

SRI SIDDHARTHA DENTAL COLLEGE AND HOSPITAL

AGALAKOTE, B.H.ROAD, TUMKUR-572107, KARNATAKA.

Recognized by Dental Council of India, NEW DELHI

A Constituent College of Sri Siddhartha Academy of Higher Education (Deemed-to-be-university) Accredited 'A' Grade by NAAC

Phone No: / Fax No: 0816-2275536

Web: www.ssdetumkur.org

Email: ssdetumkur@gmail.com

BDS - Program Outcome

At the end of BDS program dental graduates should acquire adequate knowledge, necessary skills and reasonable attitudes which are required for carrying out all activities appropriate to general dental practice involving prevention, diagnosis and treatment of anomalies and diseases of the teeth, mouth, jaws and associated tissues. The graduate also should understand the concept of community oral health education and be able to participate in rural health care delivery programmes existing in the country.

At the end of the program, graduates will be able to

- PO1:** Describe and identify normal and abnormal oral and paraoral structures, their development, function etc. which are relevant to the practice of Dentistry.
 - PO2:** Record detailed history, perform oral and general physical examination, apply relevant diagnostic tests and interpret available clinical and laboratory data in order to generate differential diagnoses and to manage oral health disorders, as well as provide preventive dental care
 - PO3:** Competent in taking intraoral radiographs and interpret oral radiological findings
 - PO4:** Plan and perform appropriate treatments, including surgical procedures, for common oral disorders in adults as well as children.
 - PO5:** Demonstrate laboratory skills required for performing dental procedures, fabrication of various appliances, prosthesis and use of dental materials
 - PO6:** Identify and manage common medical emergencies encountered in general dental practice; refer patients who may require specialist care
 - PO7:** demonstrate communication, interpersonal and managerial skills
 - PO8:** Demonstrate the ability to continue learning to acquire knowledge about recent advances in dentistry
 - PO9:** Understand global and national oral health needs, policies and regulatory frameworks relevant to oral health and function effectively as an oral health care team member
 - PO10:** Demonstrate high standard of professional ethics and conduct and apply these in all aspects of professional life, and able to recognize and manage medico-legal, ethical and professional issues in dental practice
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BDS - Course Outcome

Dental Anatomy & Oral Histology

At the end of the course students will be able to...

CO-1: understand and describe embryological aspects and physiology of oral and paraoral structures

CO-2: understand and describe histological aspects, functions, clinical considerations of oral and paraoral structures

CO-3: identify microscopic structures of normal oral and paraoral structures in histological slides

CO-4: understand , identify the morphology of all teeth and their eruption pattern, differentiate deciduous and permanent teeth and carve permanent teeth in wax

Dental Materials (Prosthodontics)

Course outcome (UG) The dental graduates during training in the institution should acquire knowledge, necessary skills & reasonable attitudes which are required for carrying out all activities appropriate to general dental practice involving prevention, diagnosis & treatment of anomalies & diseases of the teeth, mouth, jaws & associated tissues.

CO-01: Understands the uses, physical, mechanical, chemical composition, and biological properties of the materials.

CO-02: Understands the advantage and disadvantage of individual dental material and their right applications.

CO-03: Acquire the knowledge of significance of Trituration, Steps in casting procedure, Hygroscopic expansion, Properties of alginate material after impression making.

CO- 04: Graduate student is able to manipulate the material in the appropriate way thus enhancing the properties of the material.

CO-05: Graduate student is able to perform the manipulation of dental plaster, dental stone, impression compound. Mixing of zinc oxide eugenol cement, Zinc phosphate cement, Poly-carboxylate cement. Adaptation of shellac base plate(1ST BDS)

CO- 06: Graduate student is able to perform the Manipulation of zinc oxide eugenol impression paste, irreversible hydrocolloid impression material, modeling wax, heat cure and auto polymerizing acrylic denture base resins (2nd BDS).

CO- 08: Graduate is willing to apply the current knowledge of dentistry in the best interest of the patients and the community.

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Dental Materials (Conservative Dentistry)

CO1: Understand the uses, physical, mechanical, chemical composition and biological properties of materials.

CO2 : Be able to manipulate the material appropriately, thus enhancing the materials' properties.

CO3: Understanding the advantage and disadvantage of individual dental material and their right application.

Preclinical Prosthodontics

CO-01: The graduate students know the anatomical variations and alterations for arrangement of teeth in various ridge relations

CO- 02: The graduate students know the basic steps in preparation of tooth to receive various restorations on plaster models.

CO- 03: know the parts of cast partial denture, Understand the basic steps in fabricating a removable of Prosthodontics.

CO- 04: Understands the importance of various prosthesis, Basic parts of dental chair, Basic positions of Dental chair, Position of the operator and patient.

CO- 05: The graduate student is able of Pouring of impression, brief description of beading & boxing, Making of special trays with various materials with various spacer design, Preparation of master models.

CO- 06: Preparation of temporary & permanent denture bases, Preparation of occlusal rims, Orientation of occlusion rims on articulator, Arrangement of teeth, Processing of complete dentures.

CO- 07: Graduate student knows Arrangement of artificial teeth on mounted Articulator. Arrangement of teeth in different relations.

CO- 08: Basic steps in fabrication of removable partial denture, Modification of teeth, Repair of removable partial denture.

CO- 09: Graduate student knows to Repair and relining of complete denture.

CO- 10: Graduate is able to apply the current knowledge of dentistry in the best interest of the patients and the community.

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Pre-Clinical Conservative Dentistry

At the end of second year the student should,

CO1: Develop the skills to manipulate the dental restorative materials, understanding their clinical significance and applications.

CO2: Understand the principles in cavity designs for various restorative materials.

CO3 : Develop the skills to prepare the cavities and restorative techniques on the plaster models, typhodont teeth and natural teeth mounted in a phantom head simulative of patient.

CO4: Acquire thorough knowledge of the hand and rotary cutting instrumentation used for restorative and endodontic procedure.

Oral Pathology & Microbiology

At the end of the course students will be able to...

CO-1: describe the pathological processes and manifestations of common diseases affecting oral and paraoral structures, developmental disturbances, lesions their diagnosis and correlation with other clinical pathological processes

CO-2: describe the basic aspect of Forensic Odontology

CO-3: identify microscopic slides & projection slides and study of disease processes with the help of surgical specimens

Oral Medicine & Radiology

Course outcome 1: (OMRCO1)

Should have the knowledge about differentiating normal oral structures with diseased structures in oral and maxillofacial region and refer to the concerned specialty for their management

Course outcome 2: (OMRCO2)

Should have an adequate knowledge about common laboratory investigations, advice and interpret their results.

Course outcome 3: (OMRCO3)

Should have adequate knowledge about medical complications that can arise while treating systemically compromised patients and take prior precautions / consent from the concerned medical specialist.

Course outcome 4: (OMRCO4)

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Should be able to record a detailed case history and perform clinical examination of patients to arrive at a provisional diagnosis.

Course outcome 5: (OMRCO5)

Have adequate knowledge about radiation health hazards, radiations safety and protection.

Course outcome 6: (OMRCO6)

Competent to take intra-oral radiographs and interpret their radiographic findings.

Course outcome 7: (OMRCO7)

Gain adequate knowledge of various extra-oral radiographic procedures.

Course outcome 8: (OMRCO8)

Be aware of the importance of intra- and extra-oral radiographs in forensic identification and age estimation.

Pedodontics

CO1- Should attain knowledge in Basics of Child Psychology and behavior of child.

CO2 - Should acquire theoretical knowledge on various behavior management techniques like non-pharmacological and pharmacological methods including sedation and general anesthesia

CO3 - Should obtain theoretical knowledge on managing pediatric patients who require special health care needs

CO4 - Should attain knowledge in diagnosis of dental caries in children and management of the same special emphasis on Early childhood caries and rampant caries.

CO- 5 - Should acquire clinical skills in performing efficient restorative treatments with essential cements and adhesives in typodont models

CO6 - Should acquire theoretical knowledge in growth and development of human jaws special emphasis on growth spurts and growth prediction.

CO7 - Gain knowledge in preventive management with special emphasis on physical and chemical plaque control methods including flourides.

CO8 - Gain knowledge about traumatic injuries with special emphasis on management of avulsion.

CO9 - Attain knowledge about local anesthesia and skill in mastering giving different local anesthetic techniques, with management of its subsequent side effects and management. With mastering techniques in extraction of primary and permanent teeth

CO10 - Should gain knowledge of taking radiographs in children and interpret radiological findings.

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Orthodontics

Course outcome (UG) The dental graduates during training in the institution should acquire knowledge, necessary skills & reasonable attitudes which are required for carrying out all activities appropriate to general dental practice involving prevention, diagnosis & treatment of anomalies & diseases of the teeth, mouth, jaws & associated tissues.

Course outcome 1: (ORTCO1)

Should have adequate knowledge about general principles and concepts of growth and development.

Course outcome 2: (ORTCO2)

Should have an adequate knowledge about development of dentition and occlusion.

Course outcome 3: (ORTCO3)

Should have adequate knowledge about differentiating basic concepts of normal occlusion and malocclusion

Course outcome 4: (ORTCO4)

Should have adequate knowledge about normal and abnormal habits influencing the occlusion and malocclusion.

Course outcome 5: (ORTCO5)

Should have adequate knowledge about differentiating skeletal and dental malocclusions

Course outcome 6: (ORTCO6)

Should be able to record a detailed case history and perform clinical examination of patients to arrive at a provisional diagnosis.

Course outcome 7: (ORTCO7)

Should have the knowledge about cephalometrics and model analysis.

Course outcome 8: (ORTCO8)

Should have the knowledge about status of growth with skeletal and dental maturity indicators and age factor influencing the treatment in orthodontics.

Course outcome 9: (ORTCO9)

Should have adequate knowledge about preventive, interceptive, corrective and surgical orthodontics.

Course outcome 10: (ORTCO10)

Should have the knowledge about methods of gaining space including arch expansion, extraction, Distalization etc...

Course outcome 11: (ORTCO11)

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Should have adequate knowledge about orthopedic and orthodontic appliances (removable and fixed mechanotherapy)

Course outcome 12: (ORTCO12)

Should have adequate knowledge about management of growing and non-growing skeletal malocclusions.

Course outcome 13: (ORTCO13)

Should have the knowledge about management of some of the common malocclusion like skeletal and dental class 1, class 2 and class 3 malocclusions.

Course outcome 14: (ORTCO14)

Should have adequate knowledge about management of different types of skeletal and dental malocclusions like open bite, deep bite, cross bite etc..

Course outcome 15: (ORTCO15)

Should have complete knowledge about comprehensive retention protocols and followup plan.

Periodontology

CO1 - The student now knows the normal anatomy of Oral mucosa, Gingiva and supporting structures of the teeth & differentiation between the normal and diseased structures of periodontium

CO2 - The student knows the periodontal conditions that could be manifestations of systemic conditions in the body and knowledge to refer patients to Specialists and Physicians whenever needed

CO3 - The student can now formulate statistical analysis of the common and rare conditions occurring in the given populations.

CO4 - The student now diagnoses periodontal conditions based on risk factors and formulate treatment plan to eliminate those risk factors.

CO5 - The student can identify social, economic, environmental and emotional determinants in periodontal health and disease conditions and take them into account for planned treatment. The student can now undertake preventive programs in the community

Prosthodontics

CO-01: The graduate students know the anatomical variations and alterations for arrangement of teeth in various ridge relations

CO- 02: The graduate students know the basic steps in preparation of tooth to receive various restorations on plaster models.

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CO- 03: Able elicit an elaborate case history and examine extra and intra oral examination of edentulous patients.

CO- 04: Able to build rapport and assess the psychological nature of the patient

CO- 05: know the parts of cast partial denture, Understand the basic steps in fabricating a removable of Prosthodontics.

CO- 06: Understands the importance of various prosthesis, Basic parts of dental chair, Basic positions of Dental chair, Position of the operator and patient.

CO- 07: The graduate student is able of Pouring of impression, brief description of beading & boxing, Making of special trays with various materials with various spacer design, Preparation of master models.

CO- 08: Preparation of temporary & permanent denture bases, Preparation of occlusal rims, Orientation of occlusion rims on articulator, Arrangement of teeth, Processing of complete dentures.

CO- 09: Graduate student knows Arrangement of artificial teeth on mounted Articulator. Arrangement of teeth in different relations.

CO- 10: Basic steps in fabrication of removable partial denture, Modification of teeth, Repair of removable partial denture.

CO-11: Understand the basic steps in teeth preparation to receive a fixed partial denture.

CO- 12: Graduate student knows to Repair and relining of complete denture.

CO- 13: Able to apply the current knowledge of dentistry in the best interest of the patients and the community.

Conservative Dentistry and Endodontics

CO1 : Diagnose the common dental problems encountered in general dental practice including diagnosis of all carious lesions.

CO2 :Understand the uses, physical, mechanical and chemical composition and biological properties of restorative materials.

CO3 : Acquire thorough knowledge of the hand and rotary cutting instrumentation used for restorative and endodontic procedures.

CO4 : Develop the skills to manipulate dental restorative materials understanding their clinical significance and applications.

CO5 : To maintain the appropriate posture and position during interaction with the patient and performing procedures.

CO6 : Should be able to demonstrate recommended hand washing techniques and placement of personal protective barriers.

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CO7 : Should be competent to perform restorative management for all types of carious lesion in phantom head models.

CO8 : Provide the restorative management for all the types of carious lesions with restorative materials such as silver amalgam, glass ionomer cement and resin composites.

CO9 : Perform clinical evaluation for deep carious lesion by adapting direct and indirect pulp capping procedures.

CO10 : Understand the principles of aesthetic procedures.

CO11 : To take a proper clinical history, examination of the patient, perform essential diagnostic procedures and other relevant tests and interpret them to come to a reasonable diagnosis in Endodontics.

CO12 : Describe the etiology, pathophysiology of pulpal and periapical diagnosis and management of common Endodontic situations that will include management of trauma, pulpal pathosis and periapical diseases.

CO13 : Acquire the knowledge, adequate skills and competence in performing various procedures required in the specialty of Endodontics.

CO14 : Perform infection control measures in the dental clinical environment and laboratories.

CO15 : To attain the knowledge of esthetic restorations and cavity designs and techniques of esthetic restorations.

CO16 : Apply ethical and moral standards, demonstrate communication skills and to obtain true informed consent from the patient.

Oral & Maxillofacial Surgery

CO1: Student should be able to identify the tooth indicated for extraction

CO2: Student should be able to differentiate the primary and permanent teeth

CO3: Student should be able to interpret the IOPA and OPG radiograph to facilitate diagnosis and treatment planning

CO4: Student should be able to identify various dental extraction forceps and elevators used for extractions, minor oral surgical procedures

CO5: Student should be able to select the appropriate quantity of local anaesthetic agents and perform the appropriate technique of administration of LA and also able to prescribe post op medications, should be able to perform various types of suturing techniques and dental wiring on models

CO6: Student should be able to perform total extraction procedures and manage complications

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CO7: Student will be able to perform extraction for special children and medically compromised patients

CO8: Student will be able to discuss about the various advanced oral surgical procedures

CO9: Student should be able to display effective interpersonal communication and managerial skills on patient care

Public Health Dentistry


CO 1 - To understand health & concept of disease in general & to educate patients/ community about epidemiology of oral diseases.

CO 2 - To have basic knowledge about environment & behavioural science

CO 3 - To have knowledge of Individual/Community based preventive measures & to be able to apply the skills needed for the same.

CO 4 - Have knowledge of biostatistics & research methodology.

CO 5 - To understand and incorporate Principles of Ethics in professional life & understand National Health Policy with emphasis on Oral Health Policy & to organize and conduct oral health programs.


Principal
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