Faculty of Medicine
Department of Dentistry

COURSE: Preventive and Children's Dentistry

YEAR OF STUDIES: IV, V & VI
TERM: VII, VIII, IX, X, XI & XII
FORMS OF INSTRUCTION: theoretical and practical

<table>
<thead>
<tr>
<th>Term</th>
<th>Classes per week</th>
<th>Lectures</th>
<th>practical sessions</th>
<th>Classes per term</th>
<th>Lectures</th>
<th>practical sessions</th>
</tr>
</thead>
<tbody>
<tr>
<td>VII</td>
<td>1</td>
<td>2</td>
<td>14</td>
<td>28</td>
<td>28</td>
<td>0</td>
</tr>
<tr>
<td>VIII</td>
<td>1</td>
<td>2</td>
<td>14</td>
<td>28</td>
<td>28</td>
<td>0</td>
</tr>
<tr>
<td>IX</td>
<td>2</td>
<td>0</td>
<td>28</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>X</td>
<td>1</td>
<td>2</td>
<td>14</td>
<td>28</td>
<td>28</td>
<td>0</td>
</tr>
<tr>
<td>XI</td>
<td>2</td>
<td>2</td>
<td>28</td>
<td>28</td>
<td>28</td>
<td>0</td>
</tr>
<tr>
<td>XII</td>
<td>0</td>
<td>6</td>
<td>0</td>
<td>84</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>98</td>
<td>196</td>
</tr>
</tbody>
</table>

Preventive Dentistry
Practical course

VII TERM

Teaching units

1. Introduction to the course (Preventive Dentistry), getting familiar with the Clinic and the program of practical sessions: work with children, children's waiting-room,... Practical work: Getting familiar with the workplace/job, patient's physiological position, doctor's attitude, nurse's attitude, prevention of intrahospital infections

2. Getting familiar with the peculiarities of the work with children (psychological types of children). Practical work: Initial presentation and diagnostics of different psychological types of children

3. Preparation of children and their parents for the first contact with the dentist, objectives, types and ways of communication with children and parents. Practical work: Planning of the visit, choice of health-care & educational methods and materials for children and parents, the first formal contact with the child and parents.


5. Diagnostics of the risks concerning the threatened onset of caries
Evaluation of the quality of saliva, measuring of the secreted and stimulated spittle, measuring of the acid quality of saliva, volume of saliva

6. Diagnostics of the risks concerning the threatened onset of caries
Nutrition, nutrition analysis - types and routines, diagnostics of habits. Practical work: Anamnesis of habits, questionnaires, analysis of questionnaires, diagnostics of behavior, evaluation of the data acquired concerning nutritional habits, pointing to the mistakes and correction of nutrition

7. Diagnostics of the risks concerning the threatened onset of caries
Practical work: Evaluation of the quality of saliva, measuring of the secreted and stimulated spittle, measuring of the acid quality of saliva, volume of saliva

8. Diagnostics of the risks concerning the threatened onset of caries - oral flora, composition
Practical work: Determination of the level of Streptococcus mutans, determination of the level of Lactobacilli

9. Diagnosis of the risk concerning the threatened onset of periodontal diseases
Practical work: Plaque diagnostics, routines of plaque detection, oral hygiene index, plaque daily accumulation index

10. Diagnosis of the risk concerning the threatened onset of periodontal diseases
- characteristics of a healthy gingiva in children, CPITN (PINT) Practical work: Familiarization with the characteristics of a healthy gingiva in children (color, shape, anatomical characteristics) diagnostics of the state of the gingiva (CPITN). Tests for the diagnostics of the risks of onset of periodontal diseases

11. Prophylaxis of caries and periodontopathy - oral hygiene
Practical work: Maintenance of personal hygiene - means (tooth-brush and tooth-paste, interdental stimulator, tooth-floss etc.). Tooth brushing techniques

12. Prophylaxis of caries and periodontal diseases
- Removal of dental plaque
Practical work: Removal of soft and solid masses, elimination of iatrogenic factors, control of approximal fillings, control of prosthetic substitutes

13. Caries prophylaxis
Fluorine, endogenic application of fluorine (pills, water, kitchen salt)
Practical work: Application of fluorine pills (prescription, distribution), Local application of fluoride, therapy of initial carious lesions (white spots)

14. Caries prophylaxis
### VIII TERM

**Teaching units**

1. **Diagnosics of the risks of orthodontic anomalies**
   - **Practical work:** Anamnesis focused on the presence of orthodontic anomalies in the child’s immediate family (pregnancy and delivery), dietary habits (natural / unnatural nutrition), respiration, bad dietary habits, early extraction of teeth, monitored teeth growth

2. **Interceptive orthodontic interventions**

3. **Prophylaxis of dental and mouth injuries**

4. **Health-care & educational work - methods & means**

5. **Health-care & educational work, individual work**
   - **Practical work:** Application of SMU

6. **Health-care & educational work**
   - **Practical work:** Health-care & educational in a collective (kindergarten, school)

7. **Prophylaxis of oral diseases in handicapped children**
   - visits of institutions for handicapped children

8. **Caries epidemiology**
   - **Practical work:** Caries diagnostics and caries complications, diagnostics of the diseases of soft tissues, diagnostics of periodontal diseases, diagnostics of orthodontic anomalies

9. **Indexes for the evaluation of the state of periodontium**

10. **Thorough checkup**
    - **Practical work:** Early diagnostics and planning of the treatment of carious lesions of milk and permanent dentition, preventive filling, diagnostics and curing of approximal lesions, secondary caries prevention

11. **Epidemiology of other diseases and states**
    - **Practical work:** Diagnostics of the threatened onset of neoplasms, diagnostics of precancerous lesions

12. **Dental care in schools (a visit to a school dental department)"

---

### IX TERM

**PREVENTIVE BLOCK I - THEORETICAL COURSE (2 + 0)*
(numbers in brackets stand for the number of theoretical / practical classes)*
CHILDREN'S DENTISTRY
Practical course

X. TERM

Teaching methods

1. Children's dentistry
   Peculiarities of the work with children, the first contact of the dentist with a child, psychological types of children, pain control in the work with children

2. Diagnostics of dental and mouth diseases in children
   Anamnesis, checkup, diagnosis, thorough checkup

3. X-ray diagnostics in children's dentistry
   Duration of X-raying, indications, protection during X-raying

4. Therapy planning in children's dentistry
   Significance of therapy planning, therapy planning during 'milk', mixed and permanent dentition

5. Caries of primary teeth
   Characteristics of the caries of primary teeth, localization of the caries of primary teeth

6. Peculiarities of the preparation of cavities in primary teeth
   Principles of cavity preparation, general rules of cavity preparation

7. Treatment of cavities by classes, deep cavities of primary teeth
   Caries of primary teeth - therapy

8. Diagnostics and classification of pulp diseases in milk teeth, clinical differential diagnosis of some pulp diseases
   Caries of primary teeth - therapy of complications

9. Methods of treatment, vital methods, mortal methods, other methods
   Caries of permanent teeth - therapy

10. Definition, etiology, localization, prevention and therapy
    Peculiarities of cavity preparation on permanent teeth

11. Characteristics of newly grown permanent teeth, principles of cavity preparation
    Caries of permanent teeth - therapy

12. Initial carious lesions, alternative preparation, deep cavities
    Caries of permanent teeth - therapy of complications

13. Methods of treatment, vital methods, mortal methods
    Therapy of teeth with incompletely grown roots

14. Indications, routines

XI. TERM

Teaching units

1. Urgent states in children's dentistry
   First aid, acute dentogenic infections

2. Medicaments and bases in children's dentistry
   Medicaments and bases in children's dentistry

3. Materials used for filling in children's dentistry
   Materials for temporary fillings, materials for permanent fillings, amalgams, composites

4. Anesthesia in children's dentistry
   Anesthesia in children's dentistry

5. Painless work, types of anesthesia, complications
   Peculiarities of oral surgery in work with children

6. Preparation of the child for a surgery, instruments
   Extraction of milk- and permanent teeth in children

7. Indications, counterindications, complications
   Injuries of milk- and permanent teeth

8. Injuries in general, classification, procedures during the first visit
   Taking care of the injuries of periodontal tissues

9. Subluxation, luxation, intrusion, extrusion, traumatic extraction
   Taking care of the injuries of solid dental tissues

10. Fracture of milk- and permanent teeth, complications of injuries
    Oral diseases in children

11. Classification of diseases, viral diseases, herpetic stomatitis
    Diseases of periodontium in children

12. Etiology, classification, diseases, gingivitis, periodontopathies, juvenile periodontopathy
    Therapy of periodontal diseases in children

    Peculiarities of work with handicapped children

14. Receiving and treatment of handicapped children, working routines with handicapped children, application of anesthesia
    Stomatological prosthetics in children's dentistry

Indications, general principles, prosthetic substitutions during milk-dentition, prosthetic substituting during permanent dentition
Visit to counseling agencies specialized for pregnant women (health-care & educational work, cooperation with a gynecologist),
Visits to public-health services within public-health centers (cooperation with public-health nurses),
Visits to maternal and child counseling offices (health-care & educational work),
Visits to pediatric services specialized for work with pre-school children (health-care & educational work),
Visits to pediatric services specialized for work with school children (health-care & educational work),
Visits to schools (health-care & educational work for pupils and their parents; lectures for teachers),
Visits to school dental departments,
A visit to the Municipal Waterworks (application and control of drinking water fluoridation - possibilities),
Visits to the sweets manufacturers (possibilities of applying noncarious sweetening agents).