

Program Structure Template

School of Dental Sciences MDS (Pediatric and Preventive Dentistry)

SDS0107 2020-2023

SU/SDS/MDS- Pediatric and Preventive Dentistry

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1.1 Vision, Mission and Core Values of the University

Vision of the University

To serve the society by being a global University of higher learning in pursuit of academic excellence, innovation and nurturing entrepreneurship.

Mission of the University

- 1. Transformative educational experience
- 2. Enrichment by educational initiatives that encourage global outlook
- 3. Develop research, support disruptive innovations and accelerate entrepreneurship
- 4. Seeking beyond boundaries

- 1. Integrity
- 2. Leadership
- 3. Diversity
- 4. Community

Core Values



1.2 Vision, Mission and Core Values of the School

Vision of the School

To serve the society by being a global center in pursuit of academic and professional excellence in the field of dentistry.

Mission of the School

- 1. Creating a stimulating and flexible learning environment amongst the faculty and students
- 2. Strongly promoting research, innovation, clinical excellence
- 3. Promote and inculcate ethical values and continued betterment in the dental profession and in all facets of life.

Core Values

- 1. Integrity
- 2. Leadership
- 3. Diversity
- 4. Community

SU/SDS/MDS- Pediatric and Preventive Dentistry



1.3 Program Educational Objectives (PEO)

Program educational objectives are broad statements that describe the career and professional accomplishments that the program is preparing graduates to achieve.

PEO1: Be able to provide both primary and comprehensive, preventive and therapeutic oral health care including interceptive orthodontics for infants, children and adolescent.

PEO2: Be able to instill a positive attitude and behaviour in children towards oral health.

PEO3: Be able to guide and counsel the parents/guardian in regards to various

treatment modalities including different facets of preventive dentistry.

PEO4: Be able to manage and treat the physically and mentally challenged / disabled children effectively and efficiently, tailored to the needs of individual requirement and conditions.

PEO5: Maintain high standard of professional ethics and conduct and apply these in all aspects of professional life.



1.3.3 Program Outcomes (PO's)

PO1: Demonstrate an in- depth art and science of pediatric dentistry.

PO2: Provide preventive and therapeutic oral health care for infants and children through adolescence including those with special health care needs

PO3: Employ pediatric dental procedures and behavioral management techniques in Ambulatory and hospital settings.

PO4: Work collaboratively with clinicians, parents and other medical specialties advocating for the health of the child patient.

PO5: Execute a research project based on a thorough knowledge of literature, data collection and analysis.

PO6: Maintain high standard of professional ethics and conduct and apply these in all aspects of professional life.

PSO1: Adequate knowledge of scientific foundations on which pediatric dentistry is based which includes growth and development, structure and function of the teeth, mouth and jaws and associated tissues both in health and disease.

PSO2: To prepare a student who is proficient in providing preventive and therapeutic oral health care for infants and children through adolescence including those with special health care needs in instituition, private or public health settings.

PSO3: Be able to instill a positive attitude and behaviour in children towards oral health and understand the principles of prevention and preventive dentistry right from birth to adolescence.

PSO4: Be able to guide and counsel the parents in regards to various treatment modalities.**PSO5:** Acquire skill to prevent and manage complication if encountered and to carry out required investigative procedures and ability to interpret laboratory findings.



Program Structure Template School of Dental Sciences Master of Dental Surgery (MDS) Batch: 2020-2023

| S. No. | Paper ID | Subject Code | Subjects | | Teaching T | Load P | Type of Course ¹ : 1. CC | |
|-----------|---------------|-----------------|----------------------------------|-----|---------------|-----------|--|--|
| | | | | | | | 2. AECC 3. SEC 4. DSE | |
| THEO | RY SUBJEC | CTS | | | | | | |
| 1. | MDS307 | MDS307 | Pediatric & Preventive Dentistry | 134 | - | - | CC | |
| Practic | cal/Viva-Voc | e/Jury | | | | | | |
| 2. | MDS307 | MDS307 | Pediatric & Preventive Dentistry | - | - | 4187 | CC | |
| | TOTAL CREDITS | | | | | | | |



| 2.1 Template A1: Syllabus for Theory Subjects | | | | | | |
|---|---------------------|---|--|--|--|--|
| CO Program: | | SCHOOL OF DENTAL SCIENCES Batch: 2020-2023 | | | | |
| | | MASTER OF DENTAL SURGERY- PEDIATRIC & | | | | |
| | - | PREVENTIVE DENTISTRY | | | | |
| | | | | | | |
| 1 | Course | MDS307 | | | | |
| | Code | | | | | |
| 2 | Credits | NA | | | | |
| 3 | Contact | 134-0-4187 | | | | |
| | Hours | | | | | |
| | (L-T-P) | | | | | |
| 4 | Course | Compulsory (Core) | | | | |
| | Туре | | | | | |
| 5 | Course Objective | 1. Be able to provide both primary and comprehensive, preventive and therapeutic oral health care including interceptive orthodontics for infants, children and adolescent. | | | | |
| | | 2 Be able to instill a positive attitude and behaviour in children towards oral health and be able to guide and counsel the parents/guardian in regards to various treatment modalities including different facets of preventive dentistry. | | | | |
| | | 3 Be able to manage and treat the physically and mentally challenged / disabled children effectively and efficiently, tailored to the needs of individual requirement and conditions. 4 Maintain high standard of professional ethics and conduct and apply these in all aspects of professional life. | | | | |
| 6 | Course Outcomes | CO307.1.1- Student should be able to understand applied Anatomy, genetics, Applied Physiology, Applied Pathology, Nutrition, Dietics, Growth & Development, Cariology and Fluoride. CO307.1.2-Student will be get acquainted with Dental health concepts, Effects of civilization and environment, Dental Health delivery system, Public Health measures related to children along with principles of Pediatric Preventive Dentistry and to develop an attitude of counselling in Paediatric Dentistry CO307.2.1-Student should be competent to treat dental diseases which are occurring in child patient and should be able to manage to repair and restore the lost/ tooth structure to maintain harmony between both hard and soft tissues of the oral cavity. CO307.2.2-Student should be able to manage the disabled children effectively and efficiently, tailored to the needs of individual requirement and conditions. CO307.2.3-Student should be able to acquire skills in managing efficiency life threatening condition with emphasis on basic life support measure. CO307.3.1-Student should able to understand the principles of | | | | |

2.1 Template A1: Syllabus for Theory Subjects



| | | prevention and preventive dentistry right from b. CO307.3.2-Student should able to guide and couregards to various treatment modalities inc facets of preventive dentistry CO307.4.1-For a given case, the student after should able to adopt new methods and technique dentistry that is developed time to time, base researches, which are in the best interest of the c CO307.4.2-Student should able to respect ch privileges, including child patient's right to inf seek a second opinion. | unsel the parents in luding different r a critical assessment es of Paediatric d on scientific hild and patient. ild patient's rights and |
|---|---------------------------|---|--|
| 7 | Course Descriptio n | Paediatric and Preventive Dentistry deals with prof oral and dental ailments that may occur during objective of the post-graduate training is to train higher competence in both general and special ar prepare him or her for a career in teaching, resear practice. | g childhood. The a student so as to ensure rea of interest and |
| 8 | Outline sylla | ibus | |
| | MDS- | Unit A | |
| | 307.A | Applied basic sciences | |
| | MDS- | Unit A | Applied anatomy and |
| | 307.A1 | Topic 1 | genetics |
| | MDS- | Unit A | Applied |
| | 307.A2 | Topic 2 | physiology,pathology, microbiology,nutrition and diatics |
| | MDS- | Unit A | Dental plaque |
| | 307.A3 | Topic 3 | |
| | MDS- 307.B | Unit B Growth and development, child psychology and behaviour management, child abuse and neglect. | |
| | MDS- 307.B1 | Unit B Topic 1 | Growth and development of |
| | | | prenatal and postnatal development of craniofacial structures. |
| 1 | MDS- | Unit B | Development and |
| | 307.B2 | Topic 2 | classification of behaviour ,personality, intelligence in children, theories of child psychology, stages of psychological child development |

| | | | SHARDA UNIVERSITY |
|----------------|----------------------------------|--|----------------------|
| MDS- 307.B3 | Unit B Topic 3 | Behavioral management- pharmacological and non pharmacological method, child abuse and neglect. | |
| MDS- 307.C | Unit C Clinical pedodontics | | |
| MDS- 307.C1 | Unit C Topic 1 | Case history recording, setting up of pedodontic and preventive dentistry clinic dental radiology related to paediatric dentistry. | |
| MDS- 307.C2 | Unit C Topic 2 | Paediatric operative dentistry and endodontics, dental materials, interceptive orthodontics, oral habits, traumatic injuries in children. | |
| MDS- 307.C3 | Unit C Topic 3 | Deep sedation and general anaesthesia in pediatric dentistry, oral manifestation of systemic condition in children and their management, management of minor oral surgical procedures in children, pediatric medicine and clinical pathology, congenital abnormalities in children ,dental emergencies in children and their management, gingival and periodontal diseases in children and their management. | |
| MDS- 307.D | Unit D Preventive Pedodontics | | |
| MDS- 307.D1 | Unit D Topic 1 | Preventive and community dentistry as applied to paediatric dentistry, preventive pedodontics, fluorides, comprehensive infant oral health care/comprehensive | |



| | | | | | | | UNIVE | CKSII Y oundaries |
|---|-------------------------------|--------------------------|-----------------------|----------------------|------------------------------------|--------------------|-----------------|------------------------|
| | | | | | cleft ca | are, cariology. |] | |
| | MDS- | Unit D |) | | Dental health education and school | | | |
| | 307.D2 | Topic | 2 | | | | | |
| | | | | | | dental health | | |
| | | | | | program | | | |
| ļ | | | | | | niology. | _ | |
| | MDS- | Unit D | | | | oles of biostatics | | |
| | 307.D3 | Topic | 3 | | and res | | | |
| | | | | | | dology and | | |
| | | | | | | tanding of | | |
| | | | | | | ters and | | |
| | | | | | photog | raphy. | | |
| | MDS- | | cally compromised | | | | | |
| | 307.E | consid | leration in paediati | ric dentistry, | | | | |
| | | emerg | ging concepts in peo | liatric dentistry. | | | | |
| | MDS- | Medic | ally compromised c | hild. | Medica | ally | | |
| | 307.E1 | | | | compre | omised child. | | |
| | | | | | | | J | |
| | MDS- | Prosth | etic consideration ir | paediatric dentistry | Prosthe | etic | | |
| | 307.E2 | | | | consid | eration in | | |
| | | | | | paedia | tric dentistry | | |
| | MDS- | Emerg | ging concepts in ped | iatric dentistry. | | ing concepts in | | |
| | 307.E3 | | | | pediatr | ric dentistry. | | |
| | | | | | 1 | 2 | | |
| | C | | | Minimum 75% is N | Veeded | | | |
| | Course evaluatio | Attend | dance | for both theory and | l | | | |
| 1 | | | | clinical practical | | | | |
| Ì | n | Quizz | es | A | Taken in every 2 months | | Ī | |
| | | Presentations | | Seminars, Journal | | | 1 | |
| | | | | Case Presentations | | | | |
| | | | | and Library Disser | | | | |
| | | | | Presentation | uution | | | |
| | | | | Project based learn | ning | | - | |
| | | Any C |)thar | short studies, | ing, | | | |
| | | Any C | Julei | , | monto | | | |
| | | | | Discussions, Assign | ments | Theory | 1 st | 3 rd year - |
| | | | | | | Theory | year – | 300 marks |
| | | End T | erm examination | | | | 100 year – | 500 marks |
| | | | | 700 Marks | | | marks | |
| | | | | - | | Practical | marks | 3 rd year - |
| | | | | | | Tactical | | 300 marks |
| 2 | Text | SR. | Author | Title | | | 1 | |
| - | | GIC. | 110101 | 11110 | | | | |
| | book/s* | 1 | Pinkham,JR | Pediatric Dentistr | w infano | v through adalas | cence | |
| | | 1 | 1 IIIKIIAIII,JK | | y mane | y unough adoles | | |
| | | 2 | Mc Donald,RE | Dentistry for the | ohild on | dadagaant | | |
| | | 2 | Nic Dollalu, KE | Denusuy for the | ciniu and | audiescent | | |
| | | 3 | Ghai,OP | Ghai essential pa | adiatrias | | | |
| | | 5 | Ollai,OP | Unai essential pa | culatrics | | | |
| | 4 Goran Kash Dadadartias Clin | | linical Approach | | | | | |
| | | 4 Goran Koch Pedodontics | | | Clinical Approach | | | |
| | | | | 1 | | | | |



| 5 | Welbury | Pediatric Dentistry |
|----|-------------------------|---|
| 6 | Cameron,Angus | Handbook of pediatric dentistry |
| 7 | Stephen Wei | Pediatric Dentistry Total Patient Care |
| 8 | Curzon,MEJ | Kennedy's Pediatric Operative Dentistry |
| 9 | Stewart | Pediatric Dentistry |
| 10 | Mathewson,RJ | Fundamentals of pediatric dentistry |
| 11 | Pinkham,JR | Pediatric Dentistry |
| 12 | Nikiforuk | Understanding Dental Caries Vol 1 |
| 13 | Scully,Crispian | A colour atlas of orofacial health: Diseases in |
| | | children and adolescents |
| 14 | Welburg,Richards | Paediatric dentistry |
| 15 | Nikiforuk | Understanding Dental Caries Vol 2 |
| 16 | JJ.Murray& Rug- Gunn | Fluorides in Caries Prevention |
| 17 | Fejerskov& Burt | Fluorides in Dentistry |
| 18 | Fejerskov&Thylst rup | Text book of Clinical Cariology |
| 19 | Mathewson | Fundamentals of Pediatric Dentistry |
| 20 | NewBurn | Cariology |
| 21 | Marwah,Nikhil | Comprehensive Pediatric Dentistry |
| 22 | Tandon,Shobha | Textbook of pedodontics |
| 23 | Chadwick,BL | Child Taming : How to manage children in |
| | | dental practice |
| 24 | Ripa | Management of Dental Behaviour in children |



| | | | | Beyond Boundaries |
|---|--------------------------|---|------------------------|---|
| | | 25 | Shearer | Treatment planning in primary dental care |
| | 26 | | Gutmann,James I | Problem solving in endodontics |
| | 27 Ka | | Kaban,Leonard B | Pediatric oral and maxillofacial surgery |
| | 28 Kennedy's & Curzon | | • | Pediatric operative dentistry |
| | | 29 | Koch,Goran | Pediatric dentistry : A clinical approach |
| | | 30 | Walker,W.allan | Nutrition in pediatrics |
| | | 31 | Casamassimo,Pau 1 S | Pediatric dentistry infancy through adolescence |
| | | 32 | Sanger,Roger G | Clinical management of child abuse and neglect |
| | | 33 | Wright,Gerald Z | Behaviour management in dentistry for children |
| | | 34 | Finn | Clinical pedodontics |
| | | 35 | Muthu,MS | Pediatric dentistry : Principles and practices |
| | | 36 | Cameron,Angus C | Hand book of pediatric dentistry |
| | | 37 | Dean.Jeffery A | Mc Donald and Avery's dentistry for the child |
| | | | | and adolescent |
| | | 38 | Joseph Sim | Minor tooth movement in children |
| | | | | |
| 3 | Other Referenc es | TED learning EBSCOHOST Various scientific articles from various sources | | |