

المناهج الدراسية لقسم هندسة النظم والسيطرة

الصف الأول

Systems and Control Engineering Department					
Undergraduate First Class/ First Semester					
Code	Subject	Hours/Week			Units
		First Term			
		Th	Tut	Pr	
SCE1201	Mathematics I	3	1		3
SCE1202	Electrical Circuits I	2	1	2	3
SCE1203	Physical Electronics I	2	1	2	3
SCE1204	Eng. Drawing			3	1
SCE1301	Mechanical Eng.(Statics)	2			2
SCE1302	Digital Techniques I	2		2	3
SCE1101	Computer Science	2		2	3
SCE1102	Technical English	2			2
Total		15	3	11	20
Systems and Control Engineering Department					
Undergraduate First Class/ First Semester					
Code	Subject	Hours/Week			Units
		First Term			
		Th	Tut	Pr	
SCE1211	Mathematics II	3	1		3
SCE1212	Electrical Circuits II	2	1	2	3
SCE1213	Physical Electronics II	2	1	2	3
SCE1311	Mechanical Eng. (Dynamics)	2			2
SCE1312	Digital Techniques II	2		2	3
SCE1111	C++ Programming I	2		2	3
SCE1214	Auto CAD			3	1
SCE1112	Human Rights	2			2
Total		15	3	11	20

الصف الثاني

Systems and Control Engineering Department					
Undergraduate Second Class/ First Semester					
Code	Subject	Hours/Week			Units
		First Semester			
		Th	Tut	Pr	
SCE2201	Engineering Analysis I	2	1		2
SCE2301	DC Machines	2		2	3
SCE2202	Analog Electronic I	2	1	2	3
SCE2302	Signals and Systems I	2		2	3
SCE2303	Control I	2		2	3
SCE2203	Digital Design	2	1		2
SCE2304	MATLAB Programming	2		2	3
SCE2101	Democracy	2			2
Total		61	3	01	12
Systems and Control Engineering Department					
Undergraduate Second Class/ Second Semester					
Code	Subject	Hours/Week			Units
		Second Semester			
		Th	Tut	Pr	
SCE2211	Engineering Analysis II	2	1		2
SCE2311	AC Machines	2		2	3
SCE2212	Analog Electronic II	2	1	2	3
SCE2312	Signals and Systems II	2		2	3
SCE2313	Control II	2		2	3
SCE2314	Measurement and Sensors	2	1		2
SCE2315	C++ Programming II	2			2
SCE2111	Industrial Management	2		2	3
Total		16	3	10	21

الصف الثالث:

Systems and Control Engineering Department					
Undergraduate Third Class/ First Semester					
Code	Subject	Hours/Week			Units
		First Semester			
		Th	Tut	Pr	
SCE3301	Power Electronics	2		2	3
SCE3302	Digital Control	2	1	2	3
SCE3303	Microprocessors I	2		2	3
SCE3201	DSP I	2		2	3
SCE3304	Digital Electronics	2		2	3
SCE3305	Thermodynamics	2			2
SCE3306	Analog Communication	2	1		2
SCE3307	System modeling	2	1		2
Total		61	3	01	12
Systems and Control Engineering Department					
Undergraduate Third Class/ Second Semester					
Code	Subject	Hours/Week			Units
		Second Semester			
		Th	Tut	Pr	
SCE3311	Programmable Logic Controllers	2		2	3
SCE3312	Control System Design	2	1	2	3
SCE3313	Microprocessors II	2		2	3
SCE3211	DSP II	2		2	3
SCE3314	Fluid mechanics	2			2
SCE3315	Microelectronics	2	1		2
SCE3316	Digital Communication	2	1		2
SCE3317	HDL Programming	2		2	3
Total		16	3	10	21

الصف الرابع

Systems and Control Engineering Department					
Undergraduate Fourth Class/ First Semester					
Code	Subject	Hours/Week			Units
		First Semester			
		Th	Tut	Pr	
SCE4301	Optimal Control I	2	1	2	3
SCE4302	Robotics I	2		2	3
SCE4303	Process Control	2		2	3
SCE4304	Electronic Design Automation	2	1	2	3
SCE4305	Embedded Systems	2	1	2	3
SCE4306	Project Management	2			2
SCE4307	Computer Networks	2			2
Total		14	3	10	19
Systems and Control Engineering Department					
Undergraduate Fourth Class/ Second Semester					
Code	Subject	Hours/Week			Units
		Second Semester			
		Th	Tut	Pr	
SCE4311	Optimal Control II	2	1	2	3
SCE4312	Robotics II	2		2	3
SCE4313	Computer Control System	2	1		2
SCE4314	Soft Computing	2	1		2
SCE4315	Real-Time Systems	2		2	3
SCE4316	Advanced Control Systems	2		2	3
SCE4317	Project	1		2	2
Total		13	3	10	18