DISCIPLINE SYLLABUS

1. GENERAL INFORMATION

1.1. Institution of Higher education	**University of Medicine and Pharmacy of Craiova**
1.2. Faculty	**Faculty of Dentistry**
1.3. Department	**2**
1.4. Study Field	Medicină dentară
1.5. Study Cycle	Licență și master comasat
1.6. Study Program	Medicină dentară (ro)
1.7. Qualification	Doctor medic stomatolog
1.8. Qualification Level	Nivelul 7 CNC/ CEC(EQF)/ ISCED
1.9. Study Form	Zi - cu frecvență

2. DISCIPLINE INFORMATION

2.1. Discipline Name					**BIOTOOLS**			
2.2. Holder of Lecture Activities					**Associate Professor dr. DIACONU OANA ANDREEA**			
2.3. Holder of Laboratory Activities					**Associate Professor**. Dr. DIACONU OANA			
2.4. Year of Study	2	**2.5. Semester**	4	**2.6. Type of Evaluation**	EC ES (VP, C)	**2.7. Regime of discipline**	**Formative Category**	DS - disciplină de specialitate
							Discipline Status	DOP - opțională
2.8 Codul disciplinei					**MD2220.1**			

3. ESTIMATED TOTAL TIME (teaching hours per semester)

3.1 Number of hours per week	3	**3.2. From which: lecture:**	1	**3.3. Laboratory**	2
3.4. Total hours in curriculum	42	**3.5. From which: lecture:**	14	**3.6. Laboratory**	28
3.7. Additional preparation hours through teaching activities (projects, research, and work visits, etc.)					-
3.8.Examinări					1
3.9. Total teaching hours					**43**
3.10. Individual study hours					
3.10.1 Study from manual, course support, references and notes					10
3.10.2 Additional documentation in the library, specialized electronic platforms, and on the field					18
3.10.3. Seminars/Labs preparation					5
3.10.4. Preparation of homework, reports, portfolios, and essays					-
3.10.5. Preparation for presentations or assessments; preparation for final evaluation					14
3.10.6. Other activities: counselling, student scientific programs					-
3.11. Total hours of individual study					**47**
3.12. Total hours per semester (teaching hours + individual study hours)					**90**
3.13. Number of credits (1 credit=25 hours)					**3**

4. PREREQUISITES

4.1 curriculum	Completion and/or promotion of the following fundamental and specialized disciplines, which provide the necessary theoretical and practical basis: anatomy, biophysics, biochemistry, physiology, computer science
4.2 competency	**At the beginning of the Bioinstrumentation course, the student must demonstrate the following minimum competencies:**

	Knowledge of the notions regarding electricity, magnetism, radiation, biological signals Knowledge of anatomical areas and anatomical structures for correlating the instrumentation with the investigated biological structures; Infection Control and Asepsis Basics Working under supervision and following the teacher's instructions

5. CONDITIONS

5.1. of lecture deployment	-In order to participate in the course-type teaching activity, students must know and comply with the provisions contained in: UMFCV Charter, Teaching and Professional Activity Regulations for Students, Internal Regulations of the discipline, Student Examination Methodology, UMFCV Code of Ethics and Deontology - Amphitheater with projection system - During the course, students will have their mobile phones turned off. It is forbidden to take photos/recordings during the course, without the teacher's consent
5.2. of laboratory deployment	- The clinical laboratories take place in properly equipped spaces: **room 404 in Building B, 4th floor** - Attendance at laboratories is mandatory and conditioned by wearing specific equipment; - Clinical internships are organized by groups of students, according to the schedule. It is not allowed to carry out the clinical internship with a group other than the one in which the student is registered - The provisions of the teaching and professional activity regulations of the students and of the internal regulations of the discipline will be strictly observed - The aim is to rigorously comply with the rules of hygiene, safety and professional conduct - During the clinical internships, students will have their mobile phones turned off. It is forbidden to take photos/recordings during practical activities, without the teacher's consent - The students' delay and access after the start of the teaching activity is not accepted, as they influence its development

6. COMPETENCIES

By completing this course, the student will develop the following professional and transversal competencies, in accordance with the list of competencies specified by the CNC/CEC (EQF), aligned with the European ESCO framework and the ARACIS 2026 standards.	
6.1. Profesional Competencies	C2 – Conservative therapy of the odonto-periodontal structures
6.2. Transversal Compentencies	CT1 – Identification of the objectives to be achieved, the available resources, the conditions for their completion, the work stages, the working times, the related deadlines and the related risks CT2 – Identifying roles and responsibilities in a multidisciplinary team and applying techniques for networking and efficient work within the team and in relation to the patient CT3 – Efficient use of information sources and resources of communication and assisted professional training (Internet portals, specialized software applications, databases, online courses, etc.) both in Romanian and in an international language

7. DISCIPLINE OBJECTIVES

7.1. General objective of the course:	Familiarizing the student with the notions regarding the development of dental medical equipment and instruments, installation, service and operating principles of medical equipment used in dentistry, operation of advanced medical equipment
7.2. Specific objectives (SO):	**SO1**: Acquire theoretical and practical knowledge regarding **the principles of operation and use of bioinstrumental equipment** in all dental clinical specialties. **SO2**:Correct application of the equipment in **endodontics, prosthetics, dento-alveolar surgery, implantology, periodontology and dentistry**, adapting the parameters to the clinical situation.

	SO3:Compliance with **safety norms and ethical principles**, ensuring patient protection and professional responsibility. **SO4**: Integration **of instrumental data into clinical decision** making and use of digital tools to optimize treatment plans.

8. LEARNING OUTCOMES

8.1. Knowledge (CU)	The student/graduate accumulates, describes and differentiates specialized knowledge about the materials, instruments, appliances and equipment used in dentistry. **By completing the Biotools discipline, the student will be able to:** **CU1:** to know and explain the operating principles of bioinstrumental equipment used in dentistry, including endodontics, prosthetics, dento-alveolar surgery, implantology, periodontology, dental therapy, dental radiology. **CU2:** write down the types of biosignals and biological parameters relevant to dental practice **CU3:** to recognize the role of bioinstrumentation in diagnosis, monitoring and clinical research. **CU4:** identify the clinical applications of the equipment and their limits of use. **CU5:** Understand the rules of safety, protection and ethics in the use of medical equipment.
8.2. Skilss (AP)	The student/graduate applies the following notions regarding the materials, appliances and work equipment specific to the dental office. **By completing the Biotools discipline, the student will demonstrate the ability to:** **AP1:** correctly use the dental bioinstrumentation equipment used for diagnosis and treatment in different clinical specialties according to the work protocols; **PA2:** interpret the data obtained and identify any measurement errors; **.** **AP3:** Identify and correct **measurement errors** and technical limitations of equipment
8.3. Responsibility and Autonomy (RA)	The student/graduate uses properly and responsibly the materials, appliances and work equipment specific to the dental office. **By going through the Bioinstrumentation discipline, the student will prove that:** **RA1:** shows professional responsibility in the use of medical technologies; **RA2**: complies with ethical, safety and good practice rules; **RA3:** collaborates effectively in interdisciplinary teams; **RA4**: maintains **curiosity and interest in new technologies**, continuously updating their knowledge.

9. CONȚINUTURI ȘI ORGANIZAREA ACTIVITĂȚII DE PREDARE-ÎNVĂȚARE

The teaching-learning process includes explanatory methods (lecture), demonstrative (demonstration, modeling), interactive (guided questions, debates), but also practical applications through exercises, clinical papers or simulations. The active participation of students, team collaboration, use of digital platforms and learning through problem solving are encouraged. The methods are adapted to the specifics of the discipline and support the development of critical thinking, professional autonomy and technical skills.

9.1. CURS	Timp alocat (ore)	Metode de predare	Observații
1. **Introduction to biotools** The role of biotools in dentistry. Classification of medical equipment and devices; General principles of operation and safety.	*1 h*	Interactive lectures / conversation / brainstorming / exemplification through short presentations of clinical cases / guided questions and brainstorming for knowledge activation / debate	*Oral presentations with PowerPoint support and didactic videos.* *Formative evaluation through a number of 5 grids adapted to the course topic*
2. **Relevant biosignals in dentistry** (electrical biosignals (EMG, muscle potentials); mechanical biosignals (mandibular movements, occlusal forces); thermal and acoustic biosignals.	*1 h*	Interactive lectures / conversation / brainstorming / exemplification through short presentations of clinical cases / guided questions	*Oral presentations with PowerPoint support and didactic videos.* *Formative evaluation through a number of 5 grids adapted to the course topic*
3. **Sensors and transducers used in dentistry** Practical applications in dentistry.	*1 h*	Interactive lectures / conversation / brainstorming / exemplification through short	*Oral presentations with PowerPoint support and didactic videos.*

(pressure and occlusal force sensors; electrodes for electromyography; optical and piezoelectric sensors; transducers used in CAD/CAM systems and intraoral scanners)		presentations of clinical cases / guided questions	*Formative evaluation through a number of 5 grids adapted to the course topic*
4. **Bioitools in Restorative Dentistry** Light curing lamp: principles and parameters. Caries detection devices (fluorescence, laser), Dental laser for restoration, Integrated irrigation and suction systems	*1 h*	Interactive lectures supported by PowerPoint presentations / conversation / brainstorming / exemplification through short presentations of clinical cases with the use of restorative dental therapy equipment / directed questions	*Oral presentations with PowerPoint support and didactic videos.* *Formative evaluation through a number of 5 grids adapted to the course topic*
5.Biotools in endodontics Apex locator and endodontic micromotor. Integrated systems and electronic feedback. Patient safety and equipment limitations	*1 h*	Interactive lectures supported by PowerPoint presentations / conversation / brainstorming/ exemplification through short presentations of clinical cases with the use of endodontic equipment	*Oral presentations with PowerPoint support and didactic videos.* *Formative evaluation through a number of 5 grids adapted to the course topic*
6. Bioitools n in prosthetics Intraoral scanners and CAD/CAM systems Electronic Facial Springs & Digital Articulators Computerized Occlusal Analysis (T-Scan) Systems	*1 h*	Interactive lectures supported by PowerPoint presentations / conversation / brainstorming / exemplification through short presentations of clinical cases with the use of dental prosthetic equipment	*Oral presentations with PowerPoint support and didactic videos.* *Formative evaluation through a number of 5 grids adapted to the course topic*
7.Bioinstrumentation in periodontology Ultrasonic and Dental Laser Appliances. Dental Mobility Assessment Systems. Clinical Applications and Patient Safety	*1 h*	Interactive lectures supported by PowerPoint presentations / conversation / brainstorming / exemplification through short presentations of clinical cases with the use of periodontology equipment	*Oral presentations with PowerPoint support and didactic videos.* *Formative evaluation through a number of 5 grids adapted to the course topic*
8. Biotools in dento-alveolar surgery Surgical units and electronic speed control. Piezosurgery and ultrasonic devices. Monitoring of the patient's vital functions	*1 h*	Interactive lectures supported by PowerPoint presentations / conversation / brainstorming / exemplification through short presentations of clinical cases with the use of dento-alveolar surgery equipment	*Oral presentations with PowerPoint support and didactic videos.* *Formative evaluation through a number of 5 grids adapted to the course topic*
9.Biotools in implantology Surgical Motors for Implants. Digital Surgical Guidance Systems. Implant Stability Measurement (ISQ)	*1 h*	Interactive lectures supported by PowerPoint presentations / conversation / brainstorming / exemplification through short presentations of clinical cases with the use of implantology equipment	*Oral presentations with PowerPoint support and didactic videos.* *Formative evaluation through a number of 5 grids adapted to the course topic*
10. Dental Imaging Instrumentation (2D, 3D)	*1 h*	Interactive lectures supported by PowerPoint presentations / conversation / brainstorming / exemplification through short	*Oral presentations with PowerPoint support and didactic videos.*

		presentations clinical situations in which 2D, 3D imaging is used	*Formative evaluation through a number of 5 grids adapted to the course topic*
11. Safety and protection in the use of medical equipment electrical safety; patient and operator protection; norms and standards in the use of medical equipment	*1 h*	Interactive lectures supported by PowerPoint presentations/ conversation/ problematization/ evidence-based strategies	*Oral presentations with PowerPoint support and didactic videos.* *Formative evaluation through a number of 5 grids adapted to the course topic*
12. Clinical applications and interpretation (correlation of instrumental data with clinical examination; limits and indications of instrumental methods; The role of bioinstrumentation in diagnosis and treatment plan.)	*2 h*	Interactive lectures supported by PowerPoint presentations/ conversation/ problematization/ exemplification through short presentations of clinical cases/evidence-based strategies	*Oral presentations with PowerPoint support and didactic videos.* *Formative evaluation through a number of 5 grids adapted to the course topic*
Total	**14h/ sem**		

MANDATORY REFERENCES

1. Suportul de curs de pe platforma "www.student.umfcv.ro"
2. Ritter, T. – *Dental Instrumentation and Equipment: Principles and Practice*, Elsevier, 2018
3. Tylman's *Dental Materials in Clinical Practice*, 10th Edition, Elsevier, 2018
4. John G. Webster – *Medical Instrumentation: Application and Design*, 5th Edition, Wiley, 2010

OPTIONAL REFERENCES:

1.M.A. Margolis – *Digital Dentistry: Challenges and Opportunities*, Springer, 2020
2.Online and video resources: Official manufacturers' tutorials: apex locator, CAD/CAM scanners, dental lasers. Continuing education platforms: DentalXP, Webdental, ADA (American Dental Association) courses, YouTube – official academic channels with dental equipment demonstrations (verified sources only).

9.2. LABORATORIES	Time allocated (hours)	Teaching methods and continuous evaluation (EC)	Practical activity performed by students
1. Introduction to dental bioinstrumentation equipment: identification and characterization of its main components.	*2h*	Demonstration. Conversation Presentation of didactic videos ❁ EC by assessing the degree of involvement during practical work	*Type of activity:* observational, presentation of equipment used in a dental office *Degree of involvement:* individual, team, assisted *Instruments used:* dental unit, apex locator, micromotor, photo lamp, intraoral scanner *Objective of the activity* - the student will develop the following competences through this activity: C2, CT 1, CT2, CT 3,
2. Acquisition and interpretation of functional biosignals (EMG, kinesiography, axiography).	*2h*	Conversation.Interactive discussion with the group teacher; Use of audiovisual educational materials ❁ EC by assessing the degree of	*Activity type: analysis of data obtained from records.* *Degree of involvement:* individual, team, assisted *Instruments used:* EMG electrodes, Tscan., analysis software, laptop, monitor *Objective of the activity* - the student will develop the following competences through this activity: C2, CT 1, CT2, CT 3,

		involvement during practical work	
3. Use of the apex locator and endodontic micromotor in clinical simulations	*2h*	Demonstration Use of audiovisual educational materials ❁ EC by assessing the degree of involvement during practical work	*Type of activity:* Simulation of the determination of the working length and instrumentation of the root canals with the help of the apex locator and endodontic micromotor *Degree of involvement:* assisted *Instruments used:* extracted teeth/endoblocks, manual and rotary instruments for canal enlargement, endodontic micromotors, endodontic rulers, washing fluid, luerlack syringes, irrigation needles *Objective of the activity* - the student will develop through this activity the following competences: C2, CT 1, CT2
4. Intraoral scanning and manipulation of CAD/CAM data; testing of digital articulators.	*2h*	Demonstration Interactive discussion with the group guide Use of audiovisual educational materials ❁ EC by assessing the degree of involvement during practical work	*Type of activity: model fingerprint simulation*, *Degree of involvement:* individual, team, assisted *Tools used:* intraoral scanner, CAD/CAM software, laptop, monitor *Objective of the activity* - the student will develop through this activity the following skills:. C1, CT1, CT2.
5. Analysis of occlusal forces with T-Scan.	*2h*	Demonstration Interactive discussion with the group teacher Use of audiovisual educational materials ❁ EC by assessing the degree of involvement during practical work	*Activity type: analysis of data obtained from records.* *Degree of involvement:* individual, team, assisted *Instruments used:* Tscan., occlusal force analysis software, laptop, monitor *Objective of the activity* - the student will develop the following competences through this activity: C2, CT 1, CT2, CT 3
6. Applications with surgical units and Piezosurgery on experimental models.	*2h*	Demonstration Interactive discussion with the group teacher Use of audiovisual educational materials ❁ EC by assessing the degree of involvement during practical work	***Type of activity:*** observational, presentation of equipment used in implantology ***Degree of involvement****:* assisted ***Tools used****:* dental unit, piezo-surgery, training models, laptop, monitor *Objective of the activity* - the student will develop through this activity the following skills: C2, CT1, CT2, CT3

7. Implant stability assessment and surgical guidance simulation	*2h*	Demonstration Interactive discussion with the group teacher Use of audiovisual educational materials EC by assessing the degree of involvement during practical work	*Type of activity*: observational, presentation/viewing of demonstrative videos of the equipment used in implantology before and after implant insertion *Degree of involvement:* assisted *Instruments used:* surgical micromotor, surgical guide *Objective of the activity* - the student will develop through this activity the following competences: C2, CT1, CT2
8. The use of ultrasound and laser machines in periodontology	*2h*	Demonstration Interactive discussion with the group teacher Use of audiovisual educational materials EC by assessing the degree of involvement during practical work	*Type of activity:* presentation of the equipment used in periodontology, simulation by the teacher of the ultrasound scaling workmanship group. *Degree of involvement:* assisted *Instruments used:* phantom with dental arches and artificial tartar, ultrasonic device, laptop, monitor *Objective of the activity* - the student will develop through this activity the following competences: C1, C2, CT1, CT2
9. Measuring and adjusting the intensity of the light curing lamp; testing the curing efficiency	*2h*	Demonstration Interactive discussion with the group teacher Use of audiovisual educational materials EC by assessing the degree of involvement during practical work	*Type of activity*: practical demonstrations of polymerization of composite materials *Degree of involvement:* individual, in assisted team *Tools used*: composite material, light-curing lamp, working models, dental spatulas *Objective of the activity* - the student will develop through this activity the following competences: C1, C2, CT1, CT2
10. Use of the device for caries detection (fluorescence / laser) on dental models.	*2h*	Demonstration Interactive discussion with the group teacher Use of audiovisual educational materials EC by assessing the degree of involvement during practical work	*Type of activity:* observational, presentation of the equipment used for the early detection of dental caries *Degree of involvement:* individual, group, assisted *Tools used:* presentation images of various detection devices, preoperative images of clinical cases from the discipline's archive, laptop, CS software, monitor *Objective of the activity* - the student will develop through this activity the following competences: C2, CT1, CT2, CT3

11. Testing and adjustment of integrated irrigation and suction systems	*2h*	Demonstration Interactive discussion with the group teacher Use of audiovisual educational materials ❁ EC by assessing the degree of involvement during practical work	*Type of activity:* observational, presentation of the equipment used for suction in a dental office *Degree of involvement:* assisted *Tools used:* presentation images of different vacuum cleaners, laptop, monitor *Objective of the activity* - the student will develop through this activity the following competences: C2, CT1, CT2, CT3
12. Dental Imaging Tools (2D, 3D)	*2h*	Interactive discussion with the group teacher Use of audiovisual educational materials ❁ EC by assessing the degree of involvement during practical work	*Type of activity:* observational, presentation of the equipment used for 2D, 3D dental X-rays, visualization of 2D, 3D radiological images in different clinical situations, comparison of images *Degree of involvement:* assisted *Instruments used:* dental x-rays, CBCT software, laptop, monitor, *Objective of the activity* - the student will develop through this activity the following skills: C2, CT1, CT2, CT3
13. Processing and filtering of biological signals; identification of errors and validation of equipment	*2h*	Interactive discussion with the group teacher Use of audiovisual educational materials ❁ EC by assessing the degree of involvement during practical work	*Activity type: analysis of data obtained from records.* *Degree of involvement:* individual, assisted *Tools used:* laptop, monitor *Objective of the activity* - the student will develop through this activity the following skills: C2, CT 1, CT2, CT 3.
14. Application of safety and ethical rules in the use of all the devices studied	*2h*	Interactive discussion with the group teacher Use of audiovisual educational materials ❁ EC by assessing the degree of involvement during practical work	*Type of activity: analysis of data on safety rules in the use of the studied devices* *Degree of involvement:* individual, assisted *Tools used:* All previously studied devices, PPE laptop protective equipment, monitor *Objective of the activity* - the student will develop through this activity the following skills: C2, CT 1, CT2, CT 3.
Total	**28 hours / sem.**		

MANDATORY BIBLIOGRAPHY:

1. Suportul de curs de pe platforma ”www.student.umfcv.ro”

2. Ritter, T. – *Dental Instrumentation and Equipment: Principles and Practice*, Elsevier, 2018
3. Tylman's *Dental Materials in Clinical Practice*, 10th Edition, Elsevier, 2018
4. John G. Webster – *Medical Instrumentation: Application and Design*, 5th Edition, Wiley, 2010
OPTIONAL BIBLIOGRAPHY:
1.M.A. Margolis – *Digital Dentistry: Challenges and Opportunities*, Springer, 2020
2.Resurse online și video:Tutoriale oficiale ale producătorilor: apex locator, scanere CAD/CAM, lasere dentare. Platforme de educație continuă: DentalXP, Webdental, cursuri ADA (American Dental Association),YouTube – canale academice oficiale cu demonstrații de echipamente stomatologice (doar surse verificate).

10. CORRELATION OF THE DISCIPLINE'S OBJECTIVES AND EXPECTED LEARNING OUTCOMES WITH THE EXPECTATIONS OF INTERESTED PARTIES

- The knowledge, practical skills and attitudes learned in this discipline provide the basis for medical reasoning and future clinical activities. In order to sketch, permanently update the contents of the clinical courses/internships and to choose the teaching/learning methods, the holder of the discipline organizes meetings with members of the Romanian College of Dentists, specialists in the field of instruments and equipment used in dental offices, potential employers, as well as with other teachers in the field, tenured in other higher education institutions. The meetings aim to identify the needs and expectations of employers in the field and to coordinate with other similar programs within other dental higher education institutions.

11. PROGRAME DE RECUPERARE ȘI STIMULARE A MOTIVAȚIEI ÎNVĂȚĂRII

11.1 Programe de recuperare					
Activity Type	**Number of Recoverable Absences**	**Place of Conduct**	**Period**	**Responsible**	**Topic Schedule**
Absences recoveries	**3**	Endodontics Clinic	The Last 2 Weeks of the Semester	Head of Discipline	According to the discipline timetable
Consultation schedule	1hour/week.	Endodontics Clinic	Saptamanal	Head of Discipline	According to the discipline timetable
Program for Under-Prepared Students	4hours/semester	Endodontics Clinic	Ultimele două săptămâni	Head of Discipline	According to the students' needs
11.2. Stimulation of Learning Motivation Programs					
	Name of Scientific Club / Scientific Topics		**Place of Conduct**	**Period**	**Responsible**
Student Scientific Club					
Scientific Projects / Report					
Workshops	1. Held within the Dentisity student congress and the Interdentis program 2. Carried out before the summer practice to familiarize the 1st year students with instruments and equipment from the dental office		Building B, floor 4, room 404	1.November/ April 2. July	Teachers who support the activity in the discipline of Endodontics
Student Competitions					
Other Activities					

12. EVALUATION

Activity Type	**12.1. Evaluation Criteria**	**12.2. Evaluated Learning Outcomes**	**12.3. Evaluation Methods**	**12.4. Percentage**

				of the Final Grade
12.5. Course	Accuracy of responses to multiple-choice questions	The following codes will be respected: CU1, CU2, CU3, CU4, CU5, RA2, RA4	***Multiple-choice test (30 questions)***	80%
12.6. Laboratories	Explanation of clinical or technical reasoning	The codes will be respected: CU1, CU2, CU3, CU4,CU5, AP1-AP3, RA1 – RA4	Discussing a clinical situation and indicating the types of devices needed to solve it	10%
12.7. Activity During the Semester	Ability to provide well-founded arguments and explanations of theoretical concepts; Clarity of expression and logical organization of information; Ability to synthesize and integrate knowledge acquired from the topics covered; Active attendance and participation in all practical activities; Compliance with hygiene, ethical, and occupational safety standards.	Vor fi respectate codurile: CU1-CU5, AP1-AP3, RA1 – RA4	*Assessment of internship performance by the group teacher* *Assessment of attendance and engagement during practical work*	10%
12.8. Minimum Performance Standard	The student demonstrates the ability to: • Acquisition of theoretical and practical knowledge regarding the principles of operation and use of bioinstrumental equipment in all dental clinical specialties			
12.9. Promotion conditions	In order to be considered promoted, the student **must cumulatively meet** the following conditions: 1. to have 100% attendance at clinical laboratories or in case of accumulation of absences they should be fully recovered, within the limit of the maximum number allowed; 2. to obtain a minimum grade of 5 (five) in the theoretical evaluation 3. to obtain a minimum grade of 5 (five) in the practical evaluation 4. to comply with the university regulations on academic conduct and not to have been involved in evaluation fraud.			

Date of Department Approval:

18.09.2026

Departament director,
Prof. univ Dr. Mihaela Ţuculina Jana

Program Coordinator,
Prof. univ Dr. Adrian CAMEN

Course Coordinator,
Assoc Professor Dr. Oana Andreea Diaconu