

**SRI SIDDHARTHA ACADEMY OF HIGHER EDUCATION  
(DEEMED TO BE UNIVERSITY)  
Accredited 'A' Grade by NAAC**

**SRI SIDDHARTHA DENTAL COLLEGE AND HOSPITAL TUMKUR  
DEPARTMENT OF CONSERVATIVE DENTISTRY AND ENDODONTICS**

List of Training Programs conducted in Clinical Skill Labs for Undergraduate Students

Students are allowed to get practice and inculcate the clinical skills of treatment procedures on simulated jaw models/phantom heads which is executed by the subject experts before venturing on the patients/ clinicals.

Training programs:

1. Training regarding the chairside positions, instrument grasps and rests
2. Exercises on phantom head models which includes cavity preparation, base, matrix application, wedge placement and amalgam restoration.
  - a. Class I cavity preparation and restoration- 05
  - b. Class I cavity preparation with buccal and lingual extension followed by restoration- 02
  - c. Class II cavity preparation and restoration- 10
  - d. Class II MOD cavity preparation and restoration-02
  - e. Class V and class III cavity preparation and restoration with GIC- 04
  - f. Class V cavity preparation and restoration with amalgam-02

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List of Training Programs conducted in Clinical Skill Labs for Post graduate Students

Students are allowed to get practice and inculcate the clinical skills of treatment procedures on simulated jaw models/phantom heads which is executed by the subject experts before venturing on the patients/ clinicals.

Training programs:

Preclinical work on typhodont teeth

1. Class II amalgam cavities
  - a. Conservative preparation- 04
  - b. Conventional preparation- 02
2. Inlay cavity preparation on premolars and molars- MO, DO, MOD- 13
  - a. Wax pattern- 04
  - b. Casting- 04
3. Onlay preparation on molars casting- 02
4. Full crown
  - a. Anterior- 05
  - b. Posterior- 05  
(2 each to be processed)
5. 7/8<sup>th</sup> crown (1 to be processed)- 02
6. 3/4<sup>th</sup> crown premolars (1 to be processed)- 02

Preclinical work on natural teeth

1. Inlay on molars and premolars MO, DO, MOD- 08
  - a. Casting- 02
  - b. Wax pattern- 02
2. Amalgam cavity preparation
  - a. Conventional- 02
  - b. Conservative- 02

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3. Pin retained amalgam on molar teeth- 02
4. Post and core build up
  - a. Anterior teeth- 10
  - b. Posterior teeth- 05
5. Casting
  - a. Anterior- 04
  - b. Posterior- 02
6. Onlay on molars- 03  
(1 to be processed)
7. Full crown premolars and molars- 04
8. Full crown anterior- 06  
(2 and 3 to be processed)
9. Veneers anterior teeth (indirect method)- 02
10. Composite inlay (class 2)- 03  
(1 to be processed)
11. Full tooth wax carving- all permanent teeth

Endodontics

1. Sectioning of all maxillary and mandibular teeth
2. Sectioning of teeth- in relation to deciduous molar, 2<sup>nd</sup> primary upper and lower molar each
3. Access cavity opening and root canal therapy in relation to maxillary and mandibular permanent teeth
4. Access cavity preparation and BMP  
Anterior
  - a. Conventional preparation
  - b. Step back
  - c. Crown downObturation- 03
5. BMP premolar- 04 (2 upper and 2 lower) obturation 1 each

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6. BMP molar- 06 (3 upper and 3 lower) obturation 1 each
7. Post and core preparation and fabrication in relation to anterior and posterior teeth
  - a. Anterior- 10 (casting 4)
  - b. Posterior- 05 (casting 2)
8. Removable dies- 04

**LIST OF TRAINING PROGRAMMES CONDCUTED IN THE CLINICAL SKILL  
LAB**

**DEPARTMENT OF PROSTHODONTICS**

**FOR I BDS**

- Knowing the anatomical landmarks, marking on the models
- Making of the impression with impression compound using metallic models
- Pouring of impression, brief description of beading & boxing
- Making of special trays with various materials with various spacer design
- Preparation of master models
- Preparation of temporary & permanent denture bases
- Preparation of occlusal rims
- Orientation of occlusion rims on articulator
- Arrangement of teeth
- Processing of complete dentures

**Note :**

- Time allotted – 100 hours
- Weekly 2 hours, 1 class of 2 hours

**FOR II BDS**

Arrangement of artificial teeth on mounted

Articulator --- Minimum of 15 arrangements.

- Arrangement of teeth in different relations
- Identifying the spotters explaining the entities
- Basic steps in fabrication of removable partial denture
- Modification of teeth
- Repair of removable partial denture
- Repair of complete denture
- Relining of complete denture

**Note :**

- Time allotted – 300 hours
- Weekly 6 hours, 3 classes of 2 hours each

**FOR 4<sup>th</sup> BDS**

- Preparations of plaster models of various preparation of teeth to receive retainers for FPD
- Each student will be trained in various tooth preparation on teeth models to receive restorations.

Note: Preclinical Prosthodontics:

- Practical exercise – tooth preparation = 60 hours
- Weekly 2 hour

**LIST OF TRAINING PROGRAMMES CONDUCTED IN THE DEPARTMENT FOR  
POST GRADUATES**

**TRAINING PROGRAMME IN CLINICAL WORK**

- 1. COMPLETE DENTURES :**
  - a. Conventional
  - b. Balanced
  - c. Immediate Dentures
  - d. Over Dentures
  - e. Single Dentures
  
- 2. REMOVABLE DENTURES:**
  - a. cast partial dentures
  - b. treatment partial dentures
  
- 3. FIXED PARTIAL DENTURE:**
  - a. Anterior bridges
  - b. Posterior bridges
  - c. Resin bonded retainers
  - d. Complete veneer crown
  - e. Partial veneer crowns
  - f. Full mouth rehabilitation
  
- 4. MAXILLOFACIAL PROSTHESIS:**
  - Obturators
  - Facial impressions
  - Ocular impressions
  - Nose impressions
  - Ear impression
  - Splints
  - Templates
  
- 5. IMPLANTOLOGY:**
  - a. Assist implant cases

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**DEPARTMENT OF PEDODONTICS AND PREVENTIVE DENTISTRY**

**LIST OF TRAINING PROGRAMMES CONDUCTED IN CLINICAL SKILL LAB  
FOR UNDER GRADUATE STUDENTS**

Students are encouraged to develop their practical skills and improve their dexterity which is an essential part of clinical treatment procedures, on replicated Jaw models/phantom heads, students are intend to complete the under listed exercises every academic year

1. Wax carving of primary dentition
2. Cavity preparation on primary teeth CLASS 1, CLASS 2,CLASS 5
3. Fabrication of Functional Space Maintainers
4. Fabrication of Non Functional Space Maintainers
5. Basic suturing exercises

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**DEPARTMENT OF PEDODONTICS AND PREVENTIVE DENTISTRY**

**LIST OF TRAINING PROGRAMMES CONDUCTED IN CLINICAL SKILL LAB  
FOR POST GRADUATE STUDENTS**

Students are encouraged to develop their practical skills and improve their dexterity which is an essential part of clinical treatment procedures, on replicated Jaw models/phantom heads, students are intend to complete the under listed exercises every academic year

1. Carving of all deciduous teeth
2. Basic wire bending exercises (Clasps, Bows, Retractors and Springs, etc., on patient models)
3. Basics for Spot welding exercises
4. Fabrication of
  - a. Maxillary bite plate / Hawley's'
  - b. Maxillary expansion screw appliance
  - c. Canine retractor appliance
  - d. All habit breaking appliances
5. Basic soldering exercises – making of a lamppost of stainless steel wire pieces of different gauges soldered on either side of heavy gauge main post.
6. Fabrication of space maintainers
7. Basics for spot welding exercise
8. Collection of extracted deciduous and permanent teeth to perform
  - a. Sectioning of the teeth at various levels and planes
  - b. Drawing of section and shapes of pulp
  - c. Phantom Head Exercises : Performing ideal cavity preparation for various restorative

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materials for both Deciduous and permanent teeth

d. Performing pulpotomy, root canal treatment and Apexification procedure

9. Performing of behavioral rating and IQ tests for children.

10. Computation of: -

a. Caries index and performing various caries activity tests.

b. Oral Hygiene Index

c. Fluorosis Index

11. Surgical Exercises :

a. Suturing

12. Radiography

a. Taking of periapical, occlusal, bitewing radiographs of children

b. Developing and processing of films, thus obtained

c. Tracing of soft tissue dental and skeletal landmarks as observed on Cephalometric radiographs and drawing of various planes and angles, further interpretation of Cephalometric radiographs.

d. Mixed dentition cast analysis

DEPARTMENT OF ORAL PATHOLOGY

**List of training programs conducted in the facilities during the last 5 years**

**Undergraduate program**

1. Carving of permanent teeth on carving wax
2. Observation of Histology slides
3. Identification of cast and tooth specimen
4. Posting in hematology and histopathology lab
5. Observation of oral pathology slides and specimens

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**LIST OF TRAINING PROGRAMMES CONDUCTED IN THE DEPARTMENT**

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**Note :**

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- Relining of complete denture

**Note :**

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**FOR 4<sup>th</sup> BDS**

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- Practical exercise – tooth preparation = 60 hours
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- Workshop on advanced cardiac life supports for interns Conducted by Apollo hospitals, Bangalore

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**Simulation Based Learning**

Simulation modelling in Engineering plays a vital role in solving real – life problems safely and efficiently. Many complex engineering problems are implemented, analysed and visualized easily using the simulators. It gives an insight into complex system and widely used in academia.

1. NETSIM - Network Simulator package is used understand and analyse data packet transmission through different types of network . Protocol modelling and its performance analysis is done using this software.
  2. XILINX – simulation software is used to simulate digital circuits and its behaviour for different types of input.
  3. PSPICE – software is used to simulate analog and digital circuits
  4. MYPOWER,POWER WORD - is used to for power system simulation
  5. MATLAB - Power electronics tool package is used simulate and analyse the performance of power electronic circuits.
- Image processing tool are used for image processing and its analysis, Bio-medical signal processing
- Control system tools are used to simulate control system related problems
6. MULTISIM – software is used for visualization of FM and AM modulation along with simulation of Analog and Digital circuits
  7. ALGOR, NASTRAN – a Finite Element Analysis package is used for simulation of stresses, deflection under external loading on mechanical components
  8. EDGE CAM – is used for simulation of tool path during machining operation
  9. FLSTEP – software used for tool path simulation of path programming
  10. SOLID EDGE – A 2D drafting package used for first year drawing and visualization
  11. CADANCE, MICROWIND – used in Very Large Scale Integration Lab for digital circuit simulation and analysis.

  
**COORDINATOR**  
**Internal Quality Assurance Cell (IQAC)**  
**Sri Siddhartha Academy of Higher Education**  
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