Department of Computer Engineering and Automation
A- Computer Engineering

First year – Computer Engineering							
Second Semester				**First Semester**			
total	Practice (hour)	Theory (hour)	Course name	Total	Practice (hour)	Theory (hour)	Course name
5	2	3	1-Mathematical Analysis (2)	6	2	4	1-Mathematical Analysis (1)
6	2	4	2-Fundamentals of Electrical Engineering	6	2	4	2-Linear Algebra
4	2	2	3- Physics(2)	4	2	2	3- Physics (1)
6	2	4	4- Programming (1)	4	2	2	4-Mechanical Engineering
4	4	–	5- Professional atelier	6	2	4	5- Introduction to Computers and Programming
2	–	2	6- Arabic Language	2	–	2	6-National Culture
4	–	4	7- Foreign Language(2)	4	–	4	7- Foreign Language(1)
31	**12**	**19**	**Total**	**32**	**10**	**22**	**Total**

Second year – Computer Engineering							
Second Semester				**First Semester**			
total	Practice (hour)	Theory (hour)	Course name	total l	Practice (hour)	Theory (hour)	Course name
4	2	2	1-Discret Mathematical	6	2	4	1-Mathematical Analysis (3)
5	2	3	2- Logic Circuits	5	2	3	2- Numerical Analysis
5	2	3	3- Algorithms and data structure	6	2	4	3- Programming(2)
4	2	2	4-Measurements and Electrical Measurements devices	6	2	4	4- Electrical Circuits(1)
6	2	4	5- Fundamentals of Electronic Engineering	4	2	2	5- Engineering drawing
4	2	2	6- Electrical Circuits(2)	4	1	3	6- Electromagnetic fields
4	–	4	7- Foreign Language(4)	4	–	4	7- Foreign Language(3)
32	**12**	**20**	**Total**	**35**	**11**	**24**	**Total**

	Third year - Computer Engineering						
	Second Semester				First Semester		
total	Practice (hour)	Theory (hour)	Course name	total	Practice (hour)	Theory (hour)	Course name
4	2	2	1.-Electronic Circuits (2)	6	2	4	1.Electronic Circuits (1)
6	2	4	2.Microprocessor and its systems	6	2	4	2. Digital and Logical Systems
6	2	4	3.Fundamentals of Engineering	4	1	3	3.Automatic Control theory
4	_	4	4.Systems Analysis	6	2	4	4. Computer structure and organization
6	2	4	5.Automatic Control Systems	4	2	2	5.Probability and Statistic
4	2	2	6.Electronic Measurements	2	_	2	6 .Operational Research
30	10	20	Total	28	9	19	Total

	Fourth year −Computer Engineering						
	Second Semester				First Semester		
total	Practice (hour)	Theory (hour)	Course name	total	Practice (hour)	Theory (hour)	Course name
6	2	4	1.Advanced Structure of Computer	4	2	2	1. Peripheral Units of Computers
4	2	2	2.Sofware Engineering	6	2	4	2.Operating Systems
6	2	4	3.Embedded Systems	2	_	2	3.Coding Theory
6	2	4	4.Computers Networks and data Communication	6	2	4	4.Artificial Intelligence
4	2	2	5.Database	6	2	4	5.Signal processing
				6	2	4	6.Digital Communications
26	10	16	Total	30	10	20	Total

Fifth year - Computer Engineering							
Second Semester				First Semester			
total	Practice (hour)	Theory (hour)	Course name	Total	Practice (hour)	Theory (hour)	Course name
4	–	4	1. Engineering Economy and Business Management	6	2	4	1. Advanced Computers Networks
4	2	2	2.Security of data and Networks	4	2	2	2. Neural Networks
4	1	3	3.Computer Vision	6	2	4	3.Modern Systems of Communication
				2	–	2	4.Reliability and quality criteria
				6	2	4	5.Computer Networks Programming
4	2	2	4.Final Project	4	2	2	6.Final Project
16	5	11	Total	28	10	18	Total

Chairman of Department of Computer Engineering and Automation

Department of Computer Engineering and Automation
Control and Automation Engineering

| First year -Control and Automation Engineering ||||||||
| Second Semester |||| First Semester ||||
total	Practice (hour)	Theory (hour)	Course name	Total	Practice (hour)	Theory (hour)	Course name
5	2	3	1-Mathematical Analysis (2)	6	2	4	1-Mathematical Analysis (1)
6	2	4	2-Fundamentals of Electrical Engineering	6	2	4	2-Linear Algebra
4	2	2	3- Physics(2)	4	2	2	3- Physics (1)
6	2	4	4- Programming (1)	4	2	2	4-Mechanical Engineering
4	4	–	5- Professional atelier	6	2	4	5- Introduction to Computers and Programming
2	–	2	6-Arabic Language	2	–	2	6-National Culture
4	–	4	7-Foreign Language(2)	4	–	4	7- Foreign Language(1)
31	12	19	Total	32	10	22	Total

| Second year - Control and Automation Engineering ||||||||
| Second Semester |||| First Semester ||||
total	Practice (hour)	Theory (hour)	Course name	total	Practice (hour)	Theory (hour)	Course name
4	2	2	1-Discret Mathematical	6	2	4	1-Mathematical Analysis (3)
5	2	3	2- Logic Circuits	5	2	3	2- Numerical Analysis
5	2	3	3- Algorithms and data structure	6	2	4	3- Programming(2)
4	2	2	4-Measurements and Electrical Measurements devices	6	2	4	4- Electrical Circuits(1)
6	2	4	5- Fundamentals of Electronic Engineering	4	2	2	5- Engineering drawing
4	2	2	6- Electrical Circuits(2)	4	1	3	6- Electromagnetic fields
4	–	4	7- Foreign Language(4)	4	–	4	7- Foreign Language(3)
32	12	20	Total	35	11	24	Total

Third year - Control and Automation Engineering							
Second Semester				**First Semester**			
total	Practice (hour)	Theory (hour)	Course name	total	Practice (hour)	Theory (hour)	Course name
4	2	2	1.-Electronic Circuits (2)	6	2	4	1.Electronic Circuits (1)
6	2	4	2.Microprocessor and its systems	6	2	4	2. Digital and Logical Systems
6	2	4	3.Fundamentals of Engineering	4	1	3	3.Automatic Control theory
4	_	4	4.Systems Analysis	6	2	4	4-Computer structure and organization
6	2	4	5.Automatic Control Systems	4	2	2	5.Probability and Statistic
4	2	2	6.Electronic Measurements	2	_	2	6. Operational Research
30	**10**	**20**	**Total**	**28**	**9**	**19**	**Total**

Fourth year - Control and Automation Engineering							
Second Semester				**First Semester**			
total	Practice (hour)	Theory (hour)	Course name	total	Practice (hour)	Theory (hour)	Course name
4	1	3	1.Industrial Electronics	4	2	2	1. Peripheral Units of Computers
4	2	2	2.Fuzzy Control	6	2	4	2.Operating Systems
6	2	4	3.Computers Networks and data communication	4	2	2	3.Special Electrical Machines
4	2	2	4. Software Engineering	4	1	3	4.Nonlinear Control
4	2	2	5.Database	6	2	4	5. Artificial Intelligence
6	2	4	6. Signal processing	6	2	4	6. Digital Communication
28	**11**	**17**	**Total**	**30**	**11**	**19**	**Total**

Fifth year - Control and Automation Engineering							
Second Semester				First Semester			
total	Practice (hour)	Theory (hour)	Course name	total	Practice (hour)	Theory (hour)	Course name
4	–	4	1. Engineering Economy and Business Management	4	2	2	1. Neural Networks
4	1	3	2. Expert Systems	6	2	4	2. Advanced Structure of Computer
4	1	3	3. Computer Vision	6	2	4	3.Industrial Networks and its protocols
				2	–	2	4.Reliability and quality criteria
				6	2	4	5. Robotic Systems and Programming Machines
4	2	2	4. Final Project	4	2	2	6. Final Project
16	4	12	Total	28	10	18	Total

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