

**FACULTY OF** Faculty of Automation and Computer Science  
**Domain** Computer Science and Information Technology  
**Program Name** Artificial Intelligence and Vision (in English language)  
**Study Level** Master Research

**CURRICULA** Valid for the Academic Year **2026-2027**

Pag. 1

| COURSE CODE AND TITLE |                                          | Year: I        |               |   |      |    |                |   |   |      |    | Method of Assessment |   |   | Nr. Of Hours/Discipline           |      |     |     | ECTS/Sem |      | Discipline |     |  |
|-----------------------|------------------------------------------|----------------|---------------|---|------|----|----------------|---|---|------|----|----------------------|---|---|-----------------------------------|------|-----|-----|----------|------|------------|-----|--|
|                       |                                          | SEM 1 14 weeks |               |   |      |    | SEM 2 14 weeks |   |   |      |    | E C V                |   |   | Total C Apl <sup>Indiv.</sup> St. |      |     |     | 1 2      |      | cat type   |     |  |
|                       |                                          | C S L P Pr/Ce  | C S L P Pr/Ce |   |      |    |                |   |   |      |    |                      |   |   |                                   |      |     |     |          |      |            |     |  |
| 1.00                  | Intelligent Agent Systems                | 2              | 1             | 0 | 0    | 0  |                |   |   |      |    | Gr                   |   |   | 100                               | 28   | 14  | 58  | 4.0      |      | DS         | DOB |  |
| 2.00                  | Computer Networks                        | 2              | 1             | 0 | 0    | 0  |                |   |   |      |    | Gr                   |   |   | 100                               | 28   | 14  | 58  | 4.0      |      | DF         | DOB |  |
| 3.00                  | Distributed Systems                      | 2              | 1             | 0 | 0    | 0  |                |   |   |      |    | Gr                   |   |   | 100                               | 28   | 14  | 58  | 4.0      |      | DF         | DOB |  |
| 4.00                  | Deep Learning Based Computer Vision      | 2              | 1             | 0 | 0    | 0  |                |   |   |      |    | Gr                   |   |   | 100                               | 28   | 14  | 58  | 4.0      |      | DS         | DOB |  |
| 5.00                  | Introduction in Quantum Machine Learning | 1              | 1             | 0 | 0    | 0  |                |   |   |      |    | Gr                   |   |   | 100                               | 14   | 14  | 72  | 4.0      |      | DS         | DOB |  |
| 6.00                  | Research Activity 1                      | 0              | 0             | 0 | 0    | 14 |                |   |   |      |    | A/R                  |   |   | 250                               | 0    | 196 | 54  | 10.0     |      | DS         | DOB |  |
| 7.10                  | Statistics and Probabilities             |                |               |   |      |    | 2              | 1 | 0 | 0    | 0  | Gr                   |   |   | 100                               | 28   | 14  | 58  | 4.0      |      | DS         | DOP |  |
| 7.20                  | Languages and Type Systems               |                |               |   |      |    | 2              | 1 | 0 | 0    | 0  | Gr                   |   |   | 100                               | 28   | 14  | 58  | 4.0      |      | DS         | DOP |  |
| 7.30                  | Algorithms and Computability             |                |               |   |      |    | 2              | 1 | 0 | 0    | 0  | Gr                   |   |   | 100                               | 28   | 14  | 58  | 4.0      |      | DS         | DOP |  |
| 8.10                  | Interactive Systems                      |                |               |   |      |    | 2              | 1 | 0 | 0    | 0  | Gr                   |   |   | 100                               | 28   | 14  | 58  | 4.0      |      | DF         | DOP |  |
| 8.20                  | Industrial Informatics                   |                |               |   |      |    | 2              | 1 | 0 | 0    | 0  | Gr                   |   |   | 100                               | 28   | 14  | 58  | 4.0      |      | DF         | DOP |  |
| 9.00                  | Semantic Web and Agents                  |                |               |   |      |    | 2              | 0 | 1 | 0    | 0  | Gr                   |   |   | 100                               | 28   | 14  | 58  | 4.0      |      | DS         | DOB |  |
| 10.00                 | Computer Vision for Mobile Systems       |                |               |   |      |    | 2              | 0 | 1 | 0    | 0  | Gr                   |   |   | 100                               | 28   | 14  | 58  | 4.0      |      | DS         | DOB |  |
| 11.00                 | Generative Artificial Intelligence       |                |               |   |      |    | 1              | 1 | 0 | 0    | 0  | Gr                   |   |   | 100                               | 14   | 14  | 72  | 4.0      |      | DS         | DOB |  |
| 12.00                 | Research Activity 2                      |                |               |   |      |    | 0              | 0 | 0 | 0    | 14 | A/R                  |   |   | 250                               | 0    | 196 | 54  | 10.0     |      | DS         | DOB |  |
| TOTAL PER YEAR        |                                          | 9              | 5             | 0 | 0    | 14 | 9              | 3 | 2 | 0    | 14 | sem1                 | 4 | 1 | 1                                 | 1500 | 252 | 532 | 716      | 30.0 | 30.0       |     |  |
|                       |                                          |                |               |   | 14.0 |    |                |   |   | 14.0 |    | sem2                 | 4 | 1 | 1                                 |      |     |     |          |      |            |     |  |

|            |                                                  |   |   |   |   |   |     |   |   |     |     |    |    |    |     |      |    |     |    |     |    |    |     |      |      |  |
|------------|--------------------------------------------------|---|---|---|---|---|-----|---|---|-----|-----|----|----|----|-----|------|----|-----|----|-----|----|----|-----|------|------|--|
| 100.00     | Mathematical models for machine learning         | 2 | 1 | 0 | 0 | 0 |     |   |   | Gr  | 75  | 28 | 14 | 33 | 3.0 |      | DF | DFA |    |     |    |    |     |      |      |  |
| 201.00     | Psychopedagogy of Adolescents, Youngs and Adults | 2 | 1 | 0 | 0 | 0 |     |   |   | Gr  | 125 | 28 | 14 | 83 | 5.0 |      | DC | DFA |    |     |    |    |     |      |      |  |
| 301.00     | Volunteering 1                                   | 0 | 1 | 0 | 0 | 0 |     |   |   | A/R | 50  | 0  | 14 | 36 | 2.0 |      | DC | DFA |    |     |    |    |     |      |      |  |
| 202.00     | Design and Management of Educational Programs    |   |   |   |   |   | 2   | 1 | 0 | 0   | 0   |    |    |    | Gr  | 125  | 28 | 14  | 83 | 5.0 |    | DC | DFA |      |      |  |
| 203.10     | Educational Communication                        |   |   |   |   |   | 1   | 2 | 0 | 0   | 0   |    |    |    | Gr  | 125  | 14 | 28  | 83 | 5.0 |    | DC | DFA |      |      |  |
| 203.20     | Educational Research Methodology                 |   |   |   |   |   | 1   | 2 | 0 | 0   | 0   |    |    |    | Gr  | 125  | 14 | 28  | 83 | 5.0 |    | DC | DFA |      |      |  |
| 203.30     | Modern Trends in Assesement Theory and Practice  |   |   |   |   |   | 1   | 2 | 0 | 0   | 0   |    |    |    | Gr  | 125  | 14 | 28  | 83 | 5.0 |    | DC | DFA |      |      |  |
| 302.00     | Volunteering 2                                   |   |   |   |   |   | 0   | 1 | 0 | 0   | 0   |    |    |    | A/R | 50   | 0  | 14  | 36 | 2.0 |    | DC | DFA |      |      |  |
| TOTAL YEAR |                                                  | 4 | 3 | 0 | 0 | 0 | 7.0 |   |   | 0   | 3   | 4  | 0  | 0  | 0   | sem1 | 2  | 0   | 1  | 550 | 98 | 98 | 354 | 10.0 | 12.0 |  |
|            |                                                  |   |   |   |   |   |     |   |   |     |     |    |    |    |     | sem2 | 2  | 0   | 1  |     |    |    |     |      |      |  |

**Rector,**  
**Prof. dr. ing. Vasile Topa**

**Dean,**  
**Prof. dr. ing. Vlad Muresan**

**Department Director,**  
**Prof. dr. ing. Rodica Potolea**

**FACULTY OF** Faculty of Automation and Computer Science  
**Domain** Computer Science and Information Technology  
**Program Name** Artificial Intelligence and Vision (in English language)  
**Study Level** Master Research

**CURRICULA** Valid for the Academic Year **2026-2027**

Pag. 2

| COURSE CODE AND TITLE |                                               | Year: II       |   |   |      |       |                |   |   |      |       | Method of Assessment |     |   | Nr. Of Hours/Discipline |      |     |     | ECTS/Sem |      | Discipline |     |  |
|-----------------------|-----------------------------------------------|----------------|---|---|------|-------|----------------|---|---|------|-------|----------------------|-----|---|-------------------------|------|-----|-----|----------|------|------------|-----|--|
|                       |                                               | SEM 1 14 weeks |   |   |      |       | SEM 2 14 weeks |   |   |      |       | E C V                |     |   | Total C Apl Indiv. St.  |      |     |     | 1 2      |      | cat type   |     |  |
|                       |                                               | C              | S | L | P    | Pr/Ce | C              | S | L | P    | Pr/Ce |                      |     |   |                         |      |     |     |          |      |            |     |  |
| 13.00                 | Human-Computer Interfaces                     | 2              | 0 | 1 | 0    | 0     |                |   |   |      |       | Gr                   |     |   | 100                     | 28   | 14  | 58  | 4.0      |      | DS         | DOB |  |
| 14.00                 | Programming Engineering                       | 2              | 0 | 1 | 0    | 0     |                |   |   |      |       | Gr                   |     |   | 100                     | 28   | 14  | 58  | 4.0      |      | DA         | DOB |  |
| 15.00                 | Natural Language Processing                   | 2              | 0 | 1 | 0    | 0     |                |   |   |      |       | Gr                   |     |   | 100                     | 28   | 14  | 58  | 4.0      |      | DS         | DOB |  |
| 16.00                 | Virtual Reality                               | 2              | 0 | 1 | 0    | 0     |                |   |   |      |       | Gr                   |     |   | 100                     | 28   | 14  | 58  | 4.0      |      | DS         | DOB |  |
| 17.00                 | Ethics and Academic Integrity                 | 0              | 1 | 0 | 0    | 0     |                |   |   |      |       | Gr                   |     |   | 25                      | 0    | 14  | 11  | 1.0      |      | DC         | DOB |  |
| 18.00                 | Agentic Artificial Intelligence               | 1              | 1 | 0 | 0    | 0     |                |   |   |      |       | Gr                   |     |   | 100                     | 14   | 14  | 72  | 4.0      |      | DS         | DOB |  |
| 19.00                 | Research Activity 3                           | 0              | 0 | 0 | 0    | 14    |                |   |   |      |       |                      | A/R |   | 225                     | 0    | 196 | 29  | 9.0      |      | DS         | DOB |  |
| 20.00                 | Research Practice                             |                |   |   |      |       | 0              | 0 | 0 | 0    | 14    |                      | A/R |   | 250                     | 0    | 196 | 54  | 10.0     |      | DS         | DOB |  |
| 21.00                 | Field Specific Research for the Master Thesis |                |   |   |      |       | 0              | 0 | 0 | 0    | 7     |                      | A/R |   | 250                     | 0    | 98  | 152 | 10.0     |      | DS         | DOB |  |
| 22.00                 | Dissertation Project Work                     |                |   |   |      |       | 0              | 0 | 0 | 7    | 0     |                      | A/R |   | 250                     | 0    | 98  | 152 | 10.0     |      | DS         | DOB |  |
| 23.00                 | Dissertation Defense                          |                |   |   |      |       | 0              | 0 | 0 | 0    | 0     | Gr                   |     |   | 0                       | 0    | 0   | 0   | 10.0     |      | DS         | DOB |  |
| TOTAL PER YEAR        |                                               | 9              | 2 | 4 | 0    | 14    | 0              | 0 | 0 | 7    | 14    | sem1                 | 4   | 2 | 1                       | 1500 | 126 | 672 | 702      | 30.0 | 30.0       |     |  |
|                       |                                               |                |   |   | 15.0 |       |                |   |   | 14.0 |       | sem2                 | 0   | 0 | 3                       |      |     |     |          | + 10 |            |     |  |

|            |                                                                                                               |   |   |   |     |   |   |   |   |     |     |    |      |    |     |     |     |     |     |     |      |     |     |  |
|------------|---------------------------------------------------------------------------------------------------------------|---|---|---|-----|---|---|---|---|-----|-----|----|------|----|-----|-----|-----|-----|-----|-----|------|-----|-----|--|
| 204.00     | Didactics of the Field and Developments in Didactics Specialties (High School and Post High School Education) | 2 | 1 | 0 | 0   | 0 |   |   |   | Gr  | 125 | 28 | 14   | 83 | 5.0 |     | DC  | DFA |     |     |      |     |     |  |
| 205.10     | School Organization Management                                                                                | 1 | 2 | 0 | 0   | 0 |   |   |   | Gr  | 125 | 14 | 28   | 83 | 5.0 |     | DC  | DFA |     |     |      |     |     |  |
| 205.20     | Metacognitive Education                                                                                       | 1 | 2 | 0 | 0   | 0 |   |   |   | Gr  | 125 | 14 | 28   | 83 | 5.0 |     | DC  | DFA |     |     |      |     |     |  |
| 205.30     | Intercultural Education                                                                                       | 1 | 2 | 0 | 0   | 0 |   |   |   | Gr  | 125 | 14 | 28   | 83 | 5.0 |     | DC  | DFA |     |     |      |     |     |  |
| 303.00     | Volunteering 3                                                                                                | 0 | 1 | 0 | 0   | 0 |   |   |   | A/R | 50  | 0  | 14   | 36 | 2.0 |     | DC  | DFA |     |     |      |     |     |  |
| 206.00     | Teaching Practice (in Secondary School and Tertiary Education)                                                |   |   |   |     |   | 0 | 0 | 0 | 0   | 3   |    |      |    | Gr  | 125 | 0   | 42  | 83  | 5.0 |      | DC  | DFA |  |
| 207.00     | Graduation Exam - Level II                                                                                    |   |   |   |     |   | 0 | 0 | 0 | 0   | 0   |    |      |    | Gr  | 125 | 0   | 0   | 125 | 5.0 |      | DC  | DFA |  |
| 304.00     | Volunteering 4                                                                                                |   |   |   |     |   | 0 | 1 | 0 | 0   | 0   |    |      |    | A/R | 50  | 0   | 14  | 36  | 2.0 |      | DC  | DFA |  |
| TOTAL YEAR |                                                                                                               | 3 | 4 | 0 | 0   | 0 |   | 0 | 1 | 0   | 0   | 3  | sem1 | 2  | 0   | 1   | 600 | 42  | 112 | 446 | 12.0 | 7.0 |     |  |
|            |                                                                                                               |   |   |   | 7.0 |   |   |   |   |     | 1.0 |    | sem2 | 0  | 1   | 1   |     |     |     |     | + 5  |     |     |  |

Rector,  
Prof. dr. ing. Vasile Topa

Dean,  
Prof. dr. ing. Vlad Muresan

Department Director,  
Prof. dr. ing. Rodica Potolea