

**ESOGU INSTITUTE OF HEALTH SCIENCES**

**DEPARTMENT OF PEDODONTICS**

**COURSE INFORMATION FORM**

# Courses – ECTS Credits

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| Code | | Course Name | | ECTS | D+U+L | T/S | Language |
| Fall Semester | | | | | | | |
| 523105301 | [EMBRYOLOGY OF MILK AND PERMANENT TEETH, TOOTH ERUPTION AND ROOT RESORPTION](#DERS523103301) | | | 5.0 | 2+0+0 | Compulsory | Turkish |
| 523105302 | [OF ENAMEL, DENTIN CEMENT AND PULP OF MILK AND PERMANENT TEETH](#DERS523103302) | | | 5.0 | 2+0+0 | Compulsory | Turkish |
| 523103303 | [PSYCHOLOGICAL DEVELOPMENT AND BEHAVIOR GUIDANCE IN CHILDREN](#DERS523103303) | | | 7.5 | 2+6+0 | Elective | Turkish |
| 523103304 | [TOOTH DEVELOPMENT DISORDERS](#DERS523103304) | | | 7.5 | 2+4+0 | Elective | Turkish |
| 523103305 | [FLUORIDE/FISSURE SEALANTS IN CARIES PROPHYLAXIS](#DERS523103305) | | | 7.5 | 3+2+0 | Elective | Turkish |
| 523105306 | [ORAL PATHOLOGIES IN CHILDREN](#DERS523103306) | | | 5.0 | 2+0+0 | Elective | Turkish |
| 523101700 | SPECIALIZED FIELD COURSE\* | | | 5 | 3+0+0 | Compulsory | Turkish |
|  | | | | 50 |  |  |  |
| Spring Term | | | | | | | |
| 523104301 | [ANAMNESIS, CLINICAL AND RADIOGRAPHIC EXAMINATION IN THE CHILD PATIENT](#DERS523104301) | | 7.5 | | 1+6+0 | Compulsory | Turkish |
| 523104302 | [RESTORATIVE MATERIALS USED IN PEDODONTICS](#DERS523104302) | | 7.5 | | 2+6+0 | Elective | Turkish |
| 523104303 | [SEDATION AND GENERAL ANESTHESIA IN PEDODONTICS](#DERS523104303) | | 7.5 | | 2+2+0 | Elective | Turkish |
| 523104304 | [TRAUMATIC DENTAL INJURIES AND TREATMENTS OF MILK AND YOUNG PERMANENT TEETH](#DERS523104304) | | 7.5 | | 2+4+0 | Elective | Turkish |
| 523104305 | SPACE MAINTAINER AND CHILD PROSTHESIS APPLICATIONS | | 7.5 | | 1+6+0 | Elective | Turkish |
| 523106306 | [TOOTH DISCOLORATIONS AND TREATMENTS](#DERS523104306) | | 5.0 | | 2+1+0 | Elective | Turkish |
| 523104307 | [DRUG TREATMENT IN CHILDREN](#DERS523104307) | | 7.5 | | 2+2+0 | Elective | Turkish |
| 523101700 | SPECIALIZED FIELD COURSE\* | | 5 | | 3+0+0 | Compulsory | Turkish |
|  | | | 57.5 | |  |  |  |



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**DEPARTMENT OF PEDODONTICS**

**COURSE INFORMATION FORM**

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| --- | --- | --- | --- | --- | --- |
| **COURSE CODE** | **523105301** | **DEPARTMENT** | PEDODONTICS | | |
| **COURSE NAME** | | Embryology of Primary and Permanent Teeth, Tooth Eruption and Root Resorption | | | |
| **INSTRUCTOR GIVING THE COURSE** | | **COURSE LANGUAGE** | **COURSE CATEGORY** | | |
| Assoc. Prof. Dr. Seçil ÇALIŞKAN | | Turkish | **Technical** | **Medical** | **Other(……)** |
|  | X |  |

**COURSE LEVEL**

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| **SCIENTIFIC PREPARATION** | **DEGREE** | **DOCTORATE** | **SPECIALIZED FIELD COURSE** |
|  |  | **X** |  |

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| **SEMESTER** | **WEEKLY CLASS HOURS** | | | **YOUR COURSE** | | | | |
| **THEORETICAL** | **APPLICATION** | **LAB** | **LOAN** | | **ECTS** | | **TYPE** |
| Autumn | 2 | 0 | 0 | 2 | | 5.0 | | COMPULSORY |
|  | | | | | | | | |
| **EVALUATION CRITERIA** | | | | | | | | |
| **SEMESTER ACTIVITIES** | | | **Type of activity** | | **Number** | | **Percentage (%)** | |
| Midterm Exam | | **1** | | **50** | |
| Quiz | |  | |  | |
| Homework | |  | |  | |
| Project | |  | |  | |
| Oral examination | |  | |  | |
| Other (………) | |  | |  | |
| **Final Exam** | | | | **50** | |
| **PREREQUISITE(S)** | | | - | | | | | |
| **SHORT COURSE CONTENT** | | | Embryological development of teeth and jaws, formation of enamel, dentin and cementum, functions of ameloblasts, dentinogenesis and dentin mineralization, development of pulp and periodontal ligaments, theories of tooth eruption, eruption of primary and permanent teeth, tooth eruption anomalies, eruption times, causes of early and late eruption, root resorption mechanism, resorption anomalies | | | | | |
| **COURSE AIMS** | | | The aim of this course is to provide information about the embryological development of teeth and jaws, cells, mechanisms and anomalies related to tooth eruption and root resorption. | | | | | |
| **COURSE CONTRBUTION TO THE PROFESSIONAL EDUCATION OBJECTIVES** | | | Understanding and explaining the embryological development of teeth and jaws, functions of embryological dental tissues, tooth eruption and root resorption mechanisms. | | | | | |
| **LEARNING OUTCOMES OF THE COURSE** | | |  | | | | | |
| **TEXTBOOK** | | | Avery JK, Steele PF. Oral Development and Histology. Thieme Medical Publisher, New York; 2002. Chiego, DJ. Essentials of Oral Histology and Embryology: A Clinical Approach. Elsevier; 2013. | | | | | |
| **OTHER REFERENCES** | | | Rao A. Principles and Practice of Pedodontics. Jaypee Brothers Medical Publishers; 2008.  Tortop T, Tulunoğlu Ö. Pediatric Dentistry from Infancy to Adolescence. Atlas Bookstore; 2009.  Dean JA, Avery DR, McDonald RE. McDonald's and Avery's dentistry for the child and adolescent. Mosby/Elsevier; 2011.  Millett D. Clinical problem solving in orthodontics and paediatric dentistry. Elsevier Health Sciences; 2017. | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | |  | | | | | |

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| **WEEKLY PLAN OF THE COURSE** | | |
| **WEEK** | **HISTORY** | **TOPICS TO BE COVERED** |
| **1** |  | Embryological development of teeth and jaws |
| **2** |  | Embryological development of teeth and jaws |
| **3** |  | Tooth eruption mechanism |
| **4** |  | Theories of eruption of primary and permanent teeth |
| **5** |  | Eruption times and order of milk and permanent teeth |
| **6** |  | Eruption anomalies in milk and permanent teeth |
| **7** |  | Causes of early and late tooth eruption |
| **8** |  | MIDTERM EXAM |
| **9** |  | Root resorption mechanism in primary teeth |
| **10** |  | Root resorption anomalies in primary teeth |
| **11** |  | Evaluation of articles and research on the subject |
| **12** |  | Evaluation of articles and research on the subject |
| **13** |  | Evaluation of articles and research on the subject |
| **14** |  | Evaluation of articles and research on the subject |
| **15** |  | Evaluation of articles and research on the subject |
| **16** |  | END OF SEMESTER EXAM |

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| **CONTRIBUTION OF THE COURSE LEARNING OUTCOMES TO THE ELECTRICAL ELECTRONICS ENGINEERING MSc PROGRAM LEARNING OUTCOMES** | | **CONTRIBUTION LEVEL** | | |
| **NO** | **LEARNING OUTCOMES (Phd)** | **1**  **Low** | **2**  **Mid** | **3**  **High** |
| **LO 1** | Embryological development of teeth and jaws |  |  | **x** |
| **LO 2** | Tooth eruption mechanism |  |  | **x** |
| **LO 3** | Theories of eruption of primary and permanent teeth |  |  | **x** |
| **LO 4** | Eruption times and order of milk and permanent teeth |  |  | **x** |
| **LO 5** | Eruption anomalies in milk and permanent teeth |  |  | **x** |
| **LO 6** | Causes of early and late tooth eruption |  |  | **x** |
| **LO 7** | Root resorption anomalies in primary teeth |  |  | **x** |
| **LO 8** | Evaluation of articles and research on the subject |  |  | **x** |
| **LO 9** |  |  |  |  |
| **LO 10** |  |  |  |  |
| **LO 11** |  |  |  |  |
| **LO 12** |  |  |  |  |
| **LO 13** |  |  |  |  |
| **LO 14** |  |  |  |  |

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| **INSTRUCTOR GIVING THE COURSE** | **HISTORY** |
| Assoc. Prof. Dr. Seçil ÇALIŞKAN | **24.03.2025** |



**ESOGU INSTITUTE OF HEALTH SCIENCES**

**DEPARTMENT OF PEDODONTICS**

**COURSE INFORMATION FORM**

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| **COURSE CODE** | **523105302** | **DEPARTMENT** | PEDODONTICS | | |
| **COURSE NAME** | | Morphological and Histological Characteristics of Enamel, Dentin, Cementum and Pulp of Primary and Permanent Teeth | | | |
| **INSTRUCTOR GIVING THE COURSE** | | **COURSE LANGUAGE** | **COURSE CATEGORY** | | |
| Doç.Dr. İrem Bağ | | Turkish | **Technical** | **Medical** | **Other(……)** |
|  | X |  |

**COURSE LEVEL**

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| **SCIENTIFIC PREPARATION** | **DEGREE** | **DOCTORATE** | **SPECIALIZED FIELD COURSE** |
|  |  | **X** |  |

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| **SEMESTER** | **WEEKLY CLASS HOURS** | | | **YOUR COURSE** | | | | |
| **THEORETICAL** | **APPLICATION** | **LAB** | **LOAN** | | **ECTS** | | **TYPE** |
| Autumn | 2 | 0 | 0 | 2 | | 5.0 | | COMPULSORY |
|  | | | | | | | | |
| **EVALUATION CRITERIA** | | | | | | | | |
| **SEMESTER ACTIVITIES** | | | **Type of activity** | | **Number** | | **Percentage (%)** | |
| Midterm Exam | | **1** | | **50** | |
| Quiz | |  | |  | |
| Homework | |  | |  | |
| Project | |  | |  | |
| Oral examination | |  | |  | |
| Other (………) | |  | |  | |
| **Final Exam** | | | | **50** | |
| **PREREQUISITE(S)** | | | - | | | | | |
| **SHORT COURSE CONTENT** | | | Normal morphological and histological structures of hard and soft tissues forming primary and permanent teeth, differences between primary and permanent teeth | | | | | |
| **COURSE AIMS** | | | The aim of this course is to provide information about the morphological and histological features of the hard and soft tissues that form the primary and permanent teeth, and the differences between the primary and permanent tooth tissues in terms of these features. | | | | | |
| **COURSE CONTRBUTION TO THE PROFESSIONAL EDUCATION OBJECTIVES** | | | Morphological and histological features of hard and soft tissues forming primary and permanent teeth, understanding and explaining the differences between primary and permanent teeth | | | | | |
| **LEARNING OUTCOMES OF THE COURSE** | | | 1- Understanding the histology of hard and soft tissues that make up primary and permanent teeth  2- Understanding of periapical region histology  3- Understanding the differences between primary and permanent teeth  4- Identification of treatment modifications related to differences  5- To apply knowledge of morphology and histology in clinical procedures in children | | | | | |
| **TEXTBOOK** | | | Avery JK, Steele PF. Oral Development and Histology. Thieme Medical Publisher, New York; 2002.  Tortop T, Tulunoğlu Ö. Pediatric Dentistry from Infancy to Adolescence. Atlas Bookstore; 2009. Chiego, DJ. Essentials of Oral Histology and Embryology: A Clinical Approach. Elsevier; 2013. | | | | | |
| **OTHER REFERENCES** | | | Roberson TM, Heymann H, Swift EJ, Sturdevant CM. Art and Science of Operative Dentistry. Edinburgh: Elsevier Mosby; 2006.  Rao A. Principles and Practice of Pedodontics. Jaypee Brothers Medical Publishers; 2008.  Dean JA, Avery DR, McDonald RE. McDonald's and Avery's Dentistry for the Child and Adolescent. Mosby/Elsevier; 2011.  Ritter AV, Boushell LW, Walter R. Sturdevant's Art and Science of Operative Dentistry. Mosby, 2019. | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | |  | | | | | |

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| **WEEKLY PLAN OF THE COURSE** | | |
| **WEEK** | **HISTORY** | **TOPICS TO BE COVERED** |
| **1** |  | Morphological and histological features of enamel, dentin, cementum and pulp of primary teeth |
| **2** |  | Morphological and histological features of enamel, dentin, cementum and pulp of primary teeth |
| **3** |  | Morphological and histological features of enamel, dentin, cementum and pulp of primary teeth |
| **4** |  | Morphological and histological features of enamel, dentin, cementum and pulp of permanent teeth |
| **5** |  | Morphological and histological features of enamel, dentin, cementum and pulp of permanent teeth |
| **6** |  | Morphological and histological features of enamel, dentin, cementum and pulp of permanent teeth |
| **7** |  | Differences between primary and permanent teeth |
| **8** |  | MIDTERM EXAM |
| **9** |  | Differences between primary and permanent teeth |
| **10** |  | Evaluation of articles and research on the subject |
| **11** |  | Evaluation of articles and research on the subject |
| **12** |  | Evaluation of articles and research on the subject |
| **13** |  | Evaluation of articles and research on the subject |
| **14** |  | Evaluation of articles and research on the subject |
| **15** |  | Evaluation of articles and research on the subject |
| **16** |  | END OF SEMESTER EXAM |

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| **CONTRIBUTION OF COURSE LEARNING OUTCOMES TO PROGRAM LEARNING OUTCOMES** | | **CONTRIBUTION LEVEL** | | |
| **NO** | **LEARNING OUTCOMES (Phd)** | **1**  **Low** | **2**  **Mid** | **3**  **High** |
| **LO 1** | Should be able to make diagnosis and treatment planning in pediatric patients. |  |  | x |
| **LO 2** | Should know preventive dentistry practices. |  | **x** |  |
| **LO 3** | Should be able to perform restorative applications on deciduous and permanent teeth in pediatric patients. |  |  | **x** |
| **LO 4** | Know the use, construction and mechanism of action of placeholder appliances. |  | **x** |  |
| **LO 5** | Know the clinical approaches to be taken in cases of dental trauma. |  | **x** |  |
| **LO 6** | Perform dental treatment of disabled and uncooperative pediatric patients under dental sedation and general anesthesia. | **x** |  |  |
| **LO 7** | Should have knowledge and application skills about new methods and applications developing in the field of pedodontics. |  |  | **x** |
| **LO 8** |  |  |  |  |
| **LO 9** |  |  |  |  |
| **LO 10** |  |  |  |  |
| **LO 11** |  |  |  |  |
| **LO 12** |  |  |  |  |
| **LO 13** |  |  |  |  |
| **LO 14** |  |  |  |  |

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| **INSTRUCTOR GIVING THE COURSE** | **HISTORY** |
| Assoc. Prof. Dr. İrem Bağ |  |



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**COURSE INFORMATION FORM**

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| **COURSE CODE** | **523103303** | **DEPARTMENT** | PEDODONTICS | | |
| **COURSE NAME** | | Psychological Development and Behavior Guidance in Children | | | |
| **INSTRUCTOR GIVING THE COURSE** | | **COURSE LANGUAGE** | **COURSE CATEGORY** | | |
| Assoc. Prof. Dr. İrem Bağ | | Turkish | **Technical** | **Medical** | **Other(……)** |
|  | X |  |

**COURSE LEVEL**

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| **SCIENTIFIC PREPARATION** | **DEGREE** | **DOCTORATE** | **SPECIALIZED FIELD COURSE** |
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| **SEMESTER** | **WEEKLY CLASS HOURS** | | | **YOUR COURSE** | | | | |
| **THEORETICAL** | **APPLICATION** | **LAB** | **LOAN** | | **ECTS** | | **TYPE** |
| AUTUMN | 2 | 6 | 0 | 5 | | 7.5 | | ELECTIVE |
|  | | | | | | | | |
| **EVALUATION CRITERIA** | | | | | | | | |
| **SEMESTER ACTIVITIES** | | | **Type of activity** | | **Number** | | **Percentage (%)** | |
| Midterm Exam | | **1** | | **50** | |
| Quiz | |  | |  | |
| Homework | |  | |  | |
| Project | |  | |  | |
| Oral examination | |  | |  | |
| Other (………) | |  | |  | |
| **Final Exam** | | | | **50** | |
| **PREREQUISITE(S)** | | | - | | | | | |
| **SHORT COURSE CONTENT** | | | Psychological development and behavioral guidance techniques in children | | | | | |
| **COURSE AIMS** | | | The purpose of this course is to provide information about the psychological development of children with age and behavioral management techniques to be applied to uncooperative children. | | | | | |
| **COURSE CONTRBUTION TO THE PROFESSIONAL EDUCATION OBJECTIVES** | | | Understanding, explaining and gaining skills in all information about factors affecting child behavior, communication styles with children and parents, and behavior management techniques. | | | | | |
| **LEARNING OUTCOMES OF THE COURSE** | | | 1- Enables children to learn about psychological development  2- Ensures that behaviors against the dentist are known  3- Enables the assessment of difficult or different children  4- Examines their attitudes towards the dentist  5- Enables communication with children | | | | | |
| **TEXTBOOK** | | | Rao A. Principles and Practice of Pedodontics. Jaypee Brothers Medical Publishers; 2008.  Dean JA, Avery DR, McDonald RE. McDonald's and Avery's Dentistry for the Child and Adolescent. Mosby/Elsevier; 2011. | | | | | |
| **OTHER REFERENCES** | | | Koch G, Poulsen S. Clinical approach to pediatric dentistry. 2nd ed. Media publishing group; 2009.  Morsi AM. Clinical Cases in Pediatric Dentistry. John Wiley & Sons; 2012  Cameron AC, Widmer RP. Handbook of Pediatrics of Dentistry. Elsevier Health Sciences; 2014.Marwah N. Textbook of Pediatric Dentistry. JP Medical Ltd; 2014.  Marwah N. Textbook of Pediatric Dentistry. JP Medical Ltd; 2014.  Soxman JA. Handbook of Clinical Techniques in Pediatric Dentistry. John Wiley & Sons; 2016. | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | |  | | | | | |

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| **WEEKLY PLAN OF THE COURSE** | | |
| **WEEK** | **HISTORY** | **TOPICS TO BE COVERED** |
| **1** |  | Psychological development in children |
| **2** |  | Child behavior patterns |
| **3** |  | Factors affecting children's behavior |
| **4** |  | Factors affecting children's behavior |
| **5** |  | Behavior management techniques |
| **6** |  | Behavior management techniques |
| **7** |  | Behavior management techniques |
| **8** |  | MIDTERM EXAM |
| **9** |  | Behavior management techniques |
| **10** |  | Behavior management techniques |
| **11** |  | Evaluation of articles and research on the subject |
| **12** |  | Evaluation of articles and research on the subject |
| **13** |  | Evaluation of articles and research on the subject |
| **14** |  | Evaluation of articles and research on the subject |
| **15** |  | Evaluation of articles and research on the subject |
| **16** |  | END OF SEMESTER EXAM |

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| **CONTRIBUTION OF THE COURSE LEARNING OUTCOMES TO THE ELECTRICAL ELECTRONICS ENGINEERING MSc PROGRAM LEARNING OUTCOMES** | | **CONTRIBUTION LEVEL** | | |
| **NO** | **LEARNING OUTCOMES (Phd)** | **1**  **Low** | **2**  **Mid** | **3**  **High** |
| **LO 1** | Should be able to make diagnosis and treatment planning in pediatric patients. |  |  | x |
| **LO 2** | Should know preventive dentistry practices. |  | **x** |  |
| **LO 3** | Should be able to perform restorative applications on deciduous and permanent teeth in pediatric patients. |  |  | **x** |
| **LO 4** | Know the use, construction and mechanism of action of space maintainer appliances. |  | **x** |  |
| **LO 5** | Know the clinical approaches to be taken in cases of dental trauma. |  | **x** |  |
| **LO 6** | Perform dental treatment of disabled and uncooperative pediatric patients under dental sedation and general anesthesia. |  |  | **x** |
| **LO 7** | Should have knowledge and application skills about new methods and applications developing in the field of pedodontics. |  |  | **x** |
| **LO 8** |  |  |  |  |
| **LO 9** |  |  |  |  |
| **LO 10** |  |  |  |  |
| **LO 11** |  |  |  |  |
| **LO 12** |  |  |  |  |
| **LO 13** |  |  |  |  |
| **LO 14** |  |  |  |  |

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| **INSTRUCTOR GIVING THE COURSE** | **HISTORY** |
| Assoc. Prof. Dr. İrem Bağ | **24.03.2025** |



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| **COURSE CODE** | **523103304** | **DEPARTMENT** | PEDODONTICS | | |
| **COURSE NAME** | | Tooth Developmental Disorders | | | |
| **INSTRUCTOR GIVING THE COURSE** | | **COURSE LANGUAGE** | **COURSE CATEGORY** | | |
| Assoc.Dr.Merve CANDAN | | Turkish | **Technical** | **Medical** | **Other(……)** |
|  | X |  |

**COURSE LEVEL**

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| **SCIENTIFIC PREPARATION** | **DEGREE** | **DOCTORATE** | **SPECIALIZED FIELD COURSE** |
|  |  | **X** |  |

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| **SEMESTER** | **WEEKLY CLASS HOURS** | | | **YOUR COURSE** | | | | |
| **THEORETICAL** | **APPLICATION** | **LAB** | **LOAN** | | **ECTS** | | **TYPE** |
| AUTUMN | 2 | 4 | 0 | 4 | | 7.5 | | ELECTIVE |
|  | | | | | | | | |
| **EVALUATION CRITERIA** | | | | | | | | |
| **SEMESTER ACTIVITIES** | | | **Type of activity** | | **Number** | | **Percentage (%)** | |
| Midterm Exam | | **1** | | **50** | |
| Quiz | |  | |  | |
| Homework | |  | |  | |
| Project | |  | |  | |
| Oral examination | |  | |  | |
| Other (………) | |  | |  | |
| **Final Exam** | | | | **50** | |
| **PREREQUISITE(S)** | | | - | | | | | |
| **SHORT COURSE CONTENT** | | | Factors causing structural disorders in primary and permanent teeth, diagnosis and treatment of tooth development disorders | | | | | |
| **COURSE AIMS** | | | The purpose of this course is to provide information about the factors that cause dental developmental disorders in children, diagnosis and treatment. | | | | | |
| **COURSE CONTRBUTION TO THE PROFESSIONAL EDUCATION OBJECTIVES** | | | Understanding, explaining and gaining skills for correct diagnosis and treatment by considering the factors that cause structural deterioration in children's teeth. | | | | | |
| **LEARNING OUTCOMES OF THE COURSE** | | | Identification of tooth development process and disorders  Knowledge of genetic and environmental factors affecting tooth development processes  Recognition of developmental anomalies seen in teeth  Learning abnormalities in tooth development (hypodontia, oligodontia, increased number of teeth, etc.) and classifying these conditions  Learning the methods used in the diagnosis of dental development disorders (radiographic examinations, genetic tests, clinical observations, etc.)  Learning the treatment methods (orthodontic treatment, prosthetic solutions, surgical interventions, etc.) that can be applied in dental development disorders | | | | | |
| **TEXTBOOK** | | | Dean JA, Avery DR, McDonald RE. McDonald's and Avery's dentistry for the child and adolescent. Mosby/Elsevier; 2011.  Cameron AC, Widmer RP. Handbook of Pediatrics of Dentistry. Elsevier Health Sciences; 2014. | | | | | |
| **OTHER REFERENCES** | | | van Amerongen E. Case Reports in Pediatric Dentistry. Quintessences Publishing; 2009.  Koch G, Poulsen S. Clinical approach to pediatric dentistry. 2nd ed. Media publishing group; 2009.  Millett D. Clinical Problem Solving in Orthodontics and Pediatric Dentistry. Elsevier Health Sciences; 2017. | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | Computer or laptop, internet connection, blackboard | | | | | |

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| **WEEKLY PLAN OF THE COURSE** | | |
| **WEEK** | **HISTORY** | **TOPICS TO BE COVERED** |
| **1** |  | Factors affecting the dental system |
| **2** |  | Number anomalies |
| **3** |  | Number anomalies |
| **4** |  | Size anomalies |
| **5** |  | Size anomalies |
| **6** |  | Shape anomalies |
| **7** |  | Shape anomalies |
| **8** |  | MIDTERM EXAM |
| **9** |  | Status anomalies |
| **10** |  | Tissue abnormalities |
| **11** |  | Tissue abnormalities |
| **12** |  | Evaluation of articles and research on the subject |
| **13** |  | Evaluation of articles and research on the subject |
| **14** |  | Evaluation of articles and research on the subject |
| **15** |  | Evaluation of articles and research on the subject |
| **16** |  | END OF SEMESTER EXAM |

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| **CONTRIBUTION OF THE COURSE LEARNING OUTCOMES TO THE ELECTRICAL ELECTRONICS ENGINEERING MSc PROGRAM LEARNING OUTCOMES** | | **CONTRIBUTION LEVEL** | | |
| **NO** | **LEARNING OUTCOMES (Phd)** | **1**  **Low** | **2**  **Mid** | **3**  **High** |
| **LO 1** | Identification of tooth development process and disorders |  |  | x |
| **LO 2** | Knowledge of genetic and environmental factors affecting tooth development processes |  |  | x |
| **LO 3** | Recognition of developmental anomalies seen in teeth |  |  | **x** |
| **LO 4** | Learning abnormalities in tooth development (hypodontia, oligodontia, increased number of teeth, etc.) and classifying these conditions |  |  | **x** |
| **LO 5** | Learning the methods used in the diagnosis of dental development disorders (radiographic examinations, genetic tests, clinical observations, etc.) |  |  | **x** |
| **LO 6** | Learning the treatment methods (orthodontic treatment, prosthetic solutions, surgical interventions, etc.) that can be applied in dental development disorders |  | **x** |  |
| **LO 7** |  |  |  |  |
| **LO 8** |  |  |  |  |
| **LO 9** |  |  |  |  |
| **LO 10** |  |  |  |  |
| **LO 11** |  |  |  |  |
| **LO 12** |  |  |  |  |
| **LO 13** |  |  |  |  |
| **LO 14** |  |  |  |  |

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| **INSTRUCTOR GIVING THE COURSE** | **HISTORY** |
| Assoc.Dr.Merve CANDAN | **19.03.2025** |



**ESOGU INSTITUTE OF HEALTH SCIENCES**

**DEPARTMENT OF PEDODONTICS**

**COURSE INFORMATION FORM**

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| **COURSE CODE** | **523103305** | **DEPARTMENT** | PEDODONTICS | | |
| **COURSE NAME** | | Fluoride/Fissure Sealants in Caries Prophylaxis | | | |
| **INSTRUCTOR GIVING THE COURSE** | | **COURSE LANGUAGE** | **COURSE CATEGORY** | | |
| Asist. Prof. Beril DEMİRCAN | | Turkish | **Technical** | **Medical** | **Other(……)** |
|  | X |  |

**COURSE LEVEL**

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| **SCIENTIFIC PREPARATION** | **DEGREE** | **DOCTORATE** | **SPECIALIZED FIELD COURSE** |
|  |  | **X** |  |

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| **SEMESTER** | **WEEKLY CLASS HOURS** | | | **YOUR COURSE** | | | | |
| **THEORETICAL** | **APPLICATION** | **LAB** | **LOAN** | | **ECTS** | | **TYPE** |
| Autumn | 3 | 2 | 0 | 4 | | 7.5 | | ELECTIVE |
|  | | | | | | | | |
| **EVALUATION CRITERIA** | | | | | | | | |
| **SEMESTER ACTIVITIES** | | | **Type of activity** | | **Number** | | **Percentage (%)** | |
| Midterm Exam | | **1** | | **50** | |
| Quiz | |  | |  | |
| Homework | |  | |  | |
| Project | |  | |  | |
| Oral examination | |  | |  | |
| Other (………) | |  | |  | |
| **Final Exam** | | | | **50** | |
| **PREREQUISITE(S)** | | |  | | | | | |
| **SHORT COURSE CONTENT** | | | Fluoride metabolism, mechanism of action of fluoride in caries prevention, application methods and toxicity  Indications, contraindications, classification and application methods of fissure sealants and protective resin restorations | | | | | |
| **COURSE AIMS** | | | The aim of this course is to learn the importance of fluoride prophylaxis in increasing the resistance of dental tissues to prevent caries, the effect of fluoride on dental tissues, systemic and topical fluoride application methods and mechanisms of action.  and to provide information about the indications, contraindications, properties and application methods of fissure sealants and protective resin restorations, which are one of the prophylaxis approaches aimed at cutting the relationship between dental tissue and bacterial plaque. | | | | | |
| **COURSE CONTRBUTION TO THE PROFESSIONAL EDUCATION OBJECTIVES** | | | Understanding, explaining and gaining skills on the effects of fluoride in preventing caries, its toxicity and application methods  Understanding, explaining and gaining skills on the effects of fissure sealants and protective resin restorations in caries prevention and their application methods. | | | | | |
| **LEARNING OUTCOMES OF THE COURSE** | | |  | | | | | |
| **TEXTBOOK** | | | Koch G, Poulsen S. Clinical approach to pediatric dentistry. 2nd ed. Media publishing group; 2009.  Dean JA, Avery DR, McDonald RE. McDonald's and Avery's dentistry for the child and adolescent. Mosby/Elsevier; 2011.  Soxman JA. Handbook of Clinical Techniques in Pediatric Dentistry. John Wiley & Sons; 2016. | | | | | |
| **OTHER REFERENCES** | | | Rao A. Principles and Practice of Pedodontics. Jaypee Brothers Medical Publishers; 2008.Cameron AC, Widmer RP. Handbook of Pediatrics of Dentistry. Elsevier Health Sciences; 2014.  Wilson HFN. Minimally Invasive Dentistry: Treatment of Dental Caries. Quintessence; 2013.  Marwah N. Textbook of Pediatric Dentistry. JP Medical Ltd; 2014. | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | |  | | | | | |

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| **WEEKLY PLAN OF THE COURSE** | | |
| **WEEK** | **HISTORY** | **TOPICS TO BE COVERED** |
| **1** |  | Fluoride metabolism |
| **2** |  | Mechanism of action of fluoride in preventing caries |
| **3** |  | Mechanism of action of fluoride in preventing caries |
| **4** |  | Systemic and topical fluoride application |
| **5** |  | Systemic and topical fluoride application |
| **6** |  | Systemic and topical fluoride application |
| **7** |  | Toxic effect of fluoride |
| **8** |  | MIDTERM EXAM |
| **9** |  | Indications and contraindications of fissure sealants |
| **10** |  | Fissure sealant application procedure |
| **11** |  | Indications and contraindications of preventive resin restoration |
| **12** |  | Procedure for applying protective resin restoration |
| **13** |  | Evaluation of articles and research on the subject |
| **14** |  | Evaluation of articles and research on the subject |
| **15** |  | Evaluation of articles and research on the subject |
| **16** |  | END OF SEMESTER EXAM |

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| **CONTRIBUTION OF THE COURSE LEARNING OUTCOMES TO THE ELECTRICAL ELECTRONICS ENGINEERING MSc PROGRAM LEARNING OUTCOMES** | | **CONTRIBUTION LEVEL** | | |
| **NO** | **LEARNING OUTCOMES (Phd)** | **1**  **Low** | **2**  **Mid** | **3**  **High** |
| **LO 1** | Fluoride metabolism |  |  | **x** |
| **LO 2** | Mechanism of action of fluoride in preventing caries |  |  | **x** |
| **LO 3** | Systemic and topical fluoride application |  |  | **x** |
| **LO 4** | Toxic effect of fluoride |  |  | **x** |
| **LO 5** | Indications and contraindications of fissure sealants |  |  | **x** |
| **LO 6** | Fissure sealant application procedure |  |  | **x** |
| **LO 7** | Indications and contraindications of preventive resin restoration |  |  | **x** |
| **LO 8** | Procedure for applying protective resin restoration |  |  | **x** |
| **LO 9** | Evaluation of articles and research on the subject |  |  | **x** |
| **LO 10** |  |  |  |  |
| **LO 11** |  |  |  |  |
| **LO 12** |  |  |  |  |
| **LO 13** |  |  |  |  |
| **LO 14** |  |  |  |  |

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| **INSTRUCTOR GIVING THE COURSE** | **HISTORY** |
| Asist. Prof. Beril DEMİRCAN | **24.03.2025** |



**ESOGU INSTITUTE OF HEALTH SCIENCES**

**DEPARTMENT OF PEDODONTICS**

**COURSE INFORMATION FORM**

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| **COURSE CODE** | **523105306** | **DEPARTMENT** | PEDODONTICS | | |
| **COURSE NAME** | | Oral Pathologies in Children | | | |
| **INSTRUCTOR GIVING THE COURSE** | | **COURSE LANGUAGE** | **COURSE CATEGORY** | | |
| Assoc. Prof. Dr. Merve CANDAN | | Turkish | **Technical** | **Medical** | **Other(……)** |
|  | X |  |

**COURSE LEVEL**

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| **SCIENTIFIC PREPARATION** | **DEGREE** | **DOCTORATE** | **SPECIALIZED FIELD COURSE** |
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| **SEMESTER** | **WEEKLY CLASS HOURS** | | | **YOUR COURSE** | | | | |
| **THEORETICAL** | **APPLICATION** | **LAB** | **LOAN** | | **ECTS** | | **TYPE** |
| AUTUMN | 2 | 0 | 0 | 2 | | 5.0 | | ELECTIVE |
|  | | | | | | | | |
| **EVALUATION CRITERIA** | | | | | | | | |
| **SEMESTER ACTIVITIES** | | | **Type of activity** | | **Number** | | **Percentage (%)** | |
| Midterm Exam | | **1** | | **50** | |
| Quiz | |  | |  | |
| Homework | |  | |  | |
| Project | |  | |  | |
| Oral examination | |  | |  | |
| Other (………) | |  | |  | |
| **Final Exam** | | | | **50** | |
| **PREREQUISITE(S)** | | | - | | | | | |
| **SHORT COURSE CONTENT** | | | Classification of oral pathologies that can be seen in infants and various oral and maxillofacial pathologies that may occur during growth and development, and explanation of the characteristics of these pathologies. | | | | | |
| **COURSE AIMS** | | | The aim of this course is to classify oral pathologies and various oral and maxillofacial pathologies that may occur during growth and development and to explain the characteristics of these pathologies. | | | | | |
| **COURSE CONTRBUTION TO THE PROFESSIONAL EDUCATION OBJECTIVES** | | | Classification of oral pathologies that can be seen in babies from birth and various oral and maxillofacial pathologies that can occur during growth and development, and explanation of the characteristics of these pathologies, learning the separation, diagnosis and treatment of pathologies. | | | | | |
| **LEARNING OUTCOMES OF THE COURSE** | | | Identification of Oral Pathologies  Knowledge of clinical signs of pathological conditions  Differentiation of odontogenic and non odontogenic cysts  Diagnosis and treatment of benign odontogenic tumors  Learning the diagnosis and treatment of Bone and Cartilage Tumors in the maxillofacial region  Learning the diagnosis and treatment of fibroosseous and osteochondromatous lesions  To be able to diagnose and treat Giant Cell Lesions and Simple Bone Cysts | | | | | |
| **TEXTBOOK** | | | Prof. Dr. Ömer GÜNHAN, Oral and Maxillofacial Pathology, Quintessence Publishing; 2015. | | | | | |
| **OTHER REFERENCES** | | | Assoc. Prof. Dr. Ömür Dereci, Cyst and Tumor-Like Lesions in Oral and Maxillofacial Surgery, Ankara Nobel Medical Bookstore, 2020. | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | Computer or laptop, internet connection, blackboard | | | | | |

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| **WEEKLY PLAN OF THE COURSE** | | |
| **WEEK** | **HISTORY** | **TOPICS TO BE COVERED** |
| **1** |  | Odontogenic and Non-odontogenic Cysts |
| **2** |  | Cyst and Tumor-like Lesions |
| **3** |  | Benign Odontogenic Tumors |
| **4** |  | Benign Odontogenic Tumors |
| **5** |  | Benign Maxillofacial Bone and Cartilage Tumors |
| **6** |  | Benign Maxillofacial Bone and Cartilage Tumors |
| **7** |  | Malignant Maxillofacial Bone and Cartilage Tumors |
| **8** |  | MIDTERM EXAM |
| **9** |  | Malignant Maxillofacial Bone and Cartilage Tumors |
| **10** |  | Odontogenic Carcinomas and Sarcomas |
| **11** |  | Fibroosseous and Osteochondromatous Lesions |
| **12** |  | Fibroosseous and Osteochondromatous Lesions |
| **13** |  | Giant Cell Lesions and Simple Bone Cyst |
| **14** |  | Giant Cell Lesions and Simple Bone Cyst |
| **15** |  | Hematolymphoid Tumors |
| **16** |  | END OF SEMESTER EXAM |

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| **CONTRIBUTION OF THE COURSE LEARNING OUTCOMES TO THE ELECTRICAL ELECTRONICS ENGINEERING MSc PROGRAM LEARNING OUTCOMES** | | **CONTRIBUTION LEVEL** | | |
| **NO** | **LEARNING OUTCOMES (Phd)** | **1**  **Low** | **2**  **Mid** | **3**  **High** |
| **LO 1** | Identification of Oral Pathologies |  | **x** |  |
| **LO 2** | Knowledge of clinical signs of pathological conditions |  | **x** |  |
| **LO 3** | Differentiation of odontogenic and non odontogenic cysts |  |  | **x** |
| **LO 4** | Diagnosis and treatment of benign odontogenic tumors | **x** |  |  |
| **LO 5** | Learning the diagnosis and treatment of Bone and Cartilage Tumors in the maxillofacial region | **x** |  |  |
| **LO 6** | Learning the diagnosis and treatment of fibroosseous and osteochondromatous lesions | **x** |  |  |
| **LO 7** | To be able to diagnose and treat Giant Cell Lesions and Simple Bone Cysts | **x** |  |  |
| **LO 8** |  |  |  |  |
| **LO 9** |  |  |  |  |
| **LO 10** |  |  |  |  |
| **LO 11** |  |  |  |  |
| **LO 12** |  |  |  |  |
| **LO 13** |  |  |  |  |
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| **INSTRUCTOR GIVING THE COURSE** | **HISTORY** |
| Assoc. Prof. Dr. Merve CANDAN | **19.03.2025** |



**ESOGU INSTITUTE OF HEALTH SCIENCES**

**DEPARTMENT OF PEDODONTICS**

**COURSE INFORMATION FORM**

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| **COURSE CODE** | **523104301** | **DEPARTMENT** | PEDODONTICS | | |
| **COURSE NAME** | | Anamnesis, Clinical and Radiographic Examination in the Child Patient | | | |
| **INSTRUCTOR GIVING THE COURSE** | | **COURSE LANGUAGE** | **COURSE CATEGORY** | | |
| Asist. Prof. Beril DEMİRCAN | | Turkish | **Technical** | **Medical** | **Other(……)** |
|  | X |  |

**COURSE LEVEL**

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| **SCIENTIFIC PREPARATION** | **DEGREE** | **DOCTORATE** | **SPECIALIZED FIELD COURSE** |
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| **SEMESTER** | **WEEKLY CLASS HOURS** | | | **YOUR COURSE** | | | | |
| **THEORETICAL** | **APPLICATION** | **LAB** | **LOAN** | | **ECTS** | | **TYPE** |
| SPRING | 1 | 6 | 0 | 4 | | 7.5 | | COMPULSORY |
|  | | | | | | | | |
| **EVALUATION CRITERIA** | | | | | | | | |
| **SEMESTER ACTIVITIES** | | | **Type of activity** | | **Number** | | **Percentage (%)** | |
| Midterm Exam | | **1** | | **50** | |
| Quiz | |  | |  | |
| Homework | |  | |  | |
| Project | |  | |  | |
| Oral examination | |  | |  | |
| Other (………) | |  | |  | |
| **Final Exam** | | | | **50** | |
| **PREREQUISITE(S)** | | | - | | | | | |
| **SHORT COURSE CONTENT** | | | Medical and dental anamnesis in pediatric patients, examination methods, intraoral and extraoral clinical examination, diagnostic criteria, radiographic examination, treatment planning | | | | | |
| **COURSE AIMS** | | | The purpose of this course is to provide information about anamnesis, clinical and radiographic examination of pediatric patients , and to provide diagnosis and treatment planning skills. | | | | | |
| **COURSE CONTRBUTION TO THE PROFESSIONAL EDUCATION OBJECTIVES** | | | Understanding and performing medical and dental anamnesis, intraoral and extraoral clinical examination, radiographic examination, and treatment planning in pediatric patients. | | | | | |
| **LEARNING OUTCOMES OF THE COURSE** | | |  | | | | | |
| **TEXTBOOK** | | | Rao A. Principles and Practice of Pedodontics. Jaypee Brothers Medical Publishers; 2008.Koch G, Poulsen S. Clinical Approach to Pediatric Dentistry. Media Publishing Group; 2009. | | | | | |
| **OTHER REFERENCES** | | | Mathewson RJ, Primosch, RE. Fundamentals of Pediatric Dentistry, Quintessence Publishing; 1995.Dean JA, Avery DR, McDonald RE. McDonald's and Avery's Dentistry for the Child and Adolescent. Mosby/Elsevier; 2011.MacDonald D. Oral and maxillofacial radiology: a diagnostic approach. John Wiley & Sons; 2011.Marwah N. Textbook of Pediatric Dentistry. JP Medical Ltd; 2014. | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | |  | | | | | |

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| **WEEKLY PLAN OF THE COURSE** | | |
| **WEEK** | **HISTORY** | **TOPICS TO BE COVERED** |
| **1** |  | Medical and dental anamnesis |
| **2** |  | Examination methods |
| **3** |  | Examination methods |
| **4** |  | Extraoral examination |
| **5** |  | Extraoral examination |
| **6** |  | Intraoral examination |
| **7** |  | Intraoral examination |
| **8** |  | MIDTERM EXAM |
| **9** |  | Radiographic examination |
| **10** |  | Radiographic examination |
| **11** |  | Radiographic examination |
| **12** |  | Treatment planning in the pediatric patient |
| **13** |  | Evaluation of articles and research on the subject |
| **14** |  | Evaluation of articles and research on the subject |
| **15** |  | Evaluation of articles and research on the subject |
| **16** |  | END OF SEMESTER EXAM |

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| **CONTRIBUTION OF THE COURSE LEARNING OUTCOMES TO THE ELECTRICAL ELECTRONICS ENGINEERING MSc PROGRAM LEARNING OUTCOMES** | | **CONTRIBUTION LEVEL** | | |
| **NO** | **LEARNING OUTCOMES (Phd)** | **1**  **Low** | **2**  **Mid** | **3**  **High** |
| **LO 1** | Medical and dental anamnesis |  |  | **x** |
| **LO 2** | Examination methods |  |  | **x** |
| **LO 3** | Extraoral examination |  |  | **x** |
| **LO 4** | Intraoral examination |  |  | **x** |
| **LO 5** | Radiographic examination |  | **x** |  |
| **LO 6** | Treatment planning in the pediatric patient |  |  | **x** |
| **LO 7** | Evaluation of articles and research on the subject |  |  | **x** |
| **LO 8** |  |  |  |  |
| **LO 9** |  |  |  |  |
| **LO 10** |  |  |  |  |
| **LO 11** |  |  |  |  |
| **LO 12** |  |  |  |  |
| **LO 13** |  |  |  |  |
| **LO 14** |  |  |  |  |

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| **INSTRUCTOR GIVING THE COURSE** | **HISTORY** |
| Asist. Prof. Beril DEMİRCAN | **24.03.2025** |



**ESOGU INSTITUTE OF HEALTH SCIENCES**

**DEPARTMENT OF PEDODONTICS**

**COURSE INFORMATION FORM**

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| **COURSE CODE** | **523104302** | **DEPARTMENT** | PEDODONTICS | | |
| **COURSE NAME** | | Restorative Materials Used in Pedodontics | | | |
| **INSTRUCTOR GIVING THE COURSE** | | **COURSE LANGUAGE** | **COURSE CATEGORY** | | |
| Assoc. Prof. Dr. Seçil ÇALIŞKAN | | Turkish | **Technical** | **Medical** | **Other(……)** |
|  | X |  |

**COURSE LEVEL**

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| **SCIENTIFIC PREPARATION** | **DEGREE** | **DOCTORATE** | **SPECIALIZED FIELD COURSE** |
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| **SEMESTER** | **WEEKLY CLASS HOURS** | | | **YOUR COURSE** | | | | |
| **THEORETICAL** | **APPLICATION** | **LAB** | **LOAN** | | **ECTS** | | **TYPE** |
| Spring | 2 | 6 | 0 | 5 | | 7.5 | | ELECTIVE |
|  | | | | | | | | |
| **EVALUATION CRITERIA** | | | | | | | | |
| **SEMESTER ACTIVITIES** | | | **Type of activity** | | **Number** | | **Percentage (%)** | |
| Midterm Exam | | **1** | | **50** | |
| Quiz | |  | |  | |
| Homework | |  | |  | |
| Project | |  | |  | |
| Oral examination | |  | |  | |
| Other (………) | |  | |  | |
| **Final Exam** | | | | **50** | |
| **PREREQUISITE(S)** | | | Having successfully completed the Morphological and Histological Characteristics of Enamel, Dentin Cementum and Pulp of Primary and Permanent Teeth course. | | | | | |
| **SHORT COURSE CONTENT** | | | Amalgam, traditional glass ionomer cement, resin modified glass ionomer cement, polyacid modified composite resin, composite resin materials, recent developments in dentin bonding and conservative approaches related to the development of restorative materials used in the restoration of primary and permanent teeth. | | | | | |
| **COURSE AIMS** | | | The aim of this course is to provide information about the properties, uses and indications of restorative materials used in primary and permanent teeth. | | | | | |
| **COURSE CONTRBUTION TO THE PROFESSIONAL EDUCATION OBJECTIVES** | | | Understanding, explaining and gaining skills in the contents, indications, restoration steps, selection of appropriate restorative materials after preparation, and application of materials used in primary and permanent tooth restoration. | | | | | |
| **LEARNING OUTCOMES OF THE COURSE** | | |  | | | | | |
| **TEXTBOOK** | | | Dean JA, Avery DR, McDonald RE. McDonald's and Avery's Dentistry for the Child and Adolescent. Mosby/Elsevier; 2011.  Marwah N. Textbook of Pediatric Dentistry. JP Medical Ltd; 2014.  Cameron AC, Widmer RP. Handbook of Pediatrics of Dentistry. Elsevier Health Sciences; 2014. | | | | | |
| **OTHER REFERENCES** | | | Rao A. Principles and Practice of Pedodontics. Jaypee Brothers Medical Publishers; 2008.  Morsi AM. Clinical Cases in Pediatric Dentistry. John Wiley & Sons; 2012.  Wilson HFN. Minimally Invasive Dentistry: Treatment of Dental Caries. Quintessence; 2013.  Soxman JA. Handbook of Clinical Techniques in Pediatric Dentistry. John Wiley & Sons; 2016. | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | |  | | | | | |

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| **WEEKLY PLAN OF THE COURSE** | | |
| **WEEK** | **HISTORY** | **TOPICS TO BE COVERED** |
| **1** |  | Amalgam |
| **2** |  | Conventional glass ionomer cements |
| **3** |  | Conventional glass ionomer cements |
| **4** |  | Resin modified glass ionomer cements |
| **5** |  | Resin modified glass ionomer cements |
| **6** |  | Polyacid modified composite resins |
| **7** |  | Polyacid modified composite resins |
| **8** |  | MIDTERM EXAM |
| **9** |  | Composite resins |
| **10** |  | Composite resins |
| **11** |  | Bonding agents |
| **12** |  | Advances in restorative materials |
| **13** |  | Evaluation of articles and research on the subject |
| **14** |  | Evaluation of articles and research on the subject |
| **15** |  | Evaluation of articles and research on the subject |
| **16** |  | END OF SEMESTER EXAM |

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| **CONTRIBUTION OF THE COURSE LEARNING OUTCOMES TO THE ELECTRICAL ELECTRONICS ENGINEERING MSc PROGRAM LEARNING OUTCOMES** | | **CONTRIBUTION LEVEL** | | |
| **NO** | **LEARNING OUTCOMES (Phd)** | **1**  **Low** | **2**  **Mid** | **3**  **High** |
| **LO 1** | Amalgam |  | **X** |  |
| **LO 2** | Conventional glass ionomer cements |  |  | X |
| **LO 3** | Resin modified glass ionomer cements |  |  | **X** |
| **LO 4** | Polyacid modified composite resins |  |  | **X** |
| **LO 5** | Composite resins |  | **X** |  |
| **LO 6** | Bonding agents |  | **X** |  |
| **LO 7** | Advances in restorative materials |  |  | **X** |
| **LO 8** | Evaluation of articles and research on the subject |  |  | **X** |
| **LO 9** |  |  |  |  |
| **LO 10** |  |  |  |  |
| **LO 11** |  |  |  |  |
| **LO 12** |  |  |  |  |
| **LO 13** |  |  |  |  |
| **LO 14** |  |  |  |  |

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| **INSTRUCTOR GIVING THE COURSE** | **HISTORY** |
| Assoc. Prof. Dr. Seçil ÇALIŞKAN | **24.03.2025** |



**ESOGU INSTITUTE OF HEALTH SCIENCES**

**DEPARTMENT OF PEDODONTICS**

**COURSE INFORMATION FORM**

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| **COURSE CODE** | **523104303** | **DEPARTMENT** | PEDODONTICS | | |
| **COURSE NAME** | | Sedation and General Anesthesia in Pedodontics | | | |
| **INSTRUCTOR GIVING THE COURSE** | | **COURSE LANGUAGE** | **COURSE CATEGORY** | | |
| Assoc. Prof. Dr. İrem Bağ | | Turkish | **Technical** | **Medical** | **Other(……)** |
|  | X |  |

**COURSE LEVEL**

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| **SCIENTIFIC PREPARATION** | **DEGREE** | **DOCTORATE** | **SPECIALIZED FIELD COURSE** |
|  |  | **X** |  |

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| **SEMESTER** | **WEEKLY CLASS HOURS** | | | **YOUR COURSE** | | | | |
| **THEORETICAL** | **APPLICATION** | **LAB** | **LOAN** | | **ECTS** | | **TYPE** |
| Spring | 2 | 2 | 0 | 3 | | 7.5 | | ELECTIVE |
|  | | | | | | | | |
| **EVALUATION CRITERIA** | | | | | | | | |
| **SEMESTER ACTIVITIES** | | | **Type of activity** | | **Number** | | **Percentage (%)** | |
| Midterm Exam | | **1** | | **50** | |
| Quiz | |  | |  | |
| Homework | |  | |  | |
| Project | |  | |  | |
| Oral examination | |  | |  | |
| Other (………) | |  | |  | |
| **Final Exam** | | | | **50** | |
| **PREREQUISITE(S)** | | | - | | | | | |
| **SHORT COURSE CONTENT** | | | Indications, contraindications, agents used, application techniques and complications of pedodontic sedation and general anesthesia | | | | | |
| **COURSE AIMS** | | | The purpose of this course is to provide information about sedation and general anesthesia in pedodontics. | | | | | |
| **COURSE CONTRBUTION TO THE PROFESSIONAL EDUCATION OBJECTIVES** | | | Understanding, explaining and gaining skills in sedation and general anesthesia applications in terms of pedodontics | | | | | |
| **LEARNING OUTCOMES OF THE COURSE** | | | 1- Indications and contraindications of general anesthesia and sedation in pediatric dentistry  2- Possible risks and complications of dental general anesthesia and sedation  3- Preferred methods and dental materials for general anesthesia and sedation  4- Psychological effects of dental general anesthesia and sedation on children with disabilities and severe anxiety  5- Mandatory precautions for dental general anesthesia and sedation  6- Preferred anesthetic agents and methods for dental general anesthesia and sedation  7- Dental treatment applications under general anesthesia and sedation | | | | | |
| **TEXTBOOK** | | | Koch G, Poulsen S. Clinical approach to pediatric dentistry. 2nd ed. Media publishing group; 2009.  Marwah N. Textbook of Pediatric Dentistry. JP Medical Ltd; 2014. | | | | | |
| **OTHER REFERENCES** | | | Morsi AM. Clinical Cases in Pediatric Dentistry. John Wiley & Sons; 2012. | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | - | | | | | |

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| **WEEKLY PLAN OF THE COURSE** | | |
| **WEEK** | **HISTORY** | **TOPICS TO BE COVERED** |
| **1** |  | Indications and contraindications of sedation in pedodontics |
| **2** |  | Agents used in sedation |
| **3** |  | Sedation methods |
| **4** |  | Possible risks and complications of sedation |
| **5** |  | Indications and contraindications of general anesthesia in pedodontics |
| **6** |  | Agents used in general anesthesia |
| **7** |  | Possible risks and complications of general anesthesia |
| **8** |  | MIDTERM EXAM |
| **9** |  | Procedure for administering general anesthesia |
| **10** |  | Stages of general anesthesia |
| **11** |  | Evaluation of articles and research on the subject |
| **12** |  | Evaluation of articles and research on the subject |
| **13** |  | Evaluation of articles and research on the subject |
| **14** |  | Evaluation of articles and research on the subject |
| **15** |  | Evaluation of articles and research on the subject |
| **16** |  | END OF SEMESTER EXAM |

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| **CONTRIBUTION OF THE COURSE LEARNING OUTCOMES TO THE ELECTRICAL ELECTRONICS ENGINEERING MSc PROGRAM LEARNING OUTCOMES** | | **CONTRIBUTION LEVEL** | | |
| **NO** | **LEARNING OUTCOMES (Phd)** | **1**  **Low** | **2**  **Mid** | **3**  **High** |
| **LO 1** | Should be able to make diagnosis and treatment planning in pediatric patients. |  |  | x |
| **LO 2** | Should know preventive dentistry practices. |  | **x** |  |
| **LO 3** | Should be able to perform restorative applications on deciduous and permanent teeth in pediatric patients. |  |  | **x** |
| **LO 4** | Know the use, construction and mechanism of action of space maintainer appliances. |  | **x** |  |
| **LO 5** | Know the clinical approaches to be taken in cases of dental trauma. |  | **x** |  |
| **LO 6** | Perform dental treatment of disabled and uncooperative pediatric patients under dental sedation and general anesthesia. |  |  | **x** |
| **LO 7** | Should have knowledge and application skills about new methods and applications developing in the field of pedodontics. |  |  | **x** |
| **LO 8** |  |  |  |  |
| **LO 9** |  |  |  |  |
| **LO 10** |  |  |  |  |
| **LO 11** |  |  |  |  |
| **LO 12** |  |  |  |  |
| **LO 13** |  |  |  |  |
| **LO 14** |  |  |  |  |

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| **INSTRUCTOR GIVING THE COURSE** | **HISTORY** |
| Assoc. Prof. Dr. İrem Bağ | **24.03.2025** |



**ESOGU INSTITUTE OF HEALTH SCIENCES**

**DEPARTMENT OF PEDODONTICS**

**COURSE INFORMATION FORM**

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| --- | --- | --- | --- | --- | --- |
| **COURSE CODE** | **523104304** | **DEPARTMENT** | PEDODONTICS | | |
| **COURSE NAME** | | Traumatic Dental Injuries and Treatments in Primary and Permanent Teeth | | | |
| **INSTRUCTOR GIVING THE COURSE** | | **COURSE LANGUAGE** | **COURSE CATEGORY** | | |
| Assoc. Prof. Dr. Seçil ÇALIŞKAN | | Turkish | **Technical** | **Medical** | **Other(……)** |
|  | X |  |

**COURSE LEVEL**

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| **SCIENTIFIC PREPARATION** | **DEGREE** | **DOCTORATE** | **SPECIALIZED FIELD COURSE** |
|  |  | **X** |  |

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| **SEMESTER** | **WEEKLY CLASS HOURS** | | | **YOUR COURSE** | | | | |
| **THEORETICAL** | **APPLICATION** | **LAB** | **LOAN** | | **ECTS** | | **TYPE** |
| Spring | 2 | 4 | 0 | 4 | | 7.5 | | ELECTIVE |
|  | | | | | | | | |
| **EVALUATION CRITERIA** | | | | | | | | |
| **SEMESTER ACTIVITIES** | | | **Type of activity** | | **Number** | | **Percentage (%)** | |
| Midterm Exam | | **1** | | **50** | |
| Quiz | |  | |  | |
| Homework | |  | |  | |
| Project | |  | |  | |
| Oral examination | |  | |  | |
| Other (………) | |  | |  | |
| **Final Exam** | | | | **50** | |
| **PREREQUISITE(S)** | | | Successfully completed the Pulp Diseases and Treatments course in Primary and Young Permanent Teeth. | | | | | |
| **SHORT COURSE CONTENT** | | | Etiology and epidemiology of traumatic dental injury, examination and classification of traumatic injuries, injuries to primary and permanent teeth, mouth guards | | | | | |
| **COURSE AIMS** | | | The purpose of this course is to provide information about the classification, examination, diagnosis, treatment principles and prognosis of treatment in dental and soft tissue injuries resulting from impacts to primary and permanent teeth. | | | | | |
| **COURSE CONTRBUTION TO THE PROFESSIONAL EDUCATION OBJECTIVES** | | | Understanding, explaining and gaining skills in traumatic dental injuries and treatment methods in primary and permanent teeth | | | | | |
| **LEARNING OUTCOMES OF THE COURSE** | | |  | | | | | |
| **TEXTBOOK** | | | Andreasen JO, Andreasen FM, Andersson L. Textbook and Color Atlas of Traumatic Injuries to the Teeth. Wiley; 2007.  Berman LH, Pieragnoli de Blanco L, Cohen S. A Clinical Guide to Dental Traumatology. Mosby/Elsevier; 2007. | | | | | |
| **OTHER REFERENCES** | | | Rao A. Principles and Practice of Pedodontics. Jaypee Brothers Medical Publishers; 2008.  Koch G, Poulsen S. Clinical approach to pediatric dentistry. 2nd ed. Media publishing group; 2009.  van Amerongen E. Case Reports in Pediatric Dentistry. Quintessences Publishing; 2009.  Dean JA, Avery DR, McDonald RE. McDonald's and Avery's Dentistry for the Child and Adolescent. Mosby/Elsevier; 2011.  Morsi AM. Clinical Cases in Pediatric Dentistry. John Wiley & Sons; 2012  Cameron AC, Widmer RP. Handbook of Pediatrics of Dentistry. Elsevier Health Sciences; 2014.  Marwah N. Textbook of Pediatric Dentistry. JP Medical Ltd; 2014  Soxman JA. Handbook of Clinical Techniques in Pediatric Dentistry. John Wiley & Sons; 2016. | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | |  | | | | | |

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| **WEEKLY PLAN OF THE COURSE** | | |
| **WEEK** | **HISTORY** | **TOPICS TO BE COVERED** |
| **1** |  | Etiology/epidemiology of traumatic dental injuries |
| **2** |  | Clinical and radiographic examination in traumatic dental injuries |
| **3** |  | Traumatic dental injuries to primary teeth |
| **4** |  | Traumatic dental injuries to primary teeth |
| **5** |  | Traumatic dental injuries to young permanent teeth |
| **6** |  | Traumatic dental injuries to young permanent teeth |
| **7** |  | Alveolar and jaw fractures |
| **8** |  | MIDTERM EXAM |
| **9** |  | Alveolar and jaw fractures |
| **10** |  | Alveolar and jaw fractures |
| **11** |  | Evaluation of articles and research on the subject |
| **12** |  | Evaluation of articles and research on the subject |
| **13** |  | Evaluation of articles and research on the subject |
| **14** |  | Evaluation of articles and research on the subject |
| **15** |  | Evaluation of articles and research on the subject |
| **16** |  | END OF SEMESTER EXAM |

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| **CONTRIBUTION OF THE COURSE LEARNING OUTCOMES TO THE ELECTRICAL ELECTRONICS ENGINEERING MSc PROGRAM LEARNING OUTCOMES** | | **CONTRIBUTION LEVEL** | | |
| **NO** | **LEARNING OUTCOMES (Phd)** | **1**  **Low** | **2**  **Mid** | **3**  **High** |
| **LO 1** | Etiology/epidemiology of traumatic dental injuries |  |  | **X** |
| **LO 2** | Clinical and radiographic examination in traumatic dental injuries |  |  | **X** |
| **LO 3** | Traumatic dental injuries to primary teeth |  |  | **X** |
| **LO 4** | Traumatic dental injuries to young permanent teeth |  |  | **x** |
| **LO 5** | Alveolar and jaw fractures |  | **x** |  |
| **LO 6** | Evaluation of articles and research on the subject |  |  | **x** |
| **LO 7** |  |  |  |  |
| **LO 8** |  |  |  |  |
| **LO 9** |  |  |  |  |
| **LO 10** |  |  |  |  |
| **LO 11** |  |  |  |  |
| **LO 12** |  |  |  |  |
| **LO 13** |  |  |  |  |
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| **INSTRUCTOR GIVING THE COURSE** | **HISTORY** |
| Assoc. Prof. Dr. Seçil ÇALIŞKAN | **24.03.2025** |



**ESOGU INSTITUTE OF HEALTH SCIENCES**

**DEPARTMENT OF PEDODONTICS**

**COURSE INFORMATION FORM**

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| **COURSE CODE** | **523104305** | **DEPARTMENT** | PEDODONTICS | | |
| **COURSE NAME** | | Space Maintainer and Child Prosthesis Applications | | | |
| **INSTRUCTOR GIVING THE COURSE** | | **COURSE LANGUAGE** | **COURSE CATEGORY** | | |
| Assoc. Prof. Dr. İrem Bağ | | Turkish | **Technical** | **Medical** | **Other(……)** |
|  | X |  |

**COURSE LEVEL**

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| **SCIENTIFIC PREPARATION** | **DEGREE** | **DOCTORATE** | **SPECIALIZED FIELD COURSE** |
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| **SEMESTER** | **WEEKLY CLASS HOURS** | | | **YOUR COURSE** | | | | |
| **THEORETICAL** | **APPLICATION** | **LAB** | **LOAN** | | **ECTS** | | **TYPE** |
| SPRING | 1 | 6 | 0 | 4 | | 7.5 | | ELECTIVE |
|  | | | | | | | | |
| **EVALUATION CRITERIA** | | | | | | | | |
| **SEMESTER ACTIVITIES** | | | **Type of activity** | | **Number** | | **Percentage (%)** | |
| Midterm Exam | | **1** | | **50** | |
| Quiz | |  | |  | |
| Homework | |  | |  | |
| Project | |  | |  | |
| Oral examination | |  | |  | |
| Other (………) | |  | |  | |
| **Final Exam** | | | | **50** | |
| **PREREQUISITE(S)** | | | - | | | | | |
| **SHORT COURSE CONTENT** | | | Placeholder and Child Prosthesis Applications | | | | | |
| **COURSE AIMS** | | | The purpose of this course is to provide information about the types, indications, and application methods of space maintainers and child prostheses used to prevent problems that may arise in cases of early primary tooth loss or congenital tooth deficiencies. | | | | | |
| **COURSE CONTRBUTION TO THE PROFESSIONAL EDUCATION OBJECTIVES** | | | Learning about space maintainer and child prosthesis applications. | | | | | |
| **LEARNING OUTCOMES OF THE COURSE** | | | 1- To be able to define the problems that will occur in early deciduous tooth loss or congenital tooth deficiencies2- Describe the types of space maintainers and pediatric prostheses3- To learn the indications of space maintainers and pediatric prostheses4- To be able to define the application types of space maintainers and pediatric prostheses5- To know the construction stages of movable and fixed space maintainers | | | | | |
| **TEXTBOOK** | | | Rao A. Principles and Practice of Pedodontics. Jaypee Brothers Medical Publishers; 2008.Koch G, Poulsen S. Clinical Approach to Pediatric Dentistry. Media Publishing Group; 2009. | | | | | |
| **OTHER REFERENCES** | | | Mathewson RJ, Primosch, RE. Fundamentals of Pediatric Dentistry, Quintessence Publishing; 1995.Dean JA, Avery DR, McDonald RE. McDonald's and Avery's Dentistry for the Child and Adolescent. Mosby/Elsevier; 2011.Marwah N. Textbook of Pediatric Dentistry. JP Medical Ltd; 2014. | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | - | | | | | |

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| **WEEKLY PLAN OF THE COURSE** | | |
| **WEEK** | **HISTORY** | **TOPICS TO BE COVERED** |
| **1** |  | Things to Consider Before Making a Placeholder |
| **2** |  | Indications for Placeholders |
| **3** |  | Contraindications for Space Maintainers |
| **4** |  | Features to Look for in Placeholders |
| **5** |  | Fixed placeholders |
| **6** |  | Fixed placeholders |
| **7** |  | Movable placeholders |
| **8** |  | MIDTERM EXAM |
| **9** |  | Movable placeholders |
| **10** |  | Evaluation of articles and research on the subject |
| **11** |  | Evaluation of articles and research on the subject |
| **12** |  | Evaluation of articles and research on the subject |
| **13** |  | Evaluation of articles and research on the subject |
| **14** |  | Evaluation of articles and research on the subject |
| **15** |  | Evaluation of articles and research on the subject |
| **16** |  | END OF SEMESTER EXAM |

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| **CONTRIBUTION OF THE COURSE LEARNING OUTCOMES TO THE ELECTRICAL ELECTRONICS ENGINEERING MSc PROGRAM LEARNING OUTCOMES** | | **CONTRIBUTION LEVEL** | | |
| **NO** | **LEARNING OUTCOMES (Phd)** | **1**  **Low** | **2**  **Mid** | **3**  **High** |
| **LO 1** | Should be able to make diagnosis and treatment planning in pediatric patients. |  |  | x |
| **LO 2** | Should know preventive dentistry practices. |  | **x** |  |
| **LO 3** | Should be able to perform restorative applications on deciduous and permanent teeth in pediatric patients. |  |  | **x** |
| **LO 4** | Know the use, construction and mechanism of action of space maintainer appliances. |  |  | **x** |
| **LO 5** | Know the clinical approaches to be taken in cases of dental trauma. |  | **x** |  |
| **LO 6** | Perform dental treatment of disabled and uncooperative pediatric patients under dental sedation and general anesthesia. |  | **x** |  |
| **LO 7** | Should have knowledge and application skills about new methods and applications developing in the field of pedodontics. |  |  | **x** |
| **LO 8** |  |  |  |  |
| **LO 9** |  |  |  |  |
| **LO 10** |  |  |  |  |
| **LO 11** |  |  |  |  |
| **LO 12** |  |  |  |  |
| **LO 13** |  |  |  |  |
| **LO 14** |  |  |  |  |

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| **INSTRUCTOR GIVING THE COURSE** | **HISTORY** |
| Assoc. Prof. Dr. İrem Bağ | **24.03.2025** |



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**DEPARTMENT OF PEDODONTICS**

**COURSE INFORMATION FORM**

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| **COURSE CODE** | **523106306** | **DEPARTMENT** | PEDODONTICS | | |
| **COURSE NAME** | | Tooth Discoloration and Treatments | | | |
| **INSTRUCTOR GIVING THE COURSE** | | **COURSE LANGUAGE** | **COURSE CATEGORY** | | |
| Assist. Prof. Beril DEMİRCAN | | Turkish | **Technical** | **Medical** | **Other(……)** |
|  | X |  |

**COURSE LEVEL**

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| **SCIENTIFIC PREPARATION** | **DEGREE** | **DOCTORATE** | **SPECIALIZED FIELD COURSE** |
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| **SEMESTER** | **WEEKLY CLASS HOURS** | | | **YOUR COURSE** | | | | |
| **THEORETICAL** | **APPLICATION** | **LAB** | **LOAN** | | **ECTS** | | **TYPE** |
| SPRING | 2 | 1 | 0 | 2.5 | | 5.0 | | COMPULSORY |
|  | | | | | | | | |
| **EVALUATION CRITERIA** | | | | | | | | |
| **SEMESTER ACTIVITIES** | | | **Type of activity** | | **Number** | | **Percentage (%)** | |
| Midterm Exam | | **1** | | **50** | |
| Quiz | |  | |  | |
| Homework | |  | |  | |
| Project | |  | |  | |
| Oral examination | |  | |  | |
| Other (………) | |  | |  | |
| **Final Exam** | | | | **50** | |
| **PREREQUISITE(S)** | | | - | | | | | |
| **SHORT COURSE CONTENT** | | | Tooth Discoloration and Treatments | | | | | |
| **COURSE AIMS** | | | The purpose of this course is to provide information about the causes and formation mechanisms of internal and external discolorations in teeth, effective systemic factors and treatment approaches in different types of discolorations, materials used, and techniques applied to vital and non-vital teeth. | | | | | |
| **COURSE CONTRBUTION TO THE PROFESSIONAL EDUCATION OBJECTIVES** | | | Learning about tooth discoloration and its treatment practices. | | | | | |
| **LEARNING OUTCOMES OF THE COURSE** | | |  | | | | | |
| **TEXTBOOK** | | | Rao A. Principles and Practice of Pedodontics. Jaypee Brothers Medical Publishers; 2008.Koch G, Poulsen S. Clinical Approach to Pediatric Dentistry. Media Publishing Group; 2009. | | | | | |
| **OTHER REFERENCES** | | | Mathewson RJ, Primosch, RE. Fundamentals of Pediatric Dentistry, Quintessence Publishing; 1995.Dean JA, Avery DR, McDonald RE. McDonald's and Avery's Dentistry for the Child and Adolescent. Mosby/Elsevier; 2011.Marwah N. Textbook of Pediatric Dentistry. JP Medical Ltd; 2014. | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | |  | | | | | |

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| **WEEKLY PLAN OF THE COURSE** | | |
| **WEEK** | **HISTORY** | **TOPICS TO BE COVERED** |
| **1** |  | Tooth color and color perception |
| **2** |  | Causes and classification of tooth discoloration |
| **3** |  | Internal discolorations |
| **4** |  | Internal discolorations |
| **5** |  | External discolorations |
| **6** |  | External discolorations |
| **7** |  | Teeth whitening methods |
| **8** |  | MIDTERM EXAM |
| **9** |  | Side effects of the whitening technique |
| **10** |  | Evaluation of articles and research on the subject |
| **11** |  | Evaluation of articles and research on the subject |
| **12** |  | Evaluation of articles and research on the subject |
| **13** |  | Evaluation of articles and research on the subject |
| **14** |  | Evaluation of articles and research on the subject |
| **15** |  | Evaluation of articles and research on the subject |
| **16** |  | END OF SEMESTER EXAM |

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| **CONTRIBUTION OF THE COURSE LEARNING OUTCOMES TO THE ELECTRICAL ELECTRONICS ENGINEERING MSc PROGRAM LEARNING OUTCOMES** | | **CONTRIBUTION LEVEL** | | |
| **NO** | **LEARNING OUTCOMES (Phd)** | **1**  **Low** | **2**  **Mid** | **3**  **High** |
| **LO 1** | Tooth color and color perception |  | **x** |  |
| **LO 2** | Causes and classification of tooth discoloration |  |  | **x** |
| **LO 3** | Internal discolorations |  |  | **x** |
| **LO 4** | External discolorations |  |  | **x** |
| **LO 5** | Teeth whitening methods |  | **x** |  |
| **LO 6** | Side effects of the whitening technique |  |  | **x** |
| **LO 7** | Evaluation of articles and research on the subject |  |  | **x** |
| **LO 8** |  |  |  |  |
| **LO 9** |  |  |  |  |
| **LO 10** |  |  |  |  |
| **LO 11** |  |  |  |  |
| **LO 12** |  |  |  |  |
| **LO 13** |  |  |  |  |
| **LO 14** |  |  |  |  |

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| **INSTRUCTOR GIVING THE COURSE** | **HISTORY** |
| Assist. Prof. Beril DEMİRCAN | **24.03.2025** |



**ESOGU INSTITUTE OF HEALTH SCIENCES**

**DEPARTMENT OF PEDODONTICS**

**COURSE INFORMATION FORM**

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| **COURSE CODE** | **523104307** | **DEPARTMENT** | PEDODONTICS | | |
| **COURSE NAME** | | Drug Treatment in Children | | | |
| **INSTRUCTOR GIVING THE COURSE** | | **COURSE LANGUAGE** | **COURSE CATEGORY** | | |
| Assoc. Prof. Dr. Merve CANDAN | | Turkish | **Technical** | **Medical** | **Other(……)** |
|  | X |  |

**COURSE LEVEL**

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| **SCIENTIFIC PREPARATION** | **DEGREE** | **DOCTORATE** | **SPECIALIZED FIELD COURSE** |
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| **SEMESTER** | **WEEKLY CLASS HOURS** | | | **YOUR COURSE** | | | | |
| **THEORETICAL** | **APPLICATION** | **LAB** | **LOAN** | | **ECTS** | | **TYPE** |
| Spring | 2 | 2 | 0 | 3 | | 7.5 | | ELECTIVE |
|  | | | | | | | | |
| **EVALUATION CRITERIA** | | | | | | | | |
| **SEMESTER ACTIVITIES** | | | **Type of activity** | | **Number** | | **Percentage (%)** | |
| Midterm Exam | | **1** | | **50** | |
| Quiz | |  | |  | |
| Homework | |  | |  | |
| Project | |  | |  | |
| Oral examination | |  | |  | |
| Other (………) | |  | |  | |
| **Final Exam** | | | | **50** | |
| **PREREQUISITE(S)** | | | - | | | | | |
| **SHORT COURSE CONTENT** | | | Areas of use and dosages of analgesics, anti-inflammatories and antibiotics, antibiotic prophylaxis, prescription writing | | | | | |
| **COURSE AIMS** | | | The aim of this course is to provide information about the areas of use of analgesics, anti-inflammatories and antibiotics in pediatric patients, their dosages, side effects, antibiotic prophylaxis, factors affecting drug selection and prescribing. | | | | | |
| **COURSE CONTRBUTION TO THE PROFESSIONAL EDUCATION OBJECTIVES** | | | Choosing and prescribing the correct drug and dosage by considering the factors affecting drug selection in the pediatric patient. | | | | | |
| **LEARNING OUTCOMES OF THE COURSE** | | | To learn the etiology of odontogenic infections and their spread pathways  Learning the treatment options of odontogenic infections  To learn the active ingredients and mechanisms of action of antibiotics used in dentistry  Understanding the causes of dental pain  Learning the treatment options of dental pain  Learning the active ingredients and mechanisms of action of analgesics used in dentistry  Choosing the right drug for the pediatric patient and adjusting the dosage  To be able to cope with complications that may develop due to drugs | | | | | |
| **TEXTBOOK** | | | Karaca İ, Çankal DU. Antibiotic and antimicrobial use in dentistry. Quintessence Publishing; 2000. | | | | | |
| **OTHER REFERENCES** | | | Rao A. Principles and Practice of Pedodontics. Jaypee Brothers Medical Publishers; 2008.  Pinkham JR, Casamassimo PS, Fields HW, McTigue DJ, Nowak AJ. Pediatric Dentistry from Infancy to Adolescence. Atlas Bookstore; 2009. | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | Computer or laptop, internet connection, blackboard | | | | | |

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| **WEEKLY PLAN OF THE COURSE** | | |
| **WEEK** | **HISTORY** | **TOPICS TO BE COVERED** |
| **1** |  | Microorganisms causing odontogenic infection |
| **2** |  | and spread of odontogenic infections |
| **3** |  | Treatment principles in odontogenic infections |
| **4** |  | Antibiotics |
| **5** |  | Antibiotics |
| **6** |  | Antibiotics |
| **7** |  | Antibiotic prophylaxis |
| **8** |  | MIDTERM EXAM |
| **9** |  | Pain mechanism |
| **10** |  | Analgesics/Anti-inflammatories |
| **11** |  | Analgesics/Anti-inflammatories |
| **12** |  | Evaluation of articles and research on the subject |
| **13** |  | Evaluation of articles and research on the subject |
| **14** |  | Evaluation of articles and research on the subject |
| **15** |  | Evaluation of articles and research on the subject |
| **16** |  | END OF SEMESTER EXAM |

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| **CONTRIBUTION OF THE COURSE LEARNING OUTCOMES TO THE ELECTRICAL ELECTRONICS ENGINEERING MSc PROGRAM LEARNING OUTCOMES** | | **CONTRIBUTION LEVEL** | | |
| **NO** | **LEARNING OUTCOMES (Phd)** | **1**  **Low** | **2**  **Mid** | **3**  **High** |
| **LO 1** | To learn the etiology of odontogenic infections and their spread pathways |  |  | x |
| **LO 2** | Learning the treatment options of odontogenic infections |  | **x** |  |
| **LO 3** | To learn the active ingredients and mechanisms of action of antibiotics used in dentistry |  |  | **x** |
| **LO 4** | Understanding the causes of dental pain |  |  | **x** |
| **LO 5** | Learning the treatment options of dental pain |  | **x** |  |
| **LO 6** | Learning the active ingredients and mechanisms of action of analgesics used in dentistry |  |  | **x** |
| **LO 7** | Choosing the right drug for the pediatric patient and adjusting the dosage |  |  | **x** |
| **LO 8** | To be able to cope with complications that may develop due to drugs |  | **x** |  |
| **LO 9** |  |  |  |  |
| **LO 10** |  |  |  |  |
| **LO 11** |  |  |  |  |
| **LO 12** |  |  |  |  |
| **LO 13** |  |  |  |  |
| **LO 14** |  |  |  |  |

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| **INSTRUCTOR GIVING THE COURSE** | **DATE** |
| Assoc. Prof. Dr. Merve CANDAN | **19.03.2025** |