

Surendera Dental College and Research Institute

H.H Gardens, Power House Road, Sri Ganganagar, Rajasthan

**List of laboratories and details of activities of BDS Curriculum**

1) Department of Anatomy

LAB1-Dissection hall

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|---------------------------------|
| ➤ Dissection of cadavers        |
| ➤ Study of Prosected specimens  |
| ➤ Osteology Demonstration       |
| ➤ Study of Embryology models    |
| ➤ Study of Gross Anatomy Models |

LAB 2 Histology Lab

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|---|
| ➤ Study of Histology slides of specimen |
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2) Department of Physiology

LAB 1-Hematology Lab

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| ➤ Study of Compound Microscope (common objects) |
| ➤ Introduction to Hematology                    |
| ➤ Estimation of Hemoglobin                      |
| ➤ Determination of total RBC count              |
| ➤ Blood Indices                                 |
| ➤ Determination of total WBC count              |
| ➤ Differential Leukocyte Count                  |
| ➤ Blood Group                                   |
| ➤ Bleeding Time and Clotting Time               |

LAB 2-Human Physiology Lab

- |  |
|--|
| ➤ Introduction to Nerve muscle physiology                                    |
| ➤ Study of Simple muscle twitch (SMT)  |
| ➤ Effect of temperature on SMT   |
| ➤ Effect of increase in strength on skeletal muscle contraction              |
| ➤ Effect of increase in frequency of strength on skeletal muscle contraction |
| ➤ Phenomenon of Fatigue  |
| ➤ Stethography   |
| ➤ Vitalography and effect of posture on vital capacity                       |

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- Recording of normal cardiogram and effect of temperature on heart beat
- Electrocardiograph (ECG)
- Effect of vagal stimulation drugs on heart
- Determination of Blood Pressure
- Effect of Posture on blood pressure
- Effect of moderate exercise on blood pressure
- General Physical Examination
- Clinical examination of Respiratory system
- Clinical examination of Cardiovascular system
- Clinical examination of Sensory system
- Clinical examination of motor system
- Clinical examination of Cranial nerves

### 3) Department of Biochemistry

#### LAB 1-Qualitative Analysis

- Colour reactions of carbohydrates
- Colour reactions of amino acids
- Precipitation reactions of proteins
- Normal urine analysis
- Abnormal urine analysis
- NPN Substances

#### LAB 2-Quantitative Analysis

- Estimation of Blood Sugar
- Estimation of Serum Total Protein

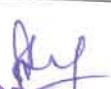
### 4) Department of Dental Anatomy and Histology

#### LAB-1

- Carving of tooth on wax blocks

#### LAB-2-Histology

- Learning normal oral histology/anatomy using educational slides under the microscope
- Making histological diagram in the note books

  
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5) Department of General Pathology

LAB-1-Pathology Laboratory

- Haematology experiments – Hb estimation, TLC, DLC, RBC count, BT, CT, ESR, PBS examination
- Demonstration of histopathology techniques
- Study of histopathology slides
- Urine examination
- Study of instruments used in pathology laboratory

LAB-2-Pathology Museum

- Study of gross specimens

6) Department of microbiology

LAB-1-Microbiology lab

- Staining methods (Gram's Stain, Albert's Stain and AFB Staining).
- Culture Methods (Anaerobic, Aerobic and Fungal Cultures).
- Biochemical Tests (for the identification of various microorganism).
- Instruments description and their working principles.

LAB-2-Microbiology Museum

- Museum to show different microbiological specimen.

7) Department of Pharmacology

LAB-1-Pharmacology Lab

- Various pharmacy practical's as per the DCI syllabus 2<sup>nd</sup> year BDS students are performed in the laboratory. Eg. Preparation of toothpaste, tooth powder, gum paint, ORS, prescription writing etc.

8) Department of Conservative and Endodontics (Pre-clinical)

- Structured program for training and assessment of students in clinical skills lab/simulation-based learning.
- Phantom Heads
- Preclinical exercises
- Video demonstrations

  
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9) Department of Prosthodontics (Preclinical)

- Pouring of maxillary and mandibular casts
- Fabrication of Temporary Record Bases using Auto-Polymerizing Resin
- Fabrication of Occlusal Rims
- Articulation
- Teeth Arrangement-1 (Class1)
- Denture Fabrication (Class1)
- Introduction of FPD+Demo on tooth preparation for porcelain fused to metal crown on mandibular molar
- Tooth preparation for porcelain fused to metal crown: Posterior
- Tooth preparation for porcelain fused to metal crown: Anterior
- Tooth preparation for all ceramic crown on anterior

10) Department of Oral Pathology

- Learning pathological oral histology using educational slides under the microscope
- Making Histopathological diagram in the note books
- Conducting/Learning of cytosmear

11) Department of Orthodontics

- Wire bending
- Fabrication of appliances
- Cephalometric Analysis
- Model analysis

  
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**DEPARTMENT OF CONSERVATIVE DENTISTRY & ENDODONTICS**

**Time Table for 1st year M.D.S w.e.f 1st June, 2018**

Days	08:30 - 10:00 AM	10:00 AM - 1:00 PM	01:00 - 2:30 PM	02:30 - 03:30 PM
Monday	Seminar	Pre - clinical Month 1-6 PG Clinics Month 7-12	Basic Sciences & Biostats Lectures Pre - clinical PG Clinics	Month 1-4 Month 5-6 Month 7-12
	Journal Club		Pre - clinical: Month 1-6	PG Clinics
Wednesday	Clinical Case Presentation/ Table Clinic	Pre - clinical Month 1-6 PG Clinics Month 7-12	Basic Sciences & Biostats Lectures Pre - clinical PG Clinics	Month 1-4 Month 5-6 Month 7-12
	Seminar (Odd weeks) / Journal club (Even weeks)		Pre - clinical: Month 1-6	PG Clinics: Month 7-12
Thursday		Pre - clinical Month 1-6 Text Review	Basic Sciences & Biostats Lectures Pre - clinical PG Clinics	Month 1-4 Month 5-6 Month 7-12
			Pre - clinical: Month 1-6	PG Clinics: Month 7-12
Friday		Pre - clinical Month 1-6 Basic Sciences & Biostats Lectures	Basic Sciences & Biostats Lectures Pre - clinical PG Clinics	Month 1-4 Month 5-6 Month 7-12
			Pre - clinical:	Month 1-6
Saturday	Pre - clinical: PG Clinics :	Month 5-6 Month 7-12	PG Clinics :	Month 7-12


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