

### DOCTOR OF DENTAL SURGERY (PRACTICING DOCTORATE)

#### Main Language of Instruction:

French ☒ English ☐ Arabic ☐

**Campus Where the Program Is Offered:** CSM

#### OBJECTIVES

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The Faculty of Dental Medicine at the Saint Joseph University of Beirut is dedicated to training future oral health professionals. Its primary goal is to provide high-quality education, combining theoretical knowledge and practical skills, training students to become competent and ethical dentists. The Faculty aims to transmit knowledge in biomedical sciences, oral anatomy, dental pathology, and diagnostic techniques. It also aims to develop students' advanced clinical skills, enabling them to prevent and diagnose dental diseases and plan and execute complex dental treatments.

In addition to academic training, the faculty promotes scientific research in dental medicine. Students are encouraged to participate in research projects, thus contributing to the advancement of knowledge and the improvement of clinical practices. This research often leads to new techniques, technologies, and treatment methodologies that directly benefit dental care.

Alongside its educational and research roles, the Faculty of Dental Medicine houses a Dental Care Center that offers clinical services to the local community. It provides a practical environment for students in clinical training, and aims to provide quality dental care, promoting oral health, and raising awareness about the importance of preventive care. By integrating clinical practice into the educational environment, the Faculty aims to ensure that students gain significant practical experience while addressing the oral health needs of the community.

#### PROGRAM LEARNING OUTCOMES (COMPETENCIES)

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- Apply knowledge from fundamental medical and technological sciences in dental practice.
- Plan a dental treatment based on diagnosis and prognosis, taking into account the patient's psychological and socio-economic conditions.
- Provide preventive and curative dental care tailored to individual patient needs.
- Communicate effectively with all stakeholders in the dental profession.
- Manage a dental office following ergonomic, safety, and asepsis standards recommended by international health authorities.
- Practice dentistry in accordance with ethical principles, jurisprudence, and professional ethics.
- Take charge of professional development and foster an analytical and innovative mindset.
- Participate in the improvement of public oral health in accordance with national and international health policies and with a community-oriented perspective.

#### PROGRAM REQUIREMENTS

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**300 credits: Required courses (282 credits), Institution's elective courses (12 credits), Open elective courses (6 credits) and USJ General Education Program (33 credits - may be part of the above categories).**

##### Fundamental Courses (294 Cr.)

##### Required Courses (282 Cr.)

Voluntary and Citizen Action (2 Cr.). Article Analysis (1 Cr.). Dental Anatomy 1 (1 Cr.). Dental Anatomy 2 (1 Cr.). General Human Anatomy 1 (2 Cr.). General Human Anatomy 2 (2 Cr.). General Human Anatomy 3 (2 Cr.). Topographic General Human Anatomy: Head and Neck (2 Cr.). Pathological Anatomy (2 Cr.). General and Ambulatory Anesthesia (1 Cr.). Local Anesthesia + Exodontics (2 Cr.). Medical and Dental English 1 (1 Cr.). Medical and Dental English 2 (2 Cr.). Application of New Digital and Artificial Technologies (1 Cr.). Fundamental and Therapeutic Orthodontics + Clinic (3 Cr.). Metabolic and Clinical Biochemistry (2 Cr.). Structural Biochemistry (2 Cr.). Cell Biology (2 Cr.). Molecular Biology (1 Cr.). General Chemistry (2 Cr.). Organic Chemistry (2 Cr.). Oral Surgery (2 Cr.). Oral Surgery Clinic 1 (1 Cr.). Oral Surgery Clinic 2 (1 Cr.). Oral Surgery Clinic 3 (2 Cr.). Oral Surgery Clinic 4 (1 Cr.). Pediatric Dentistry Clinic 1 (2

Cr.). Pediatric Dentistry Clinic 2 (2 Cr.). Restorative Dentistry Clinic 1 (Multidisciplinary Mode) (2 Cr.). Restorative Dentistry Clinic 2 (Multidisciplinary Mode) (2 Cr.). Restorative Dentistry Clinic 3 (Multidisciplinary Mode) (2 Cr.). Restorative Dentistry Clinic 4 (Multidisciplinary Mode) (2 Cr.). Endodontics Clinic 1 (Multidisciplinary Mode) (3 Cr.). Endodontics Clinic 3 (Multidisciplinary Mode) (3 Cr.). Endodontics Clinic 4 (Multidisciplinary Mode) (3 Cr.). Endodontics Clinic 2 + Lab (Multidisciplinary Mode) (3 Cr.). Oral Medicine Clinic 1 (Multidisciplinary Mode) (1 Cr.). Oral Medicine Clinic 2 (Multidisciplinary Mode) (2 Cr.). Oral Medicine and Radiology Clinic (1 Cr.). Oral Medicine and Radiology Clinic 1 (Multidisciplinary Mode) (1 Cr.). Oral Medicine and Radiology Clinic 2 (Multidisciplinary Mode) (1 Cr.). Orthodontics Clinic 1 (1 Cr.). Orthodontics Clinic 2 (1 Cr.). Periodontology Clinic 1 (Multidisciplinary Mode) (2 Cr.). Periodontology Clinic 2 (Multidisciplinary Mode) (2 Cr.). Periodontology Clinic 3 (Multidisciplinary Mode) (2 Cr.). Periodontology Clinic 4 (Multidisciplinary Mode) (2 Cr.). Removable Prosthesis Clinic 1 (2 Cr.). Removable Prosthesis Clinic 2 (2 Cr.). Fixed Prosthesis Clinic 1 (3 Cr.). Fixed Prosthesis Clinic 2 (3 Cr.). Fixed Prosthesis Clinic 4 (3 Cr.). Fixed Prosthesis Clinic 3 + Occlusion (Multidisciplinary Mode) (3 Cr.). Radiology Clinic 1 (1 Cr.). Radiology Clinic 2 (1 Cr.). Accounting and Introduction to Financial Statements (1 Cr.). Infection Control and Ergonomics (1 Cr.). Community Dentistry (1 Cr.). Digital Dentistry (1 Cr.). Digital Dentistry and Artificial Intelligence (1 Cr.). Restorative Dentistry (1 Cr.). Restorative and Aesthetic Dentistry 1 (1 Cr.). Restorative and Aesthetic Dentistry 2 (1 Cr.). Dental Development and Histology 1 (2 Cr.). Dental Development and Histology 2 (1 Cr.). Research Protocol Development (1 Cr.). Endodontics 1 (2 Cr.). Endodontics 2 (1 Cr.). Endodontics 3 (2 Cr.). Lebanese Issues (in Arabic) (2 Cr.). Environment and Biodiversity (1 Cr.). Epidemiology and Applied Biostatistics in Dentistry (1 Cr.). Ethics and Dentistry (2 Cr.). Fundamental Ethics (2 Cr.). Expression and Communication 1 (2 Cr.). Expression and Communication 2 (2 Cr.). Conflict Management in the Medical-Dental Field (2 Cr.). Management of Health Facilities & Economy (2 Cr.). Stress and Communication Management in the Dental Office (1 Cr.). Practical and Operational Management of the Dental Office (1 Cr.). Hematology and Immunology (2 Cr.). Histology (2 Cr.). Surgical Implantology (1 Cr.). Applied Informatics in Dentistry (2 Cr.). Introduction to Research in Dentistry (1 Cr.). Innovation + Lab 1 (1 Cr.). Innovation + Lab 2 (1 Cr.). Artificial Intelligence and Digital Technologies in the Medical Field (1 Cr.). Radiological Interpretation (1 Cr.). Introduction to Multidisciplinary Clinic (1 Cr.). Introduction to Bibliographic Research (1 Cr.). Multidisciplinary Geriodontology (1 Cr.). Coaching Approach to Career Success (2 Cr.). Legislation on Dental Practice in Lebanon (in Arabic) (1 Cr.). Fundamentals of Financial Analysis (1 Cr.). USJ Values in Daily Life (2 Cr.). Dental Materials 1 (1 Cr.). Dental Materials 2 (1 Cr.). Dental Materials 3 (1 Cr.). Mathematics (2 Cr.). Forensic Medicine (1 Cr.). Thesis and Defense (4 Cr.). Scientific Writing Methodology (1 Cr.). General Microbiology (2 Cr.). Specific Microbiology and Oral Microbiology + Lab (3 Cr.). Clinical Observation 1 (1 Cr.). Clinical Observation 2 (2 Cr.). Clinical Observation 3 (2 Cr.). Clinical Observation 4 (2 Cr.). Occlusodontics 1 (1 Cr.). Occlusodontics 2 (1 Cr.). Pediatric Dentistry 1 (1 Cr.). Pediatric Dentistry 2 (1 Cr.). Professional Organization (in Arabic) (1 Cr.). Periodontology 1 (2 Cr.). Periodontology 2 (2 Cr.). Dental Pathology 1 (2 Cr.). Dental Pathology 2 (2 Cr.). Maxillofacial Pathology and Surgery (1 Cr.). Oral and Surgical Pathology (2 Cr.). Pharmacology (2 Cr.). Physiology 1 (2 Cr.). Physiology 2 (1 Cr.). Special Physiology (3 Cr.). Physics (2 Cr.). Portfolio (2 Cr.). Case Presentation (2 Cr.). Interprofessional Clinical Case Presentation (1 Cr.). Oral, Written, and Portfolio Probation (3 Cr.). Thesis Project (1 Cr.). Removable Prosthesis 1 (1 Cr.). Removable Prosthesis 2 (1 Cr.). Removable Prosthesis 3 (2 Cr.). Removable Prosthesis (2 Cr.). Fixed Prosthesis (1 Cr.). Fixed Prosthesis Plural (2 Cr.). Fixed Prosthesis Course (1 Cr.). Implant Prosthesis + Lab (2 Cr.). Medical Psychology (1 Cr.). Public Speaking (1 Cr.). Radiology and Radioprotection (2 Cr.). Problem Solving APP 1 (2 Cr.). Problem Solving APP 2 (1 Cr.). Clinical Rotation (2 Cr.). Pathological Semiotics 1 (1 Cr.). Pathological Semiotics 2 (2 Cr.). Emergency Care 1 (in Arabic) (1 Cr.). Emergency Care 3 (in Arabic) (1 Cr.). Emergency Care 2 + Lab (in Arabic) (1 Cr.). Dental Anatomy Lab 1 (2 Cr.). Dental Anatomy Lab 2 (2 Cr.). Pathological Anatomy Lab (1 Cr.). Biology + Histology Lab (1 Cr.). Community Lab (1 Cr.). Digital Dentistry Lab (1 Cr.). Restorative Dentistry Lab 1 (1 Cr.). Restorative Dentistry Lab 2 (1 Cr.). Restorative Dentistry Lab 3 (2 Cr.). Restorative Dentistry Lab 4 (3 Cr.). Dental Development and Histology Lab (1 Cr.). Endodontics Lab 1 (2 Cr.). Endodontics Lab 2 (2 Cr.). Ergonomics and Infection Control Lab (2 Cr.). Occlusodontics Lab (1 Cr.). Pediatric Dentistry Lab (1 Cr.). Periodontology Lab (1 Cr.). Removable Prosthesis Lab 1 (2 Cr.). Removable Prosthesis Lab 2 (1 Cr.). Removable Prosthesis Lab 3 (1 Cr.). Removable Prosthesis Lab 4 (1 Cr.). Fixed Prosthesis Lab 1 (2 Cr.). Fixed Prosthesis Lab 2 (2 Cr.). Fixed Prosthesis Course Lab 1 (1 Cr.). Fixed Prosthesis Course Lab 2 (2 Cr.). Acrylic Partial Prosthesis Lab 1 (1 Cr.). Acrylic Partial Prosthesis Lab 2 (1 Cr.). Guidance + Multidisciplinary Clinic (1 Cr.).

**Institution's Elective Courses (12 Cr.), to be chosen from the list below:**

Nutrition and Oral Health (2 Cr.). Basics of Etiquette (1 Cr.). Awareness of Anxiety (1 Cr.). Genetics (1 Cr.). Introduction to Photography (2 Cr.). Back Pain: Etiology and Prevention (1 Cr.). General Biology (2 Cr.). Psychosocial Aspects of Health (2 Cr.). Digital Text Editing (2 Cr.). Nanotechnology Investment in Medical-Dental Import and Export (1 Cr.). Body and Oral Health of Young Adults (2 Cr.). Arabic Language and Media (2 Cr.).

## Open Elective Courses (6 Cr.)

### USJ General Education Program (33 Cr.)

Code	Course Name	Credits
	<b>ENGLISH OR OTHER LANGUAGE</b>	<b>4</b>
003ANGAS4	English Level A	4
	<b>ARABIC</b>	<b>4</b>
	<i>Arabic Language and Culture</i>	<b>2</b>
435LALML2	Arabic Language and Media	2
	<i>Other Course Taught in Arabic</i>	<b>2</b>
003ENLI1	Lebanese Issues (in Arabic)	2
	<b>HUMANITIES</b>	<b>8</b>
064VALEL1	USJ Values in Daily Life	2
	<i>Ethics</i>	<b>2</b>
018ETHIL1	Fundamental Ethics	2
	<i>Civic Engagement and Citizenship</i>	<b>2</b>
015ABC2L3	Voluntary and Citizen Action	2
	<i>Other Humanities Course</i>	<b>2</b>
003GCDMI2	Conflict Management in the Medical-Dental Field	2
	<b>SOCIAL SCIENCES</b>	<b>6</b>
	<i>Professional Integration and/or Entrepreneurship</i>	<b>2</b>
003COATI2	Coaching Approach to Career Success	2
	<i>Other Social Sciences Courses</i>	<b>4</b>
003GDESI6	Management of Health Facilities & Economy	2
003FDAFS3	Fundamentals of Financial Analysis	1
003CIEFS2	Accounting and Introduction to Financial Statements	1
	<b>QUANTITATIVE TECHNIQUES</b>	<b>6</b>
003MATSI1	Mathematics	2
003INFOI2	Applied Informatics in Dentistry	2
003IATNI2	Artificial Intelligence and Digital Technologies in the Medical Field	1
003EPSTI2	Epidemiology and Applied Biostatistics in Dentistry	1
	<b>COMMUNICATION TECHNIQUES</b>	<b>5</b>
003EXCO1	Expression and Communication 1	2
003EXC2I2	Expression and Communication 2	2
003PUSPI4	Public Speaking	1

## SUGGESTED STUDY PLAN

### Semester 1

Code	Course Name	Credits
015ABC2L3	Voluntary and Citizen Action	2
003ANDEI1	Dental Anatomy 1	1
003AHG1I1	General Human Anatomy 1	2
003BICLI1	Cell Biology	2
003CHIGI1	General Chemistry	2
003ENLI1	Lebanese Issues (in Arabic)	2
003EVBII1	Environment and Biodiversity	1
018ETHIL1	Fundamental Ethics	2
003EXCOI1	Expression and Communication 1	2
003INRBI1	Introduction to Bibliographic Research	1
003MATSI1	Mathematics	2
003OBCLI1	Clinical Observation 1	1
003PHYOI1	Physiology 1	2
003PHYSI1	Physics	2
003SOIUI1	Emergency Care 1 (in Arabic)	1
003TPADI1	Dental Anatomy Lab 1	2
	Institution's Elective Courses	2
	Open Elective Courses	2
	<b>Total</b>	<b>31</b>

### Semester 2

Code	Course Name	Credits
003ANDEI2	Dental Anatomy 2	1
003AHG2I2	General Human Anatomy 2	2
003BIMOI2	Molecular Biology	1
003CORGI2	Organic Chemistry	2
003EPSTI2	Epidemiology and Applied Biostatistics in Dentistry	1
003EXC2I2	Expression and Communication 2	2
003GCDMI2	Conflict Management in the Medical-Dental Field	2
003HISTI2	Histology	2
003INFOI2	Applied Informatics in Dentistry	2
003IATNI2	Artificial Intelligence and Digital Technologies in the Medical Field	1
003COATI2	Coaching Approach to Career Success	2
064VALEL1	USJ Values in Daily Life	2
003OBCLI2	Clinical Observation 2	2
003PHYSI2	Physiology 2	1
003TPADI2	Dental Anatomy Lab 2	2

003TPBH12	Biology + Histology Lab	1
003NSDVI2_ or 003SENA12	Institution's Elective Course Basics of Etiquette or Awareness of Anxiety	2
	Open Elective Courses	2
	<b>Total</b>	<b>30</b>

### Semester 3

Code	Course Name	Credits
003AHG313	General Human Anatomy 3	2
003ANGL13	Medical and Dental English 1	1
003BIOS13	Structural Biochemistry	2
003COIE13	Infection Control and Ergonomics	1
003DEDI13	Digital Dentistry	1
003DENR13	Restorative Dentistry	1
003DEHI13	Dental Development and Histology 1	2
003GSTRI3	Stress and Communication Management in the Dental Office	1
003MATDI3	Dental Materials 1	1
003MICGI3	General Microbiology	2
003OCLI13	Clinical Observation 3	2
003PHYS13	Special Physiology	3
003PROAI3	Removable Prosthesis 1	2
003PRFUI3	Fixed Prosthesis Course	1
003PSYMI3	Medical Psychology	1
003SEME13	Pathological Semiotics 1	1
003TPDRI3	Restorative Dentistry Lab 1	1
003TPPFI3	Fixed Prosthesis Course Lab 1	1
003TPPAI3	Acrylic Partial Prosthesis Lab 1	1
	Institution's Elective Courses	2
	Open Elective Courses	2
	<b>Total</b>	<b>31</b>

### Semester 4

Code	Course Name	Credits
003AHGT14	Topographic General Human Anatomy: Head and Neck	2
003ANGL14	Medical and Dental English 2	2
003BIMCI4	Metabolic and Clinical Biochemistry	2
003DEPCI4	Community Dentistry	1
003DER214	Restorative and Aesthetic Dentistry 1	1
003DEHI14	Dental Development and Histology 2	1
003HÉMI14	Hematology and Immunology	2

003INREI4	Introduction to Research in Dentistry	1
003MATDI4	Dental Materials 2	1
003OCLII4	Clinical Observation 4	2
003PATDI4	Dental Pathology 1	2
003PUSPI4	Public Speaking	1
003APPRI4	Problem Solving APP 1	2
003SÉMPI4	Pathological Semiotics 2	2
003TPDRI4	Restorative Dentistry Lab 2	1
003TPDHI4	Dental Development and Histology Lab	1
003TPPFI4	Fixed Prosthesis Course lab 2	2
003TPPAI4	Acrylic Partial Prosthesis Lab 2	1
	Institution's Elective Courses	2
	<b>Total</b>	<b>29</b>

### Semester 5

Code	Course Name	Credits
003DDIAI5	Digital Dentistry and Artificial Intelligence	1
003DERI5	Restorative and Aesthetic Dentistry 2	1
003ENDOI5	Endodontics 1	2
003INSMI5	Introduction to Multidisciplinary Clinic	1
003MATDI5	Dental Materials 3	1
003PAROI5	Periodontology 1	2
003PATDI5	Dental Pathology 2	2
003PRAI5	Removable Prosthesis 2	1
003PRFPI5	Fixed Prosthesis Plural	2
003RADII5	Radiology and Radioprotection	2
003APPRI5	Problem Solving APP 2	1
003TPR1I5	Restorative Dentistry Lab 3	2
003TPE1I5	Endodontics Lab 1	2
003TPERI5	Ergonomics and Infection Control Lab	2
003TPA1I5	Removable Prosthesis Lab 1	2
003TPPFI5	Fixed Prosthesis Lab 1	2
	Institution's Elective Courses	2
	<b>Total</b>	<b>28</b>

### Semester 6

Code	Course Name	Credits
003ANAPI6	Pathological Anatomy	2
003AGAMI6	General and Ambulatory Anesthesia	1
003ALEXI6	Local Anesthesia + Exodontics	2
003CLDGI6	Oral Medicine and Radiology Clinic	1

003END2I6	Endodontics 2	1
003GDES16	Management of Health Facilities & Economy	2
003MERS16	Scientific Writing Methodology	1
003MICR16	Specific Microbiology and Oral Microbiology + Lab	3
003OCCLI6	Occlusodontics 1	1
003PRA2I6	Removable Prosthesis 3	1
003ROCLI6	Clinical Rotation	2
003SOIUI6	Emergency Care 2 + Lab (in Arabic)	1
003TPAPI6	Pathological Anatomy Lab	1
003TPR2I6	Restorative Dentistry Lab 4	3
003TPE2I6	Endodontics Lab 2	2
003TPOCI6	Occlusodontics Lab	1
003TPPAI6	Periodontology Lab	1
003TPA2I6	Removable Prosthesis Lab 2	1
003TPFI6	Fixed Prosthesis Lab 2	2
	Institution's Elective Courses	2
	<b>Total</b>	<b>31</b>

#### Semester 7

Code	Course Name	Credits
003CHORS1	Oral Surgery	2
003CCO1S1	Oral Surgery Clinic 1	1
003CLD1S1	Restorative Dentistry Clinic 1 (Multidisciplinary Mode)	2
003CEN1S1	Endodontics Clinic 1 (Multidisciplinary Mode)	3
003CMORS1	Oral Medicine and Radiology Clinic 1 (Multidisciplinary Mode)	1
003CLP1S1	Periodontology Clinic 1 (Multidisciplinary Mode)	2
003CPC1S1	Fixed Prosthesis Clinic 1	3
003ENDOS1	Endodontics 3	2
003IMPCS1	Surgical Implantology	1
003INNOS1	Innovation + Lab 1	1
003INRAS1	Radiological Interpretation	1
003ODOPS1	Pediatric Dentistry 1	1
003PAROS1	Periodontology 2	2
003PATOS1	Oral and Surgical Pathology	2
003PHARS1	Pharmacology	2
003PRA1S1	Removable Prosthesis	2
003PRCFS1	Fixed Prosthesis	1
003TPOPS1	Pediatric Dentistry Lab	1
003TPA1S1	Removable Prosthesis Lab 3	1
	<b>Total</b>	<b>31</b>



### Semester 8

Code	Course Name	Credits
003ATNAS2	Application of New Digital and Artificial Technologies	1
003BFTHS2	Fundamental and Therapeutic Orthodontics + Clinic	3
003CCO2S2	Oral Surgery Clinic 2	1
003CLD2S2	Restorative Dentistry Clinic 2 (Multidisciplinary Mode)	2
003CTE2S2	Endodontics Clinic 2 + Lab (Multidisciplinary Mode)	3
003CMORS2	Oral Medicine and Radiology Clinic 2 (Multidisciplinary Mode)	1
003CLP2S2	Periodontology Clinic 2 (Multidisciplinary Mode)	2
003CPC2S2	Fixed Prosthesis Clinic 2	3
003CIEFS2	Accounting and Introduction to Financial Statements	1
003PRORS2	Research Protocol Development	1
003MRCPS2	Practical and Operational Management of the Dental Office	1
003INNOS2	Innovation + Lab 2	1
003OCCLS2	Occlusodontics 2	1
003ODOPS2	Pediatric Dentistry 2	1
003PORTS2	Portfolio	2
003PITPS2	Implant Prosthesis + Lab	2
003TPCOS2	Community Lab	1
003TPDDS2	Digital Dentistry Lab	1
003TPA2S2	Removable Prosthesis Lab 4	1
	<b>Total</b>	<b>29</b>

### Semester 9

Code	Course Name	Credits
003ANARS3	Article Analysis	1
003CCO1S3	Oral Surgery Clinic 3	2
003CDP1S3	Pediatric Dentistry Clinic 1	2
003CDR1S3	Restorative Dentistry Clinic 3 (Multidisciplinary Mode)	2
003CEN1S3	Endodontics Clinic 3 (Multidisciplinary Mode)	3
003CMO1S3	Oral Medicine Clinic 1 (Multidisciplinary Mode)	1
003CLO1S3	Orthodontics Clinic 1	1
003CLP1S3	Periodontology Clinic 3 (Multidisciplinary Mode)	2
003CPA1S3	Removable Prosthesis Clinic 1	2
003CPC1S3	Fixed Prosthesis Clinic 3 + Occlusion (Multidisciplinary Mode)	3
003CLRAS3	Radiology Clinic 1	1
003ETHDS3	Ethics and Dentistry	2
003GEROS3	Multidisciplinary Geriodontology	1
003FDAFS3	Fundamentals of Financial Analysis	1
003ORPLS3	Professional Organization (in Arabic)	1



003PCMFS3	Maxillofacial Pathology and Surgery	1
003PRESS3	Case Presentation	2
003PRMES3	Thesis Project	1
	<b>Total</b>	<b>29</b>

#### Semester 10

Code	Course Name	Credits
003CCHOS4	Oral Surgery Clinic 4	1
003CDP2S4	Pediatric Dentistry Clinic 2	2
003CDR2S4	Restorative Dentistry Clinic 4 (Multidisciplinary Mode)	2
003CEN2S4	Endodontics Clinic 4 (Multidisciplinary Mode)	3
003CMO2S4	Oral Medicine Clinic 2 (Multidisciplinary Mode)	2
003CLO2S4	Orthodontics Clinic 2	1
003CLP2S4	Periodontology Clinic 4 (Multidisciplinary Mode)	2
003CPA2S4	Removable Prosthesis Clinic 2	2
003CPC2S4	Fixed Prosthesis Clinic 4	3
003CLRAS4	Radiology Clinic 2	1
003LSPDS4	Legislation on Dental Practice in Lebanon (in Arabic)	1
003MLEGS4	Forensic Medicine	1
003MEMOS4	Thesis and Defense	4
003PCIPS4	Interprofessional Clinical Case Presentation	1
003PROBS4	Oral, Written, and Portfolio Probation	3
003SOIUS4	Emergency Care 3 (in Arabic)	1
003TUTOS4	Guidance + Multidisciplinary Clinic	1
	<b>Total</b>	<b>31</b>

#### COURSE DESCRIPTION

<b>015ABC2L3</b>	<b>Voluntary and Citizen Action</b>	<b>2 Cr.</b>
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This course is part of the USJ General Education Program. It aims to raise awareness among all students about the importance of their involvement in civic life by providing them with opportunities to engage in various volunteer activities. The course consists of two components: theoretical instruction and supervised practical activities.

<b>003ANARS3</b>	<b>Article Analysis</b>	<b>1 Cr.</b>
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By the end of this course, students will be able to evaluate a multidisciplinary article and judge its scientific validity to justify the application of its results.

<b>003ANDEI1</b>	<b>Dental Anatomy 1</b>	<b>1 Cr.</b>
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This course covers dental anatomy which is one of the basic sciences in dentistry. It is a required course taught in the first year, and is directly related to the practice of the dental profession, as its knowledge is involved in all specialties of dentistry that address the morphological restoration of altered or missing dental organs. By the end of this course, students should recognize the descriptive, topographic, comparative and functional anatomy of permanent teeth. This course is delivered through lectures and interactive tutorial sessions, using a computer-assisted presentation program. The Tooth Atlas 8 software enables exploration of the morphology of teeth in 3D and consolidates students' knowledge.

<b>003ANDEI2</b>	<b>Dental Anatomy 2</b>	<b>1 Cr.</b>
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This course covers dental anatomy which is one of the basic sciences in dentistry. It is a required course taught in the first year, and is directly related to the practice of the dental profession, as its knowledge is involved in all specialties of dentistry that address the morphological restoration of altered or missing dental organs. By the end of this course, students should recognize the descriptive, topographic, comparative and functional anatomy of permanent teeth. This course is delivered through lectures and interactive tutorial sessions, using a computer-assisted presentation program. The Tooth Atlas 8 software enables exploration of the morphology of teeth in 3D and consolidates students' knowledge.

<b>003AHG1I1</b>	<b>General Human Anatomy 1</b>	<b>2 Cr.</b>
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This required course is taught in the first semester of the first year. It introduces the description of human anatomical structures, focusing on the bony elements of the head and neck. This course presents these structures using international terminology (PNA) and the specific lexicon of anatomical science. By the end of this course, students should be able to describe in detail the different bones and cavities of the human skull to recognize the bony structures of the human body.

<b>003AHG2I2</b>	<b>General Human Anatomy 2</b>	<b>2 Cr.</b>
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This required course is taught in the first semester of the first year. It introduces the systematic description of the muscles and vascular networks of the human body, with a detailed focus on the muscular and vascular elements of the orofacial sphere. By the end of this course, students should be able to recognize the different muscular elements and groups, as well as the vascular networks in the head and neck.

<b>003AHG3I3</b>	<b>General Human Anatomy 3</b>	<b>2 Cr.</b>
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This required course is taught in the first semester of the first year. It introduces the systematic description of the central nervous system, cranial nerves, and the different cavities of the human body. By the end of this course, students should be able to describe the different motor and sensory nervous circuits of head cavities, as well as the human body cavities and the anatomical relationships between the organs they contain.

<b>003AHGTI4</b>	<b>Topographic General Human Anatomy: Head and Neck</b>	<b>2 Cr.</b>
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This required course is taught in the second semester of the second year. It covers the topographic description of the different orofacial regions and of the neck. By the end of this course, students will be able to synthesize the knowledge acquired in head and neck anatomy and describe, through an anatomical approach, the oral and maxillofacial surgical techniques and imaging results.

<b>003ANAPI6</b>	<b>Pathological Anatomy</b>	<b>2 Cr.</b>
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This required course is taught in the 3rd year and is complemented by a practical lab. By the end of this course, students will be able to understand the methodology in anatomic pathology, and recognize the main disease processes in general anatomic pathology and their applications to oral and salivary tissues and organs.

<b>003AGAMI6</b>	<b>General and Ambulatory Anesthesia</b>	<b>1 Cr.</b>
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By the end of this course, students will become familiar with:  
 General anesthesia, its principles, risks and complications, and how to manage them.  
 The principles of neuraxial blocks and locoregional techniques, along with their risk and complications.  
 The preoperative assessment and evaluation of the patient, as these are crucially important.

<b>003ALEXI6</b>	<b>Local Anesthesia + Exodontics</b>	<b>2 Cr.</b>
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This course provides students with a thorough understanding of local anesthesia techniques and the principles of exodontia (tooth extraction). They will learn to effectively administer local anesthesia, prepare patients for dental extractions, and manage peri- and post-operative complications.

<b>003ANGLI3</b>	<b>Medical and Dental English 1</b>	<b>1 Cr.</b>
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This course is taught in the first semester of the second year of the Bachelor's degree. It introduces essential English language skills for dental practice. It equips students with the foundational terminology and concepts in general medicine that are relevant to dentistry. Students will also develop language skills needed for writing scientific articles. The course focuses on building both oral and written communication skills for effective interaction in English-speaking dental settings.

<b>003ANGLI4</b>	<b>Medical and Dental English 2</b>	<b>2 Cr.</b>
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This course is taught in the first semester of the second year of the bachelor's degree. It introduces essential English language skills for dental practice. It equips students with the foundational terminology and concepts in general medicine that are relevant to dentistry. Students will also develop language skills needed for writing scientific articles. The course focuses on building both oral and written communication skills for effective interaction in English-speaking dental settings.

<b>003ATNAS2</b>	<b>Application of New Digital and Artificial Technologies</b>	<b>1 Cr.</b>
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This required course is taught in the fourth year of dental medicine. It guides students in managing clinical cases through a digital workflow. It also introduces strategies for using social media effectively for professional purposes.

<b>003APSSI5</b>	<b>Psychosocial Aspects of Health</b>	<b>2 Cr.</b>
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This course emphasizes the importance of maintaining a balanced approach between physical and mental health. It highlights how a healthy equilibrium between these aspects supports personal growth, enhances professional performance, and strengthens social relationships.

<b>003BFTHS2</b>	<b>Fundamental and Therapeutic Orthodontics + Clinic</b>	<b>3 Cr.</b>
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This required course is taught in the fourth year. It enables students to recognize the problems linked to the development of dentition and occlusion. By the end of the course, students will be able to describe prevention, interception and correction in orthodontics using appropriate appliances. They will also gain knowledge of digital dentistry and the role of artificial intelligence in orthodontics. Theoretical knowledge is reinforced with practical work focused on cephalometric analysis, space analysis, and foundational knowledge of aligners, preparing students to make accurate diagnoses for each patient.

<b>003BIMCI4</b>	<b>Metabolic and Clinical Biochemistry</b>	<b>5/2 Cr.</b>
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This course, taught in the second semester of the second year, introduces diagnostic biochemistry. It covers the process of a blood test, from collection to results, and includes guidelines for diagnosing certain diseases and biochemical blood markers such as diabetes, liver function disorders, and acid-base imbalances.

<b>003BIOSI3</b>	<b>Structural Biochemistry</b>	<b>2 Cr.</b>
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This course covers the structure and role of macromolecules found in a living animal cell, including proteins, sugars, lipids and nucleic acids.

<b>003BICLI1</b>	<b>Cell Biology</b>	<b>2 Cr.</b>
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This course familiarizes students with the organelles of eukaryotic and prokaryotic cells, exploring the methods used to study their components and organization. It details cell observation techniques, including optical and electron microscopy, their principles, as well as the preparation and staining of samples. Students will gain in-depth knowledge of cellular organelles such as mitochondria, nucleus (including nucleolus and membrane), smooth and rough endoplasmic reticulum, Golgi apparatus, lysosomes, and peroxisomes—their functions, compartmentalization, and molecular composition. Additionally, the course covers cellular junctions, components of the cytoskeleton (e.g., cilia and flagella), and the cell cycle.

<b>003BIOI4</b>	<b>General Biology</b>	<b>2 Cr.</b>
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This course provides essential knowledge in biology for students in life sciences (general medicine, dental medicine, pharmacy, etc.), helping them develop a comprehensive understanding of 'life' and its characteristics. By the end of this course, students will be introduced to the living world and its diversity, enabling them to distinguish between bacteria, viruses, protozoa, and others, as well as understand their particularities and roles. Furthermore, this course covers the different characteristics of living organisms, focusing on reproduction, adaptation, and evolution, while highlighting the various deregulations and challenges that currently threaten life (cancer, aging, etc.).

<b>003BIMO12</b>	<b>Molecular Biology</b>	<b>1 Cr.</b>
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This course covers the main advances in modern biology essential for students in Medical Science. Positioned at the intersection of biochemistry and genetics, it requires students to thoroughly understand nucleic acid structure and properties. By the end of the course, students will have assimilated fundamental principles of genetic material transmission and repair, gene expression, and regulatory mechanisms. Students will also be able to interpret experimental results from the most common molecular biology techniques applied to biomedical research and medical biology laboratories for genetic material analysis.

<b>003CHIG1</b>	<b>General Chemistry</b>	<b>2 Cr.</b>
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This course allows students to build the essential chemical base to tackle advanced training by stimulating the critical and scientific mindset of future dental surgeons. It aims to provide the necessary scientific information to understand the physicochemical properties of matter, from the microscopic to the macroscopic scale.

<b>003CORGI2</b>	<b>Organic Chemistry</b>	<b>2 Cr.</b>
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This course aims to provide students with the basic principles of organic chemistry. In particular, it covers naming the main functions in organic chemistry, recognizing the properties of stereoisomers, using spectral methods to identify an organic compound, and familiarizing students with the concepts of reaction mechanisms and reactivity.

<b>003CHORS1</b>	<b>Oral Surgery</b>	<b>2 Cr.</b>
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This course equips students with essential knowledge and practical skills in oral surgery. Students will learn to manage various surgical procedures, use instruments correctly, and understand pharmacological principles applied to oral surgery. Special attention is given to the prevention and management of potential complications.

<b>003CCO1S1</b>	<b>Oral Surgery Clinic 1</b>	<b>1 Cr.</b>
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This course prepares students to master the techniques for administering local and regional dental anesthesia and to develop skills for choosing the most suitable technique based on the procedure and patient's needs. It covers evaluating the medical and dental conditions of the patient for tooth extraction, providing a comprehensive understanding of anatomical principles related to dental extractions, and developing technical skills to perform precise and effective extractions. Emphasis is placed on the role of postoperative care in the healing process, including advising patients on minimizing discomfort and reducing the risk of complications.

By the end of this course, students will be equipped to perform dental extractions with a focus on effective pain management, patient safety, and the prevention of complications throughout the process.

<b>003CCO2S2</b>	<b>Oral Surgery Clinic 2</b>	<b>1 Cr.</b>
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This course prepares students to master the techniques for administering local and regional dental anesthesia and to develop skills for choosing the most suitable technique based on the procedure and patient's needs. It covers evaluating the medical and dental conditions of the patient for a tooth extraction, providing a comprehensive understanding of anatomical principles related to dental extractions, and developing technical skills to perform precise and effective extractions. Emphasis is placed on the role of postoperative care in the healing process, including advising patients on minimizing discomfort and reducing the risk of complications.

By the end of this course, students will be equipped to perform dental extractions with a focus on effective pain management, patient safety, and the prevention of complications throughout the process.

<b>003CCHOS4</b>	<b>Oral Surgery Clinic 4</b>	<b>1 Cr.</b>
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This course enables students to understand the critical role of asepsis in minor oral surgery and to apply aseptic protocols and techniques to minimize the risk of infections. Students will acquire a deep understanding of the anatomical principles related to dental extractions and develop technical skills for precise extractions. They will master techniques for wisdom tooth extractions, focusing on managing potential complications, and develop specialized skills for multiple extractions and alveolectomies. The course also emphasizes optimizing post-extraction healing and minimizing complications, with additional training in suturing techniques to promote optimal healing.

By the end of this course, students will be equipped to perform dental extractions with competence, combining theoretical knowledge, advanced technical skills, and a thorough understanding of complication management principles.

<b>003CCO1S3</b>	<b>Oral Surgery Clinic 3</b>	<b>2 Cr.</b>
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This course enables students to understand the critical role of asepsis in minor oral surgery and to apply aseptic protocols and techniques to minimize the risk of infections. Students will acquire a deep understanding of the anatomical principles related to dental extractions and develop technical skills for precise extractions. They will master techniques for wisdom tooth extractions, focusing on managing potential complications, and develop specialized skills for multiple extractions and alveolectomies. The course also emphasizes optimizing post-extraction healing and minimizing complications, with additional training in suturing techniques to promote optimal healing.

By the end of this course, students will be equipped to perform dental extractions with competence, combining theoretical knowledge, advanced technical skills, and a thorough understanding of complication management principles.

<b>003CDP1S3</b>	<b>Pediatric Dentistry Clinic 1</b>	<b>2 Cr.</b>
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This course prepares students to establish comprehensive pediatric dental treatment plans, care for young patients, and deliver essential pediatric dental therapies. Students will perform clinical procedures with a focus on maintaining ergonomic and aseptic conditions.

<b>003CDP2S4</b>	<b>Pediatric Dentistry Clinic 2</b>	<b>2 Cr.</b>
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This course prepares students to establish comprehensive pediatric dental treatment plans, care for young patients, and deliver essential pediatric dental therapies. Students will perform clinical procedures with a focus on maintaining ergonomic and aseptic conditions.

<b>003CLD1S1</b>	<b>Restorative Dentistry Clinic 1 (Multidisciplinary Mode)</b>	<b>2 Cr.</b>
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This required course is taught in the first semester of the 4<sup>th</sup> year of dentistry, and involves clinical work with patients.

It aims to equip students with the skills to diagnose and treat patients with carious and non-carious lesions of simple complexity, using appropriate material.

<b>003CDR1S3</b>	<b>Restorative Dentistry Clinic 3 (Multidisciplinary Mode)</b>	<b>2 Cr.</b>
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This required course is taught in the third semester of the 5<sup>th</sup> year of dentistry, and involves clinical work with patients.

It aims to equip students with the skills to diagnose and treat patients with carious and non-carious lesions of simple complexity, using appropriate material.

<b>003CLD2S2</b>	<b>Restorative Dentistry Clinic 2 (Multidisciplinary Mode)</b>	<b>2 Cr.</b>
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This required course is taught in the second semester of the 4<sup>th</sup> year of dentistry and involves clinical work with patients.

It aims to equip students with the skills to diagnose and treat patients with carious and non-carious lesions of simple complexity, using appropriate material.

<b>003CDR2S4</b>	<b>Restorative Dentistry Clinic 4 (Multidisciplinary Mode)</b>	<b>2 Cr.</b>
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This required course is taught in the third semester of the 5<sup>th</sup> year of dentistry and involves clinical work with patients.

It aims to equip students with the skills to diagnose and treat patients with carious and non-carious lesions of simple complexity, using appropriate material.

<b>003CEN1S1</b>	<b>Endodontics Clinic 1 (Multidisciplinary Mode)</b>	<b>3 Cr.</b>
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This course covers preclinical work and clinical internships, allowing students to apply foundational skills in real clinical settings.

<b>003CEN1S3</b>	<b>Endodontics Clinic 3 (Multidisciplinary Mode)</b>	<b>3 Cr.</b>
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This course equips students with the clinical skills and scientific knowledge necessary to perform root canal treatment and retreatment on single-rooted and multi-rooted teeth.

<b>003CEN2S4</b>	<b>Endodontics Clinic 4 (Multidisciplinary Mode)</b>	<b>3 Cr.</b>
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This course equips students with the clinical skills and scientific knowledge necessary to perform endodontic treatment on single-rooted and multi-rooted teeth. Students will learn to establish accurate diagnoses of pulpal and periradicular pathologies, complete endodontic treatment on multi-rooted teeth, remove posts, and perform multiple retreatments on single-rooted and multi-rooted teeth.

<b>003CTE2S2</b>	<b>Endodontics Clinic 2 + Lab (Multidisciplinary Mode)</b>	<b>3 Cr.</b>
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This course equips students with the clinical skills and scientific knowledge necessary to perform root canal treatment on single-rooted and multi-rooted teeth.

<b>003CMO2S4</b>	<b>Oral Medicine Clinic 2 (Multidisciplinary Mode)</b>	<b>2 Cr.</b>
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This course is taught in the 5<sup>th</sup> year and presents complex clinical cases to help students deepen their knowledge and apply the diagnostic skills acquired in previous years.

<b>003CMO1S3</b>	<b>Oral Medicine Clinic 1 (Multidisciplinary Mode)</b>	<b>1 Cr.</b>
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This course is taught in the 5<sup>th</sup> year and presents complex clinical cases to help students deepen their knowledge and apply the diagnostic skills acquired in previous years.

<b>003CMORS1</b>	<b>Oral Medicine and Radiology Clinic 1 (Multidisciplinary Mode)</b>	<b>1 Cr.</b>
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This course aims to develop the skills essential for dental practice, with particular emphasis on effective communication with patients, gathering relevant medical information, taking a thorough history, performing a complete extraoral and intraoral clinical examination, justifying, indicating, and interpreting radiographs, and formulating a treatment plan tailored to the patient's needs. In radiology, the objectives are to apply the principles of radiological protection, acquire technical skills, and master the visualization and interpretation of radiographs.


<b>003CMORS2</b>	<b>Oral Medicine and Radiology Clinic 2 (Multidisciplinary Mode)</b>	<b>1 Cr.</b>
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This course aims to develop the skills essential for dental practice, with particular emphasis on effective communication with patients, gathering relevant medical information, taking a thorough history, performing a complete extraoral and intraoral clinical examination, justifying, indicating, and interpreting radiographs, and formulating a treatment plan tailored to the patient's needs. In radiology, the objectives are to apply the principles of radiological protection, acquire technical skills, and master the visualization and interpretation of radiographs.

<b>003CLDGI6</b>	<b>Oral Medicine and Radiology Clinic</b>	<b>1 Cr.</b>
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This course provides students with a practical introduction to dental consultation and radiology. They will learn how to establish a trusting relationship with patients, take a full medical history, explain dental procedures clearly, and apply the hygiene standards needed to work in an aseptic environment. In addition, students will acquire an





understanding of the basic principles of oral radiology and become familiar with software for image acquisition and visualization.

<b>003CLO1S3</b>	<b>Orthodontics Clinic 1</b>	<b>1 Cr.</b>
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This required course is taught in the fifth year. Students will be able to conduct a clinical examination to establish an orthodontic diagnosis as well as master dentist-patient communication.

<b>003CLO2S4</b>	<b>Orthodontics Clinic 2</b>	<b>1 Cr.</b>
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This required course is taught in the fifth year. Students will be able to conduct a clinical examination to establish an orthodontic diagnosis as well as master dentist-patient communication.

<b>003CLP1S3</b>	<b>Periodontology Clinic 3 (Multidisciplinary Mode)</b>	<b>2 Cr.</b>
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This required course is taught in the fifth year. It covers non-surgical treatment of moderate and advanced periodontal disease in a multidisciplinary context.

<b>003CLP1S1</b>	<b>Periodontology Clinic 1 (Multidisciplinary Mode)</b>	<b>2 Cr.</b>
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This required course is taught in the 4<sup>th</sup> year. It covers non-surgical treatment of periodontal disease.

<b>003CLP2S2</b>	<b>Periodontology Clinic 2 (Multidisciplinary Mode)</b>	<b>2 Cr.</b>
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This course provides students with knowledge of the clinical and radiological aspects of patients' examinations, emphasizing the formulation of treatment plans. It covers the concepts of periodontal and occlusal considerations for long term prognosis, as well as various techniques for treatment and scaling to maintain periodontal health. Additionally, the course addresses the clinical and histological healing of periodontal tissues to enhance understanding of biological healing. This course aims to train healthcare providers to improve their clinical and radiological evaluation skills.

<b>003CLP2S4</b>	<b>Periodontology Clinic 4 (Multidisciplinary Mode)</b>	<b>2 Cr.</b>
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This required course is taught in the fifth year. It covers non-surgical treatment of moderate and advanced periodontal disease in a multidisciplinary context.

<b>003CPA1S3</b>	<b>Removable Prosthesis Clinic 1</b>	<b>2 Cr.</b>
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This required course constitutes the clinical internship in removable prosthodontics. It takes place in the first semester of the 5<sup>th</sup> year of the Doctor of dental medicine program, and applies the concepts learned in all theoretical subjects (ECTS code). By the end of this course, students should be able to treat patients at the care center using temporary partial removable dentures, skeletal dentures, or complete dentures.

<b>003CPA2S4</b>	<b>Removable Prosthesis Clinic 2</b>	<b>2 Cr.</b>
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This required course constitutes the clinical internship in removable prosthodontics. It takes place in the second semester of the 5<sup>th</sup> year of the Doctor of Dental Surgery program, and applies the concepts learned in all theoretical subjects (ECTS code). By the end of this course, students should be able to treat patients at the care center using temporary partial removable dentures, skeletal dentures, or complete dentures.

<b>003CPC1S1</b>	<b>Fixed Prosthesis Clinic</b>	<b>13 Cr.</b>
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This required internship is conducted during the first semester of the 4<sup>th</sup> year.

It covers single fixed prosthodontics that follow the theoretical course.

By the end of the internship, students will be able to fabricate a definitive full-coverage crown on a prepared natural tooth in the patient's mouth.





<b>003CPC2S2</b>	<b>Fixed Prosthesis Clinic 2</b>	<b>3 Cr.</b>
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This required internship is conducted during the first semester of the 4<sup>th</sup> year.

It covers single fixed prosthodontics that follow the theoretical course.

By the end of this internship, students should be able to create a full-coverage definitive crown on a prepared natural tooth in the patient's mouth.

<b>003CPC2S4</b>	<b>Fixed Prosthesis Clinic 4</b>	<b>3 Cr.</b>
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This required internship is conducted during the second semester of the 5<sup>th</sup> year (S10). It covers plural fixed prosthodontics that follow the theoretical course and clinical internship of the 4<sup>th</sup> year.

By the end of this internship, students should be able to create single crowns and full-coverage definitive bridges on natural prepared teeth and implants in patients' mouths.

<b>003CPC1S3</b>	<b>Fixed Prosthesis Clinic 3 + Occlusion (Multidisciplinary Mode)</b>	<b>3 Cr.</b>
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This required clinical internship is conducted in the first semester of the 5<sup>th</sup> year S9 (code 003CPC2S4). It covers plural fixed prosthetics following the theoretical course and clinical internship of the 4<sup>th</sup> year. By the end of this internship, students will be able to create single crowns and full-coverage definitive bridges on prepared natural teeth and implants in patients' mouths.

<b>003CLRAS4</b>	<b>Radiology Clinic 2</b>	<b>1 Cr.</b>
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This course enhances students' skills in conducting oral and extra-oral radiographs, interpreting radiographic images, and composing accurate radiological reports.

<b>003CLRAS3</b>	<b>Radiology Clinic 1</b>	<b>1 Cr.</b>
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This course enhances students' skills in conducting oral and extra-oral radiographs, interpreting radiographic images, and composing accurate radiological reports.

<b>003CIEFS2</b>	<b>Accounting and Introduction to Financial Statements</b>	<b>1 Cr.</b>
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This course explains accounting principles and their significance in clinic management. Students will learn to effectively utilize accounting tools to enhance their professional practices.

<b>003COIEI3</b>	<b>Infection Control and Ergonomics</b>	<b>1 Cr.</b>
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This course aims to:

1. Highlight the importance of infection control in dental practice.
2. Familiarize students with the various infection control techniques.
3. Familiarize students with the dental chair, the work area, and the dental office.

<b>003DEPCI4</b>	<b>Community Dentistry</b>	<b>1 Cr.</b>
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This course explains the principles of caries disease in children and adolescents and explores prevention methods. It introduces students to epidemiological studies and familiarizes them with the global shift towards holistic dentistry.

<b>003DEDI3</b>	<b>Digital Dentistry</b>	<b>1 Cr.</b>
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This required course is offered in the second year of dental medicine. It covers the basics of digital dentistry and new technologies, as well as digital radiology and its clinical and academic applications.

<b>003DDIAI5</b>	<b>Digital Dentistry and Artificial Intelligence</b>	<b>1 Cr.</b>
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This required course is offered in the third year of dental medicine. It covers the digital dentistry workflow, starting with image acquisition and processing techniques, as well as computer-aided design and manufacturing.

<b>003DENR13</b>	<b>Restorative Dentistry</b>	<b>1 Cr.</b>
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This required course is taught in semester 3 and is complemented by practical work (003TPDR13). It describes the basic principles and materials used in direct restorations in restorative dentistry.

<b>003DER115</b>	<b>Restorative and Aesthetic Dentistry 2</b>	<b>1 Cr.</b>
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This required course is taught in the 1<sup>st</sup> semester of the 3<sup>rd</sup> year, and is complemented by practical work (003TPR115). It enables students to recognize the different techniques and materials suitable in indirect restorations, whitening, and non-invasive techniques.

<b>003DER214</b>	<b>Restorative and Aesthetic Dentistry 1</b>	<b>1 Cr.</b>
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This required course is taught in the 1<sup>st</sup> semester of the 3<sup>rd</sup> year, and is complemented by practical work (003TPR115). It enables students to recognize the different techniques and materials suitable in indirect restorations, whitening, and non-invasive techniques.

<b>003DEH113</b>	<b>Dental Development and Histology 1</b>	<b>2 Cr.</b>
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This common and mandatory course is taught in the 2<sup>nd</sup> year. It enables students to understand and explore the histology and embryology of the tooth.

<b>003DEH114</b>	<b>Dental Development and Histology 2</b>	<b>1 Cr.</b>
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This common and mandatory course is taught in the 2<sup>nd</sup> year and enables students to understand and explore the histology and embryology of the tooth.

By the end of this course, students will be able to:

Recognize histological structures.

Explain the normal development of an organ, diagnose anomalies, and identify innate or acquired pathologies along with their treatments.

<b>070EDTNM1</b>	<b>Digital Text Editing</b>	<b>2 Cr.</b>
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This course trains students to master the computer programs necessary to meet the presentation requirements of a thesis as defined by the Faculty of Science.

<b>003PRORS2</b>	<b>Research Protocol Development</b>	<b>1 Cr.</b>
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This course equips students with the skills necessary to design, write and present a research protocol effectively, using advanced scientific writing techniques and integrating principles of clinical problem solving.

<b>003ENDO15</b>	<b>Endodontics 1</b>	<b>2 Cr.</b>
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This required course is taught in the third year and is complemented by a practical workshop on shaping and filling single-rooted and bi-rooted teeth (003TPE115).

It enables students to understand the steps of root canal treatment, including the filling of simple and complex single-rooted and bi-rooted teeth.


<b>003ENDOS1</b>	<b>Endodontics 3</b>	<b>2 Cr.</b>
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This required course is taught in the third year and is complemented by a practical workshop on shaping and filling single-rooted and bi-rooted teeth (003TPE115).

It enables students to understand the steps of root canal treatment, including filling simple and complex molars, conventional endodontics, the different phases of retreatments in these teeth, and the management of emergencies and complications.

<b>003END216</b>	<b>Endodontics 2</b>	<b>1 Cr.</b>
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This required course is taught in the third year and is complemented by a practical workshop on shaping and filling single-rooted and bi-rooted teeth (003TPE216).



It enables students to understand the steps of root canal treatment, including filling of simple and complex single-rooted and bi-rooted teeth.

<b>003ENLI1</b>	<b>Lebanese Issues (in Arabic)</b>	<b>2 Cr.</b>
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This course analyzes the historical, economic, social, and geographical evolution of Lebanon, highlighting its challenges and successes from 1860 to the present. It examines various aspects such as agriculture, industry, services, emigration, tourism, transportation, foreign relations, presidential mandates, urban and rural characteristics, legislative elections, and financial collapse, to understand the complex dynamics shaping the country and its development.

<b>003EVB11</b>	<b>Environment and Biodiversity</b>	<b>1 Cr.</b>
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By the end of this course, students will be able to explain the multidisciplinary approach to the environment. They will be able to enumerate and describe various tools for assessing environmental quality and vulnerability. Additionally, students will acquire the necessary knowledge to understand the functioning of our biosphere, including the living and non-living components of ecosystems, their interactions, the impact of humans on the environment, and remediation methods.

<b>003EPST12</b>	<b>Epidemiology and Applied Biostatistics in Dentistry</b>	<b>1 Cr.</b>
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This course familiarizes future graduates with the methods and concepts of descriptive statistics, the principles of statistical inferences, sampling methods, and the interpretation of statistical results in their dental practice and scientific studies, enabling them to effectively utilize this knowledge in seminars and oral presentations.

<b>003ETHDS3</b>	<b>Ethics and Dentistry</b>	<b>2 Cr.</b>
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This required course is taught during the first semester of the fifth year. It familiarizes students with the notions of morals, ethics and deontology, as well as ethical principles applicable to the dental profession. Students will analyze diverse ethical problems that may arise in dental practice, identify the ethical principles involved, and find adequate solutions applicable in professional practice while considering these principles.

<b>018ETHIL1</b>	<b>Fundamental Ethics</b>	<b>2 Cr.</b>
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This course explores the challenges of navigating a world where references and values are scattered, and norms have become relative, often reflecting individual convictions. It addresses persistent questions in everyone's conscience, such as: What can I do to make an act truly humanizing for myself and for others? How can I lead a good and happy life while also being responsible?

<b>003EXCO11</b>	<b>Expression and Communication 1</b>	<b>2 Cr.</b>
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This course employs a set of methodological tools to effectively design and communicate information. It focuses on equipping students with the skills to articulate and structure their written and oral presentations coherently, thereby enhancing their communication abilities. Mastering these competencies is vital for achieving success in both academic and professional environments. By the end of this course, students will have cultivated advanced linguistic and methodological skills essential for effective communication.


<b>003EXC212</b>	<b>Expression and Communication 2</b>	<b>2 Cr.</b>
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This course employs a set of methodological tools to effectively design and communicate information. It focuses on equipping students with the skills to articulate and structure their written and oral presentations coherently, thereby enhancing their communication abilities. Mastering these competencies is vital for achieving success in both academic and professional environments. By the end of this course, students will have cultivated advanced linguistic and methodological skills essential for effective communication.

<b>003GENEI3</b>	<b>Genetics</b>	<b>1 Cr.</b>
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This required course covers the basic genetics concepts related to medical genetics (chromosomal abnormalities, transmission of hereditary diseases, diagnostic techniques, functional genetics, etc.). It emphasizes the application





of clinical knowledge to specific dental pathologies while also tracking advancements in scientific understanding and professional clinical practices related to certain hereditary conditions, such as dental agenesis and oligodontia. Additionally, students will expand their theoretical knowledge of the genetic tests utilized in these contexts.

<b>003GCDMI2</b>	<b>Conflict Management in the Medical-Dental Field</b>	<b>2 Cr.</b>
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This course empowers students to prevent and effectively manage conflict situations within the health and dental environments. It fosters the competency of “Acting humanely with individuals, families, and communities in their health experiences.” Students will explore concepts and methodologies of conflict management and mediation, enhancing their skills in conflict resolution, active listening, and positive communication while cultivating trust-based relationships. The course adopts an interactive format, incorporating group exercises and role-playing scenarios.

<b>003GDESI6</b>	<b>Management of Health Facilities &amp; Economy</b>	<b>2 Cr.</b>
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This course examines medical institutions as matrix organizations that require competent and efficient human resources to provide patient care services at all levels. Effective hospital management and administration involve the organization, coordination, planning, staffing, evaluation and control of healthcare services provided by hospitals. The primary goal of healthcare organizations is to provide quality patient care cost-effectively and safely to healthcare workers in the workplace. By the end of this course, students will be able to describe the management requirements of health institutions, cite certain specificities of health organizations, apply management tools and present to health system stakeholders the issues of care of health and responses through economics.

<b>003GSTRI3</b>	<b>Stress and Communication Management in the Dental Office</b>	<b>1 Cr.</b>
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This course enables students to communicate effectively with all stakeholders regarding the needs of the dental profession, and to recognize methods for managing communication and stress in dental practice.

It introduces the key concepts of interpersonal communication and stress management to build a positive and professional image of the practitioner in order to:

- Build professional credibility
- Strengthen the patient-practitioner relationship
- Improve the practitioner’s clinical and relational performance by reducing day-to-day stress levels.

<b>003MRCP52</b>	<b>Practical and Operational Management of the Dental Office</b>	<b>1 Cr.</b>
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By the end of this course, students will be able to professionally welcome patients, apply the recommendations from the Calgary Cambridge medical communication guide as adapted to dental office practice, and appropriately utilize communication tools for dentists. Students will also demonstrate the application of communication in dental office management by establishing internal regulations. They will be able to define human resource needs, common life rules in a dental office, as well as the prevention and management of relational conflicts.

<b>003HÉMII4</b>	<b>Hematology and Immunology</b>	<b>2 Cr.</b>
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This course is designed for second-year dental students. It offers an integrated introduction to the major biological systems of regulation and defense in the human body. The hematology section focuses primarily on hemostasis, detailing the mechanisms of coagulation and the factors involved. The immunology section explores the foundations of innate and adaptive immunity, as well as the main cellular and molecular components. The different types of hypersensitivity are also thoroughly covered. Finally, the oncology section presents the fundamental mechanisms of cellular transformation, tumor growth, and the general principles of carcinogenesis.

<b>003HIST12</b>	<b>Histology</b>	<b>2 Cr.</b>
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This course explores the human tissues in terms of histogenesis, composition, structure, biological characteristics, location, types, and functions. It also covers tissue renewal, cellular communication, and the most common tissue pathologies.



<b>003IMPCS1</b>	<b>Surgical Implantology</b>	<b>1 Cr.</b>
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This course covers the biological and clinical principles related to implant surgery, providing students with in-depth knowledge of fundamental implantology concepts for successful surgical outcomes. It familiarizes students with various implant systems, focusing on their unique characteristics, components, associated surgical techniques, and clinical considerations related to implant selection and treatment planning. Students will explore advancements and best practices in implant surgery, integrating biological perspectives to understand the healing process.

<b>003INFO12</b>	<b>Applied Informatics in Dentistry</b>	<b>2 Cr.</b>
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This course trains students to create professional documents using Microsoft Word, Excel, and PowerPoint.

- Word: Edit and format research papers, theses, and other types of text.
- Excel: Manage tables and perform data analysis.
- PowerPoint: Create and deliver engaging slideshows.

<b>003INRE14</b>	<b>Introduction to Research in Dentistry</b>	<b>1 Cr.</b>
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This course provides a solid foundation in dental research, preparing students to analyze, evaluate, and conduct their own research by:

1. Understanding the structure of a scientific article and identifying its sections
2. Mastering scientific writing principles
3. Interpreting statistical results in articles
4. Understanding the scale of evidence and impact factor
5. Critically evaluating a scientific article using an assessment grid
6. Applying principles of evidence-based dentistry

<b>003INNOS1</b>	<b>Innovation + Lab 1</b>	<b>1 Cr.</b>
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This course equips students with a creative mindset and practices essential for fostering innovation. Beginning with the mindset shift needed to inspire creativity, students will explore sources of innovative ideas and strategies for building creative confidence in themselves and others. This course introduces design thinking as a structured approach to innovation, covering stages from need-finding and empathy to insight generation, prototyping, and experimentation. Finally, students will learn how to cultivate and implement an innovative mindset within a work environment to inspire and influence others. By the end of this course, students will apply design thinking to a personal project.

<b>003INNOS2</b>	<b>Innovation + Lab 2</b>	<b>1 Cr.</b>
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This course stimulates creativity and innovative thinking in dental medicine while developing research and analytical skills. Students will cultivate creative approaches, analyze needs and gaps in dental practices and technologies, and identify opportunities for innovation. They will conduct comprehensive research on recent advancements, design dental innovations including prototypes where feasible, and translate ideas into practical solutions. Students will strengthen their communication skills to present ideas and prototypes clearly and persuasively, and will prepare to share their innovations with health professionals, investors, and collaborators.

<b>003IATN12</b>	<b>Artificial Intelligence and Digital Technologies in the Medical Field</b>	<b>1 Cr.</b>
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This required first-year course provides a general overview of artificial intelligence and its applications in medicine and dental medicine.

<b>003INRAS1</b>	<b>Radiological Interpretation</b>	<b>1 Cr.</b>
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This course trains students to identify normal structures and radiographic abnormalities, and to analyze, interpret, and effectively communicate the results of radiological images within the context of dental and maxillofacial practice.

<b>003INSMI5</b>	<b>Introduction to Multidisciplinary Clinic</b>	<b>1 Cr.</b>
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This course introduces students to multidisciplinary patient management, taking into account the patient's general health, and fosters collaboration among various dental disciplines as well as with medical or paramedical fields. It also helps students develop a treatment plan, considering the order of priority.

<b>0102227L1</b>	<b>Introduction to Photography</b>	<b>2 Cr.</b>
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This course covers:

- Photographic aesthetics, principles of composition, and practical application through research and in-class discussions.
- History of photography and its evolution up to the present day.
- Different components of the camera, including their functions and uses.
- Basic photographic genres, illustrated through the works of the renowned photographers in each genre.
- Photographic aesthetics and principles of composition are explored and practiced through in-class discussions, with work divided between technical exercises and projects.

<b>003INRBI1</b>	<b>Introduction to Bibliographic Research</b>	<b>1 Cr.</b>
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This required first-year course enables students to identify high-quality scientific articles, describe the different steps of a scientific article, recognize the different types of scientific publications, and interpret scientific findings.

<b>003INMDI5</b>	<b>Nanotechnology Investment in Medical-Dental Import and Export</b>	<b>1 Cr.</b>
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This course enables students to:

Master the steps required to import and export tools and raw materials.

Connect with various official authorities in Lebanon.

Describe a Technical Data Sheet & Material Safety Data Sheet.

Invest in the national and international markets.

Conduct thorough inspections of dental drugstores handling raw materials and tools.

Increase labor return on investment by analyzing the different stages of EURO1.

Learn and analyze international customs codes to avoid any gaps in the import and export of raw materials and dental tools.

Connect with national and international resources to facilitate conferences on investment in dentistry.

<b>003GEROS3</b>	<b>Multidisciplinary Geriodontology</b>	<b>1 Cr.</b>
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This course enables students to establish adequate masticatory function for elderly patients and ensure its stability through appropriate multidisciplinary treatments suited to a weakened orofacial environment.

<b>435LALML2</b>	<b>Arabic Language and Media</b>	<b>2 Cr.</b>
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This course provides students with an engaging and flexible way to explore the Arabic language and its rich culture. It offers insights into the use of Arabic in various forms of media, including visual, audio, and written journalism, as well as in advertisements across these formats. Through this course, students will develop practical linguistic skills in both oral and written communication, enhancing their proficiency and appreciation of the language.

<b>003COATI2</b>	<b>Coaching Approach to Career Success</b>	<b>2 Cr.</b>
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This course develops students' emotional and social skills using coaching approaches and tools. It covers both theoretical and practical aspects of emotional and social intelligence, stress and fear management, and building self-confidence to assert oneself and inspire confidence in others. Additionally, it focuses on effective communication and public speaking skills, including body language, facial expressions, voice modulation, and breathing techniques.

Students will acquire essential knowledge and skills to master public speaking and build the confidence needed to succeed in their careers. Furthermore, they will learn how to face daily challenges with a positive mindset, manage their internal saboteurs through positive intelligence and mental fitness, and honor their values through their behaviors and way of living.



<b>003LSPDS4</b>	<b>Legislation on Dental Practice in Lebanon (in Arabic)</b>	<b>1 Cr.</b>
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Students will learn about the practices of third-party payers in Lebanon and the application of social security to dental clinic employees.

<b>003FDAFS3</b>	<b>Fundamentals of Financial Analysis</b>	<b>1 Cr.</b>
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This course allows students to evaluate the financial structure of their clinic. The analysis includes drafting a financial report that describes the present situation of the firm, and outlines the main financial directives for its future.

<b>003MDEPI3</b>	<b>Back Pain: Etiology and Prevention</b>	<b>1 Cr.</b>
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By the end of this course, students will be able to identify the primary causes of spinal pain and the associated risk factors in dentistry. They will also assess workplace comfort levels and learn recommendations to enhance operator comfort and efficiency.

<b>064VALEL1</b>	<b>USJ Values in Daily Life</b>	<b>2 Cr.</b>
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This course aims to familiarize students with the fundamental values of the Saint Joseph University of Beirut (USJ) so that they can integrate them into their personal, interpersonal, and professional lives. It engages them in critical reflection on how the values outlined in the USJ Charter can influence their behaviors, actions, and decisions in addressing the challenges of the contemporary world. Additionally, students will become aware of global issues and ethical responsibilities, preparing them to positively contribute to the building of a better society.

<b>003MATDI5</b>	<b>Dental Materials 3</b>	<b>1 Cr.</b>
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This course is taught in the 1<sup>st</sup> semester of the third year, and includes practical sessions, video presentations, materials handling, lectures, and article analysis.

<b>003MATDI4</b>	<b>Dental Materials 2</b>	<b>1 Cr.</b>
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The course offers essential insights into the materials used in dentistry, detailing the structure and chemistry that influence their behavior and performance.

<b>003MATDI3</b>	<b>Dental Materials 1</b>	<b>1 Cr.</b>
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By the end of this course, students will have up-to-date information on the materials used in dentistry. They will be able to describe the composition and properties of dental materials, and will be able to select and use dental biomaterials.

This course is taught in the 1<sup>st</sup> semester of the second year, and includes practical sessions, laboratory visits with practical work, video presentation, materials handling, lectures, research notes, and article analysis.

<b>003MATSI1</b>	<b>Mathematics</b>	<b>2 Cr.</b>
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This course presents the mathematical foundations of medicine, focusing on mathematical models of phenomena encountered in the field.

<b>003MLEGS4</b>	<b>Forensic Medicine</b>	<b>1 Cr.</b>
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This course aims to provide students with a deep understanding of the legal and ethical aspects of medical practice, focusing on risk prevention and the management of patient relationships.

This course covers various essential topics, including:

- The roles and responsibilities of forensic doctors
- Techniques for identifying deceased individuals
- Oral and facial lesions in criminal investigations
- Main classes of risks associated with medical treatments, including infections and diagnostic or treatment errors
- Fees and relational issues between patients and practitioners
- Therapeutic complications and associated responsibilities



- Informed patient consent and necessary approvals
- Violations of professional secrecy and associated sanctions
- Professional misconduct and medical liability

<b>003MEMOS4</b>	<b>Thesis and Defense</b>	<b>4 Cr.</b>
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This course facilitates the development of essential research skills. Students will be able to engage in research work specific to their discipline.

<b>003MERSI6</b>	<b>Scientific Writing Methodology</b>	<b>1 Cr.</b>
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This course aims to teach the fundamental principles of scientific writing, enabling students to identify the essential characteristics of a scientific document and understand the standards of academic writing and statistics. It aims to develop in students the skills necessary to conduct rigorous research.

The course includes various components focused on:

1. Mastering summarization techniques: Summarize scientific documents effectively.
2. Elaborating scientific writing: Acquire advanced scientific writing skills, including understanding the different sections of a scientific article and their functions.
3. Using statistics in a scientific article: Interpret and present data effectively.
4. Developing a research protocol: Identify the key elements of a solid protocol.
5. Presenting a research project: Acquire skills to present a research project clearly and convincingly.

<b>003MICGI3</b>	<b>General Microbiology</b>	<b>2 Cr.</b>
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This required course, taught in the second year, introduces the microbial world and contributes to the development of the following skills:

- Recognizing the different mechanisms of bacterial, viral, parasitic, and fungal infections.
- Identifying cross-infections relevant to dentists and those most frequently encountered globally.

<b>003MICRI6</b>	<b>Specific Microbiology and Oral Microbiology + Lab</b>	<b>3 Cr.</b>
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This required third-year course describes the main microorganisms (bacteria, viruses and fungi) pathogenic to humans and the fundamental aspects of the infectious pathology associated with each. It includes an in-depth examination of key infectious pathologies relevant to dental practice and the microorganisms transmissible through healthcare. Practical work complements the theoretical and oral teaching provided.

This course contributes to the development of the following skills:

- Recognizing the main bacteria involved in human pathology, their diagnosis and a succinct treatment diagram.
- Recognizing the main viruses and fungal infections.

<b>003NDSVI2</b>	<b>Notions of Etiquette</b>	<b>1 Cr.</b>
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This course contributes to the personal development of each student. It covers basic notions of manners associated with body language to enhance interpersonal relationships. The course defines what is permitted or prohibited and outlines the obligations individuals have toward one another. By the end of this course, students will be able to read and interpret others' body language and respond appropriately to their environment.

<b>003NUFOI1</b>	<b>Nutrition and Oral Health</b>	<b>2 Cr.</b>
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This basic nutrition course is designed for first- and second-year undergraduate dental students who have a solid background in cell biology and physiology. It aims to provide a comprehensive understanding of nutrition and its vital role in maintaining oral health and preventing disease.

<b>003OBCL11</b>	<b>Clinical Observation 1</b>	<b>1 Cr.</b>
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Following this clinical training, first-year students will become familiar with the dental work environment, including the products, instruments, and techniques used. They will also learn how to conduct bibliographic research on topics of interest.

<b>003OBCL12</b>	<b>Clinical Observation 2</b>	<b>2 Cr.</b>
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Following this clinical training, first-year students will become familiar with the dental work environment, including the products, instruments, and techniques used. They will also learn how to conduct bibliographic research on topics of interest.

<b>003OCL13</b>	<b>Clinical Observation 3</b>	<b>2 Cr.</b>
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This clinical training enables students to:

- Identify the main reason for the patient's consultation and outline the history of the present illness, accurately recording the data as part of the patient's medical history, including recent medication prescriptions.
- Compile a file with the patient's medical data.
- Conduct appropriate extra-oral and intra-oral examinations.
- Differentiate between periodontal health and periodontal disease.
- Differentiate between pulpal health, periapical health, pulpal disease, and periapical disease.
- Examine the dentition to detect carious lesions, wear patterns such as abrasion, attrition, erosion, and other hard dental tissue lesions.
- Locate and assess the extent and degree of carious lesions, dental wear patterns, and any other dental anomalies or injuries.
- Understand medical imaging methods applied in dentistry.

<b>003OCL14</b>	<b>Clinical Observation 4</b>	<b>2 Cr.</b>
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By the end of this course, students will be able to welcome patients, describe patient examination procedures, cite dental nomenclature and associated equipment, and recognize the basics of ethics and professionalism.

<b>003OCCL5</b>	<b>Occlusodontics 2</b>	<b>1 Cr.</b>
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By the end of this course, students will be able to analyze occlusion, use imaging for diagnostic purposes, and perform constructive non-invasive medical or occlusal treatments.

<b>003OCCL6</b>	<b>Occlusodontics 1</b>	<b>1 Cr.</b>
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This required course is taught in the 3<sup>rd</sup> year, complemented by practical work (003TPC216). It enables students to recognize the different components of the masticatory system and understand their functions, simulate mandibular movements on the articulator, and interpret the creation and indication of different types of interocclusal plates to address masticatory system dysfunctions.

<b>003ODOPS1</b>	<b>Pediatric Dentistry 1</b>	<b>1 Cr.</b>
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By the end of this course, students will be able to develop a comprehensive pediatric dental treatment plan, take charge of a child patient effectively, and provide all necessary pediatric dental treatments.

<b>003ODOPS2</b>	<b>Pediatric Dentistry 2</b>	<b>1 Cr.</b>
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By the end of this course, students should be able to manage pediatric patients and provide all essential dental treatments for children.

<b>003ORPL3</b>	<b>Professional Organization (in Arabic)</b>	<b>1 Cr.</b>
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This common required course, taught in the 5<sup>th</sup> year, familiarizes students with their rights and obligations towards the Lebanese Dental Association, the Lebanese state, and their patients.

<b>003PAROS1</b>	<b>Periodontology 2</b>	<b>2 Cr.</b>
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This course trains students in diagnosing and developing treatment plans for patients with periodontal disease.

<b>003PAROI5</b>	<b>Periodontology 1</b>	<b>2 Cr.</b>
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This course trains students in diagnosing and developing treatment plans for patients with periodontal disease.

<b>003PATDI4</b>	<b>Dental Pathology 1</b>	<b>2 Cr.</b>
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This required course enables students to assimilate neurophysiological principles in the maxillofacial sphere and the principles of general pharmacology.

<b>003PATDI5</b>	<b>Dental Pathology 2</b>	<b>2 Cr.</b>
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By the end of this required course, students will be able to apply the knowledge acquired to diagnose and plan treatment for the main pathologies causing dento-maxillofacial pain.

<b>003PCMFS3</b>	<b>Maxillofacial Pathology and Surgery</b>	<b>1 Cr.</b>
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This course addresses maxillofacial surgery, focusing on sinusitis of various origins, dental-related sinusitis, bone reconstruction of the jaws, and the surgical treatment of jaw tumors and fractures. Students will also learn orthognathic surgery techniques, as well as the classification and repair of cleft lip and palate.

<b>003PATOS1</b>	<b>Oral and Surgical Pathology</b>	<b>2 Cr.</b>
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By the end of this required course, students will be able to formulate diagnostic and therapeutic hypotheses based on clinical cases.

<b>003PHARS1</b>	<b>Pharmacology</b>	<b>2 Cr.</b>
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This course introduces the science of pharmacology, focusing on understanding the therapeutic actions and side effects of medications. Students will learn the general principles of pharmacology and the main classes of medications, providing them with the foundation for the proper use of drugs in dental practice.

By the end of the first part of the course, students will be able to:

- Understand the two main bases of pharmacology:
  - o Pharmacokinetics: The action of the body on the drug
  - o Pharmacodynamics: The action of the drug on the body
- Identify the four components of pharmacokinetics: Absorption, Distribution, Metabolism, and Elimination
- Apply the principles of pharmacodynamics

By the end of the second part of the course, students will be able to:

- Know the pharmacological properties of certain classes of medications
- Recognize the safety principles of medical prescribing practice.

<b>003PHYOI1</b>	<b>Physiology 1</b>	<b>2 Cr.</b>
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This required course is taught in the first semester of the first year through interactive lectures and tutorials. It is crucial in the educational spiral, particularly for the integration of the major body functions and pharmacology courses. The course aims to develop knowledge on the fundamental principles of maintaining the internal balance of the human body (Homeostasis), and to apply these principles in an integrative reflection.

<b>003PHYSI2</b>	<b>Physiology 2</b>	<b>1 Cr.</b>
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This required course is taught in the first semester of the first year through interactive lectures and tutorials. It is crucial in the educational spiral, particularly for the integration of the major body functions and pharmacology courses. The course aims to develop knowledge on the fundamental principles of maintaining the internal balance of the human body (Homeostasis), and to apply these principles in an integrative reflection.

<b>003PHYSI3</b>	<b>Special Physiology</b>	<b>3 Cr.</b>
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This required course is taught in the first semester of the second year. It is important in the teaching spiral, particularly for semiology and clinical pharmacology courses. This course aims to develop students' knowledge on the major functions of the organism, grouped by organ systems, which are essential for understanding the homeostasis of the human body as a whole.

<b>003PHYS1</b>	<b>Physics</b>	<b>2 Cr.</b>
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This required course allows dental students to master the principles of biomechanics, geometrical optics, bioelectricity, and fluid mechanics, and to understand the related phenomena. By the end of this course, students will link physical laws to their medical applications, particularly in dental medicine.

<b>003PORTS2</b>	<b>Portfolio</b>	<b>2 Cr.</b>
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By the end of this course, students will be able to:  
 Apply theoretical knowledge to enhance dental practice.  
 Plan and implement a strategic plan to overcome clinical incompetencies.  
 Familiarize themselves with the concept of continuous self-learning.

<b>003PRESS3</b>	<b>Case Presentation</b>	<b>2 Cr.</b>
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This course involves an audio-visual presentation of one or more clinical cases managed by students in a clinical setting. Students will establish diagnostic elements, justify their treatment plan choices, and discuss the advantages and disadvantages of the treatments performed, based on current scientific references.

<b>003PCIPS4</b>	<b>Interprofessional Clinical Case Presentation</b>	<b>1 Cr.</b>
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By the end of this course, students will be able to understand and interpret the relationships between systemic diseases and various dental disciplines.

<b>003PROBS4</b>	<b>Oral, Written, and Portfolio Probation</b>	<b>3 Cr.</b>
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This course is designed to assess dental students after 5 years of study. They will face an examination jury to demonstrate the level of their educational progress before obtaining their final diploma. This assessment consists of 3 main components:

Students will orally present and defend clinical cases they have treated. They must explain their diagnoses, justify their chosen treatment plans, and discuss the outcomes achieved. The jury will ask questions related to students' overall education and specific discipline-related queries.

Students will respond to a set of multiple-choice questions (MCQs) covering the entirety of their education. This written exam verifies their comprehensive understanding of the subjects studied over the 5 years.

Students will submit a portfolio containing evidence of their clinical and academic skills acquired throughout their education. This portfolio includes clinical case reports, evaluations from their supervisors, and personal reflections on their professional development.

<b>003PRMES3</b>	<b>Thesis Project</b>	<b>1 Cr.</b>
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This course equips students with the required research skills to plan and manage a research project.

<b>003PRA1I5</b>	<b>Removable Prosthesis 2</b>	<b>1 Cr.</b>
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This common course enables students to manage complete edentulism from clinical examination to handling emergencies, including rehabilitation with a complete denture.

<b>003PRA1S1</b>	<b>Removable Prosthesis</b>	<b>2 Cr.</b>
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This course focuses on the design of partial metal removable dentures, including plate tracing, parallel study of plaster models, and pre-prosthetic preparation.

<b>003PRA2I6</b>	<b>Removable Prosthesis 3</b>	<b>1 Cr.</b>
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By the end of this course, students will be able to plan the management of clinical challenges in complete dentures.

<b>003PROAI3</b>	<b>Removable Prosthesis 1</b>	<b>2 Cr.</b>
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By the end of this common course, students will be able to manage partial edentulism, from clinical examination to emergencies, including rehabilitation with an acrylic partial denture.

<b>003PRCFS1</b>	<b>Fixed Prosthesis</b>	<b>1 Cr.</b>
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By the end of this course, students will be able to evaluate prosthetic parameters and their relationships with other specialties. They will also be able to make a prognosis and explain the causes of bridge failures. By the end of these courses, students will be able to analyze occlusion, use imaging to make a diagnosis, and perform constructive non-invasive medical or occlusal treatments.

<b>003PRFPI5</b>	<b>Fixed Prosthesis Plural</b>	<b>2 Cr.</b>
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By the end of this course, students will be able to recognize the basic principles and therapeutic steps in plural fixed prostheses.

<b>003PRFUI3</b>	<b>Fixed Prosthesis Course</b>	<b>1 Cr.</b>
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By the end of this course, students will be able to recognize the basic principles of preparations and therapeutic steps in single fixed prosthesis.

<b>003PITPS2</b>	<b>Implant Prosthesis + Lab</b>	<b>2 Cr.</b>
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By the end of this course, students will be able to:

- Establish an implant treatment plan.
- Distinguish between different types of supra-implant prostheses (screw-retained or cemented, metal-acrylic, and metal-ceramic).
- Recognize the role of healing screws.
- Assess the height and thickness of the peri-implant gingiva (concept of emergence profile).
- Choose and screw the impression transfer.
- Perform the impression using the chosen technique ("pick-up" or repositioning).
- Choose and attach the implant analogue to the impression transfer.
- Describe the casting of a positive model with artificial gingiva.
- Select and use screwdrivers suited to the different systems used.
- Describe the different types of abutments, specifying the type of superstructure they allow (screw-retained or cemented).
- Describe the advantages and limitations of different prosthetic abutments to better determine their indications.
- Recognize the importance of radiological control at all stages of construction and fitting.

<b>003PSYMI3</b>	<b>Medical Psychology</b>	<b>1 Cr.</b>
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This course enables students to:

- Learn psychological concepts related to the medical field.
- Understand the developmental specifics of each life phase (childhood, adolescence, adulthood, and elderly) and their perceptions and reactions to illness.
- Learn how to address patients of various ages and psychological profiles as a dentist.
- Recognize the importance of the doctor-patient relationship and effective communication.

<b>003PUSPI4</b>	<b>Public Speaking</b>	<b>1 Cr.</b>
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The course explores the basic principles and concepts of oral communication in a variety of speaking formats. It develops student skills in speech content creation and delivery, focusing on language, style, voice, audience analysis, reasoning and communication strategy. The course also explores the effective use of visual aids to enhance speech communication.

<b>003RADII5</b>	<b>Radiology and Radioprotection</b>	<b>2 Cr.</b>
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This course introduces the properties of X-rays and the principles of radiation physics. Students will learn techniques for radiation protection and will study intraoral and extraoral X-ray methods, including RVG, Scanora, and CT scans used in maxillofacial treatments.

<b>003APPRI4</b>	<b>Problem Solving APP 1</b>	<b>2 Cr.</b>
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This course uses problem-based learning (PBL) through a two-stage group process. In the first session, students will read a problem, identify key terms, highlight important ideas, list issues to clarify, organize hypotheses, and formulate learning objectives before completing individual work. In the second session, students will review and verify the learning objectives and hypotheses, followed by a synthesis and evaluation conducted by the instructor.

<b>003APPRI5</b>	<b>Problem Solving APP 2</b>	<b>1 Cr.</b>
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This course applies problem-based learning (PBL) to help students develop practical skills through real or simulated clinical cases. Students will integrate theoretical knowledge into practical situations and gain experience in patient care. They will also strengthen their communication skills by asking relevant questions, listening attentively, and explaining complex concepts clearly to peers and patients.

Each PBL session has two parts. In the outgoing session, the clinical case is presented as it would appear in a private dental office. In the return session, students will work in groups to identify the components of the problem, analyze them, and develop scientific and practical solutions.

<b>003ROCLI6</b>	<b>Clinical Rotation</b>	<b>2 Cr.</b>
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This course prepares third-year students for clinical practice by allowing them to assist fourth-year students throughout the second semester. Students will gain hands-on experience, develop their clinical skills, and integrate into the dental care team before performing the procedures they have learned theoretically or in practical training. The objectives of this clinical rotation are:

- Strengthening clinical skills
- Understanding various dental procedures
- Gaining proficiency in using instruments and materials
- Promoting teamwork, collaboration, and mentoring
- Developing case management skills
- Enhancing the quality-of-care
- Understanding assessment Methods

<b>003SBSP16</b>	<b>General and Oral Health of the Young Adult</b>	<b>2 Cr.</b>
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This course enables students to recognize the particularities of oral health care for adolescents and to manage adolescent patients.

It also enables students to define the principles of medical ethics, control stress, master communication techniques, update treatments in line with developments in dentistry, and manage finances. Students will learn to manage preventive and curative dental care adapted to the needs and particularities of the patient, practicing dentistry in accordance with the rules of ethics, jurisprudence and professional deontology.

<b>003SEMEI3</b>	<b>Pathological Semiotics 1</b>	<b>1 Cr.</b>
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This course enables students to identify and describe the signs and symptoms of syndromes and medical pathologies having significant repercussions on public health, in particular certain general diseases that can affect the oral cavity and which dentists may encounter in daily practice.

By the end of the course, students will be able to:

- Identify the clinical manifestations of the most common diseases in outpatient internal medicine.
- Mention the paraclinical tests used
- Identify and control the different cardiovascular risk factors
- Understand the current indications and prescription methods for antibiotic prophylaxis for infective endocarditis
- Analyze the benefit/risk ratio of medications commonly used in oral medicine in subjects at risk (non-steroidal anti-inflammatories, etc.)
- Engage in small projects to develop skills; sense of communication, autonomy, and creativity.

<b>003SÉMPI4</b>	<b>Pathological Semiotics 2</b>	<b>2 Cr.</b>
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By the end of these courses, students will be able to list the indications, contraindications, and side effects of medications, and to describe certain general diseases that may affect the oral cavity.

They will also be able to describe medical syndromes that are commonly encountered in everyday life.



<b>003SENAI2</b>	<b>Awareness of Anxiety</b>	<b>1 Cr.</b>
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This course covers the different manifestations of anxiety, its risk factors, and the psychiatric illnesses associated with it. It addresses anxiety as a spectrum, ranging from normal to pathological, and explores various strategies for managing anxiety and the factors that promote well-being.

<b>003SOIU1</b>	<b>Emergency Care 1 (in Arabic)</b>	<b>1 Cr.</b>
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This required first-year course introduces students to their medical role in prevention and basic life support BLS techniques as responders. It includes practical training, enabling students to practice BLS techniques on classmates or mannequins in real-time and ensure the proper acquisition of these skills.

By the end of this course, students will be able to prevent and manage the complications in emergency situations.

<b>003SOIUS4</b>	<b>Emergency Care 3 (in Arabic)</b>	<b>1 Cr.</b>
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This required course is taught in the fifth year to meet international requirements for updating resuscitation skills every 2 years. It includes practical training and covers the medico-legal aspects of medical emergencies in the dental office, ensuring future dentists are responsible in their professional practice.

By the end of this course, students will be able to modify the modalities of their interventions in the dental office to prevent clinical complications in patients at risk and to manage medical emergencies that may arise following dental care.

<b>003SOIU16</b>	<b>Emergency Care 2 + Lab (in Arabic)</b>	<b>1 Cr.</b>
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This required course is taught in the third year to meet international requirements for updating resuscitation skills every 2 years. It includes practical training and covers the pathophysiological aspects of medical emergencies in the dental office, linking science to the practical side of BLS.

By the end of this course, students will be able to assess the needs for preventive modifications of interventions, recognize patients at risk, and manage medical emergencies that may arise following dental care.

<b>003TPADI1</b>	<b>Dental Anatomy Lab 1</b>	<b>2 Cr.</b>
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This required practical work is conducted in the first year and is the application of the courses 003ANDEI1 and 003ANDEI2. During this practical work, students will reproduce in a block of wax, a typical tooth shape (incisor, canine, premolar and molar). This practical work is based on 2 aspects: drawing and sculpture. The common objective is to deepen the knowledge of the morphology of each category of teeth, develop the sense of observation and master the three-dimensional reproduction of a natural tooth.

<b>003TPADI2</b>	<b>Dental Anatomy Lab 2</b>	<b>2 Cr.</b>
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This required practical work is conducted in the first year and is the application of the courses 003ANDEI1 and 003ANDEI2. During this practical work, students will reproduce in a block of wax, a typical tooth shape (incisor, canine, premolar and molar). This practical work is based on 2 aspects: drawing and sculpture. The common objective is to deepen the knowledge of the morphology of each category of teeth, develop the sense of observation and master the three-dimensional reproduction of a natural tooth.

<b>003TPAPI6</b>	<b>Pathological Anatomy Lab</b>	<b>1 Cr.</b>
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This course introduces the role of pathology in diagnosing and managing diseases. Students will learn different techniques of microscopic examination, understand essential basic pathological processes, and explore how clinico-pathological correlation impacts disease diagnosis and management.

<b>003TPBHI2</b>	<b>Biology + Histology Lab</b>	<b>1 Cr.</b>
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This course introduces students to a variety of plant and animal cells and organisms while familiarizing them with laboratory instruments and techniques, including microscopy and scientific drawing. Students will learn observation and experimentation methods and how to write laboratory reports. The practical work allows students to apply theoretical concepts through personal, experimental experiences of the living world. Meetings with instructors take place outside the amphitheater or tutorial room, fostering deeper discussions and focused guidance on techniques related to specific themes.



<b>003TPCOS2</b>	<b>Community Lab</b>	<b>1 Cr.</b>
This course trains dental students in providing child-friendly oral care while fostering an understanding of community dentistry, preparing them to offer quality care to children and contribute to the oral health of the community.		
<b>003TPDDS2</b>	<b>Digital Dentistry Lab</b>	<b>1 Cr.</b>
This required preclinical practical course is offered in the fourth year of dental medicine. It familiarizes students with various software applications for integration into the daily workflow.		
<b>003TPR2I6</b>	<b>Restorative Dentistry Lab 4</b>	<b>3 Cr.</b>
This required preclinical practical course is offered in the 3 <sup>rd</sup> year of dentistry, semester 6. It applies the concepts taught in the course 003DER1I5.		
<b>003TPDRI3</b>	<b>Restorative Dentistry Lab 1</b>	<b>1 Cr.</b>
This required preclinical practical course is offered in the 2 <sup>nd</sup> year of dentistry, semester 3. It is the practical application of the course 003DER1I5.		
<b>003TPR1I5</b>	<b>Restorative Dentistry Lab 3</b>	<b>2 Cr.</b>
This required preclinical practical course is offered in the 3 <sup>rd</sup> year of dentistry, semester 5. It applies the concepts taught in the course 003DER1I5.		
<b>003TPDRI4</b>	<b>Restorative Dentistry Lab 2</b>	<b>1 Cr.</b>
This required preclinical practical course is offered in the 2 <sup>nd</sup> year of dentistry, semester 4. It is the practical application of the course 003DER1I5.		
<b>003TPDHI4</b>	<b>Dental Development and Histology Lab</b>	<b>1 Cr.</b>
This common required course is offered in the 2 <sup>nd</sup> year and serves as the practical application of the course 003DEHI4. It interprets histological sections of certain dental tissues.		
<b>003TPE1I5</b>	<b>Endodontics Lab 1</b>	<b>2 Cr.</b>
This course focuses on preclinical work.		
<b>003TPE2I6</b>	<b>Endodontics Lab 2</b>	<b>2 Cr.</b>
This course focuses on preclinical work.		
<b>003TPERI5</b>	<b>Ergonomics and Infection Control Lab</b>	<b>2 Cr.</b>
This course aims to: <ul style="list-style-type: none"> <li>1. Raise students' awareness of the importance of infection control in dental practice.</li> <li>2. Familiarize students with various infection control techniques.</li> <li>3. Familiarize students with the dental chair, the work area, and dental ergonomics.</li> </ul>		
<b>003TPOCI6</b>	<b>Occlusodontics Lab</b>	<b>1 Cr.</b>
This course provides practical work in occlusodontics, focusing on articulator mounting and the fabrication of muscle relaxation devices such as bite planes and splints. Students will understand occlusal physiology, learn impression techniques, practice articulator mounting, use the Lucia jig, and fabricate bite planes and splints. These sessions familiarize students with the technical skills required to design, fabricate, and adjust muscle relaxation devices while developing their understanding of fundamental occlusal principles.		

<b>003TPOPS1</b>	<b>Pediatric Dentistry Lab</b>	<b>1 Cr.</b>
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By the end of this course, students should be able to take charge of a child and provide all necessary pediatric dental therapeutics.

<b>003TPPAI6</b>	<b>Periodontology Lab</b>	<b>1 Cr.</b>
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This mandatory course, offered in the third year, focuses on periodontal charting and the treatment of simple periodontal disease.

<b>003TPA1I5</b>	<b>Removable Prosthesis Lab 1</b>	<b>2 Cr.</b>
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This required common course, offered in the first semester of the third year, is related to the third-year theoretical course. Students will perform the laboratory steps for the fabrication of a complete denture.

<b>003TPA2I6</b>	<b>Removable Prosthesis Lab 2</b>	<b>1 Cr.</b>
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This required common practical course, offered in the second semester of the third year, applies the concepts learned in course 003PRA1I5. Students will perform the laboratory steps for the fabrication of a complete denture.

<b>003TPA2S2</b>	<b>Removable Prosthesis Lab 4</b>	<b>1 Cr.</b>
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This common course enables students to create a complete denture on a phantom model.

<b>003TPA1S1</b>	<b>Removable Prosthesis Lab 3</b>	<b>1 Cr.</b>
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This required practical course, offered in the 1<sup>st</sup> semester of the 4<sup>th</sup> year, applies concepts from ECTS 003PRA1S1. It is aimed at performing laboratory steps for fabricating a skeletal partial denture.

<b>003TPPFI5</b>	<b>Fixed Prosthesis Lab 1</b>	<b>2 Cr.</b>
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This required practical course in single fixed prosthodontics, following the theoretical course, is offered in the 3<sup>rd</sup> year (semester 5).

Students will prepare teeth for a 3-unit bridge and fabricate a provisional bridge from a cold acrylic block on a simulated model for prosthetic rehabilitation.

<b>003TPFI6</b>	<b>Fixed Prosthesis Lab 2</b>	<b>2 Cr.</b>
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This required practical course in single fixed prosthodontics, following the theoretical course, is offered in the second semester of the 3<sup>rd</sup> year. Students will perform all the steps involved in creating a 3-unit provisional bridge on a simulated model.

<b>003TPPFI3</b>	<b>Fixed Prosthesis Course Lab 1</b>	<b>1 Cr.</b>
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This required practical course in single fixed prosthodontics, following the theoretical course, is offered in the 2<sup>nd</sup> year (semester 3). Students will prepare a single tooth on a simulated model for prosthetic rehabilitation.

<b>003TPPFI4</b>	<b>Fixed Prosthesis Course Lab 2</b>	<b>2 Cr.</b>
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This required practical course in single fixed prosthodontics, following the theoretical course, is offered in the 2<sup>nd</sup> year, 4<sup>th</sup> semester.

Students will fabricate a provisional restoration on a prepared tooth on a simulated model for prosthetic rehabilitation.

<b>003TPPAI3</b>	<b>Acrylic Partial Prosthesis Lab 1</b>	<b>1 Cr.</b>
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By the end of this course, students should be able to perform the initial laboratory steps for the fabrication of an acrylic partial denture on a simulated model.

<b>003TPPAI4</b>	<b>Acrylic Partial Prosthesis Lab 2</b>	<b>1 Cr.</b>
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By the end of this course, students should be able to perform the final laboratory steps for the fabrication of a partial denture.

<b>003TUTOS4</b>	<b>Guidance + Multidisciplinary Clinic</b>	<b>1 Cr.</b>
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This course aims to supervise the cases of 4<sup>th</sup> and 5<sup>th</sup>-year students under the guidance of an instructor. Its objectives are to ensure the efficient operation of multidisciplinary sessions, monitor students' progress throughout the academic year, and guarantee that patients are properly monitored and treated in a timely manner.