

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 sapt					SEM 2 14 sapt						Total	C	Apl	St. ind	1	2	cat	tip
		C	S	L	P	PR	C	S	L	P	PR									
1.00	Analiza matematica	2	2	0	0	0						Nota	100	28	28	44	4.0		DF	DOB
2.00	Algebra lineara, geometrie analitica si diferentiala	2	2	0	0	0						Nota	100	28	28	44	4.0		DF	DOB
3.00	Fizica	2	0	2	0	0						Nota	100	28	28	44	4.0		DF	DOB
4.00	Programarea calculatoarelor si limbaje de programare I~~	2	0	2	0	0						Nota	100	28	28	44	4.0		DF	DOB
5.00	Chimie	2	0	1	0	0						Nota	100	28	14	58	4.0		DF	DOB
6.00	Geometrie descriptiva si desen tehnic	1	0	2	0	0						Nota	100	14	28	58	4.0		DF	DOB
.00	Stiinta si ingineria materialelor I	1	0	1	0	0						Nota	75	14	14	47	3.0		DF	DOB
8.10	Limbi moderne I Engleza	0	1	0	0	0						Nota	50	0	14	36	2.0		DC	DOP
8.20	Limbi moderne I Franceza	0	1	0	0	0						Nota	50	0	14	36	2.0		DC	DOP
.30	Limbi moderne I Germana	0	1	0	0	0						Nota	50	0	14	36	2.0		DC	DOP
0	Educatie fizica si sport I	0	1	0	0	0						A/R	25	0	14	11	1.0		DC	DOB
1	Metode numerice si matematici speciale						1	0	1	0	0	Nota	75	14	14	47	3.0		DF	DOB
11	Mecanica I						2	1	0	0	0	Nota	75	28	14	33	3.0		DF	DOB
12.00	Electrotehnica si masini electrice						2	0	2	0	0	Nota	100	28	28	44	4.0		DF	DOB
13.00	Programarea calculatoarelor si limbaje de programare II~~						2	0	2	0	0	Nota	100	28	28	44	4.0		DF	DOB
14.00	Desen tehnic si infografica						2	0	2	0	0	Nota	75	28	28	19	3.0		DF	DOB
15.00	Stiinta si ingineria materialelor II						1	0	1	0	0	Nota	75	14	14	47	3.0		DF	DOB
16.00	Bazele roboticii						0	0	1	0	0	Nota	25	0	14	11	1.0		DF	DOB
17.00	Comunicare						1	1	0	0	0	Nota	50	14	14	22	2.0		DC	DOB
18.10	Limbi moderne II Engleza						0	2	0	0	0	Nota	50	0	28	22	2.0		DC	DOP
18.20	Limbi moderne II Franceza						0	2	0	0	0	Nota	50	0	28	22	2.0		DC	DOP
18.30	Limbi moderne II Germana						0	2	0	0	0	Nota	50	0	28	22	2.0		DC	DOP
19.00	Educatie fizica si sport II						0	2	0	0	0	A/R	50	0	28	22	2.0		DC	DOB
20.00	Practica de laborator I (2 sapt)						0	0	0	0	30	A/R	75	0	60	15	3.0		DF	DOB



Decan,

Prof. dr. ing. Vasile Stelian Brad

Director departament,

Prof. dr. ing. Calin Ghe. Dan Neamtu

Responsabil specializare/program studii

Prof. dr. ing. Stelian Brad

EXEMPLAR UNIC

Original studii PRORECTORATUL DIDACTIC

Data: 15.09.2025 VAR1

Semnatura: _____

TOTAL AN	12	6	8	0	0	11	6	9	0	30	sem1	6	2	1	1500	322	466	712	30.0	30.0	
											sem2	5	5	1							
101.00 Algebra lineara, geometrie analitica si diferentiala II	1	1	0	0	0						Nota	50	14	14	22	2.0			DF	DFA	
200.00 Psihologia educatiei	2	2	0	0	0						Nota	125	28	28	69	5.0			DC	DFA	
301.00 Voluntariat 1	0	1	0	0	0						A/R	50	0	14	36	2.0			DC	DFA	
102.00 Tehnologii web						1	0	2	0	0	Nota	50	14	28	8		2.0		DS	DFA	
201.00 Pedagogie I (Fundamentele pedagogiei, Teoria si metodologia curriculum-ului)						2	2	0	0	0	Nota	125	28	28	69		5.0		DC	DFA	
302.00 Voluntariat 2						0	1	0	0	0	A/R	50	0	14	36		2.0		DC	DFA	
TOTAL AN	3	4	0	0	0	3	3	2	0	0	sem1	1	1	1	450	84	126	240	9.0	9.0	
											sem2	1	1	1							

EXEMPLAR UNIC

Originalul se află la PRORECTORATUL DIDACTIC

Data: 15.09.2025 - AR 1

Semnătura: _____



Rector,

Prof. Dr. Ing. Vasile Popa

Decan,

Prof. dr. ing. Stelian Brad

Director departament,

Prof. dr. ing. Calin Ghe. Dan Neamtu

Responsabil specializare/program studii,

Prof. dr. ing. Stelian Brad

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	C	S	L	P	PR												
21.00 Rezistenta materialelor	2	0	1	0	0						Nota	125	28	14	83	5.0		DD	DI			
22.00 Mecanica II	2	1	0	0	0						Nota	100	28	14	58	4.0		DD	DI			
23.00 Bazele sistemelor automate	1	0	0	2	0						Nota	75	14	28	33	3.0		DD	DI			
24.00 Tolerante si control dimensional	2	0	2	0	0						Nota	100	28	28	44	4.0		DD	DI			
25.00 Grafica asistata de calculator I	2	0	2	1	0						Nota	100	28	42	30	4.0		DF	DI			
26.00 Electronica si automatizari	2	0	2	0	0						Nota	100	28	28	44	4.0		DD	DI			
27.00 Programare in Python	1	0	2	0	0						Nota	100	14	28	58	4.0		DS	DI			
28.10 Limbi moderne III Engleza	1	1	0	0	0						Nota	50	14	14	22	2.0		DC	DO			
28.20 Limbi moderne III Franceza	1	1	0	0	0						Nota	50	14	14	22	2.0		DC	DO			
28.30 Limbi moderne III Germana	1	1	0	0	0						Nota	50	14	14	22	2.0		DC	DO			
28.40 Etica si integritate academica	1	1	0	0	0						Nota	50	14	14	22	2.0		DC	DO			
29.00 Mecanisme si organe de masini I						3	0	2	2	0	Nota	125	42	56	27	5.0		DD	DI			
30.00 Mecanica fluidelor						2	0	1	0	0	Nota	75	28	14	33	3.0		DD	DI			
31.00 Sisteme de actionare						2	2	0	0	0	Nota	75	28	28	19	3.0		DD	DI			
32.00 Tehnologii pentru internetul lucrurilor in industrie						1	0	1	0	0	Nota	50	14	14	22	2.0		DS	DI			
33.00 Sisteme de conducere in robotica						2	0	1	0	0	Nota	75	28	14	33	3.0		DD	DI			
34.00 Grafica asistata de calculator II						1	0	2	0	0	Nota	75	14	28	33	3.0		DD	DI			
35.00 Limbi moderne aplicate (Lb.Engleza)						1	1	0	0	0	Nota	50	14	14	22	2.0		DC	DI			
36.10 Actionarea electrica a robotilor industriali						2	0	2	0	0	Nota	100	28	28	44	4.0		DS	DO			
36.20 Actionari pneumatice						2	0	2	0	0	Nota	100	28	28	44	4.0		DS	DO			
37.00 Practica de domeniu II (4 sapt)						0	0	0	0	30	A/R	125	0	120	5	5.0		DD	DI			
TOTAL AN	13	2	9	3	0	14	3	9	2	30	sem1	5	3	0	1500	378	512	610	30.0	30.0		
											sem2	5	4	0								

103.00 Managementul inovarii	1	0	2	0	0						Nota			50	14	28	8	2.0		DS	DFac
202.00 Pedagogie II (Teoria si metodologia instruirii, Teoria si metodologia evaluarii)	2	2	0	0	0						Nota			125	28	28	69	5.0		DC	DFac

Rector,
Prof. Dr. Ing. Vasile Tona

Decan,
Prof. dr. ing. Corina Julieta Birleanu

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

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

EXEMPLAR UNIC

PROCTORATUL DIDACTIC

12.04.2024-VAR 0

UNIVERSITATEA TEHNICA CLUJ-NAPOCA

FACULTATE FACULTATEA DE INGINERIE INDUSTRIALA, ROBOTICA SI MANAGEMENTUL PRODUCTIEI

DOMENIU MECATRONICA SI ROBOTICA

SPECIALIZARE ROBOTICA (IN LIMBA ENGLEZA)

Nivel de studii LICENTA

Listat la : 26/02/2024

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

[Signature]

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303.00 Voluntariat 3	0 1 0 0 0										A/R				50	0	14	36	2.0		DC	DFac
104.00 Antreprenoriat						1	0	0	2	0	Nota				50	14	28	8	2.0		DC	DFac
203.00 Didactica specializarii						2	2	0	0	0	Nota				125	28	28	69	5.0		DC	DFac
304.00 Voluntariat 4						0	1	0	0	0	A/R				50	0	14	36	2.0		DC	DFac
TOTAL AN	3	3	2	0	0	3	3	0	2	0	sem1	1	1	1	450	84	140	226	9.0	9.0		
											sem2	1	1	1								

EXEMPLAR UNIC

Originalul se afla la PRORECTORATUL DIDACTIC

Data: 12.04.2024 - VAR. 0

Semnatura: _____

Rector,
Prof.Dr.Ing.Vasile Toma

Decan, *[Signature]*
Prof. dr. ing. Corina Julieta Birleanu

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

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

CODUL SI DENUMIREA DISCIPLINEI	Anul : III										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	C	S	L	P	PR											
38.00 Mecanisme si organe de masini II	3	0	0	0	0						Nota			75	42	0	33	3.0		DD	DI
39.00 Mecanisme si organe de masini II (Proiect)	0	0	0	2	0						Nota			50	0	28	22	2.0		DD	DI
40.00 Unitati de fabricatie integrata	2	0	2	1	0						Nota			125	28	42	55	5.0		DS	DI
41.00 Tehnologii de fabricatie I	1	0	1	0	0						Nota			100	14	14	72	4.0		DS	DI
42.10 Interfete pentru interactiunea om-robot	2	0	2	0	0						Nota			100	28	28	44	4.0		DS	DO
42.20 Dezvoltarea sistemelor robotice industriale inteligente	2	0	2	0	0						Nota			100	28	28	44	4.0		DS	DO
43.00 Proiectare asistata de calculator	2	0	2	0	0						Nota			100	28	28	44	4.0		DD	DI
44.00 Programare in Java	1	0	0	2	0						Nota			75	14	28	33	3.0		DS	DI
45.00 Senzori si sisteme senzoriale	2	0	2	0	0						Nota			100	28	28	44	4.0		DD	DI
46.00 Mecanica robotilor						2	2	0	0	0	Nota			125	28	28	69	5.0		DS	DI
47.00 Tehnologii de fabricatie II						2	0	0	1	0	Nota			75	28	14	33	3.0		DS	DI
48.00 Sisteme flexibile de fabricatie I						2	0	2	0	0	Nota			100	28	28	44	4.0		DS	DI
49.00 Constructia mecanica a robotilor industriali I						2	0	1	0	0	Nota			75	28	14	33	3.0		DS	DI
50.00 Robotizarea fabricatiei						2	0	1	0	0	Nota			75	28	14	33	3.0		DS	DI
51.00 Ingineria si managementul calitatii						2	0	2	0	0	Nota			100	28	28	44	4.0		DS	DI
52.10 Microcontrolere, microprocesoare						2	0	2	1	0	Nota			100	28	42	30	4.0		DD	DO
52.20 Inteligenta artificiala						2	0	2	1	0	Nota			100	28	42	30	4.0		DD	DO
53.00 Practica de specialitate (3 sept)						0	0	0	0	30	A/R			100	0	90	10	4.0		DS	DI
TOTAL AN	15	0	11	5	0	14	2	8	2	30	sem1 4 4 1 sem2 6 2 0			1575	406	482	687	33.0	30.0		

105.00 Managementul proiectelor	1	0	2	0	0						Nota			50	14	28	8	2.0		DC	DFac
204.00 Instruire asistata de calculator	1	0	1	0	0						Nota			50	14	14	22	2.0		DC	DFac
205.00 Practica pedagogica de specialitate in invatamantul preuniversitar	0	0	0	0	3						Nota			75	0	42	33	3.0		DC	DFac
305.00 Voluntariat 5	0	1	0	0	0						A/R			50	0	14	36	2.0		DC	DFac
106.00 Roboti mobili autonomi						1	0	2	0	0	Nota			50	14	28	8	2.0		DC	DFac

Rector,

Decan

Director departament,

Prof. dr. ing. Gelu Gheorghe (Dan Moanitu)

Responsabil specializare/program studii,

Prof. dr. ing. Stelian Brad

Originalul se afla la PROCTORATUL DIDACTIC

10.07.2023-YAR

206.00 Managementul clasei de elevi		1	1	0	0	0	Nota	75	14	14	47	3.0	DC	DFac				
207.00 Practica pedagogica de specialitate in invatamantul preuniversitar		0	0	0	0	3	Nota	50	0	36	14	2.0	DC	DFac				
208.00 Examen de absolvire: nivelul I		0	0	0	0	0	Nota	0	0	0	0	5.0	DC	DFac				
209.00 Arta si comunicare - FACULTATIV		1	0	0	0	0	Nota	25	14	0	11	1.0	DC	DFac				
306.00 Voluntariat 6		0	1	0	0	0	A/R	50	0	14	36	2.0	DC	DFac				
TOTAL AN	2	1	3	0	3	3	2	2	0	3	sem1 0 2 2 sem2 2 1 2	475	70	190	215	9.0	10.0	
				6.00					7.00								+ 5	

Rector,
Prof. dr. ing. Vasile Tona

Decan,
Prof. dr. ing. Corina Julieta Birleanu

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

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

EXEMPLAR UNIC

Originalul se află la PROCTORATUL DIDACTIC

Data: 10.07.2023 - AR1

Semnătura: _____

CODUL SI DENUMIREA DISCIPLINEI	Anul : IV										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	C	S	L	P	PR												
55.00 Productia digitala	2	0	2	0	0						Nota	100	28	28	44	4.0		DS	DI			
56.00 Constructia mecanica a robotilor industriali II	2	0	0	1	0						Nota	100	28	14	58	4.0		DS	DI			
57.00 Comanda si programarea masinilor unelte cu comanda numerica	2	0	1	0	0						Nota	100	28	14	58	4.0		DS	DI			
58.00 Conceptia si exploatarea sistemelor de productie robotizate	2	0	0	0	0						Nota	50	28	0	22	2.0		DS	DI			
59.00 Conceptia si exploatarea sistemelor de productie robotizate (proiect)	0	0	0	2	0						Nota	50	0	28	22	2.0		DS	DI			
60.00 Roboti pentru servicii I	1	0	1	0	0						Nota	50	14	14	22	2.0		DS	DI			
61.00 Sisteme flexibile de fabricatie II	2	0	2	0	0						Nota	100	28	28	44	4.0		DS	DI			
62.10 Interfete pentru interactiunea om-robot	2	0	2	0	0						Nota	100	28	28	44	4.0		DS	DO			
62.20 Dezvoltarea sistemelor robotice industriale inteligente	2	0	2	0	0						Nota	100	28	28	44	4.0		DS	DO			
63.10 Aplicatii cu microcontrolere in robotica industriala	1	0	2	0	0						Nota	100	14	28	58	4.0		DS	DO			
63.20 Controlere logic programabile si automatizarea fabricatiei	1	0	2	0	0						Nota	100	14	28	58	4.0		DS	DO			
64.00 Ingineria si managementul calitatii						2	0	2	0	0	Nota	125	28	28	69	5.0		DS	DI			
65.00 Sisteme mecatronice						2	0	2	0	0	Nota	125	28	28	69	5.0		DD	DI			
66.00 Roboti pentru servicii II						2	0	0	1	0	Nota	50	28	14	8	2.0		DS	DI			
67.00 Roboti cu structuri paralele si aplicatii						2	0	1	0	0	Nota	125	28	14	83	5.0		DS	DI			
68.10 Realitate virtuala						2	0	1	0	0	Nota	125	28	14	83	5.0		DS	DO			
68.20 Actionarea pneumatica si comanda manipuloarelor						2	0	1	0	0	Nota	125	28	14	83	5.0		DS	DO			
69.00 Elaborarea proiectului de diploma						0	0	0	4	0	Nota	100	0	56	44	4.0		DS	DI			
70.00 Practica pentru proiectul de diploma						0	0	0	0	5	Nota	100	0	70	30	4.0		DS	DI			
71.00 Sustinerea proiectului de diploma						0	0	0	0	0	Nota	0	0	0	0	10.0		DS	DI			
TOTAL AN	14	0	10	3	0	10	0	6	5	5	sem1 5 3 1 sem2 3 2 2	1500	336	406	758	30.0	30.0					

EXEMPLAR UNIC

Originalul se află la PRORECTORATUL DIDACTIC

Data: 20.05.2022 - TAO

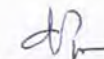
Semnatura: _____

Rector,
Pr

Decan,

Director departament,

Responsabil specializare/program studii,



107.00 Tehnici de prototipare rapida	1	0	2	0	0		Nota	50	14	28	8	2.0	DC	DFac
108.00 Robotica medicala	1	0	2	0	0		Nota	50	14	28	8	2.0	DC	DFac
307.00 Voluntariat 7	0	1	0	0	0		A/R	50	0	14	36	2.0	DC	DFac
308.00 Voluntariat 8						0	A/R	50	0	14	36	2.0	DC	DFac
TOTAL AN	2	1	4	0	0	0	sem1	0	2	1	200	28	84	88
				7.00		0	sem2	0	0	1		6.0	2.0	

Rector,
F

/Decan,

Director departament,

Responsabil specializare/program studii,

EXEMPLAR UNIC

Originalul se află la PRORECTORATUL DIDACTIC

Data: 20.05.2022 -VARA

Semnătur

Domain **MECHATRONICS AND ROBOTICS**
Program Name **ROBOTICS (IN ENGLISH LANGUAGE)**
Study Level **BACHELOR**

Listat la: 14/09/2025

Anexa nr. 1 la
Sedinta nr. 175 din
data 25.09.2025

Pag. 1

CURRICULA Valid for the Academic Year **2025-2026**

COURSE CODE AND TITLE		Year I										Methods 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	C	S	L	P	PR												
1.00	Mathematical Analysis	2	2	0	0	0						Gr			100	28	28	44	4.0		DF	DOB	
2.00	Linear Algebra Analytical and Differential Geometry	2	2	0	0	0						Gr			100	28	28	44	4.0		DF	DOB	
3.00	Physics	2	0	2	0	0						Gr			100	28	28	44	4.0		DF	DOB	
4.00	Computer Programming and Programming Languages I	2	0	2	0	0						Gr			100	28	28	44	4.0		DF	DOB	
0	Chemistry	2	0	1	0	0						Gr			100	28	14	58	4.0		DF	DOB	
6.00	Descriptive Geometry and Technical Drawing	1	0	2	0	0						Gr			100	14	28	58	4.0		DF	DOB	
7.00	Materials Science and Engineering I	1	0	1	0	0						Gr			75	14	14	47	3.0		DF	DOB	
8.10	Modern Languages I English	0	1	0	0	0						Gr			50	0	14	36	2.0		DC	DOP	
8.20	Modern Languages I French	0	1	0	0	0						Gr			50	0	14	36	2.0		DC	DOP	
8.30	Modern Languages I German	0	1	0	0	0						Gr			50	0	14	36	2.0		DC	DOP	
9.00	Physical Education and Sports I	0	1	0	0	0						A/R			25	0	14	11	1.0		DC	DOB	
10.00	Numerical Methods and Special Mathematics						1	0	1	0	0	Gr			75	14	14	47	3.0		DF	DOB	
11.00	Mechanics I						2	1	0	0	0	Gr			75	28	14	33	3.0		DF	DOB	
12.00	Electrotechnics and Electrical Machines						2	0	2	0	0	Gr			100	28	28	44	4.0		DF	DOB	
13.00	Computer Programming and Programming Languages II						2	0	2	0	0	Gr			100	28	28	44	4.0		DF	DOB	
14.00	Technical Drawing and Infographics						2	0	2	0	0	Gr			75	28	28	19	3.0		DF	DOB	
15.00	Materials Science and Engineering II						1	0	1	0	0	Gr			75	14	14	47	3.0		DF	DOB	
16.00	Fundamentals of Robotics						0	0	1	0	0	Gr			25	0	14	11	1.0		DF	DOB	
17.00	Communication						1	1	0	0	0	Gr			50	14	14	22	2.0		DC	DOB	
18.10	Modern Languages II English						0	2	0	0	0	Gr			50	0	28	22	2.0		DC	DOP	
18.20	Modern Languages II French						0	2	0	0	0	Gr			50	0	28	22	2.0		DC	DOP	
18.30	Modern Languages II German						0	2	0	0	0	Gr			50	0	28	22	2.0		DC	DOP	
19.00	Physical Education and Sports II						0	2	0	0	0	A/R			50	0	28	22	2.0		DC	DOB	
20.00	Field Practice I (2 weeks)						0	0	0	0	30	A/R			75	0	60	15	3.0		DF	DOB	



Dean
Prof. dr. ing. Stelian Brad

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

Study Program Responsible,
Prof. dr. ing. Stelian Brad

EXEMPLAR UNIC
Originalul se afla la PROCTORATUL DIDACTIC
15.09.2025 - YAR

Domain **MECHATRONICS AND ROBOTICS**
Program Name **ROBOTICS (IN ENGLISH LANGUAGE)**
Study Level **BACHELOR**

CURRICULA

Valid for the Academic Year

2025-2026

ds

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TOTAL AN	12	6	8	0	0	11	6	9	0	30	sem1	6	2	1	1500	322	466	712	30.0	30.0	
				26.00					26.00		sem2	5	5	1							

101.00	Linear Algebra, Analytical and Differential Geometry II	1	1	0	0	0					Gr	50	14	14	22	2.0		DF	DFA		
200.00	Educational Psychology	2	2	0	0	0					Gr	125	28	28	69	5.0		DC	DFA		
301.00	Volunteering 1	0	1	0	0	0					A/R	50	0	14	36	2.0		DC	DFA		
102.00	Web Technologies						1	0	2	0	0	Gr	50	14	28	8	2.0		DS	DFA	
201.00	Pedagogy I (The Fundamentals of Pedagogy, Curriculum Theory and Methodology)						2	2	0	0	0	Gr	125	28	28	69	5.0		DC	DFA	
302.00	Volunteering 2						0	1	0	0	0	A/R	50	0	14	36	2.0		DC	DFA	
TOTAL AN		3	4	0	0	0	3	3	2	0	0	sem1	1	1	1	450	84	126	240	9.0	9.0
		7.00					8.00					sem2	1	1	1						



Dean,
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Department Director,
Prof. dr. ing. Galia Gheorghe / Dan Neamtu

Study Program Responsible,
Prof. dr. ing. Stelian Brad

EXEMPLAR UNIC
Originalul se află la PRORECTORATUL DIDACTIC
Data: 15.09.2025 - YAR
Semnătura: _____

Domain **MECHATRONICS AND ROBOTICS**
Program Name **ROBOTICS (IN ENGLISH LANGUAGE)**
Study Level **BACHELOR**

Anexa nr. 11 Listat la: 26/02/2024
Sedința nr. 161 din
data 23.05.2024

CURRICULA Valid for the Academic Year **2024-2025**

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COURSE CODE AND TITLE		Year II										Methods of Assessment				Total 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	C	S	L	P	PR												
21.00	Material Strength	2	0	1	0	0						Gr			125	28	14	83	5.0		DD	DI	
22.00	Mechanics II	2	1	0	0	0						Gr			100	28	14	58	4.0		DD	DI	
23.00	Basics of Automation Systems	1	0	0	2	0						Gr			75	14	28	33	3.0		DD	DI	
24.00	Tolerances and Dimensional Control	2	0	2	0	0						Gr			100	28	28	44	4.0		DD	DI	
25.00	Computer Aided Graphics I	2	0	2	1	0						Gr			100	28	42	30	4.0		DF	DI	
26.00	Electronics and Automation	2	0	2	0	0						Gr			100	28	28	44	4.0		DD	DI	
27.00	Programming in Python	1	0	2	0	0						Gr			100	14	28	58	4.0		DS	DI	
28.10	Modern Languages III English	1	1	0	0	0						Gr			50	14	14	22	2.0		DC	DO	
28.20	Modern Languages III French	1	1	0	0	0						Gr			50	14	14	22	2.0		DC	DO	
28.30	Modern Languages III German	1	1	0	0	0						Gr			50	14	14	22	2.0		DC	DO	
28.40	Ethics and Academic Integrity	1	1	0	0	0						Gr			50	14	14	22	2.0		DC	DO	
29.00	Mechanisms and Machine Elements I						3	0	2	2	0	Gr			125	42	56	27	5.0		DD	DI	
30.00	Fluid Mechanics						2	0	1	0	0	Gr			75	28	14	33	3.0		DD	DI	
31.00	Driving Systems						2	2	0	0	0	Gr			75	28	28	19	3.0		DD	DI	
32.00	Technologies for Industrial Internet of Things						1	0	1	0	0	Gr			50	14	14	22	2.0		DS	DI	
33.00	Control Systems in Robotics						2	0	1	0	0	Gr			75	28	14	33	3.0		DD	DI	
34.00	Computer Aided Graphics II						1	0	2	0	0	Gr			75	14	28	33	3.0		DD	DI	
35.00	Applied Modern Languages						1	1	0	0	0	Gr			50	14	14	22	2.0		DC	DI	
36.10	Electrical Drives of Industrial Robots						2	0	2	0	0	Gr			100	28	28	44	4.0		DS	DO	
36.20	Pneumatic Drives						2	0	2	0	0	Gr			100	28	28	44	4.0		DS	DO	
37.00	Practical Work II (4 weeks)						0	0	0	0	30	A/R			125	0	120	5	5.0		DD	DI	
TOTAL AN		13	2	9	3	0	14	3	9	2	30	sem1	5	3	0	1500	378	512	610	30.0	30.0		
					27.00					28.00		sem2	5	4	0								

103.00 Innovation Management	1	0	2	0	0						Gr			50	14	28	8	2.0		DS	DFac
202.00 Pedagogy II (Instruction Theory and Methodology, Assessment Theory and Methodology)	2	2	0	0	0						Gr			125	28	28	69	5.0		DC	DFac

EXEMPLAR UNIC

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12.04.2024 VAR.C

Rector,
Prof.Dr.Ing.Vasile Topa

Dean,
Prof. dr. ing. Corina Julieta Birleanu

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

Prof.dr.ing. Stelian Brad

Domain MECHATRONICS AND ROBOTICS
Program Name ROBOTICS (IN ENGLISH LANGUAGE)
Study Level BACHELOR

CURRICULA

Valid for the Academic Year 2024-2025

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303.00 Volunteering 3	0 1 0 0 0										A/R				50	0	14	36	2.0		DC	DFac
104.00 Entrepreneurship						1	0	0	2	0	Gr				50	14	28	8	2.0		DC	DFac
203.00 Didactics of the Specialization						2	2	0	0	0	Gr				125	28	28	69	5.0		DC	DFac
304.00 Volunteering 4						0	1	0	0	0	A/R				50	0	14	36	2.0		DC	DFac
TOTAL AN	3	3	2	0	0	3	3	0	2	0	sem1	1	1	1	450	84	140	226	9.0	9.0		
	8.00					8.00					sem2	1	1	1								

EXEMPLAR UNIC

Originalul se află la PRORECTORATUL DIDACTIC

Data: 12.04.2024-VAR.0

Semnătura: .

Rector,

Dean,

Department Director,

Domain **MECHATRONICS AND ROBOTICS**
Program Name **ROBOTICS (IN ENGLISH LANGUAGE)**
Study Level **BACHELOR**

CURRICULA

Valid for the Academic Year

2022-2023

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COURSE CODE AND TITLE	Year IV					Methods of Assessment	Nr.of Hours/Discipline				ECTS/Sem		Discipline								
	SEM 1 14 weeks						SEM 2 14 weeks					Total	C	Apl	Indiv. St.	1	2	cat	type		
	C	S	L	P	PR	C	S	L	P	PR	E									C	V
55.00 Digital Production	2	0	2	0	0						Gr		100	28	28	44	4.0		DS	DI	
56.00 Mechanical Construction of Industrial Robots II	2	0	0	1	0						Gr		100	28	14	58	4.0		DS	DI	
57.00 NC Machine Tool Control and Programming	2	0	1	0	0						Gr		100	28	14	58	4.0		DS	DI	
58.00 Conception and Exploitation of Robotic Production Systems	2	0	0	0	0						Gr		50	28	0	22	2.0		DS	DI	
59.00 Conception and Exploitation of Robotic Production Systems (project)	0	0	0	2	0						Gr		50	0	28	22	2.0		DS	DI	
60.00 Robots for Services I	1	0	1	0	0						Gr		50	14	14	22	2.0		DS	DI	
61.00 Flexible Manufacturing Systems II	2	0	2	0	0						Gr		100	28	28	44	4.0		DS	DI	
62.10 Interfaces for Human-Robot Interaction	2	0	2	0	0						Gr		100	28	28	44	4.0		DS	DO	
62.20 Development of Intelligent Industrial Robotic Systems	2	0	2	0	0						Gr		100	28	28	44	4.0		DS	DO	
63.10 Applications with Microcontrollers in Industrial Robotics	1	0	2	0	0						Gr		100	14	28	58	4.0		DS	DO	
63.20 Programmable Logical Controllers and Manufacturing Automation	1	0	2	0	0						Gr		100	14	28	58	4.0		DS	DO	
64.00 Quality Engineering and Management						2	0	2	0	0	Gr		125	28	28	69	5.0		DS	DI	
65.00 Mechatronics Systems						2	0	2	0	0	Gr		125	28	28	69	5.0		DD	DI	
66.00 Robots for Services II						2	0	0	1	0	Gr		50	28	14	8	2.0		DS	DI	
67.00 Robots with Parallel Structures and Applications						2	0	1	0	0	Gr		125	28	14	83	5.0		DS	DI	
68.10 Virtual Reality						2	0	1	0	0	Gr		125	28	14	83	5.0		DS	DO	
68.20 Pneumatic actuation and control of robot manipulators						2	0	1	0	0	Gr		125	28	14	83	5.0		DS	DO	
69.00 Graduation Project						0	0	0	4	0	Gr		100	0	56	44	4.0		DS	DI	
70.00 Field-Specific Research for the Graduation Project						0	0	0	0	5	Gr		100	0	70	30	4.0		DS	DI	
71.00 BSc Thesis Defense						0	0	0	0	0	Gr		0	0	0	0	10.0		DS	DI	
TOTAL AN	14	0	10	3	0	10	0	6	5	5	sem1	5	3	1	1500	336	406	758	30.0	30.0	
				27.00					26.00		sem2	3	2	2					+ 10		

107.00 Rapid Prototyping	1	0	2	0	0						Gr		50	14	28	8	2.0	DS	DI
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Rector,
Pr

Dean,

Department Director,

Prof dr ing. Stelian Brad

Originalul se află la PRORECTORATUL DIDACTIC

Data: 20.05.2022 - VAKO

Domain MECHATRONICS AND ROBOTICS
Program Name ROBOTICS (IN ENGLISH LANGUAGE)
Study Level BACHELOR

CURRICULA

Valid for the Academic Year

2022-2023



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108.00 Medical Robotics	1	0	2	0	0		Gr	50	14	28	8	2.0	DC	DFac
307.00 Volunteering 7	0	1	0	0	0		A/R	50	0	14	36	2.0	DC	DFac
308.00 Volunteering 8						0	A/R	50	0	14	36	2.0	DC	DFac
TOTAL AN	2	1	4	0	0	0	sem1	0	2	1	200	28	84	88
							sem2	0	0	1		6.0	2.0	

Rector.
Pr

Dean, 

Department Director,

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Originalul se află la PRORECTORATUL DIDACTIC

Data: 20.05.2022 

CODUL SI	DENUMIREA DISCIPLINEI	Anul : I										Forma de verificare	Nr.ore/disciplina				Credite/sem		Disciplina	
		SEM 1 14 sapt					SEM 2 14 sapt						Total	C	Apl	St. ind	1	2	cat	tip
		C	S	L	P	PR	C	S	L	P	PR									
1.00	Analiza matematica	2	2	0	0	0						Nota	100	28	28	44	4.0		DF	DOB
2.00	Algebra lineara, geometrie analitica si diferentiala	2	2	0	0	0						Nota	100	28	28	44	4.0		DF	DOB
3.00	Fizica	2	0	2	0	0						Nota	100	28	28	44	4.0		DF	DOB
4.00	Programarea calculatoarelor si limbaje de programare I~~	2	0	2	0	0						Nota	100	28	28	44	4.0		DF	DOB
5.00	Chimie	2	0	1	0	0						Nota	100	28	14	58	4.0		DF	DOB
6.00	Geometrie descriptiva si desen tehnic	1	0	2	0	0						Nota	100	14	28	58	4.0		DF	DOB
7.00	Stiinta si ingineria materialelor I	1	0	1	0	0						Nota	75	14	14	47	3.0		DF	DOB
8.10	Limbi moderne I Engleza	0	1	0	0	0						Nota	50	0	14	36	2.0		DC	DOP
8.20	Limbi moderne I Franceza	0	1	0	0	0						Nota	50	0	14	36	2.0		DC	DOP
8.30	Limbi moderne I Germana	0	1	0	0	0						Nota	50	0	14	36	2.0		DC	DOP
9.00	Educatie fizica si sport I	0	1	0	0	0						A/R	25	0	14	11	1.0		DC	DOB
10.00	Metode numerice si matematici speciale						1	0	1	0	0	Nota	75	14	14	47	3.0		DF	DOB
11.00	Mecanica I						2	1	0	0	0	Nota	75	28	14	33	3.0		DF	DOB
12.00	Electrotehnica si masini electrice						2	0	2	0	0	Nota	100	28	28	44	4.0		DF	DOB
13.00	Programarea calculatoarelor si limbaje de programare II~~						2	0	2	0	0	Nota	100	28	28	44	4.0		DF	DOB
14.00	Desen tehnic si infografica						2	0	2	0	0	Nota	75	28	28	19	3.0		DF	DOB
15.00	Stiinta si ingineria materialelor II						1	0	1	0	0	Nota	75	14	14	47	3.0		DF	DOB
16.00	Bazele roboticii						0	0	1	0	0	Nota	25	0	14	11	1.0		DF	DOB
17.00	Comunicare						1	1	0	0	0	Nota	50	14	14	22	2.0		DC	DOB
18.10	Limbi moderne II Engleza						0	2	0	0	0	Nota	50	0	28	22	2.0		DC	DOP
18.20	Limbi moderne II Franceza						0	2	0	0	0	Nota	50	0	28	22	2.0		DC	DOP
18.30	Limbi moderne II Germana						0	2	0	0	0	Nota	50	0	28	22	2.0		DC	DOP
19.00	Educatie fizica si sport II						0	2	0	0	0	A/R	50	0	28	22	2.0		DC	DOB
20.00	Practica de domeniu I (2 sapt)						0	0	0	0	30	A/R	75	0	60	15	3.0		DF	DOB



Reactor,
Prof. Dr. Ing. Vasile Topa

Decan,
Prof. dr. ing. dr. ec. Stelian Brad

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

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

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Originalul se afla la PROCTORATUL DIDACTIC

TOTAL AN	12	6	8	0	0	11	6	9	0	30	sem1	6	2	1	1500	322	466	712	30.0	30.0	
											sem2	5	5	1							
101.00 Algebra lineara, geometrie analitica si diferentia II	1	1	0	0	0						Nota	50	14	14	22	2.0			DF	DFA	
200.00 Psihologia educatiei	2	2	0	0	0						Nota	125	28	28	69	5.0			DC	DFA	
301.00 Voluntariat 1	0	1	0	0	0						A/R	50	0	14	36	2.0			DC	DFA	
102.00 Tehnologii web						1	0	2	0	0	Nota	50	14	28	8	2.0			DS	DFA	
201.00 Pedagogie I (Fundamentele pedagogiei, Teoria si metodologia curriculum-ului)						2	2	0	0	0	Nota	125	28	28	69	5.0			DC	DFA	
302.00 Voluntariat 2						0	1	0	0	0	A/R	50	0	14	36	2.0			DC	DFA	
TOTAL AN	3	4	0	0	0	3	3	2	0	0	sem1	1	1	1	450	84	126	240	9.0	9.0	
											sem2	1	1	1							



Decan,

Director departament,

Responsabil specializare/program studii,

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Data: 15.09.2025 -

Semnătura: _____