Description		Fractical Hours	4	Total Hours	4		
This course gives designing larger e electrical calculation	s the elections.	e student the ability rical installation drav	and vings	I the knowledge with all necess	e of sary		
Course Title		Installations Rules (	2)				
Course Code		ES 261		Credits	2		
Lecture Hours	2	Practical Hours	0	Total Hours	2		
Definitions, general requirement for electrical installations. Sockets, high current protection. Earthing, earth fault protection. Distribution for wires, cables, connections points, plastic popes and iron pipes, manholes, and cable tunnels. Connection for final electrical circuits.							
Course Title Course Code		English Language (4 ES 268	4)	Credits	2		
Lecture Hours	2	Practical Hours	0	Total Hours	2		
Course Description This course introduces a domain of Technical vocabulary items, structural themes, language functions and listening/speaking /writing as well as evaluation. The ultimate goal of teaching such course is enabling the trainees to identify the technical terms in English in a simple way and to express themselves in their jobs, in a sound comprehended language.							
Course Title		Field Training		Credite	45		
Lecture Hours	0	ENI 300 Practical Hours	30	Total Hours	30		
Course Description	ت ۱			. otar nours			
Training in power station at Ministry of Energy							