# GENERAL OBJECTIVES OF SEMESTERS AND ECTS

## 2013-2014

### 1st semester: Introduction to the odontology-oral ecosystem

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<thead>
<tr>
<th>Module</th>
<th>ECTS</th>
<th>General objectives</th>
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</thead>
</table>
| M1     | 8    | - Describe the physical working environment  
- Use a virtual work environment  
- Describe the future professional environment  
- Read and speak in fluent English |
| M2     | 3    | - Describe the morphology, anatomical location and physiology of the human organs (involved in oral problems)  
- Describe behaviour laws for dental materials  
- Understand the relationship between the composition and structure of the dental materials and their properties.  
- Know the basic vocabulary for the behavior of a dental material |
| M5     | 13   | - Explain the relationship between the teeth, periodontium, oral mucosa, saliva and microorganisms  
- Describe the growth and development of the oro-facial complex  
- Define the concept of ecosystem and describe the balancing and unbalancing factors |
| M7     | 4    | - Describe the relationship between public health and dentistry  
- Indicate the extent of the influence of sociological and ethical factors on the dental health and the profession practice  
- Identify the differences between ethics, morality and dental law  
- Know and apply ethical principles of privacy and patient approach |
### 2nd semester: Prevention of gingival inflammation and caries

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| M1     | 4    | - Use information and communication technology in the training course  
- Read and speak in fluent English |
|        |      | - Detect cardiorespiratory vital emergency, contact structures medical care (AFGSU : level 1)  
- Implement radiation protection measures towards patients and professionals  
- Perform and interpret intra-oral and panoramic radiographs.  
- Explain the immune system (innate and acquired)  
- Describe the molecular mechanisms of hemostasis. |
| M2     | 6    | - Prevent tooth decay and bacterial gingivitis  
- Explain (to the patient) these diseases’ etiological factors  
- Teach oral hygiene methods and monitor their effectiveness |
| M4     | 5    | - Describe the orofacial anatomy: facial muscles, blood circulation  
- Explain the physiology of mastication  
- Describe the ideal maxillo-mandibular relationship |
| M5     | 8    | - Develop an ethical therapeutic relationship with patients  
- Identify legal and regulatory aspects of the medical dossier  
- Develop a therapeutic relationship in oral health education  
- Establish an appropriate relationships with others |
| M7     | 5    | - Characterize the various organizations and research structures  
- Characterize the various types of research (clinical, basic, transrational)  
- Identify the basic statistical tools |
| M8     | 2    | - Characterize the various organizations and research structures  
- Characterize the various types of research (clinical, basic, transrational)  
- Identify the basic statistical tools |
**3th semester: Early treatments of gingival inflammation and caries**

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| M1     | 4    | - Identify and prioritize documentary resources to solve a clinical case  
        |      | - Read scientific and medical English  
        |      | - Understand the principles of the critical analysis and reading |
| M2     | 4    | - Describe the morphology, anatomical location and physiology of the human organs (liver, kidney, digestive and endocrine system)  
        |      | - Evaluate the clinical and pathological contexts of a patient  
        |      | - Identify and characterize the patient's medication |
| M3     | 2    | - Identify the components of pain  
        |      | - Perform local and locoregional anesthesia |
| M4     | 8    | - Prevent tooth decay  
        |      | - Treat patients with initial and/or established caries  
        |      | - Implement procedures for treatment of gingivitis |
| M5     | 3    | - Describe the orofacial anatomy: head and neck innervation, anatomy/physiology of periodontal ligament, cement and alveolar bone |
| M6     | 2    | - Describe the physiology of the TMJ in the dentate patient  
        |      | - Establish an interpersonal relationship  
        |      | - Identify and analyze the conditions during the practitioner-patient conversation: verbal and non-verbal  
        |      | - Identify and analyze the psychological state of the patient during the care  
        |      | - Adopt an ethical approach in clinical stages  
        |      | - Write, according to the ethical rules, professional writing  
        |      | - Apply the rules of confraternity |
| M7     | 3    | - Analyze a scientific publication from laboratory research  
        |      | - Identify some laboratory techniques commonly used |
| M8     | 2    | - Analyze a scientific publication from laboratory research  
        |      | - Identify some laboratory techniques commonly used |
# 4th semester: Surgical treatment of caries and periodontitis diagnosis

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| M1     | 4    | - Be able to prioritize resources to solve a clinical situation  
|        |      | - Apply the classification of professional acts  
|        |      | - Read, speak in fluent English  
|        |      | - Manage a potential emergency (AFGSU: level 2)  
|        |      | - Describe the families of anti-inflammatory drugs, antibiotics, hemostatics and write a prescription  
|        |      | - Describe the interactions between dental care and cardiovascular, pulmonary, endocrine, gastrointestinal and hematological diseases |
| M2     | 4    | - Définir et connaître la douleur aiguë  
|        |      | - Adapt a right posture in the work environment  
|        |      | - Take a clinical decision against/to prevent pain  
|        |      | - Define and know the acute pain |
| M3     | 2    | - Diagnose pulp, periapical and periodontal diseases  
|        |      | - Treat the pulp inflammatory and necrotic pulp  
|        |      | - Assess the carie risk in children  
|        |      | - Practice surgical treatment of caries to preserve pulp vitality  
|        |      | - Restore the masticatory function of teeth affected by advanced caries  
|        |      | - Diagnose periodontitis |
| M4     | 6    | - Describe the oral and facial anatomy: regional anatomy  
|        |      | - Describe the child’s general development  
|        |      | - Describe the various dentition and the phenomena of dentition  
|        |      | - Describe the components required for the diagnosis of functional disorders and dysmorphoses |
| M5     | 3    | - Assess the functional disorders related to a loss of dental substance  
|        |      | - Treat the disorders associated to partial or total loss of the tooth crown  
|        |      | - Identify the musculoskeletal dysfunctions of the masticatory system |
| M6     | 5    | - Identify the manifestations of anxiety and the resistance to treatment  
|        |      | - Differentiate the somatic and psycho-affective component of pain  
|        |      | - Describe the psychological development of children and adolescents  
|        |      | - Understand the legal patient/practitioner relationship  
|        |      | - Identify and describe the behavioral characteristics towards health  
|        |      | - Describe the rules of the care contract |
| M7     | 2    | - Perform a critical analysis of scientific laboratory research publication  
|        |      | - Identify some laboratory techniques, commonly used |
| M8     | 2    | - Perform a critical analysis of scientific laboratory research publication  
|        |      | - Identify some laboratory techniques, commonly used |
**5th semester: Diagnosis and treatment of oral infections. Presentation of the edentulous patient.**

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| M1     | 1    | - Identify and perform different types of prescription  
       |       | - Use the professional web resources |
| M2     | 2    | - Describe interactions between diseases and dental treatment  
       |       | - Explain the development and treatment of viral, parasitic and fungal infections  
       |       | - Diagnose pulp, peri-apical and periodontal disease, in adults  
       |       | - Treat the diseases of the inflammatory and necrotic pulp  
       |       |   - (simple anatomy easy - easy accessibility)  
       |       | - Perform non-surgical treatment of periodontitis  
       |       | - Diagnosing infectious diseases of the head and neck area, from dental origin  
       |       | - Treat diseases of the inflammatory and necrotic pulp (difficult anatomy - difficult accessibility) |
| M4     | 4    | - Describe the regional anatomy: aerodigestive tracts, tonsillar region, nasal and sinus cavities  
       |       | - Diagnose the oral mucosa diseases  
       |       | - Describe the simple surgical procedures  
       |       | - Diagnose infectious diseases of dental origin, not correlated with caries (péricoronarites, cysts)  
       |       | - Diagnose the dysmorphoses |
| M5     | 1    | - Describe the regional anatomy: aerodigestive tracts, tonsillar region, nasal and sinus cavities  
       |       | - Diagnose the oral mucosa diseases  
       |       | - Describe the simple surgical procedures  
       |       | - Diagnose infectious diseases of dental origin, not correlated with caries (péricoronarites, cysts)  
       |       | - Diagnose the dysmorphoses |
| M6     | 4    | Identify and implement appropriate treatment, to restore the function of a dentulous or partially edentulous patient |
| M7     | 1    | - Establish appropriate relationships with others in stressful situations  
       |       | - Identify the emotional issues in the practitioner-patient relationship  
       |       | - Analyze the psychology of emergency  
       |       | - Identify the practitioner’s attitude with the demands for care  
       |       | - Understand the methodology and tools for oral health education, according to the various countries  
       |       | - Know the ethical rules in governing concerning the prohibition of advertising and the redirecting of patients. |
| M8     | 1    | Develop a clinical research project |
### 6th semester: Treatments of the temporomandibular joint disorders

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| M1     | 1    | - Argue a clinical decision, based on publications with high-level evidence  
|        |      | - Know the french health system and have knowledge on the other European systems  
|        |      | - Through a critical reading of clinical or epidemiological articles: identify the type of the study; assess the potential bias, interpret the results of a simple statistical analysis, interpret the results of multivariate analysis and meta-analyses  |
| M2     | 2    | - Describe the interactions between infectious, musculoskeletal and immune diseases and the dental treatments  
|        |      | - Describe the major genetic diseases affecting the teeth and the craniofacial bone.  |
| M3     | 1    | - Manage the acute and prolonged musculoskeletal pain  
|        |      | - Describe the principles of anesthesia in children  |
| M4     | 4    | - Prevent the tooth decay in children and adolescents  
|        |      | - Identify and implement non-surgical treatment in children and adolescents  
|        |      | - Identify and implement therapeutic to treat initial enamel lesions in children and adolescents  
|        |      | - Diagnose dental trauma in children and adolescents and prescribe a treatment  
|        |      | - Diagnose secondary carious lesions and implement the retreatment of the restorations  
|        |      | - Treat surgically periodontal diseases  |
| M5     | 1    | - Diagnose and manage oral diseases  
|        |      | - Apply the procedures of complex extractions  
|        |      | - Manage the complications of extractions  
|        |      | - Diagnose and treat the bone and salivary diseases  |
| M6     | 4    | - Treat the mastication’s disorders related to the loss of teeth  
|        |      | - Manage the musculoskeletal dysfunctions of the masticatory system  
<p>|        |      | - Understand the management of patients with aesthetic problems, altering their quality of life  |
| M7     | 1    | - Describe the various dimensions of the quality of life related to health  |</p>
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<thead>
<tr>
<th>M8</th>
<th>1</th>
<th>Develop a clinical research project (2)</th>
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- Analyse the impact of the inclusion of subjective data from the patient in the health assessment
- Describe the cognitive-behavioral approaches used in dentistry for adults
- Describe the psychomotor development of the child
- Describe the rules concerning the advertising
- Describe the rules of medical confidentiality, consent, information and responsibility of the medical documents
- Analyze the ethical issues from a deviant behavior of the practitioner
**7th semester: Diagnose and treat the functional disorders of the masticatory system and restore the oral functions by prosthesis**

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<tbody>
<tr>
<td>M1</td>
<td>1</td>
<td>- Provide a quote</td>
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<tr>
<td>M2</td>
<td>2</td>
<td>- « AFGSU » level 3 &lt;br&gt;- Describe interactions between pediatric and neurological pathologies and the dental management</td>
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<tr>
<td>M4</td>
<td>3</td>
<td>- Diagnose and indicate the treatment of pulp, peri-apical and periodontium diseases, in children and adolescents &lt;br&gt;- Identify and describe restorative treatments on primary and immature permanent teeth &lt;br&gt;- Diagnose and manage the traumas of primary and immature permanent teeth &lt;br&gt;- Diagnose and treat the non-caries lesions in permanent teeth &lt;br&gt;- Know the indications and the techniques of endodontic retreatments &lt;br&gt;- Identify periodontal osseous defects and describe treatments</td>
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<tr>
<td>M5</td>
<td>2</td>
<td>- Identify, describe and manage the benign tumors &lt;br&gt;- Diagnose and manage a trismus &lt;br&gt;- Describe and manage head and neck adenopathies &lt;br&gt;- Describe head and neck cancers &lt;br&gt;- Describe maxillofacial fractures</td>
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<tr>
<td>M6</td>
<td>5</td>
<td>- Treat the mastication’s disorders, related with the loss of teeth &lt;br&gt;- Describe and prescribe prosthetic therapeutics (fixed, removable and implants) &lt;br&gt;- Understand the elderly and its treatment &lt;br&gt;- Understand the person with disabilities &lt;br&gt;- Describe and analyze the medical risk &lt;br&gt;- Know the various types of professional exercise, from an ethical point of view and notions from the European ethical rules &lt;br&gt;- Describe and analyze the concept of therapeutic decision &lt;br&gt;- Identify the notion of time management &lt;br&gt;- Conduct an interview to organize and coordinate a multidisciplinary treatment &lt;br&gt;- Describe and analyze the concept of burnout &lt;br&gt;- Know the hypnosis treatments &lt;br&gt;- Develop a public health action &lt;br&gt;- Describe and implement a child-centered relationship</td>
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<tr>
<td>M7</td>
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<td>- Understand the person with disabilities &lt;br&gt;- Describe and analyze the medical risk &lt;br&gt;- Know the various types of professional exercise, from an ethical point of view and notions from the European ethical rules &lt;br&gt;- Describe and analyze the concept of therapeutic decision &lt;br&gt;- Identify the notion of time management &lt;br&gt;- Conduct an interview to organize and coordinate a multidisciplinary treatment &lt;br&gt;- Describe and analyze the concept of burnout &lt;br&gt;- Know the hypnosis treatments &lt;br&gt;- Develop a public health action &lt;br&gt;- Describe and implement a child-centered relationship</td>
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8th semester: Manage the whole orofacial health of children, adolescents and adults

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| M3     | 1    | - Establish a adapted relationship with a painful patient  
|        |      | - Managing the chronic pain  
|        |      | - Diagnose and treat the internal and external resorptions  
|        |      | - Diagnose and treat the traumas of permanent teeth  
|        |      | - Diagnose and identify treatments of mucogingival defects  
|        |      | - Diagnose and identify the objectives of the treatment of peri-implant diseases |
| M4     | 3    | - Manage malocclusions in temporary and mixed dentition (interception/space maintaining)  
|        |      | - Implement restorative treatments of temporary and permanent immature teeth  
|        |      | - Diagnose and manage the dentoalveolar traumas of mature permanent teeth  
|        |      | - Integrate anatomical knowledges to clinical problems  
|        |      | - Determine the objectives of treatments of skeletal, dental, aesthetic and functional orthodontic  
|        |      | - Manage the patient treated for a head and neck cancer  
| M5     | 2    | - Treat the mastication’s disorders, related with the loss of teeth (2)  
|        |      | - Describe and prescribe prosthetic therapeutics (fixed, removable and implants) (2) |
| M6     | 4    |     |
| M7     | 2    | Able to develop a public health action |

9th and 10th semester:

- Introduction to the professionnal life  
- Course in stomatology  
- Participation of a public health action  
- A specific course to choose