

„Aurel Vlaicu“ University of Arad

Faculty of Engineering

Department: Automation, Industrial Engineering, Textile and Transportation

Study area: Systems Engineering

Bachelor Study Programme: Automation and Applied Informatics

Form of education: Full-time learning - 4 years

STUDY COURSES WITH RESPECT TO THE ACADEMIC YEARS
valid throughout the academic year 2018-2019
2nd YEAR

| Course code | Course | Course type | Indiv. study / Sem (h) | Weekly learning hours and evaluation type | | | | | | | | | | | |
|--|--|-------------|------------------------|---|-----------|----------|-----------|---------------|---------------|-----------------------------------|----------|----------|---------------|-------------|----------|
| | | | | 1 st Semester 14 weeks | | | | | | 1 st Semester 14 weeks | | | | | |
| | | | | C | S | L | Pr | Ev | K | C | S | L | Pr | Ev | K |
| CIGF3O01 | Special mathematics | DF | 44 | 2 | 2 | - | - | E | 4 | | | | | | |
| CIGD3O02 | Linear electronics circuits | DD | 94 | 2 | - | 2 | - | E | 6 | | | | | | |
| CIGD3O03 | Analysis and synthesis of numerical devices | DD | 69 | 2 | - | 2 | - | E | 5 | | | | | | |
| CIGD3O04 | Electrical machines and actions 1 | DD | 69 | 2 | - | 2 | - | E | 5 | | | | | | |
| CIGD3O05 | Design of algorithms | DD | 58 | 2 | - | 1 | - | C | 4 | | | | | | |
| CIGF3O06 | Applied Informatics 2 | DF | 55 | 1 | - | 2 | 2 | C | 5 | | | | | | |
| CIGC3O10 | Sports 3 | DC | 22 | - | 2 | - | - | A/R | 2 | C | S | L | Pr | Ev | K |
| CIGD4O16 | Electrical machines and actions 2 | DD | 33 | | | | | | | 2 | - | - | 1 | C | 3 |
| CIGD4O17 | Structure of computers | DD | 44 | | | | | | | 2 | - | 2 | - | E | 4 |
| CIGD4O18 | Systems theory | DD | 66 | | | | | | | 3 | 1 | 2 | - | E | 6 |
| CIGD4O19 | Measurements and transducers | DD | 44 | | | | | | | 2 | - | 2 | - | E | 4 |
| CIGD4O20 | Automatics and microprogramming | DD | 44 | | | | | | | 2 | - | 2 | - | E | 4 |
| CIGD4O21 | Shaping, identification and simulation | DD | 58 | | | | | | | 2 | - | - | 1 | C | 4 |
| CIGD4O25 | Practice | DD | | 90 hours /3 weeks | | | | | | | | | | C | 4 |
| TOTAL S1 / S2 (OFFICIALLY COMPULSORY) | | | | | 11 | 4 | 9 | 2 | K 29+2 | 13 | 1 | 8 | 2 | K 29 | |
| TOTAL An II (OFFICIALLY COMPULSORY) | | | | 24 C+5 S+17 L+4 P | | | | | | 8 E+5 C+1 A/R | | | K 58+2 | | |
| OPTIONAL COMPULSORY | | | | | | | | | | | | | | | |
| | | | | C | S | L | Pr | Ev | K | | | | | | |
| CIGC3A07 | Modern Language 1 En | DC | 11 | - | 1 | - | - | C | 1 | | | | | | |
| CIGC3A08 | Modern Language 1 Fr | | | | | | | | | | | | | | |
| CIGC3A09 | Modern Language 1 Ge | | | | | | | | | | | | | | |
| | | | | | | | | | | C | S | L | Pr | Ev | K |
| CIGC4A22 | Modern Language 2 En | DC | 11 | | | | | | | - | 1 | - | - | C | 1 |
| CIGC4A23 | Modern Language 2 Fr | | | | | | | | | | | | | | |
| CIGC4A24 | Modern Language 2 Ge | | | | | | | | | | | | | | |
| TOTAL S1 / S2 (OPTIONAL COMPULSORY) | | | | | - | 1 | - | - | 1 | 1 | | | | | 1 |
| TOTAL 2nd YEAR (OPTIONAL COMPULSORY) | | | | 2S | | | | | | 2 C | | | K 2 | | |
| TOTAL COMPULSORY S1 / S2 | | | | 11 | 5 | 9 | 2 | K 30+2 | 13 | 2 | 8 | 2 | K 30 | | |
| TOTAL COMPULSORY | | | | 27 | | | | | | 25 | | | | | |
| TOTAL COMPULSORY 2nd YEAR | | | | 24 C+7 S+17 L+4 P | | | | | | 8 E+7 C+1 A/R | | | K 60+2 | | |
| FACULTATIVE | | | | C | S | L | Pr | Ev | K | | | | | | |
| CIGC3F11 | Second Modern Language 3 En | DC | 36 | | 1 | | | C | 2 | | | | | | |
| CIGC3F12 | Second Modern Language 3 Fr | DC | 36 | - | 1 | - | - | C | 2 | | | | | | |
| CIGC3F13 | Second Modern Language 3 Ge | DC | 36 | | 1 | | | C | 2 | | | | | | |
| CIGC3F14 | The history of music 1 | DC | 22 | - | 2 | - | - | C | 2 | | | | | | |
| CIGC3F15 | Psychology of education/ Seminar Ped. | DC | 69 | 2 | 2 | - | - | E | 5 | C | S | L | Pr | Ev | K |
| CIGC4F26 | Second Modern Language 4 En | DC | 36 | | | | | | | | 1 | | | C | 2 |
| CIGC4F27 | Second Modern Language 4 Fr | DC | 36 | | | | | | | - | 1 | | | C | 2 |
| CIGC4F28 | Second Modern Language 4 Ge | DC | 36 | | | | | | | | 1 | | | C | 2 |
| CIGC4F29 | The history of music 2 | DC | 22 | | | | | | | | 2 | | | C | 2 |
| CIGC4F30 | Pedagogy I (Fundamentals of pedagogy + Curriculum theory and methodology) | DC | 69 | | | | | | | 2 | 2 | - | - | E | 5 |
| TOTAL FACULTATIVE S1 / S2 | | | | 2 | 7 | - | - | K 13 | 2 | 7 | - | - | K 13 | | |
| TOTAL FACULTATIVE 2nd YEAR | | | | 4 C+14 S | | | | | | 2 E+8 C | | | K 26 | | |

RECTOR

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DEAN

Conf. Dr. Ing. Dan Ovidiu GLĂVAN

HEAD OF DEPARTMENT

Prof. Dr. Ing. Gheorghe SIMA

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|--|--|-------------|----------------------|---|----------|----------|----------|----------------|-----------|-----------------------------------|----------|-------------|-------------|----|----|
| | | | | 1 st Semester 14 weeks | | | | | | 1 st Semester 14 weeks | | | | | |
| | | | | C | S | L | Pr | Ev | K | C | S | L | Pr | Ev | K |
| CIGF7O01 | Computer-aided Graphics 3 | DF | 66 | 2 | - | 2 | 2 | E | 6 | | | | | | |
| CIGD7O02 | Dynamic systems with discreet events | DD | 58 | 2 | - | 1 | - | C | 4 | | | | | | |
| CIGD7O03 | Programming systems engineering | DD | 58 | 2 | - | - | 1 | E | 4 | | | | | | |
| CIGD7O04 | Programarea roboților și a mașinilor unelte | DD | 69 | 2 | - | 2 | - | E | 5 | | | | | | |
| CIGS7O05 | Artificial intelligence | DS | 69 | 2 | - | 1 | 1 | E | 5 | | | | | | |
| CIGS7O06 | Continous industrial processes controll | DS | 22 | 1 | - | - | 1 | C | 2 | C | S | L | Pr | Ev | K |
| CIGD8O11 | WEB technologies | DD | 22 | | | | | | | - | - | - | 2 | C | 2 |
| CIGS8O12 | Advanced control systems | DS | 33 | | | | | | | 3 | - | - | - | E | 3 |
| CIGS8O13 | Quality engineering | DS | 22 | | | | | | | 2 | - | - | - | C | 2 |
| CIGS8O14 | Applications of neuro-fuzzy systems | DS | 19 | | | | | | | 2 | - | 1 | 1 | E | 3 |
| CIGS8O15 | Management and industrial engineering | DS | 8 | | | | | | | 2 | - | - | 1 | E | 2 |
| CIGS8O16 | Elaboration of diploma project | DS | 180 | | | | | | | - | - | - | 5 | C | 10 |
| CIGS8O17 | Practice of diploma project | DS | 15 | 60 hours; 6 h/day ; 2 weeks | | | | | | | | | | C | 3 |
| TOTAL S1 / S2 (OFFICIALLY COMPULSORY) | | | | 11 | - | 6 | 5 | K 26 | 9 | - | 1 | 9 | K 25 | | |
| TOTAL An IV (OFFICIALLY COMPULSORY) | | | | 20 C+7 L+14 P | | | | 7 E+6 C | | | | K 51 | | | |
| OPTIONAL COMPULSORY | | | | | | | | | | | | | | | |
| Pack 1 | | | | C | S | L | Pr | Ev | K | | | | | | |
| CIGS7A07 | Programming of automated distributed systems | DS | 44 | 2 | - | 2 | - | C | 4 | | | | | | |
| CIGS7A08 | Complex processes Automation | | | | | | | | | | | | | | |
| Pack 2 | | | | C | S | L | Pr | Ev | K | | | | | | |
| CIGS8A18 | Renewable energy | DS | 8 | | | | | | | 2 | - | - | 1 | C | 2 |
| CIGS8A19 | Control of autonomous hybrid systems for renewable energies conversion | | | | | | | | | | | | | | |
| Pack 3 | | | | C | S | L | Pr | Ev | K | | | | | | |
| CIGS8A20 | Biomedical engineering | DS | 19 | | | | | | | 2 | - | 2 | - | E | 3 |
| CIGS8A21 | Biological processes modelling | | | | | | | | | | | | | | |
| TOTAL S1 / S2 (OPTIONAL COMPULSORY) | | | | 2 | - | 2 | - | K 4 | 4 | - | 2 | 1 | K 5 | | |
| TOTAL An IV (OPTIONAL COMPULSORY) | | | | 6 C+4 L+1 P | | | | 1 E+2 C | | | | K 9 | | | |
| TOTAL COMPULSORY S1 / S2 | | | | 13 | - | 8 | 5 | K 30 | 13 | - | 3 | 10 | K 30 | | |
| TOTAL COMPULSORY | | | | 26 | | | | | | 26 | | | | | |
| TOTAL COMPULSORY 4th YEAR | | | | 26 C+11 L+15 P | | | | 8 E+9 C | | | | K 60 | | | |
| FACULTATIVE Seminar pedagogic | | | | C | S | L | Pr | Ev | K | | | | | | |
| CIGC7F09 | Teaching practice 1 | DC | 33 | | 3 | | | C | 3 | | | | | | |
| CIGC7F10 | Computer aided training | DC | 22 | 1 | 1 | | | C | 2 | C | S | L | Pr | Ev | K |
| CIGC8F22 | Teaching practice 2 | DC | 7 | | | | | | | | 3 | | | C | 2 |
| CIGC8F23 | Management of the classroom | DC | 47 | | | | | | | 1 | 1 | | | E | 3 |
| CIGC8F24 | Final evaluation | DC | 97 | | | | | | | | 2 | - | - | E | 5 |
| TOTAL FACULTATIVE S1 / S2 | | | | 1 | 4 | | - | K 5 | 1 | 6 | - | - | K 10 | | |
| TOTAL FACULTATIVE 4th YEAR | | | | 2C+10 S | | | | 2E+3 C | | | | K 15 | | | |

| Cod disciplina | Disciplină | | | | |
|----------------|------------------------|--|--|----------|-------------|
| CIGS8O25 | Holding a diploma exam | | | E | K 10 |

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