Universitatea Politehnica Timişoara
Facultatea de Mecanică

PLAN DE ÎNVĂȚĂMÂNT

Pentru seria de studenti 2026-2030

Programul de studii - Licență:	**Mechanical Engineering**
Domeniul fundamental (DFI):	**Științe Inginerești**
Ramura de stiinta (RSI):	**Inginerie Mecanică, mecatronică, Inginerie industrială și management**
Domeniul de licenta (DL):	**Inginerie Mecanică**
Durata studiilor / Numărul de credite:	**4 ani / 240 credite**
Forma de învățământ:	**IF - Invatamant cu frecventa**

RECTOR,
Conf.univ.dr.ing. Florin DRĂGAN

DECAN,
Prof. univ.dr. ing. Ion-Dragoș Uțu

Universitatea Politehnica Timişoara
Facultatea de Mecanică

Misiunea programului de studii:
The program aims to train specialists with a broad knowledge, competitive on a national and international level, with skills and abilities specific to mechanical engineering.

Obiectivele programului de studii:
The objectives focus on acquiring general skills specific to the engineering profession and developing basic knowledge for understanding techniques and processes in the field of mechanical engineering. T

Competenţele programului de studii:

Competenţe profesionale:

C1. Identifying, defining and using notions from the fundamental sciences specific to the field of engineering.
C2. Use principles and graphical modelling tools to describe and design mechanical systems and processes.
C3. Selection, installation, operation and maintenance of mechanical engineering systems.
C4. Application of design, analysis and testing methods of mechanical elements and systems.
C5. Interpretation and substantiation on technological, functional and economic criteria of mechanical system solutions.
C6. Implementation and coordination of the quality management system and marketing.

Competenţe transversale:
CT1. Compliance with the principles, norms and values of the code of professional ethics by approaching a rigorous, efficient and responsible work strategy in problem solving and decision making.
CT2. The application of communication techniques and effective work in a multidisciplinary team, on various hierarchical levels, within the specific project management work group.
CT3. Appropriate use of effective lifelong learning methods and techniques; appropriate use of information and oral and written communication in a common European language.

Rezultatele învățării specifice programului de studii:

Cunoștințe	Aptitudini	Responsabilitate și autonomie
C1. The student/graduate identifies and describes basic concepts, principles, and methods in mathematics, physics, chemistry, technical drawing, economics, and computer science. C2. The student/graduate explains and interprets theoretical and experimental results in mathematics, physics, chemistry, economics, technical drawing, and computer science. C3. The student/graduate identifies and describes basic principles and methods in the field of mechanical engineering. C4. The student/graduate explains and interprets theoretical and experimental results, technical documentation, phenomena, and processes in the field of mechanical engineering. C5. The student/graduate identifies, describes, and explains the principles and operation of electrical, electronic, hydraulic, and pneumatic systems, as well as their integration into intelligent mechanical applications. C6. The student/graduate identifies and analyses materials, mechanical structures, and their specific behaviours under static, dynamic, and thermomechanical conditions. C7. The student/graduate identifies, describes, and explains the operation of conventional and renewable production and energy systems, as well as their environmental impact.	A1. The student/graduate applies basic concepts, principles, and methods from mathematics, physics, chemistry, technical drawing, economics, and computer science. A2. The student/graduate solves mathematics, physics, and chemistry problems applicable to engineering and validates the obtained solutions. A3. The student/graduate performs medium-complexity engineering and economic calculations and associates them with graphical representations in analog or computer-aided design formats. A4. The student/graduate describes physicochemical and economic phenomena and processes. A5. The student/graduate applies evaluation criteria and methods for identifying, modeling, experimenting, analyzing, and qualitatively and quantitatively assessing phenomena and processes specific to the fundamental domain, including the use of digital technologies. A6. The student/graduate acquires and processes data, and interprets theoretical and experimental results. A7. The student/graduate designs solutions, adhering to relevant standards, for medium-complexity engineering problems that meet specified needs, considering public health, safety, welfare, environmental, sustainability, and economic factors, as well as other specific constraints. A8. The student/graduate creates detailed and assembly technical drawings in analog or computer-aided design formats. A9. The student/graduate applies modern project management techniques, economic techniques, and decision-making processes, including in a multidisciplinary context. A10. The student/graduate applies basic methods and techniques from the field and associates them with graphical representations specific to mechanical engineering. A11. The student/graduate applies criteria, evaluation methods, concepts, theories, and software in the design of mechanical systems. A12. The student/graduate selects and applies basic concepts, principles, and methods from the field for mechanical and strength calculations specific to structures and mechanical systems. A13. The student/graduate selects and applies criteria, principles, and evaluation methods for identifying, modeling, and experimenting with mechanical phenomena and processes. A14. The student/graduate develops medium-complexity professional projects by selecting, combining, and using concepts, principles, methodologies, and technologies from the field of mechanical engineering. A15. The student/graduate analyzes, designs, and optimizes electrical, electronic, and hydropneumatic drive systems.	RA1. The student/graduate applies the values of ethics and professional deontology in the engineering profession. RA2. The student/graduate practices logical reasoning, evaluation, and self-assessment in decision-making. RA3. The student/graduate effectively communicates about engineering activities with a wide range of audiences. RA4. The student/graduate engages in lifelong learning to acquire and implement knowledge as needed, using appropriate learning strategies. RA5. The student/graduate promotes dialogue, cooperation, respect for others, and interculturality. RA6. The student/graduate works effectively as a team member or leader. RA7. The student/graduate selects and analyzes bibliographic sources specific to the field of mechanical engineering. RA8. The student/graduate demonstrates autonomy in learning issues specific to the field of mechanical engineering. RA9. The student/graduate demonstrates autonomy in learning and adapting to emerging technologies in electrical engineering and applied electronics. RA10. The student/graduate takes responsibility for technical decisions and adheres to ethical principles in the design and integration of intelligent systems. RA11. The student/graduate uses modern methods of numerical and experimental analysis. RA12. The student/graduate autonomously learns about issues related to structural stability, dynamics, and fatigue. RA13. The student/graduate adheres to ethical principles in evaluating the safety of structures. RA14. The student/graduate takes responsibility for decisions regarding the selection of materials and structural solutions. RA15. The student/graduate continuously develops their skills through self-learning and specialized documentation. RA16. The student/graduate demonstrates autonomy in learning and adapting to innovations in the field of production and energy systems. RA17. The student/graduate takes responsibility for technical decisions and adheres to ethical and ecological principles in implementing sustainable solutions.

	A16. The student/graduate evaluates and selects integrated technical solutions for the automation and control of intelligent mechanical systems. A17. The student/graduate examines mechanical structures and selects methods for static, dynamic, and stability analysis. A18. The student/graduate identifies and uses metallic, composite, or polymeric materials in relation to their mechanical and thermomechanical behaviors. A19. The student/graduate evaluates mechanisms of fatigue, fracture, and plastic deformation of structures and proposes solutions to prevent failure. A20. The student/graduate analyzes and optimizes the performance of production systems and energy installations. A21. The student/graduate evaluates and selects sustainable technological solutions based on conventional and renewable resources.	

Rezultatele complementare ale învățării:

Cunoștințe	Aptitudini	Responsabilitate și autonomie
C1. The student/graduate identifies and uses fundamental concepts and structures of an internationally recognized language to understand and express written and oral messages. C2. The student/graduate identifies and applies basic principles and methods of physical education and a healthy lifestyle to maintain and develop physical capacity.	A1. The student/graduate uses fundamental linguistic concepts and structures to understand and produce written and oral texts in an internationally recognized language. A2. The student/graduate communicates in basic academic and professional contexts using terminology specific to an internationally recognized language. A3. The student/graduate applies exercises and training methods to maintain physical fitness and develop motor skills. A4. The student/graduate applies the principles of physical activity and a healthy lifestyle to increase endurance and prevent physical imbalances.	RA1. The student/graduate communicates responsibly and respectfully in internationally recognized languages, adapting the message to the context and audience. RA2. The student/graduate demonstrates autonomy in developing linguistic skills through self-learning and continuous practice. RA3. The student/graduate takes responsibility for maintaining physical fitness and adopting a healthy lifestyle. RA4. The student/graduate actively and cooperatively participates in sports activities, respecting the rules, partners, and team spirit.

Finalități:

Absolvenții programului de studii universitare de licență vor accesa următoarele ocupații posibile conform Clasificării Ocupațiilor din România ISCO-08:

214401 - Mechanical Engineer
214485 - Research engineer in machinery and mechanical installations
214435 - Mechanical Engineer specialist inspector

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Domeniul fundamental **(DFI):** Ştiinţe Inginereşti
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Domeniul de licenta **(DL):** Inginerie Mecanică
Programul de studii - Licenţă: Mechanical Engineering

Cod DFI	CodRSI	CodDL	Cod S	ciclul	c1c2c3	a1a2
20	70	180	50	L	431	26

PLAN DE ÎNVĂŢĂMÂNT
Pentru seria de studenti 2026-2030

ANUL I (2026-2027) — SEMESTRUL 1

1	Mathematical analysis (Analiza Matematica)	L431.26.01.F1	4	E	28	28	0	0	0	DF	44
2	Linear algebra, analytical and differential geometry (Algebra liniara, geometrie analitica si diferentiala)	L431.26.01.F2	4	E	28	28	0	0	0	DF	44
3	Physics (Fizica)	L431.26.01.F3	4	V	28	14	14	0	0	DF	44
4	Materials Science I (Știința și Ingineria Materialelor I)	L431.26.01.F4	5	E	28	0	28	0	0	DF	69
5	Descriptive Geometry and Technical Drawing (Geometrie descriptivă și desen tehnic)	L431.26.01.F5	6	E	42	0	42	0	0	DF	66
6	Chemistry (Chimie)	L431.26.01.F6	4	V	28	0	14	0	0	DF	58
7	Foreign Language 1 (Limbi de circulație internațională 1)	L431.26.01.C7	2	V	0	14	0	0	0	DC	36
8	Sports 1 (Educație fizică 1)	L431.26.01.C8	1	C	0	14	0	0	0	DC	11
9											
10											
11											

total/ sem.	ore didactice: **378**	VPI:	**372**	credite: **30**	evaluări: 4E,3V,1C
total/ săpt.	ore didactice: **27,0**	din care:	13,0 7,0 7,0 0,0	(c, s, l, p)	

ANUL I (2026-2027) — SEMESTRUL 2

1	Special Mathematics (Matematici Speciale)	L431.26.02.F1	4	V	28	28	0	0	0	DF	44
2	Computer programming and programming languages (Programarea calculatoarelor și limbaje de programare)	L431.26.02.F2	5	V	28	0	28	0	0	DF	69
3	Materials Science II (Știința și Ingineria Materialelor II)	L431.26.02.F3	4	E	28	0	14	0	0	DF	58
4	Mechanics I (Mecanică I)	L431.26.02.F4	4	E	28	28	0	0	0	DF	44
5	Materials Technology I (Tehnologia materialelor I)	L431.26.02.F5	4	E	28	0	28	0	0	DF	44
6	Technical Drawing and Infographics (Desen tehnic și infografică)	L431.26.02.F6	6	E	42	0	42	0	0	DF	66
7	Foreign Language 2 (Limbi de circulație internațională 2)	L431.26.02.C7	2	V	0	14	0	0	0	DC	36
8	Sports 2 (Educație fizică 2)	L431.26.02.C8	1	C	0	14	0	0	0	DC	11
9											
10											
11											

total/ sem.	ore: **378**	VPI:	**372**	credite: **30**	evaluări: 4E,3V,1C
total/ săpt.	ore: **27**	din care:	13,0 6,0 8,0 0,0	(c, s, l, p)	

ANUL II (2027-2028) — SEMESTRUL 3

1	Electrotechnics (Electrotehnică)	L431.26.03.F1	4	V	28	0	14	0	0	DF	58
2	Materials Technology II (Tehnologia Materialelor II)	L431.26.03.F2	4	V	28	0	14	0	0	DF	58
3	Strength of Materials I (Rezistența Materialelor I)	L431.26.03.F3	5	E	28	28	14	0	0	DF	55
4	Mechanics II (Mecanică II)	L431.26.03.F4	4	E	28	14	14	0	0	DF	44
5	Thermodynamics I (Termotehnică I)	L431.26.03.F5	4	E	28	14	14	0	0	DF	44
6	Numerical Methods I (Metode Numerice I)	L431.26.03.F6	4	V	28	0	28	0	0	DF	44
7	Mechanisms I (Mecanisme I)	L431.26.03.F7	4	E	28	0	14	14	0	DF	44
8	Sports 3 (Educație fizică 3)	L431.26.03.C8	1	C	0	14	0	0	0	DC	11
9											
10											
11											

total/ sem.	ore: **392**	VPI:	**358**	credite: **30**	evaluări: 4E,3V,1C
total/ săpt.	ore: **28**	din care:	14,0 5,0 8,0 1,0	(c, s, l, p)	

ANUL II (2027-2028) — SEMESTRUL 4

1	Tolerance and Dimensional Control (Toleranțe și Control Dimensional)	L431.26.04.F1	3	V	28	0	14	0	0	DF	33
2	Materials Science III (Știința și Ingineria Materialelor III)	L431.26.04.F2	3	V	28	0	28	0	0	DF	19
3	Strength of Materials II (Rezistența Materialelor II)	L431.26.04.F3	4	E	28	28	14	0	0	DF	30
4	Mechanical Vibrations (Vibrații Mecanice)	L431.26.04.F4	4	E	28	14	14	0	0	DF	44
5	Thermodynamics II (Termotehnică II)	L431.26.04.F5	4	E	28	0	14	0	0	DF	58
6	Fluid Mechanics (Mecanica Fluidelor)	L431.26.04.F6	4	E	28	14	14	0	0	DF	44
7	Mechanisms II (Mecanisme II)	L431.26.04.F7	3	V	28	0	14	14	0	DF	19
8	Sports 4 (Educație Fizică 4)	L431.26.04.C8	1	C	0	14	0	0	0	DC	11
9	Practice 1	L431.26.04.F9	4	C	0	0	0	0	90	DF	10
10											
11											

total/ sem.	ore: **392**	VPI:	**268**	credite: **30**	evaluări: 4E,3V,2C
total/ săpt.	ore: **28**	din care:	14,0 5,0 8,0 1,0	(c, s, l, p)	

Observatii:

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Pentru seria de studenti 2026-2030

	ANUL III (2028-2029)																				ANUL IV (2029-2030)																			
	SEMESTRUL 5											SEMESTRUL 6										SEMESTRUL 7											SEMESTRUL 8									
1	Machine Parts (Organe de Mașini)											Applied Electronics (Electronică Aplicată)										Management of industrial projects (Managementul proiectelor industriale)											Technology and manufacturing elements 2 (Elemente de tehnologie si fabricatie 2)									
	L431.26.05.F1	5	E	42	0	28	0	0	DF	55		L431.26.06.F1	4	E	28	0	28	0	0	DF	44	L431.26.07.S1	4	E	28	0	14	0	0	DS	58		L431.26.08.S1	4	E	28	0	28	0	0	DS	44
2	Fluid Mechanics and Hydraulic Machines (Mecanica Fluidelor și Mașini Hidraulice)											Elective 1 independent (Opțional 1 independent)										Elective 3 independent (Opțional 3 independent)											Modelarea si Simularea Sistemelor Mecanice (Modeling and Simulation of Mechanical Systems)									
	L431.26.05.F2	4	E	28	0	28	0	0	DF	44		L431.26.06.S2-ij	5	E	42	0	28	0	0	DS	55	L431.26.07.S2-ij	5	E	42	0	28	0	0	DS	55		L431.26.08.S2	4	V	28	0	28	0	0	DS	44
3	Hydraulic and Pneumatic Drives and Automation (Acționări și automatizări hidraulice și pneumatice)											Finite Elements Method II (Metoda Elementelor Finite II)										Modal Analysis (Analiza modala)											Elective 5 independent (Opțional 5 independent)									
	L431.26.05.F3	4	E	28	0	28	0	0	DF	44		L431.26.06.F3	4	E	28	0	28	0	0	DF	44	L431.26.07.S3	5	V	28	0	42	0	0	DS	55		L431.26.08.S3-ij	4	E	14	0	14	0	0	DS	72
4	Finite Elements Method I (Metoda Elementelor Finite I)											Machine Learning in mechanical engineering (Machine Learning in ingineria mecanica)										Elective 4 independent (Opțional 4 independent)											Elective 1-packaged (1) (Opțional 1-împachetat (1))									
	L431.26.05.F4	4	E	28	0	28	0	0	DF	44		L431.26.06.S4	4	E	28	0	28	0	0	DS	44	L431.26.07.S4-ij	5	E	42	0	28	0	0	DS	55		L431.26.08.S4-ij	4	E	28	28	0	0	0	DS	44
5	Automation (Automatica)											Technology and manufacturing elements 1 (Elemente de tehnologie si fabricatie 1)										Numerical modeling in fluid mechanics (Modelari numerice in mecanica fluidelor)											Elective 2-packaged (2) (Opțional 2-împachetat (2))									
	L431.26.05.F5	4	V	28	0	28	0	0	DF	44		L431.26.06.S5	5	V	42	0	28	0	0	DS	55	L431.26.07.S5	5	E	42	0	28	0	0	DS	55		L431.26.08.S5-ij	4	V	28	0	14	14	0	DS	44
6	Electric Machines and Drives (Mașini și acționări electrice)											Elective 2 independent (Opțional 2 independent)										Design of innovative products - project (Dezvoltarea de produse inovative - proiect)											Diploma project preparing (Elaborare proiect de diplomă)									
	L431.26.05.F6	5	V	28	0	28	0	0	DF	69		L431.26.06.C6-ij	2	V	14	14	0	0	0	DC	22	L431.26.07.S6	4	V	0	0	0	42	0	DS	58		L431.26.08.S6	10	C	0	0	0	112	60	DS	78
7	Machine Parts - project I (Organe de Masini - proiect I)											Machine Parts - project II (Organe de Masini - proiect II)										Practice 3																					
	L431.26.05.F7	4	V	0	0	0	28	0	DF	72		L431.26.06.F7	4	V	0	0	0	28	0	DF	72	L431.26.07.S7	2	C	0	0	0	0	40	DS	10												
8												Practice 2																						Diploma exam (Examen de diplomă)*									
												L431.26.06.S8	2	C	0	0	0	0	50	DS	0													L431.26.08.S8	10	E						DS	
9																																											
10																																											
11																																											
total/ sem.	ore:	378		VPI:				372				ore:	364		VPI:				336				ore:	364		VPI:				346				ore:	364		VPI:				326		
	credite:	30		evaluări:				4E,3V,0C				credite:	30		evaluări:				4E,3V,1C				credite:	30		evaluări:				4E,2V,1C				credite:	30+10**		evaluări:				4E,2V,1C		
total/ săpt.	ore:	27										ore:	26										ore:	26										ore:	26								
	din care:			13,0	0,0	12,0	2,0	(c, s, l, p)				din care:			13,0	1,0	10,0	2,0	(c, s, l, p)				din care:			13,0	0,0	10,0	3,0	(c, s, l, p)				din care:			9,0	2,0	6,0	9,0	(c, s, l, p)		

* constă din: a. verificarea cunoștințelor fundamentale și de specialitate; b. susținerea lucrării de licență/diplomă.

** Credite suplimentare alocate Examenului de diplomă

Observatii:

Legenda

Nume disciplina									
Cod	nc	FE	c	s	l	p	Pr	CF	VPI

Cod = cod disciplina
nc = nr.credite transferabile
FE = forma de evaluare {E, V, C}
E-examen, V-verificare, C-colocviu

c=nr.ore curs
s=nr.ore seminar
l=nr.ore laborator
p=nr.ore proiect

Pr - volum de ore necesar activitatilor partial asistate / practica
CF=categorie formatiua careia ii apartine disciplina
CF ∈ {DF, DS, DC}
DF - disciplina fundamentala
DS - disciplina de specializare
DC - disciplina complementara

VPI = volum de ore necesar pregatirii individuale

Exemplu

Mathematical analysis (Analiza Matematica)									
Cod	4	E	28	28	0	0	0	DF	44

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Domeniul de licenta **(DL):** Inginerie Mecanică
Programul de studii - Licenţă: Mechanical Engineering

DISCIPLINE OPTIONALE
Pentru seria de studenti 2026-2030

	ANUL I (2026-2027)		ANUL II (2027-2028)	
	SEMESTRUL 1	SEMESTRUL 2	SEMESTRUL 3	SEMESTRUL 4
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				

Nota: Din fiecare dintre grupurile de **Discipline opţionale** se activează un număr de discipline în funcţie de opţiunile studenţilor, de numărul studenţilor şi de acoperirea financiară.

Observatii: (*) - *discipline opţionale activate în anul univ. 2020-2021*

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Programul de studii - Licenţă: Mechanical Engineering

DISCIPLINE OPTIONALE
Pentru seria de studenti 2026-2030

ANUL III (2028-2029)

SEMESTRUL 5

Nr.	Disciplina	Cod									
01											
02											
03											
04											
05											
06											
07											
08											
09											
10											
11											
12											
13											

SEMESTRUL 6

Nr.	Disciplina	Cod									
01	Elective 1 independent (Opțional 1 independent) 1 Mechanics of composite materials (Mecanica materialelor compozite)	L431.26.06.S2-01	5	E	42	0	28	0	0	DS	55
02	Elective 1 independent (Opțional 1 independent) 2 Fatigue of Mechanical Structures (Oboseala Structurilor Mecanice)	L431.26.06.S2-02	5	E	42	0	28	0	0	DS	55
03	Elective 2 independent 1 Ethics and academic integrity (Etică și integritate academică)	L431.26.06.C6-03	2	V	14	14	0	0	0	DC	22
04	Elective 2 independent 2 Culture and civilization (Cultură și civilizatie)	L431.26.06.C6-04	2	V	14	14	0	0	0	DC	22
05											
06											
07											
08											
09											
10											
11											
12											
13											

ANUL IV (2029-2030)

SEMESTRUL 7

Nr.	Disciplina	Cod									
01	Elective 3 independent (Opțional 3 independent) 1 Design of Thermal Equipment (Proiectarea echipamentelor termice)	L431.26.07.S2-01	5	E	42	0	28	0	0	DS	55
02	Elective 3 independent (Opțional 3 independent) 2 Refrigeration and heating installations (Instalații frigorifice și termice)	L431.26.07.S2-02	5	E	42	0	28	0	0	DS	55
03	Elective 4 independent (Opțional 4 independent) 1 Design of Innovative Products (Proiectarea produselor inovative)	L431.26.07.S4-03	5	E	42	0	28	0	0	DS	55
04	Elective 4 independent (Opțional 4 independent) 2 Software tools for Mechanical Engineering - solid body design (Instrumente software in Inginerie Mecanică - design corp solid)	L431.26.07.S4-04	5	E	42	0	28	0	0	DS	55
05											
06											
07											
08											
09											
10											
11											
12											
13											

SEMESTRUL 8

Nr.	Disciplina	Cod									
01	Elective 5 independent (Opțional 5 independent) 1 Experimental methods in mechanical engineering (Metode experimentale în inginerie mecanică)	L431.26.08.S3-01	5	E	42	0	28	0	0	DS	55
02	Elective 5 independent (Opțional 5 independent) 2 Mechanical measurements (Masurari mecanice)	L431.26.08.S3-02	5	E	42	0	28	0	0	DS	55
03	Elective 1-packaged (Opțional 1-împachetat) 1 Special Problems in Strength of Materials (Probleme speciale de rezistenta materialelor)	L431.26.08.S4-03	5	E	42	28	0	0	0	DS	55
04	Elective 1-packaged (Opțional 1-împachetat) 2 Contact mechanics (Mecanica contactului)	L431.26.08.S4-04	5	E	42	28	0	0	0	DS	55
05	Elective 2-packaged (Opțional 2-împachetat) 1 Static and dynamic stability (Stabilitate statica si dinamica)	L431.26.08.S5-05	5	V	28	0	14	14	0	DS	69
06	Elective 2-packaged (Opțional 2-împachetat) 2 Calculation of mechanical structures (Calculul structurilor mecanice)	L431.26.08.S5-06	5	V	28	0	14	14	0	DS	69
07											
08											
09											
10											
11											
12											
13											

Nota: Din fiecare dintre grupurile de **Discipline opţionale** se activează un număr de discipline în funcţie de opţiunile studenţilor, de numărul studenţilor şi de acoperirea financiară.

Observatii: (*) - *discipline opționale activate în anul univ. 2020-2021*

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Universitatea Politehnica Timişoara
Facultatea de Mecanică

Domeniul fundamental **(DFI):** Ştiinţe Inginereşti
Ramura de stiinta **(RSI):** Inginerie Mecanică, mecatronică, Inginerie industrială şi management
Domeniul de licenta **(DL):** Inginerie Mecanică
Programul de studii - Licenţă: Mechanical Engineering

DISCIPLINE OPTIONALE
Pentru seria de studenti 2026-2030

	ANUL III (2028-2029)		ANUL IV (2029-2030)	
	SEMESTRUL 5	SEMESTRUL 6	SEMESTRUL 7	SEMESTRUL 8
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

Nota: Din fiecare dintre grupurile de **Discipline opţionale** se activează un număr de discipline în funcţie de opţiunile studenţilor, de numărul studenţilor şi de acoperirea financiară.

Observatii: (*) - *discipline opţionale activate în anul univ. 2020-2021*

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Programul de studii - Licenţă: Mechanical Engineering

DISCIPLINE FACULTATIVE
Pentru seria de studenti 2026-2030

	ANUL I (2026-2027)																					ANUL II (2027-2028)																				
	SEMESTRUL 1											SEMESTRUL 2										SEMESTRUL 3											SEMESTRUL 4									
01	Psycology of education (Psihologia educației)											Pedagogy I - Fundamentals of pedagogy, curriculum theory and methodology (Pedagogie I Fundamentele pedagogiei teoria și metodologia curiculumului)										Pedagogy II - Theory and methodology of training. Evaluation theory and methodology (Pedagogie II Teoria și metodologia instruirii. Teoria și metodologia evaluării)										Didactics of the specialty (Didactica specilității)									
	L431.26.01.f11-01	5	E	28	28	0	0	0	f			L431.26.02.f11-01	5	E	28	28	0	0	0	f			L431.26.03.f11-01	5	E	28	28	0	0	0	f			L431.26.04.f11-01	2	E	28	28	0	0	0	f	
02												Volunteering (Voluntariat)										Foreign Language 3 (Limbi de circulație internațională 3)										Foreign Language 4 (Limbi de circulație internațională 4)									
												L431.26.02.f11-02	2	V	0	0	0	28	0	f			L431.26.03.f11-02	2	V	0	0	14	0	0	f			L431.26.04.f11-02	2	V	0	0	14	0	0	f	
03																																	Volunteering (Voluntariat)									
																																	L431.26.04.f11-03	2	V	0	0	0	28	0	f	
04																																											
05																																											
total/ sem.	ore:	56		VPI:				0				ore:	84		VPI:				0				ore:	70		VPI:				0				ore:	98		VPI:				0		
	credite:	5		evaluări:				1E,0V,0C				credite:	7		evaluări:				1E,1V,0C				credite:	7		evaluări:				1E,1V,0C				credite:	6		evaluări:				1E,2V,0C		
total/ săpt.	ore:	4										ore:	6										ore:	5										ore:	7								
	din care:			2,0	2,0	0,0	0,0	(c, s, l, p)				din care:			2,0	2,0	0,0	2,0	(c, s, l, p)				din care:			2,0	2,0	1,0	0,0	(c, s, l, p)				din care:			2,0	2,0	1,0	2,0	(c, s, l, p)		

Observatii:

DISCIPLINE FACULTATIVE
Pentru seria de studenti 2026-2030

	ANUL III (2028-2029)																					ANUL IV (2029-2030)																				
	SEMESTRUL 5											SEMESTRUL 6										SEMESTRUL 7											SEMESTRUL 8									
01												Volunteering (Voluntariat)										Transverse course (Curs transversal)											Volunteering (Voluntariat)									
												L431.26.06.f11-01	2	V	0	0	0	28	0	f			L431.26.07.f11-01	4	V	28	28	0	0	0	f	44		L431.26.08.f11-01	2	V	0	0	0	28	0	f	
02												Transverse course (Curs transversal)																																	
												L431.26.06.f11-02	4	V	28	28	0	0	0	f	44																							
03																																												
04																																											
05																																											
total/ sem.	ore:	0		VPI:				0				ore:	84		VPI:				44				ore:	56		VPI:				44				ore:	28		VPI:				0		
	credite:	0		evaluări:				0E,0V,0C				credite:	6		evaluări:				0E,2V,0C				credite:	4		evaluări:				0E,1V,0C				credite:	2		evaluări:				0E,1V,0C		
total/ săpt.	ore:	0										ore:	6										ore:	4										ore:	2								
	din care:			0,0	0,0	0,0	0,0	(c, s, l, p)				din care:			2,0	2,0	0,0	2,0	(c, s, l, p)				din care:			2,0	2,0	0,0	0,0	(c, s, l, p)				din care:			0,0	0,0	0,0	2,0	(c, s, l, p)		

Observatii:

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