

**CURRICULUM \*\***  
**Year of study I**

| Code      | Disciplines*   | Type | Sem. I<br>[hours / week] |          |          |          | Total of<br>hours /<br>sem. | Type of<br>Exami-<br>nation | Cre-<br>dits | IS<br>[hours<br>/<br>sem.] | Condi-<br>tioning |
|-----------|--|------|--------------------------|----------|----------|----------|-----------------------------|-----------------------------|--------------|----------------------------|-------------------|
|           |  |      | C                        | S        | L        | P        |                             |                             |              |                            |                   |
|           | <b>OBLIGATORII IMPUSE</b>                            |      |                          |          |          |          |                             |                             |              |                            |                   |
| IETI-0002 | Linear algebra, analytical and differential geometry | FD   | 2                        | 2        | -        | -        | 56                          | Ex                          | 4            | 44                         |                   |
| IETI-0003 | Mathematical Analysis                                | FD   | 2                        | 2        | -        | -        | 56                          | Ex                          | 4            | 44                         |                   |
| IETI-0013 | Physics  | FD   | 2                        | 2        | -        | -        | 56                          | Ex                          | 4            | 44                         |                   |
| IETI-0783 | Computer programming and programming languages I     | FD   | 2                        | -        | 2        | -        | 56                          | Vp                          | 4            | 44                         |                   |
| IETI-0990 | Mechanics  | DD   | 2                        | -        | 1        | -        | 42                          | Ex                          | 4            | 58                         |                   |
| IETI-0769 | Applied informatics                                  | FD   | 2                        | -        | 2        | -        | 56                          | Vp                          | 5            | 69                         |                   |
| IETI-1086 | Analysis and synthesis of digital devices            | DD   | 2                        | -        | 1        | -        | 42                          | Vp                          | 3            | 33                         |                   |
|           | <b>TOTAL</b>   |      | <b>14</b>                | <b>6</b> | <b>6</b> | <b>-</b> | <b>364</b>                  |                             | <b>28</b>    | <b>336</b>                 |                   |
|           | <b>OBLIGATORII OPȚIONALĂ</b>                         |      |                          |          |          |          |                             |                             |              |                            |                   |
| IETI-0548 | Modern languages I                                   | CD   | -                        | 1        | -        | -        | 14                          | Vp                          | 2            | 36                         |                   |
|           | <b>TOTAL</b>   |      | <b>-</b>                 | <b>1</b> | <b>-</b> | <b>-</b> | <b>14</b>                   |                             | <b>2</b>     | <b>36</b>                  |                   |
| IETI-0999 | Physical Education and Sport I                       | CD   | -                        | 1        | -        | -        | 14                          | A/R                         | 1            | 11                         |                   |
|           | <b>FACULTATIVE</b>                                   |      |                          |          |          |          |                             |                             |              |                            |                   |
| IETI-0518 | History of science and civilization                  | CD   | 2                        | 1        | -        | -        | 42                          | Vp                          | 3            | 33                         |                   |

| Code      | Disciplines*                                      | Type | Sem. II<br>[hours / week] |          |          |          | Total of<br>hours /<br>sem. | Type of<br>Exami-<br>nation | Cre-<br>dits | IS<br>[hours<br>/<br>sem.] | Condi-<br>tioning |
|-----------|---|------|---------------------------|----------|----------|----------|-----------------------------|-----------------------------|--------------|----------------------------|-------------------|
|           |   |      | C                         | S        | L        | P        |                             |                             |              |                            |                   |
|           | <b>OBLIGATORII IMPUSE</b>                         |      |                           |          |          |          |                             |                             |              |                            |                   |
| IETI-0009 | Special mathematics                               | FD   | 2                         | 2        | -        | -        | 56                          | Ex                          | 4            | 44                         |                   |
| IETI-1085 | Theory of probability and mathematical statistics | FD   | 2                         | 1        | -        | -        | 42                          | Vp                          | 3            | 33                         |                   |
| IETI-0785 | Computer programming and programming languages II | FD   | 2                         | -        | 2        | -        | 56                          | Ex                          | 5            | 69                         |                   |
| IETI-0262 | Electrotechnics I                                 | DD   | 2                         | 1        | 1        | -        | 56                          | Ex                          | 5            | 69                         |                   |
| IETI-0991 | Linear electronic circuits I                      | DD   | 2                         | -        | 1        | -        | 42                          | Ex                          | 4            | 58                         |                   |
| IETI-0193 | Computer aided graphics                           | FD   | 2                         | -        | 2        | -        | 56                          | Vp                          | 3            | 19                         |                   |
| IETI-0799 | Operating systems in automation                   | SD   | 2                         | -        | 1        | -        | 42                          | Vp                          | 4            | 58                         |                   |
|           | <b>TOTAL</b>                                      |      | <b>14</b>                 | <b>4</b> | <b>7</b> | <b>-</b> | <b>350</b>                  |                             | <b>28</b>    | <b>350</b>                 |                   |
|           | <b>OBLIGATORII OPȚIONALĂ</b>                      |      |                           |          |          |          |                             |                             |              |                            |                   |
| IETI-0549 | Modern Languages II                               | CD   | -                         | 1        | -        | -        | 14                          | Vp                          | 2            | 36                         |                   |
|           | <b>TOTAL</b>                                      |      | <b>-</b>                  | <b>1</b> | <b>-</b> | <b>-</b> | <b>14</b>                   |                             | <b>2</b>     | <b>36</b>                  |                   |
| IETI-1000 | Physical Education and Sport II                   | CD   | -                         | 1        | -        | -        | 14                          | A/R                         | 1            | 11                         |                   |
|           | <b>FACULTATIVE</b>                                |      |                           |          |          |          |                             |                             |              |                            |                   |
| IETI-1241 | Technological practice                            | DD   | -                         | -        | -        | -        | 90                          | Cv                          | 3            | 0                          |                   |

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**Head of department ,  
 Professor Dr. Helga SILAGHI**

**RECTOR,  
 Professor Dr. BUNGĂU Constantin**

**DEAN,  
 Associate Professor dr. GERGELY Eugen Ioan**

**UNIVERSITY OF ORADEA**  
**FACULTY OF ELECTRICAL ENGINEERING AND INFORMATION TECHNOLOGY**  
 Licence's Degree Program: **AUTOMATICS AND APPLIED INFORMATICS**  
 Fundamental Field: **ENGINEERING SCIENCES**  
 Undergraduate Field: **CONTROL SYSTEMS ENGINEERING**  
 Duration of studies / no. of credits: **4 years/240 credits**  
 Type of education: **Full-time learning (IF)**

Valid from academic year  
 2023-2024  
 Beginning with 1<sup>st</sup> year of  
 study

**CURRICULUM \*\***  
**Year of study II**

| Code      | Disciplines*                     | Type | Sem. III<br>[hours / week] |          |          |          | Total<br>of<br>hours<br>/ sem. | Type of<br>Exami-<br>nation | Cre-<br>dits | IS<br>[hours<br>/ sem.] | Condi-<br>tioning |
|-----------|----------------------------------|------|----------------------------|----------|----------|----------|--------------------------------|-----------------------------|--------------|-------------------------|-------------------|
|           |                                  |      | C                          | S        | L        | P        |                                |                             |              |                         |                   |
|           | <b>OBLIGATORII IMPUSE</b>        |      |                            |          |          |          |                                |                             |              |                         |                   |
| IETI-0132 | Object Oriented Programming      | SD   | 2                          | -        | 1        | -        | 42                             | Ex                          | 4            | 58                      |                   |
| IETI-0479 | Systems theory I                 | DD   | 2                          | 2        | -        | -        | 56                             | Ex                          | 5            | 69                      |                   |
| IETI-0993 | Measurements and transducers     | DD   | 2                          | -        | 1        | -        | 42                             | Ex                          | 3            | 33                      |                   |
| IETI-0263 | Electrotechnics II               | DD   | 2                          | 1        | 1        | -        | 56                             | Ex                          | 5            | 69                      |                   |
| IETI-0116 | Digital Electronics I            | DD   | 2                          | -        | 1        | -        | 42                             | Ex                          | 3            | 33                      |                   |
| IETI-0992 | Linear electronic circuits II    | DD   | 2                          | -        | 1        | -        | 42                             | Vp                          | 4            | 58                      |                   |
| IETI-0210 | Numerical methods                | FD   | 2                          | -        | 2        | -        | 56                             | Vp                          | 4            | 44                      |                   |
|           | <b>TOTAL</b>                     |      | <b>14</b>                  | <b>3</b> | <b>7</b> | <b>-</b> | <b>336</b>                     |                             | <b>28</b>    | <b>364</b>              |                   |
|           | <b>OBLIGATORII OPȚIONALE</b>     |      |                            |          |          |          |                                |                             |              |                         |                   |
| IETI-0550 | Modern Languages III             | CD   | -                          | 1        | -        | -        | 14                             | Vp                          | 2            | 36                      |                   |
|           | <b>TOTAL</b>                     |      | <b>-</b>                   | <b>1</b> | <b>-</b> | <b>-</b> | <b>14</b>                      |                             | <b>2</b>     | <b>36</b>               |                   |
| IETI-1003 | Physical Education and Sport III | CD   | -                          | 1        | -        | -        | 14                             | A/R                         | 1            | 11                      |                   |

| Code      | Disciplines*                        | Type | Sem. IV<br>[hours / week] |          |          |          | Total<br>of<br>hours<br>/ sem. | Type of<br>Exami-<br>nation | Cre-<br>dits | IS<br>[hours<br>/ sem.] | Condi-<br>tioning |
|-----------|-------------------------------------|------|---------------------------|----------|----------|----------|--------------------------------|-----------------------------|--------------|-------------------------|-------------------|
|           |                                     |      | C                         | S        | L        | P        |                                |                             |              |                         |                   |
|           | <b>OBLIGATORII IMPUSE</b>           |      |                           |          |          |          |                                |                             |              |                         |                   |
| IETI-0480 | Systems theory II                   | DD   | 2                         | 2        | 1        | -        | 70                             | Ex                          | 4            | 30                      |                   |
| IETI-0117 | Digital Electronics II              | DD   | 2                         | -        | 1        | -        | 42                             | Ex                          | 3            | 33                      |                   |
| IETI-1087 | Signal processing                   | SD   | 2                         | -        | 1        | -        | 42                             | Vp                          | 3            | 33                      |                   |
| IETI-1224 | Switching devices                   | SD   | 2                         | -        | 1        | -        | 42                             | Ex                          | 3            | 33                      |                   |
| IETI-0360 | Computer Architectures              | DD   | 2                         | -        | 1        | -        | 42                             | Ex                          | 3            | 33                      |                   |
| IETI-0445 | Computer aided design in automation | SD   | 2                         | -        | 1        | 1        | 56                             | Vp                          | 4            | 44                      |                   |
| IETI-0318 | Power electronics                   | SD   | 2                         | -        | 1        | -        | 42                             | Ex                          | 3            | 33                      |                   |
| IETI-1017 | Domain practice                     | DD   | -                         | -        | -        | -        | 90                             | Cv                          | 4            | 10                      |                   |
|           | <b>TOTAL</b>                        |      | <b>14</b>                 | <b>2</b> | <b>7</b> | <b>1</b> | <b>426</b>                     |                             | <b>27</b>    | <b>249</b>              |                   |
|           | <b>OBLIGATORII OPȚIONALE</b>        |      |                           |          |          |          |                                |                             |              |                         |                   |
|           | PACHET 1                            |      |                           |          |          |          |                                |                             |              |                         |                   |
| IETI-0551 | Modern Languages IV                 | CD   | -                         | 1        | -        | -        | 14                             | Vp                          | 2            | 36                      |                   |
|           | PACHET 2                            |      |                           |          |          |          |                                |                             |              |                         |                   |
| IETI-1108 | Academic Ethics and Integrity       | CD   | 1                         | -        | -        | -        | 14                             | Vp                          | 1            | 11                      |                   |
| IETI-0487 | Communication                       | CD   | 1                         | -        | -        | -        | 14                             | Vp                          | 1            | 11                      |                   |

|           | <b>TOTAL</b>                    |    | <b>1</b> | <b>1</b> | <b>-</b> | <b>-</b> | <b>28</b> |     | <b>3</b> | <b>47</b> |  |
|-----------|---------------------------------|----|----------|----------|----------|----------|-----------|-----|----------|-----------|--|
| IETI-1006 | Physical Education and Sport IV | CD | -        | 1        | -        | -        | 14        | A/R | 1        | 11        |  |
|           | <b>FACULTATIVE</b>              |    |          |          |          |          |           |     |          |           |  |
| IETI-0573 | Sociology                       | CD | 2        | 1        | -        | -        | 42        | Vp  | 3        | 33        |  |

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 study

**CURRICULUM \*\***  
**Year of study III**

| Code      | Disciplines*                             | Type | Sem. V<br>[hours / week] |          |          |          | Total<br>of<br>hours<br>/ sem. | Type of<br>Exami-<br>nation | Cre-<br>dits | IS<br>[hours<br>/ sem.] | Condi-<br>tioning |
|-----------|--|------|--------------------------|----------|----------|----------|--------------------------------|-----------------------------|--------------|-------------------------|-------------------|
|           |  |      | C                        | S        | L        | P        |                                |                             |              |                         |                   |
|           | <b>OBLIGATORII IMPUSE</b>                |      |                          |          |          |          |                                |                             |              |                         |                   |
| IETI-0148 | Microprocessor's systems I               | DD   | 2                        | -        | 1        | -        | 42                             | Ex                          | 4            | 58                      |                   |
| IETI-0994 | Modelling, identification and simulation | DD   | 2                        | -        | 2        | -        | 56                             | Vp                          | 5            | 69                      |                   |
| IETI-0104 | Data bases                               | DD   | 2                        | -        | 1        | -        | 42                             | Ex                          | 3            | 33                      |                   |
| IETI-0996 | Electrical machines and drives I         | DD   | 2                        | -        | 2        | -        | 56                             | Ex                          | 5            | 69                      |                   |
| IETI-0424 | Experimentally systems identification    | SD   | 2                        | -        | 2        | -        | 56                             | Ex                          | 5            | 69                      |                   |
|           | <b>TOTAL</b>                             |      | <b>10</b>                | <b>-</b> | <b>8</b> | <b>-</b> | <b>252</b>                     |                             | <b>22</b>    | <b>298</b>              |                   |
|           | <b>OBLIGATORII OPŢIONALE</b>             |      |                          |          |          |          |                                |                             |              |                         |                   |
|           | PACHET 1                                 |      |                          |          |          |          |                                |                             |              |                         |                   |
| IETI-1040 | Hydropneumatic equipments                | SD   | 2                        | -        | 2        | -        | 56                             | Vp                          | 4            | 44                      |                   |
| IETI-0131 | Real time programming                    | SD   | 2                        | -        | 2        | -        | 56                             | Vp                          | 4            | 44                      |                   |
|           | PACHET 2                                 |      |                          |          |          |          |                                |                             |              |                         |                   |
| IETI-0478 | Web technologies                         | DD   | 2                        | -        | 2        | -        | 56                             | Vp                          | 4            | 44                      |                   |
| IETI-0449 | Computer networks                        | DD   | 2                        | -        | 2        | -        | 56                             | Vp                          | 4            | 44                      |                   |
|           | <b>TOTAL</b>                             |      | <b>4</b>                 | <b>-</b> | <b>4</b> | <b>-</b> | <b>112</b>                     |                             | <b>8</b>     | <b>88</b>               |                   |
|           | <b>FACULTATIVE</b>                       |      |                          |          |          |          |                                |                             |              |                         |                   |
| IETI-0804 | Foreign language V                       | CD   | -                        | 2        | -        | -        | 28                             | Vp                          | 2            | 22                      |                   |

  

| Code      | Disciplines*                | Type | Sem. VI<br>[hours / week] |   |   |   | Total<br>of<br>hours<br>/ sem. | Type of<br>Exami-<br>nation | Cre-<br>dits | IS<br>[hours<br>/ sem.] | Condi-<br>tioning |
|-----------|-----------------------------|------|---------------------------|---|---|---|--------------------------------|-----------------------------|--------------|-------------------------|-------------------|
|           |                             |      | C                         | S | L | P |                                |                             |              |                         |                   |
|           | <b>OBLIGATORII IMPUSE</b>   |      |                           |   |   |   |                                |                             |              |                         |                   |
| IETI-0149 | Microprocessor's systems II | DD   | 2                         | - | 1 | - | 42                             | Vp                          | 4            | 58                      |                   |

|           |   |    |          |          |          |          |            |    |           |            |  |
|-----------|---|----|----------|----------|----------|----------|------------|----|-----------|------------|--|
| IETI-0430 | Control systems engineering I                       | DD | 2        | -        | 1        | -        | 42         | Ex | 3         | 33         |  |
| IETI-0440 | Microcontrollers in automatics                      | SD | 2        | -        | 2        | -        | 56         | Ex | 4         | 44         |  |
| IETI-0997 | Electrical machines and drives II                   | DD | 2        | -        | 2        | 1        | 70         | Ex | 5         | 55         |  |
| IETI-1038 | Specialty practice                                  | SD | -        | -        | -        | -        | 90         | Cv | 4         | 10         |  |
|           | <b>TOTAL</b>  |    | <b>8</b> | <b>-</b> | <b>6</b> | <b>1</b> | <b>300</b> |    | <b>20</b> | <b>200</b> |  |
|           | <b>OBLIGATORII OPȚIONALE</b>                        |    |          |          |          |          |            |    |           |            |  |
|           | PACHET 1  |    |          |          |          |          |            |    |           |            |  |
| IETI-1039 | Programmable logic controllers and microprogramming | DD | 2        | -        | 2        | 1        | 70         | Ex | 4         | 30         |  |
| IETI-0123 | Software engineering                                | DD | 2        | -        | 2        | 1        | 70         | Ex | 4         | 30         |  |
|           | PACHET 2  |    |          |          |          |          |            |    |           |            |  |
| IETI-0802 | Automatic systems                                   | DD | 2        | -        | 1        | -        | 42         | Vp | 3         | 33         |  |
| IETI-1088 | Dynamic systems with discrete events                | DD | 2        | -        | 1        | -        | 42         | Vp | 3         | 33         |  |
|           | PACHET 3  |    |          |          |          |          |            |    |           |            |  |
| IETI-0504 | General Economics                                   | CD | 2        | 1        | -        | -        | 42         | Vp | 3         | 33         |  |
| IETI-0497 | Business law  | CD | 2        | 1        | -        | -        | 42         | Vp | 3         | 33         |  |
|           | <b>TOTAL</b>  |    | <b>6</b> | <b>1</b> | <b>3</b> | <b>1</b> | <b>154</b> |    | <b>10</b> | <b>96</b>  |  |
|           | <b>FACULTATIVE</b>                                  |    |          |          |          |          |            |    |           |            |  |
| IETI-0638 | Work science and human resources                    | CD | 2        | 2        | -        | -        | 56         | Vp | 3         | 19         |  |
| IETI-0805 | Foreign language VI                                 | CD | -        | 2        | -        | -        | 28         | Vp | 2         | 22         |  |

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CURRICULUM \*\*  
 Year of study IV

| Code      | Disciplines*                                      | Type | Sem. VII<br>[hours / week] |   |   |   | Total of<br>hours /<br>sem. | Type of<br>Exami-<br>nation | Cre-<br>dits | IS<br>[hours /<br>sem.] | Condi-<br>tioning |
|-----------|---|------|----------------------------|---|---|---|-----------------------------|-----------------------------|--------------|-------------------------|-------------------|
|           |   |      | C                          | S | L | P |                             |                             |              |                         |                   |
|           | OBLIGATORII IMPUSE                                |      |                            |   |   |   |                             |                             |              |                         |                   |
| IETI-0454 | Adaptive and optimal systems                      | SD   | 2                          | - | 2 | - | 56                          | Vp                          | 4            | 44                      |                   |
| IETI-0431 | Control systems engineering II                    | DD   | 2                          | - | 2 | 1 | 70                          | Ex                          | 6            | 80                      |                   |
| IETI-0453 | Robotics  | DD   | 2                          | - | 2 | - | 56                          | Ex                          | 5            | 69                      |                   |
| IETI-0423 | Automatic systems reliability                     | SD   | 2                          | - | - | 1 | 42                          | Ex                          | 4            | 58                      |                   |
| IETI-0552 | Management  | CD   | 2                          | - | 1 | - | 42                          | Vp                          | 3            | 33                      |                   |
|           | TOTAL   |      | 10                         | - | 7 | 2 | 266                         |                             | 22           | 284                     |                   |
|           | OBLIGATORII OP "IONALE                            |      |                            |   |   |   |                             |                             |              |                         |                   |
|           | PACHET 1  |      |                            |   |   |   |                             |                             |              |                         |                   |
| IETI-0434 | Process interfaces                                | SD   | 2                          | - | 1 | - | 42                          | Vp                          | 3            | 33                      |                   |
| IETI-0267 | Virtual instrumentation                           | SD   | 2                          | - | 1 | - | 42                          | Vp                          | 3            | 33                      |                   |
|           | PACHET 2  |      |                            |   |   |   |                             |                             |              |                         |                   |
| IETI-0418 | Energy quality in electrical drives systems       | SD   | 2                          | - | 1 | 1 | 56                          | Ex                          | 5            | 69                      |                   |
| IETI-0462 | Command and control systems for electrical drives | SD   | 2                          | - | 1 | 1 | 56                          | Ex                          | 5            | 69                      |                   |
|           | TOTAL   |      | 4                          | - | 2 | 1 | 98                          |                             | 8            | 102                     |                   |
|           | FACULTATIVE                                       |      |                            |   |   |   |                             |                             |              |                         |                   |
| IETI-1204 | Life skills in Control Systems Engineering        | CD   | 1                          | 1 | - | - | 28                          | Vp                          | 2            | 22                      |                   |
| IETI-0439 | Scientific research methodology                   | SD   | 2                          | - | - | 1 | 42                          | Vp                          | 3            | 33                      |                   |

| Code      | Disciplines*                             | Type | Sem. VIII<br>[hours / week] |   |   |   | Total of<br>hours /<br>sem. | Type of<br>Exami-<br>nation | Cre-<br>dits | IS<br>[hours /<br>sem.] | Condi-<br>tioning |
|-----------|--|------|-----------------------------|---|---|---|-----------------------------|-----------------------------|--------------|-------------------------|-------------------|
|           |  |      | C                           | S | L | P |                             |                             |              |                         |                   |
|           | OBLIGATORII IMPUSE                       |      |                             |   |   |   |                             |                             |              |                         |                   |
| IETI-0419 | Industrial robots control                | SD   | 2                           | - | 1 | 1 | 56                          | Vp                          | 4            | 44                      |                   |
| IETI-0426 | Control systems informatics              | SD   | 3                           | - | 1 | 1 | 70                          | Ex                          | 5            | 55                      |                   |
| IETI-0806 | Practice for diploma project development | SD   | -                           | - | - | - | 60                          | Vp                          | 6            | 90                      |                   |
| IETI-1045 | Diploma project elaboration              | SD   | -                           | - | - | 4 | 56                          | Vp                          | 4            | 44                      |                   |
|           | TOTAL                                    |      | 5                           | - | 2 | 6 | 242                         |                             | 19           | 233                     |                   |
|           | OBLIGATORII OP "IONALE                   |      |                             |   |   |   |                             |                             |              |                         |                   |
|           | PACHET 1                                 |      |                             |   |   |   |                             |                             |              |                         |                   |
| IETI-0473 | Industrial informatic systems            | SD   | 2                           | - | 2 | - | 56                          | Vp                          | 4            | 44                      |                   |
| IETI-0425 | Biomedical informatics                   | SD   | 2                           | - | 2 | - | 56                          | Vp                          | 4            | 44                      |                   |
|           | PACHET 2                                 |      |                             |   |   |   |                             |                             |              |                         |                   |
| IETI-0433 | Artificial Intelligence                  | SD   | 3                           | - | 1 | - | 56                          | Ex                          | 3            | 19                      |                   |
| IETI-0471 | Fuzzy systems and neuronal networks      | SD   | 3                           | - | 1 | - | 56                          | Ex                          | 3            | 19                      |                   |
|           | PACHET 3                                 |      |                             |   |   |   |                             |                             |              |                         |                   |
| IETI-0467 | Advanced control systems                 | SD   | 3                           | - | 2 | - | 70                          | Ex                          | 4            | 30                      |                   |
| IETI-0463 | Distributed control systems              | SD   | 3                           | - | 2 | - | 70                          | Ex                          | 4            | 30                      |                   |
|           | TOTAL                                    |      | 8                           | - | 5 | - | 182                         |                             | 11           | 93                      |                   |
|           | FACULTATIVE                              |      |                             |   |   |   |                             |                             |              |                         |                   |
| IETI-0432 | Production systems engineering           | SD   | 2                           | 2 | - | - | 56                          | Vp                          | 3            | 19                      |                   |
| IETI-0435 | Inventions                               | SD   | 2                           | 2 | - | - | 56                          | Vp                          | 3            | 19                      |                   |

Legend: C - Course; S - Seminar; L - Practical (laboratory); P - Project; IS - Individual Study;  
 GD - General Discipline; FD - Fundamental Discipline; SD - Specialized Discipline; CD - Complementary Discipline; FD - Field Discipline; DP - Practical Activities; UO - University Choice; DR - Disciplines relevant to the students' training in a certain field, available according to the options of the institution.  
 Type of Examination - Verification Form, Ex. - examination; Cv. - Colloquium, Vp. - Continuous Assessment, Pr - Project; A/R- Passed/Failed; Credits - number of ECTS credits; IS - Individual study.

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