BACHELOR OF DENTAL SURGERY
PRE - CLINICAL SUBJECTS

CALENDAR OF EVENTS
2014 - 2015
1. Hippocratic Oath - 1
2. The Emblem - 2
3. Vision and Mission - 3
4. Regulations - 4
5. Anti Ragging - 5
6. Anti Ragging Squads - 6
7. Committees - 8
8. Mobile Phone Banned - 9
9. Event Calendar - First Year - 10
10. Internal Examinations Time Table - 10
11. List of Holidays - 11
12. BDS Curriculum - 12
13. General Anatomy - 15
14. General Physiology - 19
15. Biochemistry - 24
16. Dental Anatomy - 29
17. Event Calendar - Second Year - 37
18. Internal Examination Time Table - 37
19. General Pathology - 38
20. General Microbiology - 42
21. Dental Pharmacology - 44
22. List of Instruments
   A. Conservative Dentistry - 46
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23. Time Table - First Year - 50
24. Time Table - Second Year - 52
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27. Leave Record - 55
Hippocratic Oath

I do so solemnly vow, to that which I value and hold most dear:
That I will honor the Profession of Medicine, be just and generous to
its members and help sustain them in their service to humanity;

That just as I have learned from those who preceded me, so will I
instruct those who follow me in the science and the art of medicine;

That I will recognize the limits of my knowledge and pursue lifelong
learning to better care for the sick and to prevent illness;

That I will seek the counsel of others when they are more expert so
as to fulfill my obligation to those who are entrusted to my care;

That I will not withdraw from my patients in their time of need;

That I will lead my life and practice my art with integrity and honor,
using my power wisely;

That whatsoever I shall see or hear of the lives of my patients that is
not fitting to be spoken, I will keep in confidence;

That into whatever house I shall enter, it shall be for the good of the sick;

That I will maintain this sacred trust, holding myself far aloof from
wrong, from corrupting, from the tempting of others to vice;

That above all else I will serve the highest interests of my patients
through the practice of my science and my art;

That I will be an advocate for patients in need and strive for justice in the
care of the sick.

I now turn to my calling, promising to preserve its finest traditions, with
reward of a long experience in the joy of healing.

I make this vow freely and upon my honor.
VINAYAKA MISSION’S  
SANKARACHARIYAR  
DENTAL COLLEGE  

VISION & MISSION

OUR MOTTO
SERVICE TO HUMANITY IS SERVICE TO GOD.

VISION
TO MAKE DENTAL EDUCATION AND DENTAL HEALTH AVAILABLE TO THE POOR AND NEEDY IN THE RURAL SECTOR.

MISSION
TO SPREAD KNOWLEDGE WITH RECENT ADVANCES AND TO PROMOTE RESEARCH IN THE FIELD OF DENTISTRY.

OBJECTIVES
TO PREPARE STUDENTS TO HAVE IN DEPTH KNOWLEDGE IN BOTH PRE-CLINICAL AND CLINICAL DENTISTRY AND UPDATE ADVANCES IN DIAGNOSIS AND THERAPEUTICS FOR THE PRESENT DENTAL DISEASE PATTERN IN THE SOCIETY.

1. DRESS CODE:
   All students should wear identification badges. Students should not enter the LAB without Apron. Foot wear must be clean and well polished. Open toe shoes are not allowed. Clothing must be neat & wrinkle free. Jeans & T-Shirts are not allowed. Finger nails must be clean & short to allow proper grasp of instruments. Gold ornaments, Bracelets & rings are not allowed.

2. SAFETY CODE:
   Long hair must be tied and put back for safety measures. Wear face mask. Always work with good ventilation. Do not keep inflammable materials (Spirit, monomer) near open flame. Students should take care of their own instruments and their costlier belongings. Borrowing instruments from others is not allowed. LPG tap should always be kept closed after working in the LAB.

3. CLEANLINESS CODE:
   LAB must be kept clean. This includes working tables, model trimmers, polishing & furnishing areas. Dental plaster, waxes & other working wastes must be properly discarded in the separate dustbin. They should not be discarded in the sink (Waxes should not be discarded on the floor / Veranda ). Before leaving the LAB make sure your working area is clean. Apron should be washed regularly & kept clean.

4. CELL PHONES & TWO / FOUR WHEELERS (BANNED):
   The use of cell phones is strictly forbidden in the college premises. Any student, not abiding by this protocol will face severe disciplinary action. In case of emergency, parents / guardians are requested to use college communications.

   Two / Four wheelers use forbidden  
   Tele : 0427-2477723  
   Principal : 9362128768

5. RAGGING (BANNED):
   Any student found indulging in ragging or submitting to it, is strictly forbidden inside or outside the college campus. Ragging in any form is a punishable offence and shall warrant severe disciplinary action, by the concerned committee. Any incidence of ragging, should be immediately brought to notice of the disciplinary panel.

6. ANY DAMAGE, MISUSE OF COLLEGE PROPERTY SHALL WARRANT DISCIPLINARY ACTION.

7. ATTENDANCE:
   A minimum of 80% attendance is mandatory in all subjects for appearing in the university examinations. A bi - annual feed back of each student will be noted, from the departments & parents / guardians, duly intimated. Any student abstaining for more than 07 days, as medical leave, will thereon be regarded as absent. Candidates who are found to be irregular & held for any misconduct shall not be permitted to appear for university examinations. Students are to mandatorily submit Leave letter (in case medical reasons, med. certificate from a genuine practitioner) at the time of entry to the respective theory / Practical classes.

8. INTERNAL MARKS:
   Students have to mandatorily appear for all class test & internal evaluations, failing which he/she will be asked to bring their parents. Students who fail to get a minimum of 12 / 30 in any concerned subject, in the internal aggregate, shall not be permitted to write that particular university exam subject.

9. PASS CRITERIA:
   Candidate has to refer the Vinayaka Missions University Rules and Regulations regarding details of minimum marks required for qualifying for pass and yearly promotion.
* Ragging in any form is banned inside and outside the college premises.

* The Govt. of Tamilnadu has promulgated an Act (No. 7 of 1997) to prohibit ragging in educational institutions. Any one, who directly or indirectly participates in ragging shall be punished with imprisonment extending to two years and fine. Any student convicted of an offence will be dismissed from the institution.

**ANTI RAGGING COMMITTEE**

<table>
<thead>
<tr>
<th>Name</th>
<th>Designation</th>
<th>Department</th>
<th>Mobile No.</th>
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<tbody>
<tr>
<td>Dr. R. Thiruneervanann</td>
<td>Principal</td>
<td>Oral Medicine &amp; Radiology</td>
<td>9362128768</td>
</tr>
<tr>
<td>Dr. Jayashree Mohan</td>
<td>Professor &amp; HOD</td>
<td>Prosthodontics and Crown &amp; Bridge</td>
<td>9443518231</td>
</tr>
<tr>
<td>Dr. R. Madhumala</td>
<td>Professor &amp; HOD</td>
<td>Periodontology</td>
<td>9944309070</td>
</tr>
<tr>
<td>Dr. K. Ramesh</td>
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<td>9443556180</td>
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<tr>
<td>Dr. D. Jayachandran</td>
<td>Reader</td>
<td>Periodontology</td>
<td>7708225522</td>
</tr>
<tr>
<td>Dr. J. Arunkumar</td>
<td>Reader</td>
<td>Oral &amp; Maxillofacial Surgery</td>
<td>9443273347</td>
</tr>
<tr>
<td>Dr. N. Saravanan</td>
<td>Reader</td>
<td>Public Health Dentistry</td>
<td>9442262950</td>
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**NOTICE**

RAGGING IS A LEGAL OFFENCE ATTRACTING imprisonment FOR 6 MONTHS.

STUDENTS INDULGING IN RAGGING WILL BE HANDED OVER TO POLICE & TERMINATED FROM THE INSTITUTION.

**ANTI RAGGING SQUADS**

<table>
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</tr>
<tr>
<td>Dr. E. Paul Simon</td>
<td>Professor</td>
<td>Prosthodontics and Crown &amp; Bridge</td>
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<td>Dr. D. Vinola</td>
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<td>Prosthodontics and Crown &amp; Bridge</td>
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<td>Dr. K. Maya Ramesh</td>
<td>Reader</td>
<td>Oral Pathology &amp; Microbiology</td>
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<tr>
<td>Dr. Shiji M Kunjappan</td>
<td>Sr. Lecturer</td>
<td>Orthodontics &amp; Dentofacial Orthopedics</td>
<td>9944772237</td>
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<tr>
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<tr>
<td>Dr. Sabitha Gokulraj</td>
<td>Sr. Lecturer</td>
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<td>9150299824</td>
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<tr>
<td>Dr. P. Narasimma Raju</td>
<td>Lecturer</td>
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<tr>
<td>Dr. S. Dhanakotti</td>
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<td>9345205512</td>
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<tr>
<td>Mr. R. Natarajan</td>
<td>A.O.(Admin)</td>
<td>Office</td>
<td>9843044140</td>
</tr>
<tr>
<td>Mr. E. Prabu</td>
<td>Asst. Librarian</td>
<td>Library</td>
<td>9677410412</td>
</tr>
<tr>
<td>Mr. T.M. Subramani</td>
<td>Supervisor</td>
<td>Office</td>
<td>9843346663</td>
</tr>
<tr>
<td>Mr. E. Senthil Kumar</td>
<td>Physical Director</td>
<td>Office</td>
<td>9994362421</td>
</tr>
<tr>
<td>Mr. R. Chandran</td>
<td>Electrician</td>
<td>Office</td>
<td>9360676466</td>
</tr>
</tbody>
</table>

- Students can contact any member of the squad in any case of emergency.
The Supreme Court of India in its order dated 16th May 2007 has declared the following to curb the menace of Ragging in all Educational Institutions in India.

1. Curbing of Ragging is the sole responsibility of the Educational Institution themselves.

2. It is a concerted action on the part of the school, higher educational institution, district administration, University, State and Central Governments.

3. An Anti-Ragging Committee shall be formed in all Educational Institutions to monitor Ragging on the campus.

4. If any incident of Ragging is reported, the authorities of the Educational Institution should file a First Information Report (FIR) immediately with the local Police officials.

5. If any one goes to the court of law regarding ragging, the court should take up the case in a priority basis and deal with case sternly.

6. The Supreme Court recommends NCERT and SCERT to introduce Ragging as a subject in the curriculum under “Human Rights”.

7. The Court reserves the right to the Educational authorities either “No Admission” or “Expulsion” of a student found guilty of Ragging.

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**KIND ATTENTION TO STUDENTS**

**BEWARE OF RAGGING**

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<td>Dr. P. Suriyaa</td>
<td>Lecturer</td>
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**WOMEN GRIEVANCE COMMITTEE**

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**DISCIPLINARY COMMITTEE**

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**STUDENT COUNSELLING COMMITTEE**

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</tr>
</tbody>
</table>
* Mobile phones are banned inside college premises.

- IF FOUND USING -

* Phone will be confiscated.

* Student will be suspended.

* Parents will be informed and will be called if necessary.

* Fine amount levied by the disciplinary Committee should be paid towards

"The Poor Patient Fund"

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**MOBILE PHONE BANNED**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>21.11.14 (Friday)</td>
<td>First Internal Exam (Theory)</td>
</tr>
<tr>
<td>24.12.14 (Wednesday)</td>
<td>Winter Holidays</td>
</tr>
<tr>
<td>02.03.15 (Monday)</td>
<td>IInd Internal Exam (Theory)</td>
</tr>
<tr>
<td>01.05.15 (Friday)</td>
<td>Summer Holidays</td>
</tr>
<tr>
<td>01.06.15 (Monday)</td>
<td>IIIrd Internal Exam (Theory)</td>
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<tr>
<td>01.07.15 (Wednesday)</td>
<td>Model Exam</td>
</tr>
<tr>
<td>15.07.15 (Wednesday)</td>
<td>Study Holidays</td>
</tr>
<tr>
<td>03.08.15 (Monday)</td>
<td>University Exam Commences (Tentative)</td>
</tr>
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</table>

**TENTATIVE EVENT CALENDAR (2014-15)**

**FIRST YEAR - BDS - AUG' 14-15 Batch**

<table>
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**NB**: Students who avail leave prior or after the allotted Holidays without permission shall warrant disciplinary action.

**TENTATIVE TIME TABLE FOR INTERNAL EXAMINATIONS FOR AUGUST 2014-15 BATCH**

<table>
<thead>
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<td>IIIrd Internal Exam (Theory)</td>
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<tr>
<td>28.11.14 (Friday)</td>
<td>University Exam Commences (Tentative)</td>
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**University examinations**: Tentatively starts on 1st working day of AUGUST 2015.

The college will be reopening for II - year session tentatively on 1st SEPTEMBER 2015.

Irrespective of declaration of university exam results of the Previous session.
LIST OF GOVERNMENT HOLIDAYS

August - 2014
  Independence Day
  Krishna Jayanthi
  Vinayaka Chathurthi

September - 2014
  Onam

October - 2014
  Gandhi Jayanthi
  Vijaya Dasami
  Ayudha Pooja
  Bakrid
  Deepavali

November - 2014
  Muharram

December - 2014
  Christmas

January - 2015
  New Year
  Meelad - un - Nabi
  Pongal
  Thiruvalluvar Day

April - 2015
  Mahaveer Jayanthi
  Good Friday
  Tamil New Year
  Dr.B.R. Ambedkar's Brthday
  Telugu New Year

May - 2015
  May Day

The First Saturday of every month will be a Holiday
Local Holidays will be Intimated one day Prior
Tentative Calender of Extra Curricular Events :

Sports Events : October '14
College Day culturals : October '14
NSS Programme : will be Intimated.

Hepatitis vaccination should be done within First
6 months of joining the BDS Course

BDS CURRICULUM

PRE - CLINICAL SUBJECTS
I YEAR

S.No.  SUBJECT
1  GENERAL ANATOMY INCLUDING EMBRYOLOGY
2  GENERAL HUMAN PHYSIOLOGY
3  BIO CHEMISTRY
4  DENTAL ANATOMY, ORAL EMBRYOLOGY AND ORAL HISTOLOGY
5  ENVIRONMENTAL STUDIES

II YEAR

S.No.  SUBJECT
6  GENERAL PATHOLOGY
7  GENERAL MICROBIOLOGY
8  GENERAL PHARMACOLOGY AND THERAPEUTICS
9  DENTAL MATERIALS
10  PRE-CLINICAL CONSERVATIVE DENTISTRY
11  PRE-CLINICAL PROSTHODONTICS

CLINICAL SUBJECTS
III YEAR

S.No.  SUBJECT
12  GENERAL MEDICINE
13  GENERAL SURGERY
14  ORAL PATHOLOGY AND MICROBIOLOGY

IV YEAR

S.No.  SUBJECT
15  ORAL MEDICINE & RADIOLOGY
16  ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS
17  PERIODONTOLOGY
18  PAEDODONTICS AND PREVENTIVE DENTISTRY
19  CONSERVATIVE DENTISTRY & ENDODONTICS
20  ORAL & MAXILLO FACIAL SURGERY
21  PROSTHODONTICS AND CROWN AND BRIDGE
22  PUBLIC HEALTH DENTISTRY
## SYLLABUS & CURRICULUM

### I YEAR SUBJECTS

<table>
<thead>
<tr>
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<td>ENVIRONMENTAL STUDIES</td>
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GENERAL ANATOMY INCLUDING EMBRYOLOGY AND HISTOLOGY

I B.D.S. (Paper - I)

INTRODUCTION TO ANATOMY:
Anatomical terms - Introduction to Osteology - Introduction to joints & Muscles - types - action - terms used - Nervous system - central and peripheral Nervous system - Typical spinal nerve - Autonomic nervous system.

EMBRYOLOGY:

GROSS ANATOMY

1. DISSECTION:
Regional dissection of head & neck
Cunningham's manual of practical anatomy - (vol:3 - latest edition)

2. LECTURES:
A. OSTEOLOGY:
(i) Vertebrae in general
(ii) Cervical vertebrae in detail
(iv) Foetal skull
(v) Individual skull bones - mandible, sphenoid, parietal, frontal, maxilla, ethamoid, vomer, nasal, zygomatic, temporal, lacrimal, occipital, inferior nasal concha etc.,

B. SOFT PARTS:
Scalp & temple - muscle, vessels & nerves - Face - muscles, vessels & nerves - (Including extra-cranial course of vii nerve) Posterior triangle - boundaries and contents - (Including brachial plexus and third part of subclavian artery) - Back - Suboccipital triangle boundaries and contents - Anterior triangle - subdivisions - boundaries &contents - (Carotid, digastric, submental and muscular triangles) - Median region of the front of the neck - Cervical fascia Anterior jugular vein - Platysma - Sternoceleidomastoid - Cranial cavity - duramater - layers - folds.


Mouth & Pharynx:
Roof & vestibule of the mouth Muscles of pharynx - Subdivisions of the cavity of pharynx - Tonsil, palate, pharyngo - tympanic tube-Adenoids, carotid canal

Tongue, Nose & nasal cavity:
Apertures, lateral wall, septum of-Nose, floor, roof, blood vessels, nerves

Paranasal air sinuses
Frontal sinus, Maxillary sinus.

Larynx
Wall - muscles, ligaments, cartilages, cavity-subdivisions - Vocal cord

Organs of hearing and equilibrium
External ear - Middle ear - Internal ear

Eyeball
Spinal cord
Coverings of meninges - Contents of vertebral canal - Gross anatomy of spinal cord - Regional differentiation

Blood supply
Main ascending and descending tracts and their functions

Joints of the neck
Brain
Upper limb:
Names of the bones & joints - Main artery, important muscles, nerves & veins
Thorax
Inlet - outlet - Subdivisions
Lungs & pleura
Heart
Pericardium & its blood vessels -
Diaphragm
Subdivisions - Location of the abdominal organs in relation to abdominal wall - Their blood supply & nerve supply -
Histology
Structure of epithelium - different types - connective tissue - Fibers & cells - Bone - Cartilage - Muscles - Blood vessels
Lymphatic tissue
Lymph node, tonsil, spleen & thymus
Alimentary system
Salivary glands, tooth- Oesophagus - Stomach - Intestines - small & large - Duodenum, ileum, jejunum - Caecum, appendix, colon - Liver, gall bladder - Pancreas
Reproductive system
Testis, epididymis, ductus deferens-Ovary, fallopian tube, uterus - Placenta, mammary gland, umbilical cord
Eye
Cornea, retina
Ear
Cochlea
Skin
Thin skin, thick skin
Respiratory system
Trachea, lungs
Urinary system
Kidney - Ureter - Urinary bladder
Nervous system
Spinal cord - different levels - Cerebrum - Cerebellum - Medulla - 3 levels - Pons - 2 levels - Midbrain - 2 levels - Sensory nerve endings - Motor nerve endings - Endocrines - Pituitary - Thyroid Parathyroid - Supra - renal gland
DEMONSTRATION
1. Demonstration of dissected specimens
2. Embryology Models & Charts
3. Histology slides
Introduction to Physiology
- Functional organization of human body.
- Body fluids and distribution, homeostasis.
- Structure of cell and organelles.
- Cell membrane, transport across the cell membrane.
- Membrane potentials, action potentials.
- Histopathology of epithelium, connective tissue.

Blood
- Blood Volume, composition of blood and plasma.
- Red blood cells - morphology, count and variation.
- ERthropoiesis, life span and fate of RBC.
- Anemia.
- Blood groups, ABO and RH - systems, transfusion.

White Blood Corpuscles
- Total count and variations, types and functions.
- Immunity.
- Lymphatic system: formation, circulation, and functions of spleen.

Blood Platelets
- Count variations and functions.

Coagulation of Blood
- Extrinsic and intrinsic pathway of coagulation.
- Bleeding and clotting disorders.
- Coagulation factors.
- Anti coagulants.

Excretory System
- Structure of the nephron
- Volume and composition of urine
- Formation of urine
- Glomerular filtration, tubular secretion and reabsorption.
- Renal function tests
- Role of kidney in homeostasis
- Micturition
- Artificial kidney
- Dialysis

Endocrine System
- General chemistry of hormones
- Parathyroid gland
- Thyroid gland
- Endocrine function of pancreas - insulin and glucagons
- Adrenal glands
- Hypothalamus, pineal gland, Kidney, thymus, local hormones: Prostaglandins, Kinins.

Reproduction
- Male reproductive system - androgens - spermatogenesis
- Female reproductive system - ovarian and menstrual cycles
- Pregnancy and lactation
- Family planning - contraception.

Muscle and the nervous system
- Skeletal muscle structure and properties
- Muscle contraction and relaxation.
- Smooth muscle: types, structure properties
- Structure and function of the nervous tissue
- Neuron, development of action potentials
- Degeneration and regeneration of nerve fiber
- Neuromuscular transmission
- Excitation, contraction, coupling.

Digestion
- Structure of the digestive tract
- Salivary glands: Saliva, composition and functions
- Regulation of salivary secretion
- Digestion in the mouth
- Stomach
- Exocrine functions of pancreas
- Liver: bile, composition secretion and functions
- Digestion and absorption in small intestine
- Movements of alimentary canal: deglutition, defecation.

Cardiovascular System
- Functional anatomy and properties of coagulation.
- Origin and conduction of cardiac impulse.
- Pace maker tissues of heart.
- Cardiac cycle and ECG
- Heart rate and its regulation
- Cardiac output, distribution, normal values, factors affecting blood pressure and method of measurement.
- Hypertension.
- Radial pulse.
- Physiology of shock.
Special Circulation
- Pulmonary
- Cerebral
- Coronary
- Splanchnic
- Renal

Respiration
- Structure of the respiratory organs
- Mechanics of respiration
- Subdivisions of lungs
- Diffusion of gases in lungs and tissues
- Transport of oxygen in blood
- Transport of carbon dioxide in blood
- Regulation of respiration
- Physiological modification of respiration
- Roll of respiration in acid base balance
- Hypoxia and altitude physiology.
- Artificial respiration.

Autonomic Nervous system - Central Nervous system
- Types of neurons
- Synapses
- Spinal cord
- Reflexes
- Sensory system including receptors, modalities and tracts.
- Thalamus.
- Motor system including descending tracts
- Cerebrospinal fluid
- Pain, pathway and referred pain.
- Basal ganglia.
- Cerebellum.
- Muscle tone
- Regulation of posture: vestibulo cochlear system
- Effects of lesions in spinal cord.
- Hypothalamus.
- Limbic system.
- EEG and sleep.
- Learning and memory.
- Higher functions of CNS: language and speech.

Special senses
- Vision
- Auditory
- Olfaction
- Taste

GENERAL HUMAN PHYSIOLOGY
PRACTICALS AND DEMONSTRATIONS
I - B.D.S.

PRACTICALS
1. Enumeration of Red blood cells
2. Enumeration of White blood cells
3. Differential leucocyte count
4. Estimation of haemoglobin
5. Determination of blood groups
6. Determination of bleeding time and clotting time
7. Determination of pulse and blood pressure
8. Clinical examination of respiratory system
9. Clinical examination of cardiovascular system

DEMONSTRATIONS
1. Erythrocyte sedimentation rate.
2. Packed cell volume.
3. Specific gravity.
4. Osmotic fragility.
5. Electrocardiogram.
6. Properties of excitable, tissue skeletal / cardiac muscle.
7. Activity of frogs heart, effects of vagal stimulation and of atropine and adrenaline
I BDS - GENERAL HUMAN PHYSIOLOGY
MODEL QUESTION PAPER (Paper -II)

Time : Three Hours
Maximum : 100 Marks

SECTION - A (50 Marks)

GENERAL PHYSIOLOGY BLOOD, MUSCLES, NERVES,
RENAL, GIT, ENDO, CRINE SYSTEM

a. 15 marks question 1 = 1x15 = 15
b. 5 marks question 3 = 3x5 = 15
c. 2 marks question 10 = 10x2 = 20
Total Marks = 50

SECTION - B (50 Marks)

CVS, RS, CNS, SPECIAL SENSES

a. 15 marks question 1 = 1x15 = 15
b. 5 marks question 3 = 3x5 = 15
c. 2 marks question 10 = 10x2 = 20
Total Marks = 50

Orals (VIVA VOCE) 20 Marks

PRACTICAL : 50 MARKS

MAJOR 25 Marks
MINOR 15 Marks
Charts / Calculations / Spotters 10 Marks

INTERNAL ASSESSMENT : 30 MARKS

Theory 15 Marks
Practicals 10 Marks
Records 05 Marks

BIOCHEMISTRY

I.B.D.S. (Paper - III)
SECTION - A

I. Cell structure and its functions

Chemistry of Bio Organic molecules / Macro nutrients

II. CARBOHYDRATES :
Definition and Classification - Biological importance monosaccharide -
stereo isomerism - Epimers reactions - Benedicts reaction - Osazones -
Glycosides - Amino sugars - Deoxy sugars. Disaccharides - Maltose -
Lactose - Sucrose - Polysaccharides - Starch - Glycogen - Cellulose -
Mucopolysaccharides.

III. LIPIDS :
Definition and Classification - Biological Importance - Triglycerides -
Phospholipids - derived lipids - cholesterol - bile salts - prostaglandins.

IV. ENZYMES :
Definition - classification - Coenzymes - Mode of action of enzymes -
Active center - specificity. Inhibitors of various kinds. Cofactors -
Regulation of enzyme activity

MICRONUTRIENTS :

V. Vitamins - Definition - Classification - daily requirements -
sources - deficiency manifestations - Fat soluble vitamins A,D,E,K, -
water soluble vitamins B complex and vitamin C. Introduction to Anti
vitamins and Hyper vitaminosis.

VI. Minerals - Classification - daily requirement - Calcium - phosphorus -
Magnesium. Iron sources - uptake - excretion - function - serum calcium
regulation etc. Trace elements - functions - deficiency and excess.

VII. Electron Transport Chain - Oxidative phosphorylation.

Free radicals antioxidants.

Metabolism of Carbohydrates - Lipids :


SECTION - B

I. **PROTEINS** :

II. **NUCLEIC ACIDS** :
   Definition. Building units. Nucleosides - Nucleotides - outline structure of DNA & RNA. High energy compounds. ATP - phosphorylation - Thioesters - Enol phosphates etc.

III. **HAEMOGLOBIN** :
   Structure and properties - Non heme prophyrin. Metabolism of hemoglobin, bilirubin metabolism.

IV. **Metabolism of Proteins** - Digestion & absorption - Formation of Ammonia - Formation of urea - transamination - transmethylation - introduction to functions of aminoacids. Protein utilization for energy (glucogenic and ketogenic aminoacids). Inborn error of Metabolism of aminoacids and special function of aminoacids - Glycine. Phenylalanine, tyrosine, tryptophan, histidine and sulphur containing amino acids etc.

V. **Integration of Metabolism & Hormone Regulation**

VI. **Biochemical genetics**

VII. **Xenobiotics and Antioxidants**

VIII. **Acid Base and Electrolyte Balance** :

IX. **Clinical Biochemistry**

**Recommended Books**

Text Book of Biochemistry - D.M. Vasudevan
Text Book of Biochemistry for Dental students - D.M. Vasudevan
Text Book of Biochemistry - Sathyanarayanan

**Reference Books**

Harpers Biochemistry - R.K. Murray et al
Text Book of Biochemistry with clinical correlations - T.N. Devlin
Lippincotts Biochemistry - Champe
PRACTICALS

1. Qualitative analysis
   Carbohydrates - monosaccharides - disaccharides - polysaccharides
2. Colour reactions of proteins & aminoacids
3. Identifications of non protein nitrogen substances
4. Normal Constituents of urine
5. Abnormal urine constituents

DEMONSTRATION

1. Hydrolysis of starch
2. Analysis of Saliva
3. Quantitative estimation - Cholesterol - S. Bilirubin
4. Paper electrophoresis
5. Chromatography

CLINICAL DATA EVALUATION

1. Profiles of GTT
2. Lipid profiles
3. Profiles of liver function
4. Profiles of kidney function
5. Blood gas profile in acidosis / alkalosis
DENTAL ANATOMY
EMBRYOLOGY AND ORAL HISTOLOGY
I - B.D.S. (Paper - IV)

Oral Biology course includes instructions in the subject of Dental Morphology, Oral Embryology, Oral Histology and Oral Physiology.

Introduction - Oral Biology - a composite of basic Dental Sciences & their clinical applications.

SKILLS

THE STUDENT SHOULD ACQUIRE BASIC SKILLS IN :

1. Carving of permanent teeth in wax.
3. Identification of Deciduous & permanent teeth.
4. Age estimation by patterns of teeth eruption from plaster casts of different age groups.

OBJECTIVES

AFTER A COURSE ON ORAL BIOLOGY,

1. The student is expected to appreciate the normal development, morphology, structure & functions of oral tissues & variations in different pathological / non - pathological states.
2. The student should understand the histological basis of various dental treatment procedures and physiologic ageing process in the dental tissues.
3. The students must know the basic knowledge of various research methodologies.

I. TOOTH MORPHOLOGY

1. Introduction to tooth morphology

Human dentition, types of teeth & functions, Palmer’s & Binomial notation systems, toothsurfaces, their junctions - line angles & point angles, definition of terms used in dental morphology, geometric concepts in tooth morphology, contact areas & embrasures - Clinical significance.

2. Morphology of permanent teeth

Description of individual teeth, along with their endodontic anatomy & including a note on their chronology of development, differences between similar class of teeth & identification of individual teeth. Variations & Anomalies commonly seen in individual teeth.

3. Morphology of Deciduous teeth

Generalized differences between Deciduous & Permanent teeth. Description of individual deciduous teeth, including their chronology of development, endodontic anatomy, differences between similar class of teeth & identification of individual teeth.

4. Occlusion


II. ORAL EMBRYOLOGY

1. Brief review of development of face, jaws, lip, palate & tongue, with applied aspects.

2. Development of teeth

Epithelial mesenchymal interaction, detailed study of different stages of development of crown, root & supporting tissues of tooth & detailed study of formation of calcified tissues. - Applied aspects of disorders in development of teeth.

3. Eruption of deciduous & Permanent teeth

Mechanisms in tooth eruption, different theories & histology of eruption, formation of dentogingival junction, role of Guberernacular cord in eruption of permanent teeth. Clinical or applied aspects of disorders of eruption.

4. Shedding of teeth

Factors & mechanisms of shedding of deciduous teeth. Complications of shedding.
III. ORAL HISTOLOGY

1. Detailed microscopic study of Enamel, Dentine, Cementum & Pulp tissue. Age changes & Applied aspects (Clinical and forensic significance) of histological considerations - fluoride applications, transparent dentine, dentine hypersensitivity, reaction of pulp tissue to varying insults to exposed dentine; Pulp calcifications & Hypercementosis.

2. Detailed microscopic study of Periodontal ligament & alveolar bone, age changes, histological changes in periodontal ligament & bone in normal & orthodontic tooth movement, applied aspects of alveolar bone resorption.


4. Salivary Glands
   Detailed microscopic study of acini & ductal system. Age changes & clinical considerations.

5. TM Joint
   Review of basic anatomical aspects & microscopic study & clinical considerations.

6. Maxillary Sinus
   Microscopic study, anatomical variations, functions & clinical relevance of maxillary sinus in dental practice.

7. Processing of Hard & soft tissues for microscopic study
   Ground sections, decalcified sections & routine staining procedures.

8. Basic histochemical staining patterns of oral tissues.

IV. ORAL PHYSIOLOGY

1. Saliva
   Composition of saliva - variations, formation of saliva & mechanisms of secretion, salivary reflexes, brief review of secretomotor pathway, functions, role of saliva in dental caries & applied aspects of hyper & hypo salivation.

2. Mastication
   Masticatory force & its measurement - need for mastication, peculiarities of masticatory muscles, masticatory cycle, masticatory reflexes & neural control of mastication.

3. Deglutition
   Review of the steps in deglutition, swallowing in infants, neural control of deglutition & dysphagia.

4. Calcium, Phosphorous & fluoride metabolism
   Source, requirements, absorption, distribution, functions & excretion, clinical considerations, hypo & hypercalcemia & hyper & hypo phosphatemia & fluorosis.

5. Theories of Mineralization
   Definition, mechanisms, theories & their drawbacks. Applied aspects of physiology of mineralization, pathological considerations - calculus formation.

6. Physiology of Taste
   Innervation of taste buds & taste pathway, physiologic basis of taste sensation, age changes & applied aspects - taste disorders.

7. Physiology of Speech
   Review of basic anatomy of larynx & vocal cords. Voice production, resonators, production of vowels & different consonants - Role of palate, teeth & tongue. Effects of dental prosthesis & appliances on speech & basic speech disorders.

RECOMMENDED TEXT BOOKS

1. Orban's Oral Histology & Embryology - S.N. Bhaskar
2. Oral Development & Histology - James & Avery
4. Dental Anatomy - its relevance to dentistry - Woelfel & Scheid
5. Applied Physiology of the mouth - Lavelle
6. Physiology & Biochemistry of the mouth - Jenkins
I BDS - DENTAL ANATOMY
EMBRYOLOGY & ORAL HISTOLOGY
MODEL QUESTION PAPER
(PAPER IV)

Course Code :

Time : Three Hours
Maximum : 100 Marks

TOTAL MARKS : 100

I PRACTICAL EXAMINATION : 50 Marks

A) 1. Identification of soft and hard tissue (histology)
   2. Slides, natural teeth of deciduous and permanent dentition
   3. Models
      Total - 30 Marks

B) Carving of natural teeth
      Total - 20 Marks

II INTERNAL ASSESSMENT

Total - 30 Marks

III VIVA VOCE

Total - 20 Marks

SECTION - A

ORAL HISTOLOGY (50 Marks)

a. 1 Fifteen marks question - 1x15 = 15
b. 3 Five marks question - 3x5 = 15
c. 10 Two marks question - 10x2 = 20
   Total - 50 Marks

SECTION - B

TOOTH MORPHOLOGY, ORAL ANATOMY, ORAL EMBRYOLOGY AND ORAL PHYSIOLOGY (50 Marks)

a. 1 Fifteen marks question - 1x15 = 15
b. 3 Five marks question - 3x5 = 15
c. 10 Two marks question - 10x2 = 20
   (Essay from tooth morphology only)
   Total - 50 Marks
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<tr>
<th>S.No.</th>
<th>SUBJECT</th>
<th>THEORY</th>
<th>PRACTICAL</th>
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<tr>
<td>1</td>
<td>GENERAL PATHOLOGY</td>
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<td>2</td>
<td>GENERAL MICROBIOLOGY</td>
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<td>3</td>
<td>GENERAL &amp; DENTAL PHARMACOLOGY AND THERAPEUTICS</td>
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<td>DENTAL MATERIALS</td>
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<td>5</td>
<td>PRE-CLINICAL CONSERVATIVE DENTISTRY</td>
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<td>6</td>
<td>PRE-CLINICAL PROSTHODONTICS</td>
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TENTATIVE EVENT CALENDAR (2014-15)
II YEAR - BDS - AUG’ 14-15 Batch

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>25.11.14 (Tuesday) to 01.12.14 (Monday)</td>
<td>First Internal Exam (Theory)</td>
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<tr>
<td>24.12.14 (Wednesday) to 18.01.15 (Sunday)</td>
<td>Winter Holidays</td>
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<tr>
<td>03.03.15 (Tuesday) to 12.03.15 (Thursday)</td>
<td>1Ind Internal Exam (Theory)</td>
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<tr>
<td>01.05.15 (Friday) to 31.05.15 (Sunday)</td>
<td>Summer Holidays</td>
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<td>02.06.15 (Tuesday) to 10.06.15 (Wednesday)</td>
<td>1Ind Internal Exam (Theory)</td>
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<tr>
<td>02.07.15 (Thursday) to 10.07.15 (Friday)</td>
<td>Model Exam</td>
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<tr>
<td>15.07.15 (Wednesday) to 31.07.15 (Friday)</td>
<td>Study Holidays</td>
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<tr>
<td>03.08.15 (Monday)</td>
<td>University Exam Commences (Tentative)</td>
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NB : Students who avail leave prior or after the allotted Holidays without permission shall warrant disciplinary action.

TENTATIVE TIME TABLE FOR INTERNAL EXAMINATIONS FOR AUGUST 2014-15 BATCH

Ist INTERNAL EXAMINATIONS

<table>
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<tr>
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<tr>
<td>25.11.14 (Tuesday) (Pathology)</td>
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<td>27.11.14 (Thursday) (Microbiology)</td>
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<td>30.11.14 (Saturday) (Pharmacology)</td>
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<td>01.12.14 (Monday) (DM)</td>
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MODEL EXAM

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<td>10.07.15 (Friday) (DM)</td>
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University examinations: Tentatively starts on 1st working day of AUGUST 2015.
The college will be reopening for III - year session tentatively on 1st SEPTEMBER 2015.
Irrespective of declaration of university exam results of the Previous session.

GENERAL PATHOLOGY

Aim:
At the end of the course the student should be competent to:
Apply the scientific study of disease processes, which result in morphological and functional alterations in cells, tissues and organs to the study of pathology and the practice of dentistry.

Objectives:

1. To demonstrate and apply basic facts, concepts and theories in the field of Pathology.
2. To recognize and analyze pathological changes at macroscopically and microscopically levels and explain their observations in terms of disease processes.
3. To Integrate knowledge from the basic sciences, clinical medicine and dentistry in the study of Pathology.
4. To demonstrate understanding of the capabilities and limitations of morphological Pathology in its contribution to medicine, dentistry and biological research.
5. To demonstrate ability to consult resource materials outside lectures, laboratory and tutorial classes.

COURSE CONTENT

A. General Pathology

1. Introduction to Pathology
   Terminologies
   The cell in health
   The normal cell structure
   The cellular functions

2. Etiology and Pathogenesis of Disease
   Cell Injury
   Types
   Congenital
   Acquired
   Mainly Acquired causes of disease
   (Hypoxic injury, chemical injury, physical injury, immunological injury)

3. Degenerations
   Amyloidosis
   Fatty change
   Cloudy swelling
   Hyaline change, mucoid degeneration
4. Cell death & Necrosis
   - Apoptosis
   - Def, causes, features and types of necrosis
   - Gangrene - Dry, wet, gas
   - Pathological Calcifications
     (Dystrophic and metastatic)
5. Inflammation
   - Definition, causes types, and features
   - Acute inflammation
     a. The vascular response
     b. The cellular response
     c. Chemical mediators
     d. The inflammatory cells
     e. Fate
     - Chronic inflammation
     - Granulomatous inflammation
6. Healing
   - Regeneration
   - Repair
     a. Mechanisms
     b. Healing by primary intention
     c. Healing by secondary intention
     d. Fracture healing
     e. Factors influencing healing process
     f. Complications
7. Tuberculosis
   - Epidemiology
   - Pathogenesis (Formation of tubercle)
   - Pathological features of Primary and secondary TB
   - Complications and Fate
8. Syphilis
   - Epidemiology
   - Types and stages of syphilis
   - Pathological features
   - Diagnostic criteria
   - Oral lesions
9. Typhoid
   - Epidemiology
   - Pathogenesis - Pathological features
   - Diagnostic criteria
10. Thrombosis
    - Definition, Pathophysiology
    - Formation, complications & Fate of a thrombus
11. Embolism
    - Definition
    - Types
    - Effects
12. Ischaemia and Infarction
    - Definition, etiology, types
    - Infarction of various organs
13. Derangements of body fluids
    - Oedema pathogenesis
    - Different types
14. Disorders of circulation
    - Hypo- & hyperaemia
    - Shock
15. Nutritional Disorders
    - Common Vitamin Deficiencies
16. Immunological mechanisms in disease
    - Humoral & cellular immunity
    - Hypersensitivity & autoimmunity
17. AIDS
18. Hypertension
    - Definition, classification
    - Pathophysiology
    - Effects in various organs
19. Diabetes Mellitus
    - Def, Classification, Pathogenesis, Pathology in different organs
20. Adaptive disorders of growth
    - Atrophy & Hypertrophy, Hyperplasia, Metaplasia and Dysplasia
21. General Aspects of neoplasia
    a. Definition, terminology, classification
    b. Differences between benign and malignant neoplasms
    c. The neoplastic cell
    d. Metastasis
    e. Etiology and pathogenesis of neoplasia, Carcinogenesis
    f. Tumour biology
    g. Oncogenes and anti-oncogenes
    h. Diagnosis
    i. Precancerous lesions
    j. Common specific tumours, Sq papilloma & CA, Basal cell CA, Adenoma
       & Adeno CA, Fibroma & Fibrosarcoma, Lipoma and liposarcoma
B. Systemic Pathology
22 Anaemias
    - Iron Deficiency anaemia, Megaloblastic anaemia
23. Leukaemias
    - Acute and chronic leukaemias, Diagnosis and clinical features
24. Diseases of Lymph nodes
    - Hodgkin's disease, Non Hodgkin's lymphoma, Metastatic carcinoma
25. Diseases of oral cavity
    - Lichen planus, Stomatitis, Leukoplasia, Sq cell CA, Dental caries,
      Dentigerous cyst, Ameloblastoma
26. Diseases of salivary glands
    - Normal structure, Sialadenitis, Tumours
27. Common diseases of Bones
- Osteomyelitis, Metabolic bone diseases, Bone Tumours, Osteosarcoma, Osteoclasis, Giant cell Tumour, Ewing's sarcoma, Fibrous dysplasia, Aneurysmal bone cyst

28. Diseases of Cardiovascular system
- Cardiac failure
- Congenital heart disease ASD, VSD, PDA
- Fallot's Tetralogy
- Infective Endocarditis
- Atherosclerosis
- Ischaemic heart Disease

29. Haemorrhagic Disorders
Coagulation cascade
Coagulation disorders
- Platelet function
- Platelet disorders

Practicals
1. Urine Abnormal constituents
   - Sugar, albumin, ketone bodies
2. Urine Abnormal constituents
   - Blood, bile salts, bile pigments
3. Haemoglobin (Hb) estimation
4. Total WBC count
5. Differential WBC Count
6. Packed cell volume (PCV) erythrocyte sedimentation Rate (ESR)
7. Bleeding Time & clotting Time
8. Histopathology
   - Tissue Processing
   - Staining
9. Histopathology slides
   - Acute appendicitis, Granulation tissue, fatty liver
10. Histopathology slides
    - CVC lung, CVC liver, Kidney amyloidosis
11. Histopathology slides
    - Tuberculosis, Actinomycosis, Rhinosporidiosis
12. Histopathology slides
    - Papilloma, Basal cell CA, Sq cell CA
13. Histopathology slides Osteosarcoma, osteoclastoma, fibrosarcoma
14. Histopathology slides
    - Malignant melanoma, Ameloblastoma, Adenoma
15. Histopathology slides
    - Mixed parotid tumour, metastatic carcinoma in lymph node

List of Textbooks
1. Robbins Pathologic Basis of Disease Cotran, Kumar, Robbins
2. Anderson's Pathology Vol 1 & 2 Editors Ivan Damjanov & James Linder
3. Wintrobe's clinical Haematolog Lee, Bithell, Foerster, Athens, Lukens

AIM:
To introduce the students to the exciting world of microbes. To make the students aware of various branches of microbiology, importance, significance and contribution of each branch to mankind and other fields of medicine. The objectives of teaching microbiology can be achieved by various teaching techniques such as:

a) Lectures
b) Lecture Demonstrations
c) Practical exercises
d) Audio visual aids
e) Small group discussions with regular feedback from the students.

OBJECTIVES
A. Knowledge and Understanding
At the end of the Microbiology course the student is expected to:
1. Understand the basics of various branches of microbiology and able to apply the knowledge relevantly.
2. Apply the knowledge gained in related medical subjects like General Medicine and General Surgery and Dental subjects like Oral Pathology, Community Dentistry, Periodontics, Oral Surgery, Pedodontics, Conservative Dentistry and Oral medicine in higher classes.
3. Understand and practice various methods of Sterilisation and disinfection in dental clinics.
4. Have a sound understanding of various infectious diseases and lesions in the oral cavity.

B. SKILLS
1. Student should have acquired the skill to diagnose, differentiate various oral lesions.
2. Should be able to select, collect and transport clinical specimens to the laboratory.
3. Should be able to carry out proper aseptic procedures in the dental clinic.

A brief syllabus of Microbiology is given as follows:

A. GENERAL MICROBIOLOGY:
3. Detailed account of Sterilisation and Disinfection.
4. Brief account of Culture media and Culture techniques.
5. Basic knowledge of selection, collection, transport, processing of clinical Specimens and identification of bacteria.

B. IMMUNOLOGY:
1. Infection - Definition, Classification, Source, Mode of transmission and types of Infectious disease.
2. Immunity
3. Structure and functions of Immune system
4. The Complement System
5. Antigen
6. Immunoglobulins - Antibodies - General structure and the role played in defense mechanism of the body.
7. Immune response
9. Immuno deficiency disorders - a brief knowledge of various types of immuno deficiency disorders - A sound knowledge of immuno deficiency disorders relevant to dentistry.
10. Hypersensitivity reactions
11. Autoimmune disorders - Basic knowledge of various types - sound knowledge of autoimmune disorders of oral cavity and related structures.

12. Immunology of Transplantation and Malignancy

13. Immunohaematology

C. SYSTEMATIC BACTERIOLOGY:

1. Pyogenic cocci - Staphylococcus, Streptococcus, Pneumococcus, Gonococcus, Meningococcus brief account of each coccus - detailed account of mode of spread, laboratory diagnosis, Chemo therapy and prevention - Detailed account of Cariogenic Streptococci.

2. Corynebacterium diphtheriae - mode of spread, important clinical feature, Laboratory diagnosis, Chemotherapy and Active immunisation.

3. Mycobacteria - Tuberculosis and Leprosy

4. Clostridium - Gas gangrene, food poisoning and tetanus.


7. Actinomycetes.

D. VIROLOGY:

1. Introduction

2. General properties, cultivation, host - virus interaction with special reference to Interferon.

3. Brief account of Laboratory diagnosis, Chemotherapy and immuno prophylaxis in general.

4. A few viruses of relevance to dentistry.

Herpes Virus

Hepatitis B Virus - brief about other types

Human Immunodeficiency Virus (HIV)

Mumps Virus

Brief - Measles and Rubella Virus

5. Bacteriophage - structure and Significance

E. MYCOLOGY

1. Brief Introduction

2. Candidosis - in detail


F. PARASITOLOGY:

1. Brief introduction - protozoans and helminths

2. Brief knowledge about the mode of transmission and prevention of commonly seen parasitic infection in the region.

RECOMMENDED BOOKS FOR REGULAR READING:


2. Medical Microbiology David Greenwood et al.

BOOKS FOR FURTHER READING/REFERENCE.

1) Microbiology Prescott, et al.

2) Microbiology Bernard D. Davis , et al.

3) Clinical & Pathogenic Microbiology Barbara J Howard, et al.

4) Mechanisms of Microbial diseases Moselio Schaechter, et al.

5) Immunology an Introduction Tizard

6) Immunology 3rd edition Evan Roitt , et al.
5. Autocoids:
   Histamine, antihistamines, prostaglandins, leukotriens and bronchodilators.
6. Drugs acting on blood: coagulants and anticoagulants, hematinics.
8. Endocrines: Emphasis on treatment of diabetes and glucocorticoids, thyroid and
   antithyroid agents, drugs affecting calcium balance and anabolic steroids.
9. Chemotherapy: Antimicrobial agents (against bacteria, anaerobic infections,
   fungi, virus and broad spectrum). Infection management in dentistry.
   Pharmacotherapy of Tuberculosis, leprosy and chemotherapy of malignancy in
   general.
12. Chelating agents BAL, EDTA and desferrioxamine.

II. DENTAL PHARMACOLOGY
1. Anti-septics, astrigents, obtundents, mummifying agents, bleaching agents,
   styptics, disclosing agents, dentifrices, mouth washes, caries and fluorides.
2. Pharmacotherapy of common oral conditions in dentistry.
   Practicals and Demonstrations: To familiarise the student with the methodology:
   prescription writing and dispensing.
   Rationale of drug combinations of marketed drugs.

Lectures
Practicals & Demonstrations 20 Total 80 hours.

LIST OF BOOKS RECOMMENDED FOR READING AND REFERENCE
1. R.S.Satoskar, Kale Bhandarkar's Pharmacology and Pharmacotherapeutics,
   Lange 1997
4. Satoskar R.S. & Bhandarkar S.D., Pharmacology and Pharmacotherapeutics
   part I & part II, 13th Popular Prakashan Bombay 1993

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<th>QUANTITY</th>
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<td>c. Wards Carver</td>
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**PRECLINICAL INSTRUMENTS - PROSTHODONTICS**

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**TIME TABLE: 1 BDS**

**VENUE: VMKV MEDICAL COLLEGE, SALEM.**

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<th>TUESDAY</th>
<th>WEDNESDAY</th>
<th>THURSDAY</th>
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<td>Biochemistry</td>
<td>Anatomy - Dissection</td>
<td>Anatomy / Anatomy</td>
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<td>10.00 am to 11.00 am</td>
<td>11.00 am to 12.45 pm</td>
<td>12.45 pm to 2.30 pm</td>
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<td>11.00 am to 12.45 pm</td>
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<td>Environmental Science</td>
<td>Anatomy / Biochemistry</td>
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### TIME TABLE : I BDS

**VENUE : VINAYAKA MISSON’S SANKARACHARIYAR DENTAL COLLEGE, SALEM**

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<th>SESSION:</th>
<th>MORNING</th>
<th>NOON</th>
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<td>8:30 - 10:30 am</td>
<td>10:30 - 11:30 am</td>
<td>11:30 - 12:15 pm</td>
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<td><strong>SATURDAY</strong></td>
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<td>9:30 - 10:45 am</td>
<td>11:00 - 12:15 pm</td>
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<td>Tooth Morphology (LECTURE)</td>
<td>PRACTICAL B - BATCH : Oral Biology Tooth &amp; Morphology A - BATCH : Dental Materials (Restorative)</td>
<td>LECTURE Dental Materials / Restorative</td>
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### TIME TABLE : II BDS

**VENUE : VMKV MEDICAL COLLEGE, SALEM.**

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<th>DAYS</th>
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<th>10.30 am to 11.30 am</th>
<th>11.30 am to 1.45 pm</th>
<th>1.45 pm to 2.30 pm</th>
<th>2.30 pm to 4.00 pm</th>
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<tbody>
<tr>
<td><strong>MONDAY</strong></td>
<td>Microbiology</td>
<td>Pharmacology</td>
<td>Microbiology Pharmacology Pathology</td>
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<tr>
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<td>Physiology</td>
<td>Microbiology</td>
<td>Microbiology Pharmacology Pathology</td>
<td>Lunch Break</td>
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# TIME TABLE: II BDS

**VENUE:** VINAYAKA MISSION’S SANKARACHARYAR DENTAL COLLEGE, SALEM

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<th>THURSDAY</th>
<th>FRIDAY</th>
<th>SATURDAY</th>
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<tr>
<td></td>
<td>8.30 am to 9.30 am</td>
<td>Pre-Clinical Prosthodontics A</td>
<td>Pre-Clinical Prosthodontics B</td>
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<td>9.30 am to 10.30 am</td>
<td>Pre-Clinical ODS A</td>
<td>Pre-Clinical ODS B</td>
</tr>
<tr>
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<td>11.00 am to 1.00 pm</td>
<td>Lunch Break</td>
<td>Pre-Clinical Prosthodontics B</td>
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<tr>
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<td>2.00 pm to 2.30 pm</td>
<td>Pre-Clinical Prosthodontics A</td>
<td>Pre-Clinical ODS A</td>
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<tr>
<td></td>
<td>2.30 pm to 3.30 pm</td>
<td>ODS</td>
<td>Pre-Clinical Prosthodontics A</td>
</tr>
</tbody>
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**FINAL UNIVERSITY EXAM - ANSWER BOOKLET MAIN SHEET**

<table>
<thead>
<tr>
<th>No.</th>
<th>Item</th>
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<tbody>
<tr>
<td>1</td>
<td>Register No.</td>
</tr>
<tr>
<td>2</td>
<td>College</td>
</tr>
<tr>
<td>3</td>
<td>Degree (Branch)</td>
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<td>4</td>
<td>Course Code</td>
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<td>5</td>
<td>Title of the Paper</td>
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<td>6</td>
<td>Date &amp; Session</td>
</tr>
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<td>7</td>
<td>Signature of the Candidate</td>
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<td>8</td>
<td>Facsimile</td>
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<td>9</td>
<td>Signature of the Invigilator</td>
</tr>
<tr>
<td>10</td>
<td>No. of Pages Used</td>
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<td>11</td>
<td>Total</td>
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<td>Total</td>
</tr>
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<td>13</td>
<td>Q.R. No.</td>
</tr>
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**CHECKLIST**

1, 2, 3, 4, 5, 9, 10, 11 - Refer Hall ticket
6, 12, 13 - Refer Question paper
7 - To be signed by candidate
8 - To be signed by invigilator
14 - Count and enter number of pages used including main answer script
INSTRUCTION TO THE CANDIDATES

Before answering:

Fill in the particulars such as register number, college, degree and branch of study, Course, Course code, Q.P.Sl. No, Date and title of examination paper and Sign in the space provided.

DO NOT write your name or any other identifying mark on any part of the Answer Book.

DO NOT write in the margin.

No loose sheets of paper will be allowed in the Examination Room and no paper must be detached from the Answer Book.

Additional answer book may be used.

The answer must be legibly written in Blue or Black Ink / Ball Point Pen.

Draw with labelled illustrations wherever necessary.

Before submitting the answer sheets the candidate should enter Total No. of pages used and strike the unused pages if any.