

FACULTATE FACULTATEA DE INGINERIE INDUSTRIALA, ROBOTICA SI MANAGEMENTUL PRODUCTIEI

DOMENIU MECATRONICA SI ROBOTICA

SPECIALIZARE ROBOTICA (LIMBA ENGLEZA)

Nivel de studii MASTER (PROFESIONAL)

Listat la : 25/03/2025

Anul nr. 12  
 Edinta nr. 172  
 Data 29.05.2025 Pag. 1...

PLAN DE INVATAMANT PENTRU PROMOTIA CARE INCEPE CU ANUL UNIVERSITAR 2025-2026

| CODUL SI DENUMIREA DISCIPLINEI                                                               | Anul : I      |   |   |   |       |               |   |   |   |       | Forma de verificare |   |   | Nr.ore/disciplina |     |     |         | Credite/sem |      | Disciplina |     |
|----------------------------------------------------------------------------------------------|---------------|---|---|---|-------|---------------|---|---|---|-------|---------------------|---|---|-------------------|-----|-----|---------|-------------|------|------------|-----|
|                                                                                              | SEM 1 14 sept |   |   |   |       | SEM 2 14 sept |   |   |   |       | E                   | C | V | Total             | C   | Apl | St. ind | 1           | 2    | cat        | tip |
|                                                                                              | C             | S | L | P | Pr/Ce | C             | S | L | P | Pr/Ce |                     |   |   |                   |     |     |         |             |      |            |     |
| 1.00 Limbaje de programare a robotilor industriali                                           | 2             | 0 | 2 | 0 | 0     |               |   |   |   |       | Nota                |   |   | 125               | 28  | 28  | 69      | 5.0         |      | DA         | DI  |
| 2.00 Aplicatii avansate cu controlere logic programabile                                     | 2             | 0 | 2 | 0 | 0     |               |   |   |   |       | Nota                |   |   | 125               | 28  | 28  | 69      | 5.0         |      | DA         | DI  |
| 3.00 Planificarea traiectoriilor de miscare a robotilor industriali                          | 1             | 0 | 0 | 2 | 0     |               |   |   |   |       | Nota                |   |   | 125               | 14  | 28  | 83      | 5.0         |      | DS         | DI  |
| 4.10 Baze de date relationale si interfețe Web in robotica                                   | 1             | 0 | 2 | 0 | 0     |               |   |   |   |       | Nota                |   |   | 125               | 14  | 28  | 83      | 5.0         |      | DA         | DO  |
| 4.20 Protocoale de comunicatii industriale                                                   | 1             | 0 | 2 | 0 | 0     |               |   |   |   |       | Nota                |   |   | 125               | 14  | 28  | 83      | 5.0         |      | DA         | DO  |
| 5.00 Practica profesionala I                                                                 | 0             | 0 | 0 | 0 | 14    |               |   |   |   |       | Nota                |   |   | 250               | 0   | 196 | 54      | 10.0        |      | DS         | DI  |
| 3.00 Robotizarea fabricatiei asistata de calculator                                          |               |   |   |   |       | 1             | 0 | 1 | 0 | 0     | Nota                |   |   | 75                | 14  | 14  | 47      |             | 3.0  | DA         | DI  |
| 7.00 Fabricatia asistata de calculator in sisteme robotizate                                 |               |   |   |   |       | 1             | 0 | 1 | 0 | 0     | Nota                |   |   | 75                | 14  | 14  | 47      |             | 3.0  | DS         | DI  |
| 3.00 Monitorizarea si controlul proceselor de fabricatie robotizate                          |               |   |   |   |       | 1             | 0 | 1 | 0 | 0     | Nota                |   |   | 75                | 14  | 14  | 47      |             | 3.0  | DS         | DI  |
| 3.00 Proiectarea si comanda dronelor                                                         |               |   |   |   |       | 1             | 0 | 0 | 1 | 0     | Nota                |   |   | 75                | 14  | 14  | 47      |             | 3.0  | DS         | DI  |
| 0.00 Aplicatii robotice                                                                      |               |   |   |   |       | 2             | 0 | 1 | 0 | 0     | Nota                |   |   | 100               | 28  | 14  | 58      |             | 4.0  | DA         | DI  |
| 1.10 Fiabilitatea, mentenanta si siguranta in exploatare a sistemelor robotizate industriale |               |   |   |   |       | 2             | 0 | 1 | 0 | 0     | Nota                |   |   | 100               | 28  | 14  | 58      |             | 4.0  | DS         | DO  |
| 1.20 Robotica sociala                                                                        |               |   |   |   |       | 2             | 0 | 1 | 0 | 0     | Nota                |   |   | 100               | 28  | 14  | 58      |             | 4.0  | DS         | DO  |
| 2.00 Practica profesionala II                                                                |               |   |   |   |       | 0             | 0 | 0 | 0 | 14    | Nota                |   |   | 250               | 0   | 196 | 54      |             | 10.0 | DS         | DI  |
| TOTAL AN                                                                                     | 6             | 0 | 6 | 2 | 14    | 8             | 0 | 5 | 1 | 14    | sem1                | 3 | 1 | 1500              | 196 | 588 | 716     | 30.0        | 30.0 |            |     |
|                                                                                              |               |   |   |   |       |               |   |   |   |       | sem2                | 4 | 2 | 1                 |     |     |         |             |      |            |     |

|                                                               |   |   |   |   |   |   |   |   |   |   |      |  |     |     |    |    |    |     |     |    |      |
|---------------------------------------------------------------|---|---|---|---|---|---|---|---|---|---|------|--|-----|-----|----|----|----|-----|-----|----|------|
| 01.00 Psihopedagogia adolescentilor, tinerilor si adultilor   | 2 | 1 | 0 | 0 | 0 |   |   |   |   |   | Nota |  |     | 125 | 28 | 14 | 83 | 5.0 |     | DC | DFac |
| 01.00 Voluntariat 1                                           | 0 | 1 | 0 | 0 | 0 |   |   |   |   |   |      |  | A/R | 50  | 0  | 14 | 36 | 2.0 |     | DC | DFac |
| 02.00 Proiectarea si managementul programelor educationale    |   |   |   |   |   | 2 | 1 | 0 | 0 | 0 | Nota |  |     | 125 | 28 | 14 | 83 |     | 5.0 | DC | DFac |
| 03.10 Comunicare educationala                                 |   |   |   |   |   | 1 | 2 | 0 | 0 | 0 | Nota |  |     | 125 | 14 | 28 | 83 |     | 5.0 | DC | DFac |
| 03.20 Metodologia cercetarii educationale                     |   |   |   |   |   | 1 | 2 | 0 | 0 | 0 | Nota |  |     | 125 | 14 | 28 | 83 |     | 5.0 | DC | DFac |
| 03.30 Organizarea si conducerea teoriei si practici evaluarii |   |   |   |   |   | 1 | 2 | 0 | 0 | 0 | Nota |  |     | 125 | 14 | 28 | 83 |     | 5.0 | DC | DFac |
| 02.00 Voluntariat 2                                           |   |   |   |   |   | 0 | 1 | 0 | 0 | 0 |      |  | A/R | 50  | 0  | 14 | 36 |     | 2.0 | DC | DFac |

Originalul se afla la PROCTORATUL DIDACTIC

Data 10.04.2025 VABO

Decan,

Prof. dr. ing. dr. ec. Stelian Brad

Director departament,

Prof. dr. ing. Calin Ghe. Dan Neamtu

Responsabil specializare,

Prof. dr. ing. Stelian Brad

Prof. dr. ing. Vasile Popa

FACULTATE    FACULTATEA DE INGINERIE INDUSTRIALA, ROBOTICA SI MANAGEMENTUL PRODUCTIEI  
DOMENIU        MECATRONICA SI ROBOTICA  
SPECIALIZARE    ROBOTICA (LIMBA ENGLEZA)  
Nivel de studii    MASTER (PROFESIONAL)

Listat la : 25/03/2025

PLAN DE INVATAMANT PENTRU PROMOTIA CARE INCEPE CU ANUL UNIVERSITAR 2025-2026

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|----------|---|---|---|------|---|---|---|---|------|---|------|---|---|---|-----|----|----|-----|-----|------|--|
| TOTAL AN | 2 | 2 | 0 | 0    | 0 | 3 | 4 | 0 | 0    | 0 | sem1 | 1 | 0 | 1 | 475 | 70 | 84 | 321 | 7.0 | 12.0 |  |
|          |   |   |   | 4.00 |   |   |   |   | 7.00 |   | sem2 | 2 | 0 | 1 |     |    |    |     |     |      |  |

**EXEMPLAR UNIC**  
Originalul se afla la PRORECTORATUL DIDACTIC  
Data: 10.04.2025 VAE.O  
Semnatura: \_\_\_\_\_

Rector,    Decan,  
Prof.Dr.ing. Vasile Popa    Prof. dr. ing.dr.ec. Stelian Brad

Director departament,  
Prof. dr. ing. Calin Ghe. Dan Neamtu

Responsabil specializare program studii,  
Prof.dr.ing. Stelian Brad

UNIVERSITATEA TEHNICA CLUJ-NAPOCA

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PLAN DE INVATAMANT PENTRU PROMOTIA CARE INCEPE CU ANUL UNIVERSITAR 2024-2025

Listat la : 26/02/2024 // la

Anexa nr. .... la

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| CODUL SI | DENUMIREA DISCIPLINEI                                     | Anul : II     |   |   |       |       |               |   |   |   |       | Forma de verificare |      |      | Nr.ore/disciplina |    |      |         | Credite/sem |      | Disciplina |      |  |
|----------|-----------------------------------------------------------|---------------|---|---|-------|-------|---------------|---|---|---|-------|---------------------|------|------|-------------------|----|------|---------|-------------|------|------------|------|--|
|          |                                                           | SEM 1 14 sapt |   |   |       |       | SEM 2 14 sapt |   |   |   |       | E                   | C    | V    | Total             | C  | Apl  | St. ind | 1           | 2    | cat        | tip  |  |
|          |                                                           | C             | S | L | P     | Pr/Ce | C             | S | L | P | Pr/Ce |                     |      |      |                   |    |      |         |             |      |            |      |  |
| 13.00    | Asigurarea si controlul calitatii in procesele robotizate | 2             | 0 | 1 | 0     | 0     |               |   |   |   |       |                     | Nota |      | 100               | 28 | 14   | 58      | 4,0         |      | DS         | DI   |  |
| 14.00    | Transformarea digitala in industrie                       | 2             | 0 | 1 | 0     | 0     |               |   |   |   |       |                     | Nota |      | 100               | 28 | 14   | 58      | 4,0         |      | DA         | DI   |  |
| 15.00    | Controlul distribuit in sisteme robotizate                | 2             | 0 | 1 | 0     | 0     |               |   |   |   |       |                     | Nota |      | 100               | 28 | 14   | 58      | 4,0         |      | DA         | DI   |  |
| 16.10    | Robotica medicala                                         | 1             | 0 | 2 | 0     | 0     |               |   |   |   |       |                     | Nota |      | 100               | 14 | 28   | 58      | 4,0         |      | DA         | DO   |  |
| 16.20    | Dometica si cladiri industriale inteligente               | 1             | 0 | 2 | 0     | 0     |               |   |   |   |       |                     | Nota |      | 100               | 14 | 28   | 58      | 4,0         |      | DA         | DO   |  |
| 17.10    | Sisteme de viziune in robotica                            | 1             | 0 | 1 | 0     | 0     |               |   |   |   |       |                     | Nota |      | 100               | 14 | 14   | 72      | 4,0         |      | DA         | DO   |  |
| 17.20    | Calibrarea si precizia robotilor industriali              | 1             | 0 | 1 | 0     | 0     |               |   |   |   |       |                     | Nota |      | 100               | 14 | 14   | 72      | 4,0         |      | DA         | DO   |  |
| 18.00    | Etica si integritate academica                            | 1             | 0 | 0 | 0     | 0     |               |   |   |   |       |                     | Nota |      | 50                | 14 | 0    | 36      | 2,0         |      | DC         | DI   |  |
| 19.00    | Practica profesionala III                                 | 0             | 0 | 0 | 0     | 13    |               |   |   |   |       |                     |      | Nota | 200               | 0  | 182  | 18      | 8,0         |      | DA         | DI   |  |
| 20.00    | Practica profesionala IV                                  |               |   |   |       |       | 0             | 0 | 0 | 0 | 14    |                     |      | Nota | 250               | 0  | 196  | 54      |             | 10,0 | DA         | DI   |  |
| 21.00    | Practica pentru elaborarea lucrarii de disertatie         |               |   |   |       |       | 0             | 0 | 0 | 0 | 7     |                     |      | Nota | 250               | 0  | 98   | 152     |             | 10,0 | DS         | DI   |  |
| 22.00    | Elaborare disertatie                                      |               |   |   |       |       | 0             | 0 | 0 | 7 | 0     |                     |      | Nota | 250               | 0  | 98   | 152     |             | 10,0 | DS         | DI   |  |
| 23.00    | Sustinere lucrare disertatie                              |               |   |   |       |       | 0             | 0 | 0 | 0 | 0     |                     |      | Nota | 0                 | 0  | 0    | 0       |             | 10,0 | DS         | DI   |  |
| TOTAL AN |                                                           | 9             | 0 | 6 | 0     |       | 13            | 0 | 0 | 0 | 7     | 14                  | sem1 | 5    | 1                 | 1  | 1500 | 126     | 658         | 716  | 30,0       | 30,0 |  |
|          |                                                           |               |   |   | 15.00 |       |               |   |   |   | 14.00 |                     | sem2 | 0    | 0                 | 3  |      |         |             |      | + 10       |      |  |

|                                                                                                                     |   |   |   |   |   |   |   |   |   |   |      |  |  |     |    |    |    |     |     |    |      |
|---------------------------------------------------------------------------------------------------------------------|---|---|---|---|---|---|---|---|---|---|------|--|--|-----|----|----|----|-----|-----|----|------|
| 204.00 Didactica domeniului si dezvoltari in didactica specializarii (invatamant liceal, postliceal, dupa caz)      | 2 | 1 | 0 | 0 | 0 |   |   |   |   |   | Nota |  |  | 125 | 28 | 14 | 83 | 5.0 |     | DC | DFac |
| 205.10 Managementul organizatiei scolare                                                                            | 1 | 2 | 0 | 0 | 0 |   |   |   |   |   | Nota |  |  | 125 | 14 | 28 | 83 | 5.0 |     | DC | DFac |
| 205.20 Educatie metacognitiva                                                                                       | 1 | 2 | 0 | 0 | 0 |   |   |   |   |   | Nota |  |  | 125 | 14 | 28 | 83 | 5.0 |     | DC | DFac |
| 205.30 Educatie interculturala                                                                                      | 1 | 2 | 0 | 0 | 0 |   |   |   |   |   | Nota |  |  | 125 | 14 | 28 | 83 | 5.0 |     | DC | DFac |
| 303.00 Voluntariat 3                                                                                                | 0 | 1 | 0 | 0 | 0 |   |   |   |   |   | A/R  |  |  | 50  | 0  | 14 | 36 | 2.0 |     | DC | DFac |
| 206.00 Practica pedagogica de specialitate in Invatamantul preuniversitar (invatamant liceal, postliceal, dupa caz) |   |   |   |   |   | 0 | 0 | 0 | 0 | 3 |      |  |  | 125 | 0  | 42 | 83 |     | 5.0 | DC | DFac |
| 207.00 Examen de absolvire: nivelul II                                                                              |   |   |   |   |   | 0 | 0 | 0 | 0 | 0 |      |  |  | 0   | 0  | 0  | 0  |     | 5.0 | DC | DFac |
| 304.00 Voluntariat 4                                                                                                |   |   |   |   |   | 0 | 1 | 0 | 0 | 0 |      |  |  | 50  | 0  | 14 | 36 |     | 2.0 | DC | DFac |

Rector,  
Prof.Dr.Ing.Vasile TopaDeca  
Prof. dr. ing. Corina Julieta BirleanuDirector departament,  
Prof. dr. ing. Călin Ghe. Dan NeamtuResponsabil specializare program studii  
Prof.dr.ing. Stelian Brad

EXEMPLAR UNIC

PROCTORATUL DIDACTIC

23.04.2024-442.0

UNIVERSITATEA TEHNICA CLUJ-NAPOCA

FACULTATE FACULTATEA DE INGINERIE INDUSTRIALA, ROBOTICA SI MANAGEMENTUL PRODUCTIEI

Listat la : 26/02/2024

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|----------|---|---|---|------|---|---|---|---|------|---|------|---|---|---|-----|----|-----|-----|------|-----|
| TOTAL AN | 3 | 4 | 0 | 0    | 0 | 0 | 1 | 0 | 0    | 3 | sem1 | 2 | 0 | 1 | 475 | 42 | 112 | 321 | 12.0 | 7.0 |
|          |   |   |   | 7.00 |   |   |   |   | 1.00 |   | sem2 | 0 | 1 | 1 |     |    |     |     | + 5  |     |

**EXEMPLAR UNIC**

Originalul se află la PRORECTORATUL DIDACTIC

Data: 12.04.2024-VAR.0

Semnătura: \_\_\_\_\_

Rector,  
Prof.Dr.Ing.Vasile Topa

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