

Department of Computer Engineering and Automation A- Computer Engineering

| | | | First ye | ar -Con | nputer Eng | ineering | | | |
|-------|--------------------|------------------|--|---------|--------------------|------------------|--|--|--|
| | Sec | ond Seme | ster | | 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 | | | | | | | | | | |
|-------|-----------------------------------|------------------|--|-----------|--------------------|------------------|--------------------------------|--|--|--|--|
| | 9 | mester | First Semester | | | | | | | | |
| total | Practice (hour) | Theory (hour) | Course name | tota 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 - C | ompute | r Engineeri | ng | | |
|-------|----------|------------|-------------------|----------------|-------------|--------|-------------------|--|
| | Seco | nd Semeste | er | First Semester | | | | |
| total | Practice | Theory | Course name | total | Practice | Theory | Course name | |
| | (hour) | (hour) | | | (hour) | (hour) | | |
| 4 | 2 | 2 | 1Electronic | 6 | 2 | 4 | 1.Electronic | |
| | | | Circuits (2) | | | | Circuits (1) | |
| 6 | 2 | 4 | 2.Microprocesso | 6 | 2 | 4 | 2. Digital and | |
| | | | r and its systems | | | | Logical Systems | |
| 6 | 2 | 4 | 3.Fundamentals | 4 | 1 | 3 | 3.Automatic | |
| | | | of Engineering | | | | Control theory | |
| 4 | _ | 4 | 4.Systems | 6 | 2 | 4 | 4. Computer | |
| | | | Analysis | | | | structure and | |
| | | | | | | | organization | |
| 6 | 2 | 4 | 5.Automatic | 4 | 2 | 2 | 5.Probability and | |
| | | | Control Systems | | | | Statistic | |
| 4 | 2 | 2 | 6.Electronic | 2 | _ | 2 | 6 .Operational | |
| | | | Measurements | | | | Research | |
| 30 | 10 | 20 | Total | 28 | 9 | 19 | Total | |

| | | | Fourth year | -Comp | outer Engin | eering | | | | |
|-------|--------------------|-------------|---|-------|--------------------|------------------|-------------------------------------|--|--|--|
| | Sec | ond Sem | ester | | First Semester | | | | | |
| total | Practice (hour) | Theor y | Course name | total | Practice (hour) | Theory (hour) | Course name | | | |
| 6 | 2 | (hour) 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 - | Compu | ter Enginee | ering | | |
|-------|----------|----------|--------------------|----------------|-------------|--------|---------------------------|--|
| | Se | cond Sem | ester | First Semester | | | | |
| total | Practice | Theory | Course name | Total | Practice | Theory | Course name | |
| | (hour) | (hour) | | | (hour) | (hour) | | |
| 4 | _ | 4 | 1. Engineering | 6 | 2 | 4 | 1. Advanced Computers | |
| | | | Economy and | | | | Networks | |
| | | | Business | | | | | |
| | | | Management | | | | | |
| 4 | 2 | 2 | 2.Security of data | 4 | 2 | 2 | 2. Neural Networks | |
| | | | and 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

| | | Fii | st year -Control | and Au | tomation E | Engineerin | g | | |
|-------|----------------------|----------|------------------|----------------|-------------------|------------|------------------------|--|--|
| | Sec | ond Seme | ster | First Semester | | | | | |
| total | otal Practice Theory | | Course name | Tota | Practice | Theory | Course name | | |
| | (hour) | (hour) | | l | (hour) | (hour) | | | |
| 5 | 2 | 3 | 1-Mathematical | 6 | 2 | 4 | 1-Mathematical | | |
| | | | Analysis (2) | | | | Analysis (1) | | |
| 6 | 2 | 4 | 2-Fundamentals | 6 | 2 | 4 | 2-Linear Algebra | | |
| | | | of Electrical | | | | | | |
| | | | Engineering | | | | | | |
| 4 | 2 | 2 | 3- Physics(2) | 4 | 2 | 2 | 3- Physics (1) | | |
| 6 | 2 | 4 | 4- Programming | 4 | 2 | 2 | 4-Mechanical | | |
| | | | (1) | | | | Engineering | | |
| 4 | 4 | - | 5- Professional | 6 | 2 | 4 | 5- Introduction to | | |
| | | | atelier | | | | Computers and | | |
| | | | | | | | Programming | | |
| 2 | - | 2 | 6-Arabic | 2 | - | 2 | 6-National Culture | | |
| | | | Language | | | | | | |
| 4 | _ | 4 | 7-Foreign | 4 | _ | 4 | 7- Foreign Language(1) | | |
| | | | Language(2) | | | | | | |
| 31 | 12 | 19 | Total | 32 | 10 | 22 | Total | | |

| | | Sec | ond year - Control and A | Autom | ation Engi | neering | | |
|-------|--------------------------|--|---------------------------|----------------|------------|---------|--------------------|--|
| | | Second Se | emester | First Semester | | | | |
| total | al Practice Theory Cours | | Course name | tota Practice | | Theory | Course name | |
| | (hour) | (hour) | | 1 | (hour) | (hour) | | |
| 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 | 6 | 2 | 4 | 3- Programming(2) | |
| | | | structure | | | | | |
| 4 | 2 | 2 | 4-Measurements and | 6 | 2 | 4 | 4- Electrical | |
| | | | Electrical | | | | Circuits(1) | |
| | | | Measurements devices | | | | | |
| 6 | 2 | 4 | 5- Fundamentals of | 4 | 2 | 2 | 5- Engineering | |
| | | | Electronic 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 | |



| | | Thi | rd year - Control a | and Auto | mation En | gineering | | |
|-------|----------|------------|---------------------|----------------|-----------|-----------|-------------------|--|
| | Seco | nd Semeste | er | First Semester | | | | |
| total | Practice | Theory | Course name | total | Practice | Theory | Course name | |
| | (hour) | (hour) | | | (hour) | (hour) | | |
| 4 | 2 | 2 | 1Electronic | 6 | 2 | 4 | 1.Electronic | |
| | | | Circuits (2) | | | | Circuits (1) | |
| 6 | 2 | 4 | 2.Microprocesso | 6 | 2 | 4 | 2. Digital and | |
| | | | r and its systems | | | | Logical Systems | |
| 6 | 2 | 4 | 3.Fundamentals | 4 | 1 | 3 | 3.Automatic | |
| | | | of Engineering | | | | Control theory | |
| 4 | _ | 4 | 4.Systems | 6 | 2 | 4 | 4-Computer | |
| | | | Analysis | | | | structure and | |
| | | | | | | | organization | |
| 6 | 2 | 4 | 5.Automatic | 4 | 2 | 2 | 5.Probability and | |
| | | | Control Systems | | | | Statistic | |
| 4 | 2 | 2 | 6.Electronic | 2 | _ | 2 | 6. Operational | |
| | | | Measurements | | | | Research | |
| 30 | 10 | 20 | Total | 28 | 9 | 19 | Total | |

| | | ŀ | Fourth year - Contr | ol and A | Automation | n Enginee | ring | |
|-------|----------|----------|---------------------|----------------|------------|-----------|------------------------|--|
| | Sec | ond Seme | ster | First Semester | | | | |
| total | Practice | Theory | Course name | total | Practice | Theory | Course name | |
| | (hour) | (hour) | | | (hour) | (hour) | | |
| 4 | 1 | 3 | 1.Industrial | 4 | 2 | 2 | 1. Peripheral Units of | |
| | | | Electronics | | | | Computers | |
| 4 | 2 | 2 | 2.Fuzzy Control | 6 | 2 | 4 | 2.Operating Systems | |
| 6 | 2 | 4 | 3.Computers | 4 | 2 | 2 | 3.Special Electrical | |
| | | | Networks and | | | | Machines | |
| | | | data | | | | | |
| | | | communication | | | | | |
| 4 | 2 | 2 | 4. Software | 4 | 1 | 3 | 4.Nonlinear Control | |
| | | | Engineering | | | | | |
| 4 | 2 | 2 | 5.Database | 6 | 2 | 4 | 5. Artificial | |
| | | | | | | | Intelligence | |
| 6 | 2 | 4 | 6. Signal | 6 | 2 | 4 | 6. Digital | |
| | | | processing | | | | Communication | |
| 28 | 11 | 17 | Total | 30 | 11 | 19 | Total | |



| | | Fi | fth year - Control a | nd Aut | omation En | gineering | 5 | |
|-------|----------|-----------|----------------------|----------------|------------|-----------|--------------------|--|
| | Seco | nd Semest | ter | First Semester | | | | |
| total | Practice | Theory | Course name | total | Practice | Theory | Course name | |
| | (hour) | (hour) | | | (hour) | (hour) | | |
| 4 | _ | 4 | 1. Engineering | 4 | 2 | 2 | 1. Neural Networks | |
| | | | Economy and | | | | | |
| | | | Business | | | | | |
| | | | Management | | | | | |
| 4 | 1 | 3 | 2. Expert Systems | 6 | 2 | 4 | 2. Advanced | |
| | | | | | | | Structure of | |
| | | | | | | | Computer | |
| 4 | 1 | 3 | 3. Computer | 6 | 2 | 4 | 3.Industrial | |
| | | | Vision | | | | 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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