

Al-Nahrain University / College of Information Engineering

Department of Systems Engineering

M.S.C. Program in Systems Engineering

First Semester					
NO.	Code	Subject Title	NO. Of Hrs. Per Week		Units
			Theory	Tutorial	
1	NACS550	Nonlinear & adaptive control systems	3	--	2
2	OPTE501	Optimization techniques	3	--	2
3	ENLA502	English Language	2	-	2
4	ACSY503	Advanced computer systems	2	1	2
5	SOCO504	Soft Computing	2	1	2
6	ACVI505	Advance computer vision	2	1	2
Total			14	4	12

Second Semester					
NO.	Code	Subject Title	NO. Of Hrs. Per Week		Units
			Theory	Tutorial	
1	AESY550	Advanced embedded systems	3	--	2
2	ADCS551	Advanced distributed control systems	3	--	2
3	AISY553	Advanced intelligent systems	2	1	2
4	ROAU554	Robotics & Automation	2	1	2
5	CLCO555	Cloud Computing	2	1	2
6	REME552	Research Methodology	2	-	2
Total			14	3	12

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مديرة وحدة الجودة

Elective Subjects					
NO.	Code	Subject Title	NO. Of Hrs. Per Week		Units
			Theory	Tutorial	
1	ACSY503	Advanced Computer Systems	2	1	2
2	SOCO504	Soft Computing	2	1	2
3	ACVI505	Advanced Computer Vision	2	1	2
4	WSNE506	Wireless Sensor Network	2	1	2
5	NCSY507	Networked Control Systems	2	1	2
6	IITH508	Industrial Internet of Things	2	1	2
7	SMSI509	System Modeling and Simulation	2	1	2
8	ISEN510	Information System Engineering	2	1	2
9	DESY551	Discrete Event System	2	1	2
10	RHPR512	Reconfigurable Hardware Programing	2	1	2
11	SYAR513	Systems Architecting	2	1	2
12	ADSD514	Advanced Digital System Design	2	1	2
13	ADCO515	Advanced Digital Control	2	1	2
14	PAPR516	Parallel Processing	2	1	2
15	OPCO517	Optimal Control	2	1	2
16	PCSY518	Process Control Systems	2	1	2
17	RSES519	Risk and Security Engineering Systems	2	1	2
18	AISY553	Advance Intelligent systems			
19	ROAU554	Robotics & Automation	2	1	2
20	CLCO555	Cloud Computing	2	1	2
21	SSTS556	Special Selected Topics in System(s) Engineering	2	1	2
22	INCO557	Industrial Communication	2	1	2
23	SYRE558	Systems Reliability	2	1	2
24	DCSY559	Distributed Computing Systems	2	1	2
25	FTCS560	Fault-tolerance Control Systems	2	1	2
26	SSCO561	Systems Security Controls	2	1	2
27	SCDA562	Supervisory Control and Data	2	1	2
28	ACSY563	Acquisition (SCADA) Systems	2	1	2
29	VARE564	Virtual and Augmented Reality	2	1	2

Program Statistics	
First Semester	12 Units
Second Semester	12 Units
Thesis	12 Units
Total	36 Units



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