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Personal Memoranda

AFFIX PHOTO

Name :

Registration Number :

Father/Mother's Name :

Address :

Email Id :

Mobile No. :

Date Of Birth :

Blood Group :

Year of Admission :

Year of Study :

Student Academic Coordinator : Dr.S. Ashna

Mobile No : 98436 93385

Mentor's Name :

Dept. Name & Room. No :

Phone No :

Other Details if any :

NH 47 Sankari Main Road, Ariyanoor, Salem - 636 308. Tamilnadu, India.

Phone: 0427-2477723 | E Mail: dean@vmsdc.edu.in

College Website: www.vmsdcsalem.com | University Website: vinayakamission.com

Dean's Message

I am happy to note that you have taken a decision to join our Institution after a serious thought and discussion amongst your loved and learned ones. I congratulate you for the wise decision.

Vinayaka Mission's Sankarachariayar Dental College was started in the year 1986 and has crossed leaps and bounds, to attain the present status. I wish to state that dentistry is an art & science which needs a good sculptor and source.

Our asset is experienced and dedicated staff, good infrastructure and clinical cases, provides an environment for student centric learning in a holistic manner. The skill needed for the art and the knowledge needed for science is delivered by keeping the present generation's need to face the global challenge.

I therefore, assure you that your decision will not go futile and you will not only be a successful dentist but also a good statesman by making our country proud in all endeavors.

Prof. Dr. J. BABY JOHN, M.D.S., Dean, VMSDC, Salem

Vinayaka Mission's Sankarachariyar Dental College (Vmsdc) Profile



Mrs. Annapoorani Shanmugasundaram & Dr. A. Shanmugasundaram

Vinayaka Mission's Sankarachariyar Dental college, Salem was instituted in the year 1986 as an affiliated institution under the University of Madras and later on affiliated to the Tamilnadu Dr. MGR Medical University, Chennai with courses viz. Bachelor of Dental Surgery (BDS), Master of Dental Surgery (MDS), Diploma in Dental Mechanics and Diploma in Dental hygienist.

The Vinayaka Mission's Sankarachariyar Dental college later on became the constituent of VINAYAKA MISSION'S RESEARCH FOUNDATION (DEEMED TO BE UNIVERSITY) from 2001. The institution is located on NH 47, Sankari Main Road, Ariyanoor, Salem- 636008 in 10.14 acre campus with a build up area of 1,14,149 sq.ft.

The institution has committed to impart quality education to the students from different socioeconomic & Cultural backgrounds. The institution offers Undergraduate programme, 9 Postgraduate programmes, PhD in Dentistry, Diploma courses in Dental Mechanics & Dental Hygienist. The campus has well equipped library with internet facility & Central Research Laboratory for the staff and students.

Academic & Administrative Profile

| S.No | Name | Academic Profile | Mobile No. |
|------|------------------------------|---------------------------------------------------------------------------------------|------------|
| 1. | Dr. J. Baby John | Professor & Dean | 9842753645 |
| 2. | Dr.Reena Rachel John | Professor & Associate Dean (Research & Scientific) Oral & Maxillofacial Surgery | 9443118756 |
| 3. | Dr.R.Saranyan | Professor & HOD Periodontology Associate Dean (Academic Affairs) | 9842748071 |
| S.No | Name | Academic Profile | Mobile No. |
| 1. | Dr. G.V.Ramachandra Reddy | Professor & HOD Oral Medicine & Radiology | 9844065968 |
| 2. | Dr.R.Saranyan | Professor & HOD Associate Dean (Academic Affairs) Periodontology | 9842748071 |
| 3. | Dr.J.Arunkumar | Professor & HOD Oral & Maxillofacial Surgery | 9443273347 |
| 4. | Dr.R.Ramesh | Professor & HOD Prosthodontics and Crown & Bridge | 9443155211 |
| 5. | Dr.Maya Ramesh | Professor & HOD Oral & Maxillofacial Pathology and Oral Microbiology | 9600918804 |
| 6. | Dr. Veena Arali | Professor & HOD Pediatric & Preventive Dentistry | 9535444112 |
| 7. | Dr.Yadav Chakravarthy | Professor & HOD Conservative Dentistry & Endodontics | 8072404507 |
| 8. | · | | 9842753645 |
| 9. | Dr.Prabhakar Krishnan | Professor & HOD Orthodontics & Dentofacial | 9843688271 |
| | | | |
| S.No | Name | Academic Profile | Mobile No. |
| 1. | Mr.R.Natarajan | Administrative Officer | 9843044140 |
| 2. | Mr.I.Sapnath Panea Ray | Academic Officer | 9245478556 |
| 3. | Mr.A.Syed Nizamuddin | Senior Accountant | 8825805997 |
| | Mrs.J.Sudhishna | Senior executive hospital admin | 9994619822 |

Hippocratic Oath

I do 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.

Hippocratic Oath For Dentistry

swear to fulfill, to the best of my ability and judgment, this covenant:

- I will respect the hard-won scientific gains of those dental professionals in whose steps I walk, and gladly share such knowledge as is mine with those who are to follow.
- I will apply, for the benefit of the sick, all measures which are required, avoiding those twin traps of overtreatment and therapeutic nihilism.
- I will remember that there is art to dentistry as well as science, and that warmth, sympathy, and understanding may outweigh the surgeon's knife or the chemist's drug.
- I will not be ashamed to say "I know not"; nor will I fail to call in my colleagues when the skills of another are needed for a patient's well being.
- I will respect the privacy of my patients, for their problems are not disclosed to me that the world may know. Most especially must I tread with care in matters of life and death. If it is given me to save a life, all thanks. But it may also be within my power to take a life; this awesome responsibility must be faced with great hu-mility and awareness of my own frailty. Above all, I must not play at God.
- I will remember that I do not treat a decayed tooth or a cancerous growth, but a sick human being, whose illness may affect the person's family and economic stability. My responsibility includes these related problems, if I am to care adequately for the sick.
- I will prevent disease whenever I can, for prevention is preferable to cure.
- I will remember that I remain a member of society, with special obligations to all my fellow human beings, those sound of mind and body as well as the infirm.
- If I do not violate this oath, may I enjoy life and art, respected while I live an re-membered with affection thereafter. May I always act so as to preserve the finest traditions of my calling and may I long experience the joy of healing those who seek my help.



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 researchin the field of dentistry.

QUALITY POLICY

To prepare students to have in depth knowledge in both pre-clinical and clinical dentistry and update advances in diagnosis and therapeutics to meet the present dental disease pattern in the society.



The Lord Vinayaka

Vinayaka is in the centre of the emblem. He is the God of Health, Wisdom, Education & Prosperity and God for Nirvigna in the various walks of human -life. The tusks of the elephant are placed on either side of rod of Aesculapius. It represents the symbol of dentistry.

God Of Medicine

The God of Aesculapius is an ancient symbol associated with astrology, the Greek God Aesculapius and with healing. It consists of a serpent entwined around a staff. The name of the symbol derives from its early and widespread association with Aesculapius, the son of Apollo, who was a practitioner of medicine in ancient Greek mythology.

God Of Dentistry

Our Emblem design uses at its centre a twin serpent entwined about an ancient Arabian cautery.

Leaves

The leaves encircling Lord Vinayaka and God of Aesculapius represents human teeth.

The 20 leaves on the left side represent the deciduous dentition.

The 32 leaves on the right side represent the permanent dentition.

General Rules & Regulations

1. Dress Code

All students should wear ID cards issued by college as per the respective year of study. 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, Leggins & Sleeveless tops are not allowed. Finger nails must be clean & short to allow proper grasp of instruments. Gold ornaments, Bracelets & rings are not allowed. Formal, Trousers and shoes should be worn by the boys. Hair should be trimmed properly and face should be clean shaved or facial hair should be trimmed properly. Girls hair to be pinned and braided properly. Students are strictly advised to adhere to the rules and regulations that will be monitored by the and appropriate action will be taken for those who are not complying with the college regulations.

2. Safety Code

Long hair must be tied and put back for safety measures. Wear face mask in clinical session as & when required. 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. Phones & Two Wheelers

The use of Mobile phones is strictly forbidden during the learning hours in lectures, clinical posting and laboratories. In case of emergency, parents / guardians are requested to use college communications. Any student, not abiding by this protocol will face severe disciplinary action. Mobile phones will be allowed in college only for academic purpose with prior approval of staffs. Unwanted download or usage of institutional WiFi is strictly prohibited. If unethical use of mobile phones are found, fine amount will be levied towards "The poor patient fund". Two wheelers are banned and college is not responsible for any eventuality.

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 Anti Ragging Committee. Clisplayed at College.

6. Any Damage, Misuse Of College Property Shall Warrant Disciplinary Action.

7. Leave application

- Students availing leave should take prior permission except under medical/emergency reasons.
- Students availing prior leave should first take permission from the respective department staff in-charge of that day timetable .i.e., Clinical posting / Theory / Practical class of all the department which he/she is supposed to attend on that particular day.
- Then after permission from the department staff in-charges, he/she has to inform their mentor and then to their academic coordinator through WhatsApp as message or photocopy of their leave form approved by respective department staff in-charges

- Students availing leave because of medical reason/emergency has to submit a written leave letter through his/her batch mate or a mail informing of the leave on the same day to their respective department staff in-charge / Dean and forward the screenshot / image / scanned copy of the leave letter to his/her Mentor and Academic coordinator through official mail ID.
- In case of medical leave, copy of your medical report should be submitted to respective department at the time of entry after approval from Dean.
- Any leave taken without prior communication will not be considered as leave and marked as absent.

8. Attendance

A minimum of 75% attendance in theory and 75% in practical/clinical in all subjects in each year is mandatory for appearing in the university examinations. In case of a subject in which there is no examination at the end of the academic year/semester, the percentage of attendance shall not be less than 70%. The work quota of that subject has to be completed before entering into the subsequent year. However, at the time of appearing for the professional examination in the subject, the aggregate percentage of attendance in the subject should satisfy above condition. A quarterly report of each student will be noted, from the departments & parents / guardians, duly intimated. Candidates who are found to be irregular & held for any misconduct shall not be permitted to appear for university examinations.

9. Lost record books

In case of lost record books it has to be duly approved & attested by the concerned Head of the department and Head of the Institution for duplication of records.

10. Term Fees / Hostel fees

Students are strictly advised to pay their prescribed fee on the stipulated date without fail.

11. Grievances

Any grievances can be brought to the notice of the Students Grievance Redressal Committee. For further details of Grievance Redressal Committee see link: https://www.vinayakamission.com/Grievance-Redressal.php

12. Confidential Suggestion Box

The suggestions / complaints / feedback can be deposited in the form of a written letter / email addressed to the Dean. The suggestion box is placed in first floor near Dean's office / Women's common room/Men's common room/First floor of Library . The box will only be accessed by the Dean in the presence of Grievance Commitee Head .

Dean Mail ID: dean@vmsdc.edu.in

13. Social Media Policy

The VMSDC Social Media policy applies to all employees and students of the college. Comments and posts damaging the welfare of the institution will be taken up seriously by the concerned authorities. Therefore avoid the misuse of social media and any issues can be discussed directly with the Head of the Institution or by using the suggestion box or online feedback, that is being practiced for the betterment for the institution.

14.Code of Conduct

Kindly refer https://vmrfdu.edu.in/code_of_conduct.php for the Rules & Regulations for the code of conduct for Vinayaka Mission's Sankarachariyar Dental College - Students of Vinayaka Mission's Research Foundation – Deemed to be University (VMRF-DU)

Facilities

VMSDC has good infrastructure with a total of 9 specialities & comprehensive dental clinic fulfilling the basic requirements of the council. It also has a central research laboratory including immunohistochemistry, chrom cobalt lab, ceramic lab, hematology lab & histopathology lab. All of them are well equipped & have trained technicians. For students to get training before entering clinicals we have a separate pre-clinical prosthodontics, pre-clinical conservative lab and simulation lab where they can improve their hand skills before treating the patients.

For basic sciences & medical science subjects in I, II & III year, students have to attend both theory & practical classes (as per the time table provided) in Vinayaka Mission's Kirupanandavariyar Medical college & hospital. Bus transportation will be provided by the college on those days as per the scheduled time.

Research:

At VMSDC Research & Innovation are an integral part of curriculum and training. Students are encouraged to do Research by granting seed money for selected project.

Co-Curricular Activities:

Students are encouraged to participate in various paper, poster, table clinic and Quiz competitions in Conferences/Symposium at their own expense after presenting and getting approved by the Students Conference committee existing at VMSDC.

Library:

The central library is spread over 9303sq.ft. The Library was well equipped with the latest books and journals. The library has 7977 books, 13 National & 11 International journals, 1251 E-Books & 700 E-journals. Our institution is registered in National Digital Library.

Central Library is using Koha software for Library automation and has implemented RFID technology, with OPAC (Online Public Access Catalogue), and online renewal facility. Biometric based E-Gate Register used in the library. Books circulation is managed by Biometric and RFID Technology by staff and students. All the books are tagged with RFID & the RFID scanners are used for books transaction. Digital library section is available for students to use computers with internet facility and fire wall protection.

Library is accommodated in two floors. In the ground floor, sections available for Book Circulation, Basic science books, rare books, books for Higher Education, Magazines, and Dissertations are made available. In the First Floor Journals, Back volume Journals, Clinical science books, and Reference books are available with Digital Library section and Discussion area.

Library Hours: 8.30 am to 6.00 pm Services:

- Biometric E- Gate Register.
- Biometric Based circulation (Issue, Return and Renewal).
- Digital Library
- Computing Facility
- Wi-fi Facility
- Question Bank
- OPAC
- Reprography Service

Best Practices:

- Best Library user Awards for Students.
- Library Orientation Program
- Exhibitions
- New Arrivals Display
- Reminders for Overdue books (E-mail alerts)

Rules & Regulations:

- Personal belongings are not permitted inside the libraries; Users must keep their belongings at the property counter in the Entrance.
- Enter your finger print in the biometric register kept at the entrance before entering and leaving the library.
- Mobile phones and other devices should be in silent mode.
- Library books should be handled with utmost care. Marking or any kind of scribbling on pages or folding of page is strictly prohibited.
- In case of loss of any book, the borrower has to replace the same Edition of the book.
- Reference books, journals, back volumes, Thesis will not be issued to any users.
- Laptops may be used inside the libraries (without any audio).
- Users are allowed to take photocopies of the required articles in the reprography section.
- Photocopying of full book is not permitted due to copyright issues.
- While accessing the E-resources of the library, proper entries are to be made in the records of the Library. Downloading the information is also permitted.
- Hostel Timing: Students should report back to Hostel before 8.00 pm
- Hostellers leaving the hostel should take prior permission from department staff in-charges, Mentor, Academic coordinator, Hostel incharge staff, he/she has to get final approval from the HOI office. This leave form with above said faculty signatures needs to be submitted to the warden before leaving the hostel.
- Hostellers leaving the hostel for emergency reasons after college hours should ask their parent to get permission from the hostel warden either in person or by phone along with permission letter for college leave mentioning the days and also to leave the hostel, which can be sent by mail to the Hostel warden, Hostel incharge staff and the Head of the Institution. The same mail communication copy has to be forwarded by the student or his/her friend to the respective Department staff in-charges, Mentor and the Academic coordinator by Whats App/Mail/hardcopy.
- Students who are staying outside the hostel as well day scholars have to submit a No objection letter from their parent stating that the parents are responsible for the overall welfare of their wards and for problems arising outside the college premises.
- Students who wish to live in hostel under any circumstances for overnight stay should get prior permission from respective year academic coordinator & Dean and the permission letter to be submitted to the warden.

Useful Links:

E-Journals: https://dvldental.com/ E-Books: https://dental-library.com NDLI: https://ndl.iitkgp.ac.int

Extra-Curricular Activities:

The college has active National Service Scheme (NSS) and Red Ribbon Club (RRC) doing numerous social activities to help the society in and around the rural parts of Salem. The students are encouraged to be a part of these club's right from first year.

Mentoring Activities:

There is an effective Mentor-Mentee system in the function of our college, where every student is allotted a faculty (Mentor) in the first year itself and asked to monitor the overall academic, social and emotional well-being of the student (Mentee). The parents also can keep in touch with the Mentors to know about their wards performance throughout the year.

Sports & Culturals:

Our college is having an excellent indoor and outdoor sports facilities. A well qualified physical trainer is available full time to train the students in the evenings. We encourage our students to participate in the sports and cultural shows without affecting their academic activities.

Hostel:

Hostel for Boys & Girls are available along with Medical Hostel. Details pertaining to hostel and associated facilities parents can approach the hostel warden.

Examination Scheme

The VMRF DU Examinations shall be held at the end of every Academic year in the month of August and February. Results can be viewed at: www.vinayakamissions.com.

Any student who does not clear the BDS Course in all the subjects within a period of 9 years, including one year Compulsory Rotatory paid Internship from the date of admission shall be discharged from the course. (REVISED BDS DEGREE COURSE (7 AMENDMENT) REGULATIONS 2015)

Rules of examination:

Students are eligible to appear for university exams only if they have 75% of attendance in both theory & Practical and should have completed their preclinical / Clinical record work & Quota to be fulfilled for that year.

Students have to mandatorily appear for all class test & Internal examinations. Both Theory & Practical Internal examinations will be conducted minimum 3 per year including 1 model examination conducted prior to study holidays. If the student is unable to write the examinations then the re-examintions shall be conducted based on the recommendations of HOD & HOI.

An aggregate of three internal examinations will be calculated separately for Theory & Practicals and will be provided as Theory & Practical Internal Marks for Final University Examinations. Marks obtained for viva voce (for 20 marks) conducted during the university practical examination will be added to their University Theory marks. The written examination in each subject consist of one paper of three hours duration and have maximum marks of 70 including 20 marks of multiple choice questions.

A student (passed/failed) who appeared in an Examination is eligible for retotaling on payment of prescribed fee.

A student who has failed in practical Examination is not eligible to apply for retotaling.

Pass Criteria:

Fifty percent of the total marks in any subject computed as aggregate for Theory i.e. written, viva voce and internal assessment and Practicals including internal assessment, separately is essential for a pass in all years of study. For declaration of pass in a subject, candidate should secure 50% marks in the university examination both in Theory and Practical / Clinical examination separately, as stipulated below.

A candidate should secure 50% in aggregate in university Theory including viva voce and internal assessment obtained in University written Examination combined together.

In the University Practical / Clinical examination, a candidate should secure 50% of University practical marks and internal assessment combined together.

Break Students:

Students failing in more than two subjects (except Environmental studies) will be considered as break in the course of 6 months duration and should attend the theory / practicals / internal assessment without fail. Deficiency in attendance will debar the students from attending the subsequent examinations.

Carry Over Students:

Failing in one subject will be considered to have carry over subject and should clear the paper in Subsequent examination before appearing for the next year exam.

The carry-over students should appear for the internal assessment examination as & when instructed by that department.

General Rules Of Examination

- Hall tickets for exams will be issued only upon producing the No Objection Certificate [NOC] from both academic & administration section.
- Candidates will be allowed inside the examination hall fifteen minutes before the commencement of examination only. No candidate will be allowed to enter the hall after ½ hour of commencement of the examination.
- Candidates should bring the identification card and hall ticket during university examination.
- Candidates are not allowed to leave the examination hall until 2.30 hrs has elapsed from the commencement of the examination. Thereafter, the candidate will only be permitted to leave after submission of answer booklet.
- Candidates are not allowed to bring along book or other written or printed material or blank papers or information in any form into the examination hall.
- Students should wear clothes with half sleeves as long sleeves are not permitted. Hair should be tied properly .
- Electronic pens & watches are not allowed.
- All bags and books must be kept in a quarantine area.
- Mobile phones and electronic devices must be switched off and handed over to the invigilator
 at the beginning of the examination. If found with any device, action will be taken based on the
 guidelines of university.
- Only blue/black ball point pen and graphite pencils are allowed.
- No pencil pouches permitted into examination halls for theory.
- No colouring or highlighting or using correction ink/liquid paper in the answer scripts.
- Histopathological/microscopic picture to be drawn using Hematoxylin & Eosin (H&E) pencils only.
- No writing on the question paper.
- Multiple choice questions (MCQ) must be answered separately in answer sheet provided for MCQ's. Any correction done in the answer must be signed by the invigilator.
- Candidates found copying or communicating with one another will be handed over to the Chief Superintendant for further action to be taken.
- Candidates are not allowed to continue writing or add anything to the answer booklet after the invigilator has announced the end of the examination.
- Any misconduct will be dealt as per the University Norms.

VMSDC follows a strict student code of conduct for examination, any form of fraud/ copying/ infringement of examination rules may lead to severe disciplinary action amounting to cancellation of the candidature in all subjects for university examination and/or disqualification from the degree program.

Method Of Internal Assessment

| Method Of Assessments | Details | Marks with Percentage |
|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| 1. Formative assessment Minimum of two (2) unit test & 2 competency / clinical test should be conducted | | No marks (Only Remarks) Provides Only feedback for improvement |
| 2. Internal assessment | Theory internal - 10marks Practical internal -10 marks | 20 (10%) |
| 3.Summative assessment a)Professional examination | Theory: • MCQ'S - 20 marks • SAQ'S - 30 marks • LAQ'S - 20 marks Viva voce - 20 marks | 90 (45%) |
| | Clinical /Practical | 90 (45%) |
| | Total marks | 200 |

Continuous (Internal) assessment (Total Marks -20) Theory internal -10 mark's distribution

| Criteria | Details | Marks |
|---------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Exam 2 terminal test &1 Model exam (Average of will be considered & more weightage for mode exam marks) | | 10 |
| Clinical /Practical skills | Average of Three (3) Practical /Clinical Assessment test. While assessing clinical skills, the following parameters of soft skill should be considered. (Weightage of each parameter based on the individual dept. preference.) | 10 |
| | Communication skills Critical thinking & problem solving skills Team work Lifelong learning &information management Professional ethics & moral Leadership skills | 90 (45%) |

a) Formative Assessment

Mainly to improve the educational methods &student feedback throughout the teaching & learning process.

b) Summative Assessment

Typically used to evaluate the effectiveness of Educational Programs and services at the end of an academic year or at a pre - determined time.

Summative internal assessments will be complemented by formative assessments and shall consist of such written, clinical, practical (laboratory) and oral assessments, either singly or as part of a group, as the Faculty requires.

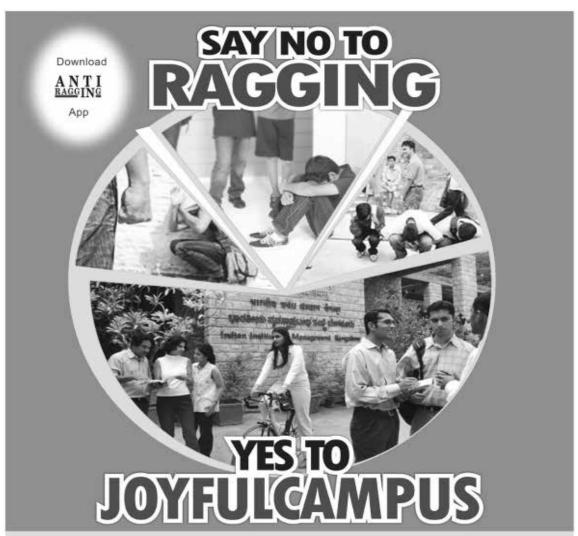
Anti - Ragging

Ragging constitutes one or more of any of the following acts:

- any conduct by any student or students whether by words spoken or written or by an act which has the effect of teasing, treating or handling with rudeness a fresher or any other student;
- indulging in rowdy or indisciplined activities by any student or students which causes or is likely to cause annoyance, hardship, physical or psychological harm or to raise fear or apprehension thereof in any fresher or any other student;
- asking any student to do any act which such student will not in the ordinary course do and which has the effect of causing or generating a sense of shame, or torment or embarrassment so as to adversely affect the physique or psyche of such fresher or any other student;
- any act by a senior student that prevents, disrupts or disturbs the regular academic activity of any other student or a fresher;
- exploiting the services of a fresher or any other student for completing the academic tasks assigned to an individual or a group of students.
- any act of financial extortion or forceful expenditure burden put on a fresher or any other student by students;
- any act of physical abuse including all variants of it: sexual abuse, homosexual assaults, stripping, forcing obscene and lewd acts, gestures, causing bodily harm or any other danger to health or person;
- any act or abuse by spoken words, emails, post, public insults which would also include deriving
 perverted pleasure, vicarious or sadistic thrill from actively or passively participating in the
 discomfiture to fresher or any other student;
- any act that affects the mental health and self-confidence of a fresher or any other student with or without an intent to derive a sadistic pleasure or showing off power, authority or superiority by a student over any fresher or any other student.
- Any act of physical or mental abuse (including bullying and exclusion) targeted at another student (fresher or otherwise) on the ground of colour, race, religion, caste, ethnicity, gender (including transgender), sexual orientation, appearance, nationality, regional origins, linguistic identity, place of birth, place of residence or economic background.

Anti - Ragging

Ragging in any form is banned inside and outside the college premises.



What is Ragging?

Any Act Resulting in:

- Mental/physical/sexual Abuse
- Verbal Abuse
- Indecent Behaviour
- · Criminal Intimidation/wrongful Restraint
- Undermining Human Dignity
- · Financial Exploitation/extortion
- Use Of Force

A STUDENT INDULGING IN RAGGING CAN BE:

- · Cancellation of admission.
- Suspension from attending classes.
- Withholding/withdrawing Scholarship/Fellowship and other benefits.
- Debarring from appearing in any test/ examination or other evaluation process.
- · Withholding results.
- Debarring from representing the institution in any regional, national or international meet, tournament or youth festival etc.
- Collective punishment: when the persons committing or abetting the crime of ragging are not identified the institution shall resort to collective punishment as a deterrent to ensure community pressure on potential ragger.



Immediately call
UGC Anti-Ragging Helpline
1800-180-5522 (24X7 toll free)
or send an e-mail to helpline@antiragging.in



DEPARTMENT OF HIGHER EDUCATION MINISTRY OF HUMAN RESOURCE DEVELOPMENT GOVERNMENT OF INDIA



विश्वविद्यालय अनुदान आयोग University Grants Commission quality higher education for all

Anti - Ragging Committee

| Name | Designation | Department | Mobile No. | |
|-----------------------------|--------------------------------|--------------------------------------|------------|--|
| Dr. S. Sunantha | Coordinator & Record Keeper | Prosthodontics and Crown & Bridge | 9994066144 | |
| Dr. N. Saravanan | Member | Public Health Dentistry | 9442262950 | |
| Dr. Saramma Mathew Fenn | Member | Oral Medicine & Radiology | 8754569193 | |
| Dr. C. Suresh | Member | Oral & Maxillofacial Surgery | 9487630871 | |
| Dr.S.Ashna | Member | Prosthodontics | 9843693385 | |
| Saranrakav | Student Member | | 7708681577 | |
| Sampreetha.K | Student Member | | 6385725788 | |
| Mr. N. Vijayasarathi | St | Student Member | | |
| Ms. S. P. Kamali | St | Student Member | | |
| Mr. A. K. Varadharajan | Non-Teaching Staff Member | | 9787388309 | |
| Mr. I. Sapnath Panea Ray | Non-Tea | aching Staff Member | 9245478556 | |

Kind Attention To Students Beware Of Ragging

A Student indulging in Ragging can be PUNISHED by:

- CANCELLATION OF ADMISSION.
- Suspension from attending classes.
- Withholding / withdrawing Scholarship / Fellowship & other benefits.
- DEBARRING from appearing in any test / examination or other evaluation process.

Anti Ragging Squad

| Name | Designation | Department | Mobile No. |
|---------------------------|-------------|----------------------------------------|------------|
| Dr.Sunantha.S | Member | Prosthodontics and Crown & bridge | 9994066144 |
| Dr.M.Assmee | Member | Conservative Dentistry and Endodontics | 9789146075 |
| Dr.D.V.Bhuvanesh Kumar | Member | Prosthodontics and Crown & Bridge | 9944422297 |
| Dr.M.Subhashini | Member | Conservative Dentistry and Endodontics | 9994392006 |
| Dr.Mohammed Adil | Member | Periodontology | 7010374054 |
| Dr.Pavithran | Member | Oral & Maxillofacial Surgery | 8667720806 |
| Dr.Shanthi | Member | Prosthodontics and Crown & bridge | 9384215228 |
| Dr.Saradha | Member | Periodontology | 9494046417 |
| Mr.R.Natarajan | | Member | 9843044140 |
| Mr.E.Prabhu | | Member | 9677410412 |
| Mr.S.Rajendran | | Member | 8883078595 |
| Mr.R.Chandran | | Member | 9360676466 |
| Mr.R.Ravi | | Member | 9500597046 |

⁻ Students can contact any member of the squad in case of emergency.

Highly confidential:-The Complainant will be protected at any cost

- Withholding results.
- Debarring from representing the institution in any Regional, National or International meet, tournament or Youth festival etc.,
- COLLECTIVE PUNISHMENT: When the persons committing or abetting the crime of ragging are not identified the Institution shall resort to collective punishment as a deterrent to ensure community pressure on potential ragger.

Code of Conduct Monitoring Committee

| Name | Designation | Department | Mobile No. |
|--------------------------------|--------------------------------|--------------------------------------|------------|
| Dr. J.Baby John | Chairperson | Professor & Dean | 9842753645 |
| Dr. Yadav Chakravarthy | Convener – Boys | Conservative Dentistry & Endodontics | 8072404507 |
| Dr. Bindu Kamaraj | Convener – Girls | Prosthodontics and Crown & Bridge | 9176777876 |
| AN [*] | TI RAGGING COMMI | TTEE (Details in Pg. No. 16,17) | |
| Dr. S. Sunantha | Coordinator & Record Keeper | Prosthodontics and Crown & Bridge | 9994066144 |
| | GRIEVANCE | REDRESSAL CELL | |
| Dr. Bindu Kamaraj | Coordinator & Record Keeper | Prosthodontics and Crown & Bridge | 9176777876 |
| Dr. R. Saranyan | Member | Periodontology | 9942093071 |
| Dr. J. Arunkumar | Member | Oral & Maxillofacial Surgery | 9443273347 |
| Mrs.J.Sudhishna | Senior exe | Senior executive hospital admin | |
| Miss.Mahmudha Rila M | Student Member | | 9361473112 |
| IN | ITERNAL COMPLAIN | TS CELL (Sexual Harassment) | |
| Dr. Vyapaka Pallavi | Presiding Officer | Conservative Dentistry & Endodontics | 9655465438 |
| Dr. A. Pavithran | Member | Oral & Maxillofacial Surgery | 8667720806 |
| Dr. Shantham Krishnamoorthy | Member | Paediatric & Preventive Dentistry | 9790228237 |
| Mrs. J. Sudhishna | | Member | 9994619822 |
| Miss. P. Parimala Jothi | | Member | 6381770025 |
| Mr. Prem Amirtharaj | Ex | External Member | |
| Miss. Logeshwari | St | udent Member | 9344574264 |
| Miss. Christeena Benny | St | udent Member | 8281939562 |
| Mr. Vijayasarathi | St | udent Member | 8973689276 |

Class Monitoring & Feedback Cell

| Name | Designation | Department | Mobile No. |
|----------------------------|--------------------------------|--------------------------------------|------------|
| Dr. J. Baby John | Chairperson | Professor & Dean | 9842753645 |
| Dr. Saramma Mathew Fenn | Coordinator & Record Keeper | Oral Medicine & Radiology | 8754569193 |
| Dr. T. Mercy Vinolia | Member | Paediatric & Preventive Dentistry | 9003625744 |
| Dr. A. Aarthee | Member | Oral & Maxillofacial Surgery | 7598171088 |
| Dr. Madhushriee | Member | Periodontology | 9740575508 |

Mentor Committee

| Name | Designation | Department | Mobile No. |
|-------------------------------|--------------------------------|-----------------------------------------|------------|
| Dr. J. Baby John | Chairperson | Professor & Dean | 9842753645 |
| Dr. Vyapaka Pallavi | Coordinator & Record Keeper | Conservative Dentistry & Endodontics | 9655465438 |
| Dr. Vanitha D Revankar | PG Mentor | Conservative Dentistry & Endodontics | 8122092727 |
| Dr. Diana Prem | CRI Mentor | Oral Pathology and Oral Microbiology | 9740575508 |
| Dr. Anitha A | Final Year Mentor | Periodontology | 6379448862 |
| Dr. Madhusree | Third Year Mentor | Periodontology | 9483544607 |
| Dr. Ambika M | Second Year Mentor | Oral Pathology and Oral Microbiology | 9444365461 |
| Dr. Indra Priyadharshini K | First Year Mentor | Oral Pathology and Oral Microbiology | 9894105232 |

Library Advisory Committee

| Name | Designation | Department | Mobile No. |
|-----------------------------------|--------------------------------|--------------------------------------------|------------|
| Dr. J. Baby John | Chairperson | Professor & Dean | 9842753645 |
| Dr. M. Ambika | Coordinator & Record Keeper | Oral Pathology and Oral Microbiology | 9444365461 |
| Dr. Sucratha Susie John | Representative | Oral & Maxillofacial Surgery | 7306781299 |
| Dr. A Kumar | Representative | Oral Medicine & Radiology | 9787144666 |
| Dr. Prasanta Majumder | Representative | Public Health Dentistry | 8431270501 |
| Dr. Mithunraja. S | Representative | Conservative Dentistry and Endodontics | 9942099519 |
| Dr. R. Pradeep Daniel Gainneos | Representative | Paediatric & Preventive Dentistry | 9952723311 |
| Dr. Mohamed Adhil | Representative | Periodontology | 7010374054 |
| Dr. Kasarla Himaja | Representative | Prosthodontics and Crown & Bridge | 9959031504 |
| Dr. A. Udhayan | Representative | Orthodontics & Dentofacial Orthopaedics | 9865224533 |
| Dr. Ramya C.V | Student UG Member | | 9597438668 |
| Dr. Nandhinidevi. G | Student PG Member | | 8072231886 |
| Mrs. Kokila | | Librarian | 9944718094 |

Institutional Research Committee

| Name | Designation | Department | Mobile No. |
|------------------------------|--------------------------------|------------------------------------------|------------|
| Dr. J. Baby John | Chairperson | Professor & Dean | 9842753645 |
| Dr. Reena Rachel John | Convener | Associate Dean - Research | 9443118756 |
| Dr. Mathew Jacob | Coordinator & Record Keeper | Oral Pathology and Oral Microbiology | 8754569194 |
| Dr. R. Saranyan | Member | Periodontology | 9942093071 |
| Dr. G.V.Ramachandra Reddy | Member | Oral Medicine and Radiology | 9844065968 |
| Dr. J. Arunkumar | Member | Oral & Maxillofacial Surgery | 9443273347 |
| Dr. Yadav Chakravarthy | Member | Conservative Dentistry and Endodontics | 9488156929 |
| Dr. Prabhakar Krishnan | Member | Orthodontics and Dentofacial Orthopedics | 9843688271 |
| Dr.Veena Arali | Member | Paediatric & Preventive Dentistry | 9535444112 |
| Dr. R. Ramesh | Member | Prosthodontics and Crown & Bridge | 9443155211 |
| Dr. N. Saravanan | Member | Public Health Dentistry | 9442262950 |
| Dr. Maya Ramesh | Member | Oral Pathology and Oral Microbiology | 9600918804 |

National Service Scheme Cell & Red Ribbon Committee

| Name | Designation | Department | Mobile No. |
|--------------------|-------------------|---------------------------------------------|------------|
| Dr. C. Bharath | Coordinator (NSS) | Public Health Dentistry | 8946035788 |
| Dr. A. Pavithran | Member | Oral & Maxillofacial Surgery | 8667720806 |
| Dr. Dhanalakshmi | Member | Prosthodontics and Crown & Bridge | 9791944160 |
| Dr. C. Manoj | Coordinator (RRC) | Oral & Maxillofacial Surgery | 9894592638 |
| Dr. S. Karthikraja | Member | Orthodontics and Dentofacial Orthopedics | 7708535296 |
| Dr. B. S. Nandhini | Member | Paediatric & Preventive Dentistry | 9677750616 |

Student Support Committee

| Name | Designation | Department | Mobile No. |
|------------------------|----------------------------------------|---------------------------------------------|------------|
| Dr. J. Baby John | Chairperson | Professor & Dean | 9842753645 |
| Dr. D. Jayachandran | Convener | Periodontology | 7708225522 |
| Dr. D. Jayachandran | Students' Council - Faculty Advisor | Periodontology | 7708225522 |
| Dr. G.V. Ajith | Fine Arts Club - Faculty Advisor | Orthodontics and Dentofacial Orthopedics | 8098585233 |
| Dr. S. Karthikraja | Sports Club – Faculty Advisor | Orthodontics and Dentofacial Orthopedics | 7708535296 |
| Dr. G.V. Ajith | College Magazine – Faculty Advisor | Orthodontics and Dentofacial Orthopedics | 8098585233 |
| Dr. Kasarla Himaja | Member | Prosthodontics and Crown & Bridge | 9959031509 |
| Dr. T. Mercy Vinolia | Member | Paediatric & Preventive Dentistry | 7829275353 |
| Dr. P. I. Nainan | Member | Oral & Maxillofacial Surgery | 9500235245 |
| Dr. Dinesh Dharshan. S | Member | Conservative Dentistry and Endodontics | 8883078595 |
| Mr. S. Rajendran | Physica | al Education Teacher | 8883078595 |

VMSDC Media Committee

| Name | Designation | Department | Mobile No. |
|------------------------------|-----------------------------------|-----------------------------------------|------------|
| Dr. J. Baby John | Chairperson | Professor & Dean | 9842753645 |
| Dr. A. Narendran | Web upgradation in charge | Oral & Maxillofacial Surgery | 9940748600 |
| Dr. Maya Ramesh | Social media update in charge | Oral Pathology and Oral Microbiology | 9600918804 |
| Dr . Shantamkrishnamoorty | News Letter – Editor | Paediatric & Preventive Dentistry | 9790228237 |
| Dr. J. Shantha Ruban | News Letter – Associate Editor | Conservative Dentistry and Endodontics | 9952163866 |

Institutional Innovation Cell

| Name | Designation | Department | Mobile No. |
|-------------------------|-------------------------------------------------------|-----------------------------------------|------------|
| Dr Reena Rachel John | Asst. Dean Research / Advisor | Oral & Maxillofacial Surgery | 9443118756 |
| Dr G Raj Kumar | President | Prosthodontics & Crown and Bridge | 9443285888 |
| Dr Sabitha Gokul Raj | Vice President | Oral Medicine & Radiology | 7708225522 |
| Dr Divya Krishnamoorthi | Convenor | Prosthodontics & Crown and Bridge | 9150299824 |
| Dr Indrapriyadarshini | ARIIA Coordinator | Oral Pathology & Oral Microbiology | 9840706554 |
| Dr Saravanan N | NIRF & NISP Coordinator | Public Health Dentistry | 9894105232 |
| Dr Vanitha D | IPR Coordinator | Conservative & Endodontics | 9442262950 |
| Dr Ajith GV | Startup & Entrepreneurship activity Coordinator | Orthodontics & Dentofacial Orthopaedics | 8122092727 |
| Dr John Paul | Incubation activity Coordinator | Prosthodontics & Crown and Bridge | 8098585233 |
| Dr Kumar A | Social Media Coordinator | Oral Medicine & Radiology | 8883670136 |
| Dr Shanthakumari | IIC Activity Coordinator | Public Health Dentistry | 9787144666 |
| Dr Jayachandran | Student Coordinator | Periodontology | 9443420681 |
| Dr Shanthi | Member | Prosthodontics & Crown and Bridge | 9384215228 |
| Dr Mercy | EDTN Coordinator | Paediatric & Preventive Dentistry | 9003625744 |

Student Conference Committee

| Name | Designation | Department | Mobile No. |
|-------------------------|--------------|---------------------------------------|------------|
| Dr J Baby John | Chair Person | Professor & Dean | 9842753645 |
| Dr Mano Vijay | Coordinator | Periodontology | 9952716937 |
| Dr Saranyan R | Core Member | Periodontology | 9842748071 |
| Dr Sekar B | Core Member | Oral Pathology & Oral Microbiology | 9976840554 |
| Dr Jayachandran | Core Member | Periodontology | 7708225522 |
| Dr Sabitha Gokul Raj | Core Member | Oral Medicine & Radiology | 9150299824 |
| Dr Divya Krishnamoorthi | Core Member | Prosthodontics & Crown and Bridge | 9840706554 |

Tentative Academic Calendar

| Date Day Event SEP 2023 | | | |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--|
| | | SEP 2023 | |
| 11.09.2023 | Monday | I Year BDS Commences | |
| 12.09.2023 | Tuesday | DEEKSHARAMBH - Student Induction Program | |
| 18.09.2023 | Monday | Vinayakar Chathurthi - Holiday | |
| 19.09.2023 | Wednesday | White Coat Ceremony | |
| 23.09.2023 | Saturday | Fourth Saturday Holiday | |
| | | OCT 2023 | |
| 02.10.2023 | Monday | Gandhi Jayanthi - Holiday | |
| 14.10.2023 | Saturday | Second Saturday - Holiday | |
| 23.10.2023 | OCT 2023 2.10.2023 Monday Gandhi Jayanthi - Holiday 3.10.2023 Saturday Second Saturday - Holiday 3.10.2023 Monday Ayutha Pooja - Holiday | | |
| 24.10.2023 | Tuesday | Vijaya Dasami - Holiday | |
| 28.10.2023 | Saturday | Fourth Saturday Holiday | |
| | | NOV 2023 | |
| 11.11.2023 | Saturday | Second Saturday Holiday | |
| 12.11.2023 | Sunday | Deepavali | |
| 25.11.2023 | Saturday | Fourth Saturday Holiday | |
| | | DEC 2023 | |
| 01.12.2023 | Friday | I Internal Assessment General anatomy | |
| 02.12.2023 | Saturday | I Internal Assessement Physiology & Biochemistry | |
| 07.12.2023 | Thursday | I Internal Assessement Dental Anatomy | |
| 09.12.2023 | Saturday | Second Saturday holiday | |
| 23.12.2023 | Saturday | Winter vacation starts I BDS | |
| | | JAN 2024 | |
| 02.01.2024 12.01.2024 | Tuesday Friday | College Reopens Problem Based Learning Session 1 | |
| 13.01.2024 | Saturday | Second Saturday Holiday | |
| 15.01.2024 | Monday | Pongal holiday | |
| 16.01.2024 | Tuesday | Thiruvalluvar Day | |
| 17.01.2024 | Wednesday | Uzhavar Thirunal - Holiday | |
| 25.01.2024 | Thursday | Problem Based Learning Session 2 | |
| 26.01.2024 | Friday | Republic day - Holiday | |
| 27.01.2024 | Saturday | Fourth Saturday Holiday | |
| | | FEB 2024 | |
| 03.02.2024 | Saturday | Parents Teachers Meeting | |
| 10.02.2024 | Saturday | Second Saturday | |
| 24.02.2024 | Saturday | Fourth Saturday Holiday | |

| Date | Day | Event |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------|
| | | MARCH 2024 |
| 07.03.2024 | Thursday | II Internal Assessement General Anatomy |
| 08.03.2024 | Friday | II Internal Assessement Physiology & Biochemistry |
| 09.03.2024 | Saturday | Second Saturday |
| 15.03.2024 | Friday | II Internal Assessement Dental Anatomy |
| 16.03.2024 | Saturday | II Internal Assessement Environmental Studies |
| 23.03.2024 | Saturday | Fourth Saturday Holiday |
| 29.03.2024 | Friday | Good Friday - Holiday |
| | | APRIL 2024 |
| 10.04.2024 | Wednesday | Ramzan Holiday |
| APRIL 2024 | | Second Saturday |
| APRIL 2024 10.04.2024 Wednesday Ramzan Holiday 13.04.2024 Saturday Second Saturday 14.04.2024 Sunday Tamil new year 27.04.2024 Saturday Fourth Saturday Holiday | | Tamil new year |
| 27.04.2024 | Saturday | Fourth Saturday Holiday |
| | | MAY 2024 |
| 01.05.2024 | Wednesday | May day - Holiday |
| 11.05.2024 | Saturday | Second Saturday |
| 18.05.2024 | Saturday | Summer Vacation Begins - Main Batch |
| | | JUNE 2024 |
| 03.06.2024 | Monday | College Reopens |
| 08.06.2024 | Saturday | Second Saturday |
| 17.06.2024 | Monday | Bakrid Holiday |
| 21.06.2024 | Friday | Model Exam General Anatomy |
| 22.06.2024 | Saturday | Fourth Saturday Holiday |
| 27.06.2024 | Thursday | Model Exam Physiology and Biochemistry |
| 28.06.2024 | Friday | Model Exam Dental Anatomy |
| 29.06.2024 | Saturday | Model Exam Environmental Studies |
| | | JULY 2024 |
| 13.07.2024 | Saturday | Second Saturday Holiday |
| 27.07.2024 | Saturday | Fourth Saturday Holiday |
| | | AUG 2024 |
| 17.08.2024 | Saturday | Study holiday begins |
| 27.08.2024 | Tuesday | University exam starts tentatively |
| | August 2024 - U | Iniversity Exam Begins (2023-2024 Batch) |

Practical / Clinical Examination will commence within a week after completion of theory examination

Note: *2nd and 4th Saturdays of every month are holidays *- subject to change according to the situation.

Tentative Examination Schedule (2023 – 2024 Main Batch)

| Subject | I Internal Examination | II Internal Examination | Model Examination | University Theory Examination |
|-------------------------------------------------------------------|---------------------------|----------------------------|----------------------|--------------------------------------------------------------------|
| General Human Anatomy including Embryology and Histology | 01.12.2023 | 07.03.2024 | 21.06.2024 | |
| General Human Physiology and Biochemistry, Nutrition and Diettics | 02.12.2023 | 08.03.2024 | 27.06.2024 | Theory exam commences tentatively |
| Dental Anatomy, Embryology and Oral Histology | 07.12.2023 | 15.03.2024 | 28.06.2024 | on August 2024 Tottowed by University practical examinations |
| Environmental studies | • | 16.03.2024 | 29.06.2024 | |

^{*}Practical / Clinical examinations will commence within a week after completion of theory examinations

Tentative University Examination Schedule (2023 -2024)

| Subject | Model Examination | University Theory Examination |
|-------------------------------------------------------------------|----------------------|--------------------------------------------------------------------|
| General Human Anatomy including Embryology and Histology | 27.08.2024 | |
| General Human Physiology and Biochemistry, Nutrition and Diettics | 29.08.2024 | Theory exam commences tentatively on 2nd week of |
| Dental Anatomy, Embryology and Oral Histology | 31.08.2024 | September 2024 rottowed by University practical examinations |
| Environmental studies | 03.09.2024 | |

BDS Curriculum

BDS Curriculum is available in VMSDC website and is subject to change from time to time based on council norms.

Subjects Of Study

First Year

- i) General Human Anatomy including Embryology and Histology
- ii) General Human Physiology and Biochemistry, Nutrition and Diettics
- iii) Dental Anatomy, Embryology and Oral Histology
- iv) Dental Materials
- v) Pre-clinical Prosthodontics and Crown & Bridge

Second Year

- i) General Pathology and Microbiology
- ii) General and Dental Pharmacology and Therapeutics
- iii) Dental Materials
- iv) Pre clinical Conservative Dentistry
- v) Pre clinical Prosthodontics and Crown & Bridge
- vi) Oral Pathology & Oral Microbiology

Third Year

- i) General Medicine
- ii) General Surgery
- iii) Oral Pathology and Oral Microbiology
- iv) Dental Engineering
- v) Conservative Dentistry and Endodontics
- vi) Oral & Maxillofacial Surgery
- vii) Oral Medicine and Radiology
- viii) Orthodontics & Dentofacial Orthopaedics
- ix) Paediatric & Preventive Dentistry
- x) Periodontology
- xi) Prosthodontics and Crown & Bridge

Fourth Year

- I) Orthodontics & dentofacial orthopaedics
 - ii) Oral Medicine & Radiology
 - iii) Paediatric & Preventive Dentistry
 - iv) Periodontology
 - v) Oral & Maxillofacial Surgery
 - vi) Prosthodontics and Crown & Bridge
 - vii) Conservative Dentistry and Endodontics
 - viii)Public Health Dentistry

Value-Added Courses:

The following Value-added courses are available for students. Value Added Courses are aimed to enhance the life of the students and thereby improve employability. Out of the 4, each student can join one course before completion of their final year.

| S.No. | Course Code | Name of the Course | Participants |
|-------|----------------|--------------------------------------------|--------------|
| 1. | VA 128 | Introduction to MS Office | UG & PG |
| 2. | VA 122 | Gst for Dental Practice | UG & PG |
| 3. | VA 138 | Sign language for Specil need Patiens | UG & PG |
| 4. | VA 200 | Soft skill development on English Language | UG & PG |

Compulsory Rotating Paid Internship (CRI)

A pass in all the eight subjects is mandatory for completion of the 4th BDS Course before undergoing internship programme. The internship shall be compulsory and rotating as per the DCI norms. Twelve days of casual leave can be availed with prior intimation. Any absentism without informing will lead to disciplinary action. Participation in Implant Training and Placement of implant is compulsory for getting NOC before completion of CRI. The degree- BDS shall be granted after completion of internship.

I Year Subjects

| C No | CUDIFCT | MAR | KS |
|-------|------------------------------------------------------------------|--------|-----------|
| S.No. | SUBJECT | THEORY | PRACTICAL |
| 1. | General Anatomy Including Embryology & Histology | 100 | 100 |
| 2. | General Human Physiology & Biochemistry, Nutrition & Diettics | 100 | 100 |
| 3. | Dental Anatomy, Embryology & Oral Histology | 100 | 100 |
| 4. | Environmental Studies | 100 | 100 |
| 5. | Dental Materials* | | |
| 6. | Pre Clinical Prosthodontics And Crown And Bridge* | | |

 $[\]ensuremath{^{\star}}$ University Exam will be conducted at the end of II BDS

Theory & Practical Mark Distribution for all Subjects *:

| Theory - 100 M | lark | Practicals / Cl | linicals - 100 Mark |
|------------------------|------|---------------------|---------------------|
| University written exa | m 70 | University exam | 90 |
| Viva voice | 20 | Internal assessment | 10 |
| Internal assessment | 10 | Total | 100 |
| Total | 100 | | |

* Except Environmental studies

| Theory - 100 N | 1ark |
|------------------------|------|
| University written exa | m 75 |
| Internal assessment | 25 |
| Total | 100 |

General Anatomy Including Embryology & Histology

I B.d.s. (Paper - I)

Introduction To Anatomy:

Anatomical terms - Introduction to Osteology - Introduction to joints & Muscles - Introduction to Nervous system - central and peripheral Nervous system Autonomic Nervous system - Introduction to Blood Vessels - Integamentary system.

Embryology:

Gametogenesis - Fertilization - Ectopic & normal implantation - Development from zygote to chorion - Formation of notochord - neural tube - neural crest - Formation of the trilaminar germ disc - Folding of the embryo - Foetal membranes - Development of face - nose - lips - oral cavity & jaw - Development of branchial arches - pouches - clefts & their derivatives - (Tongue, tonsil, thymus, thyroid, parathyroid, ear cavities) - Development of Teeth.

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

III. Skull - general architecture - Interior of Cranium - Exterior of Cranium - Norma Verticalis - Norma Occipitalis - Norma Lateralis - Norma Basalis.

IV. Individual skull bones - mandible - sphenoid - parietal - frontal - maxilla - temporal - occipital - etc.,

B. Soft Parts:

Scalp & temple - muscle - vessels & nerves - Face - muscles, vessels & nerves - (Including extracranial course of VII nerve) Posterior triangle - boundaries and contents 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 - Sternocleidomastoid - Cranial cavity - duramater - layers - folds - Dural venous sinuses - Meningeal vessels - emissary veins - Cranial fossae and their contents - Lacrimal apparatus and structure of eyelid - Orbit - muscles, vessels cranial nerves (ii, iii, iv, v, vi) - Orbital periosteum - Facial sheath of eyeball-Deep dissection of neck - Thymus - Thyroid and parathyroid - Subclavian artery - I & II parts - Brachiocephalic veins - Thoracic duct, scalene muscles, phrenic nerve - Trachea - Oesophagus - Cranial nerves - intracranial course of VII, VIII, IX, X, XI, XII, cranial nerves - Cervical sympathetic trunk - Cervical plexus - Lymphatic drainage of head & neck Pre - vertebral region - Parotid region - Temporal and infra temporal regions including muscles of mastication and - Temporo - mandibular joint - Submandibular region - submandibular and sublingual glands.

Joints of the neck:

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:

NEURO ANATOMY:

Spinal cord:

Coverings of meninges - Contents of vertebral canal - Gross anatomy of spinal cord - Regional differentiation - Blood Supply.

Brain:

Meninges - Sub arachnoid cisterns - Blood supply of brain - External surface of base of brain - Hind brain - medulla - Pons - external and Internal features and cranial nerves attached - Cerebellum - Subdivisions & functions - Fourth ventricle - Mid brain - Cerebrum - sulci gyri - White matter of cerebrum - Lateral ventricle - 3rd ventricle - Thalamus - Geniculate bodies - Internal capsule - Basal ganglia.

Lungs & pleura:

Heart:

Pericardium & its blood vessels

Abdomen: Subdivisions -

Location of the abdominal organs - 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 - Liver Pancreas.

Reproductive system:

Testis - Ovary - uterus

Eye:

Cornea - retina

Skin:

Thin skin - thick skin

Respiratory system:

Trachea - lungs

Urinary system:

Kidney - Ureter - Urinary bladder

Nervous system:

Spinal cord - Cerebrum - Cerebellum - Medulla - Endocrinessy.

Endocrine System:

Pituitary - Thyroid - Parathyroid - Supra - renal gland.

Genetics:

Chromosomes - karyotyping - chromosomal abnormalities - Barr body - Modes of Inheritance - Gene structure - Mutation - Prenatal diagnosis - Genetics counseling.

Demonstration:

- 1. Demonstration of dissected specimens
- 2. Embryology Models & Charts
- 3. Histology slides

Recommended Textbooks:

- B.D. Chaurasia's Human Anatomy for Dental Students
- B.D. Chaurasia's General Anatomy

The book of Human Histology - Yogesh Sontakke

Inderbir Singh's Human Embryology

Histology Practical Manual - Balakrishna Shetty

Human Genetics - S.D. Gangane

General Anatomy Including Embryology And Histology Model Question Paper (Paper - I)

SECTION - A: 35 Marks

- Gross anatomy of head
- General anatomy
- General histology
- General embryology
- Genetics

SECTION - B: 35 Marks

- · Gross anatomy of neck
- Systemic histology
- Systemic embryology
- · Gross anatomy of neuroanatomy

Section - A

| S.No. | Topics | Essay (1X10=10 Marks) | SAQ (3X5=15 Marks) | (3X5=15 Marks) (10X1=10 Marks) | |
|-------|-----------------------|-----------------------------|--------------------------------------|------------------------------------------------------------------------------|-------|
| 1. | Gross Anatomy of head | 1X10=10 | 2X5=10 (region not covered in Essay) | 4X1 =04 (Gross anatomy of head, region not covered in Essay/SAQ) | 24 |
| 2. | General anatomy | | | 2X1=02 | 02 |
| 3. | General histology | | ,, ., | 07/02 | |
| 4. | General embryology | | 1X5=05 | 1X1=01 | 06/10 |
| 5. | Genetics | | | 1X1=01 | 01 |
| | Total | 10 | 15 | 10 | 35 |

Section - B

| S.No. | Topics | Essay (1X10=10 Marks) | SAQ (3X5=15 Marks) | MCQs (10X1=10 Marks) | Total Marks |
|-------|-------------------------------|-----------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------|
| 1. | Gross anatomy of neck | 1X10=10 | 1X5=05 (Gross Anatomy of neck region not covered in Essay) | 4X1 =04 (Gross Anatomy of neck region not covered in Essay/SAQ) | 19 |
| 2. | Systemic histology | | | 2X1=02 | 07/02 |
| 3. | Systemic embryology | | 1X5=05 | 2X1=02 | 07/02 |
| 4. | Gross Anatomy of neuroanatomy | | 1X5=05 | 2X1=02 | 07 |
| | Total | 10 | 15 | 10 | 35 |

PRACTICALS

The Anatomy Practical Examination shall be for 90 marks as follows: 30 spotters X 3 marks= 90 marks Gross: 20 spotters

(13 Head and Neck + 02 Neuroanatomy + 05Thorax and Abdominal organs) Histology: 10 spotters (03 General histology + 07 Systemic histology)

University Exam (Practicals) = 90 MarksInternal assessment (Practicals) = 10 MarksTotal = 100 Marks

General Human Physiology & Biochemistry I - B.d.s. (Paper - II)

Section A:

General Human Physiology

Unit I: General Physiology

- 1. The Structure and Function of a Cell
- 2. Transport Mechanisms Across Cell Membranes
- 3. Body Water and Body Fluids
- 4. The Membrane Potentials

Unit II: Blood

- 5. Composition and Functions of Blood
- 6. The Plasma Proteins
- 7. Haemoglobin
- 8. Erythrocyte Red Blood Corpuscle
- 9. Jaundice
- 10. Lecocyte White Blood Corpuscle
- 11. Platelets or Thrombocytes
- 12. Coagulation of Blood and Bleeding Disorders
- 13. Blood Groups
- 14. Lymphoid Tissues and Lymph
- 15. Immunity (The Immune System)

Unit III: Nerve Muscle Physiology

- 16. Structure and Function of Nervous Tissues
- 17. Physiological Properties of the Nerve Fibres
- 18. Nerve Fibre Types and Functions
- 19. Neuromuscular Junction
- 20. Skeletal Muscle
- 21. Cardiac Muscle
- 22. Smooth Muscle

Unit IV: Digestive System

- 23. Physiological Anatomy of Gastrointestinal Tract
- 24. Physiology of Salivary Secretion
- 25. The Mouth and the Oesophagus
- 26. The Stomach
- 27. The Pancreas
- 28. The Liver and The Gall Bladder
- 29. The Small Intestine
- 30. The Large Intestine (Colon)
- 31. Digestion and Absorption in the GIT

Unit V: Cardiovascular System

- 32. Physiological Anatomy of the Heart
- 33. The Cardiac Cycle
- 34. Normal Electrocardiogram
- 35. General Principles of Circulation
- 36. Cardiovascular Regulatory Mechanisms
- 37. Heart Rate
- 38. Cardiac Output
- 39. Arterial Blood Pressure
- 40. Physiology of Shock

Unit VI: The Respiratory System

- 41. Physiological Anatomy of the Respiratory System
- 42. Mechanics of Respiration
- 43. Transport of Gases
- 44. Regulation of Respiration
- 45. Hypoxia
- 46. Physiology of Exercise

Unit VII: The Excretory System

- 47. Physiological Anatomy of the Kidney
- 48. Mechanism of Formation of Urine
- 49. Mechanism of Concentration and

Dilution of Urine - The Counter Current System

- 50. Acidification of Urine
- 51. Regulation of Volume and Concentration of Body Fluids
- 52. Physiology of Micturition
- 53. Regulation of Body Temperature in Humans

Unit VIII: Endocrine System

- 54. General Principles of Endocrinology
- 55. The Pituitary Gland
- 56. The Thyroid Gland
- 57. The Parathyroids, Calcitonin and Vitamin D
- 58. The Adrenal Cortex
- 59. The Adrenal Medulla
- 60. The Pancreas
- 61. The Thymus and The Pineal Gland

Unit IX: Reproductive System

- 62. Physiology of Reproduction
- 63. The Male Reproductive System
- 64. The Female Reproductive System
- 65. Contraceptive Measures
- 66. The Physiology of Pregnancy

Unit X: The Nervous System

- 67. Organisation of the Nervous System
- 68. The Synapse
- 69. Sensory Receptors
- 70. Reflexes
- 71. The Sensory System
- 72. The Motor Areas and Descending Tracts
- 73. The Autonomic Nervous System
- 74. The Vestibular Apparatus (Labyrinth)
- 75. Control of Body Movement and Posture
- 76. The Reticular Formation, Cerebellum and Basal Ganglia
- 77. The Thalamus and the Hypothalamus
- 78. The Cerebral Hemisphere (Cerebrum)
- 79. Higher Functions of the Nervous System
- 80. Cerebrospinal Fluid and Blood Brain Barrier

Recommended Textbooks

Textbook of Physiology BDS - G. K. pal Understanding for Medical Physiology - R.L. Bijalani Manual of Practical Physiology - A.K. Jain

Section B:

Biochemistry

1. Cell structure and its functions

Subcellular cell organelles, membrane & transport.

2. 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.

3. Lipids:

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

4.Enzymes:

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

5. 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.

6. Minerals:

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

7. Electron Transport Chain - Oxidative phosphorylation.

Free radicals, antioxidants.

8. Metabolism of Carbohydrates:

Digestion & absorption. Glycolysis - oxidation of pyruvate - Citric acid cycle - glycogenolysis - Glycogenesis - Gluconeogenesis - Pentose phosphate pathway - significance. Cori cycle - Glycogen storage diseases - metabolism of fructose - Galactose - Galactosemia - glucuronic acid pathway. Blood glucose maintenarce.

9. Metabolism of Lipids:

Digestion & absorption - transport - lipoproteins - chylomicrons - VLDL, LDL, HDL. Metabolism of fattyacid - Beta oxidation of fattyacid. Synthesis of fatty acid. Formation of ketone bodies and utilization - metabolism of Cholesterol. Lipid storage diseases.

10. Proteins:

Definition and Classification - Biological importance - amino acids properties and reactions - structure of proteins. Primary and secondary, tertiary and quaternary - Connective tissue - Collagen & Elastin. Glycosaminoglycans. Bone structure - structure of membranes - Exocytosis & Endocytosis Isoelectric PH - Chromatography - electrophoresis.

11. Nucleic Acids:

Definition. Building units. Nucleosides - Nucleotides - outline structure of DNA & RNA. High energy compounds. ATP - Phosphorylation - Enol phosphates etc.

12. Haemoglobin:

Structure and properties - Non heme prophyrin. Metabolism of hemoglobin, bilirubin metabolism.

13. 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.

14. Integration of Metabolism & Hormone Regulation :

15. Biochemical genetics:

Introduction to Nucleotides. Formation & degradation. DNA as genetic materials Introduction to Replication & Transcription. Formation & function of RNA - Genetic code & Mutation. Outline of Translation process.

Antimetabolites & antibiotics interfering in replication. Transcription & Translation. Introduction to cancer & oncogenes.

16. Xenobioties and Antioxidants

17. Acid Base and Electrolyte Balance

18. Clinical Biochemistry

Regulation of Blood glucose. Diabetes mellitus & related disorders. Evaluation of glycemic index - Hypo & hyperglycemia. Hyper lipoproteinemias - Atherosclerosis - Jaundice. Classification & evaluation of Liver function tests - electrophoretic pattern of serum proteins - Kidney function tests - Acid base imbalance. Electrolyte imbalance - Gout, Muscular dystrophy - Enzyme of clinical diagnosis. Normal values of blood constituents.

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

Text Book of Biochemistry with clinical correlations - T.N. Devlin Lippincotts Biochemistry - Champe

Practicals And Demonstrations **General Human Physiology**

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
- 8. Perfusion of Frog's heart, effects of sodium, calcium and potassium ions.

Practicals And Demonstrations Biochemistry

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
- 6.Quantitative Estimations-Glucose-Urea-Creatinine-Serum proteins.

DEMONSTRATION

- 1. Hydrolysis of starch
- 2. Paper electrophoresis
- 3. 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

General Human Physiology & Biochemistry Model Question Paper (Paper - II)

Section - A General Human Physiology

| S.No. | Topics | Essay (1X10=10 Marks) | SAQ (3X5=15 Marks) | MCQs (10X1=10 Marks) | Total Marks |
|-------|--------------------------------------------------------------------------|-----------------------------|------------------------------------------------|------------------------------------------------------|----------------|
| 1. | Cardiovascular system/ Endocrinology/ Central Nervous system | 1X10=10 | 1 from system not covered in Essay 1x5=5 marks | From systems except one covered in essay 3x1=3 marks | 18 |
| 2. | Respiratory system / Renal system/ Gastrointestinal system | - | 1X5=05 | System from which SAQ is not asked 2x1=2 marks | 7 |
| 3. | Blood/ Nerve physiology | - | 1X5=05 | 2x1=2 | 7 |
| 4. | General physiology/ Reproductive system/ Special senses | - | - | 3x1=3 | 3 |
| | Total | 10 | 15 | 10 | 35 |

Section - B Biochemistry

| S.No. | Topics | Essay (1X10=10 Marks) | SAQ (3X5=15 Marks) | MCQs (10X1=10 Marks) | Total Marks |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------------------------|-------------------------|----------------|
| 1. | Carbohydrates / Proteins/ Vitamins | 1X10=10 | 1x5=5 Marks (From topic not covered in essay) | 2 Marks | 17 |
| 2. | Lipids Enzymes Hemoglobin Nucleic acid chemistry & metabolism Molecular Biology Acid base balance Function tests Vitamins Minerals Chemistry of Carbohydrates * Chemistry of Proteins | - | 2X5=10 | 3 Marks | 13 |
| 3. | Cancer, Tumour markers & AIDS Hormones | - | - | 1 Mark | 01 |
| 4. | Cell & Body fluids | - | - | 1 Mark | 01 |
| 5. | Energy & Nutrition | - | - | 1 Mark | 01 |
| 6. | Free radicals & Detoxification | - | - | 1 Mark | 01 |
| 7. | METC | - | - | 1 Mark | 01 |
| | Total | 10 | 15 | 10 | 35 |

^{*} Includes Topics from which essay question will not be asked.

General Human Physiology & Biochemistry

Practicals

| Practicals | General Human Physiology | Biochemistry |
|---------------------|-----------------------------|--------------|
| University Exam | 45 Marks | 45 Marks |
| Internal assessment | 5 Marks | 5 Marks |
| Total | 50 Marks | 50 Marks |

Physiology Practicals

| 1. Major | 20 Marks |
|----------------------------|----------|
| 2. Minor | 15 Marks |
| 3. Charts and calculations | 10 Marks |
| Total | 45 Marks |

Biochemistry Practicals

| 1. Quantitative | 15 Marks |
|-----------------|----------|
| 2. Qualitative | 15 Marks |
| 3. Spotters | 10 Marks |
| 4. Charts | 5 Marks |
| Total | 45 Marks |

Marks of Viva voice (20 Marks) conducted during practical examination will be added along with the University theory written examination

Dental Anatomy, Embryology And Oral Histology I - B.d.s. (Paper - III)

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.
- 2. Microscopic study of Oral tissues.
- 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 notati on 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

Definition, factors influencing occlusion - basal bone, arch, individual teeth, external & internal forces & sequence of eruption. Inclination of individual teeth - compensatory curves. Centric relation & Centric occlusion - protrusive, retrusive & lateral occlusion. Clinical significance of normal occlusion.

Introduction & Classification of Malocclusion.

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 periodonal ligament & bone in normal & orthodontic tooth movement, applied aspects of alveolar bone resorption.
- 3. Detailed microscopic study of Oral Mucosa, variation in structure in relation to functional requirements, mechanisms of keratinization, clinical parts of gingiva, Dentogingival & Mucocutaneous junctions & lingual papillae. Age changes & clinical considerations.

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 phosphatemias & 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.

Dental Anatomy, Embryology And Oral Histology Practicals And Demonstrations

Demonstration

- 1. Demonstration of carving of all permanent teeth using wax block (Natural teeth size)
- 2. Demonstration of Age estimation in deciduous, mixed & permanent dentition models
- 3. Demonstration of Tissue processing
- 4. Demonstration of preparation of ground section & Decalcified sections
- 5. Identification of deciduous & permanent teeth
- 6. Histology slides of oral & paraoral structures

Practicals

- 1. Carving of all permanent teeth using wax block (Natural teeth size)
- 2. Age estimation in deciduous, mixed & permanent dentition models
- 3. Histology slides of oral & paraoral structures
- 4. Identification of deciduous & permanent teeth

Recommended Text Books

- 1. Orban's Oral Histology & Embryology G.S. Kumar
- 2. Text book of Oral Anatomy Histology Physiology & Tooth Morphology
- K. Rajkumar, R. Ramya
- 3. Tencate's Oral Histology
- 4. Oral Development & Histology James & Avery
- 5. Wheeler's Dental Anatomy, Physiology & Occlusion Major.M.Ash
- 6. Dental Anatomy its relevance to dentistry Woelfel & Scheid
- 7. Applied Physiology of the mouth Lavelle
- 8. Physiology & Biochemistry of the mouth Jenkins

Dental Anatomy, Embryology And Oral Histology (Paper - III)

Section - A: Oral Histology & Embryology

| Essay Question | 1x10 Marks | = 10 Marks |
|--------------------------------|------------|------------|
| Short Notes | 3x5 Marks | = 15 Marks |
| Multiple Choice Questions(MCQ) | 10x1 Marks | = 10 Marks |
| Total | | = 35 Marks |

Section - B : Tooth Morphology, Oral Anatomy & Oral Physiology

| Essay Question | 1x10 Marks | = 10 Marks |
|--------------------------------|------------|------------|
| Short Notes | 3x5 Marks | = 15 Marks |
| Multiple Choice Questions(MCQ) | 10x1 Marks | = 10 Marks |
| Total | | = 35 Marks |

Total = 70 Marks

PRACTICALS

| Total | | = | 100 Marks |
|-----------------------------|--------------|---|-----------|
| Internal assessment (Pract | icals) | = | 10 Marks |
| University Exam (Practicals |) | = | 90 Marks |
| Tooth carving 30 Marks | | | |
| Natural teeth spotters | 4 x 2½ marks | 6 | 10 Marks |
| Age estimation models | 2 x 5 marks | | 10 Marks |
| Histology slides | 8 x 5 marks | | 40 Marks |

Marks of Viva voce (20 Marks) conducted during practical examination will be added along with the University theory written examination

Environmental Studies

Unit 1: Introduction to environmental studies

- Multidisciplinary nature of environmental studies; components of environment atmosphere, hydrosphere, lithosphere and biosphere.
- Scope and importance; Concept of sustainability and sustainable development.

(2 Lectures)

Unit 2: Ecosystems

- What is an ecosystem? Structure and function of ecosystem; Energy flow in an ecosystem: food chain, food web and ecological succession. Case studies of the following ecosystems:
- a) Forest ecosystem
- b) Grassland ecosystem
- c) Desert ecosystem
- d) Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)

(6 Lectures)

Unit 3: Natural Resources: Renewable and Non-renewable Resources

- Land Resources and land use change; Land degradation, soil erosion and desertification.
- Deforestation: Causes and impacts due to mining, dam building on environment, forests, biodiversity and tribal populations.
- Water: Use and over-exploitation of surface and ground water, floods, droughts, conflicts over water (international & inter-state).
- Heating of earth and circulation of air; air mass formation and precipitation.
- Energy resources: Renewable and non-renewable energy sources, use of alternate energy sources, growing energy needs, case studies.

(8 Lectures)

Unit 4: Biodiversity and Conservation

- Levels of biological diversity :genetic, species and ecosystem diversity; Biogeography zones of India; Biodiversity patterns and global biodiversity hot spots
- India as a mega-biodiversity nation; Endangered and endemic species of India
- Threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts, biological invasions; Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity.
- Ecosystem and biodiversity services: Ecological, economic, social, ethical, aesthetic and Informational value.

(8 Lectures)

Unit 5: Environmental Pollution

- Environmental pollution : types, causes, effects and controls; Air, water, soil, chemical and noise pollution
- Nuclear hazards and human health risks
- Solid waste management: Control measures of urban and industrial waste..
- Pollution case studies.

(8 Lectures)

Unit 6: Environmental Policies & Practices

- Climate change, global warming, ozone layer depletion, acid rain and impacts on human communities and agriculture.
- Environment Laws: Environment Protection Act; Air (Prevention & Control of Pollution) Act; Water (Prevention and control of Pollution) Act; Wildlife Protection Act; Forest Conservation Act; International agreements; Montreal and Kyoto protocols and conservation on Biological Diversity (CBD). The Chemical Weapons Convention (CWC).
- Nature reserves, tribal population and rights, and human, wildlife conflicts in Indian context (7 Lectures)

Unit 7: Human Communities and the Environment

- Human population and growth: Impacts on environment, human health and welfares.
- Carbon foot-print.
- Resettlement and rehabilitation of project affected persons; case studies.
- Disaster management: floods, earthquakes, cyclones and landslides.
- Environmental movements: Chipko, Silent valley, Bishnios of Rajasthan.
- Environmental ethics: Role of Indian and other religions and cultures in environmental conservation.
- Environmental communication and public awareness, case studies (e.g., CNG vehicles in Delhi).

 (6 Lectures)

Unit 8: Field work

- Visit to an area to document environmental assets; river/forest/flora/fauna, etc.
- Visit to a local polluted site Urban/Rural/Industrial/Agricultural.
- Study of common plants, insects, birds and basic principles of identification.
- Study of simple ecosystems-pond, river, Delhi Ridge, etc.

(Equal to 5 Lectures)

Environmental Studies (Paper IV)

Section A

Answer all the questions 10×2marks =20 marks

Section B

Answer any five questions out of seven 5×5 marks = 25 marks

Section C

Answer any three questions out of four 3×10 marks =30 marks

Theory paper (total) = 75 marks
Internals = 25 marks

Total = 100 marks

Suggested Readings:

- 1. Carson, R. 2002. Silent Spring. Houghton Mifflin Harcourt.
- 2. Gadgil, M., & Guha, R.1993. This Fissured Land: An Ecological History of India. Univ. of California Press.
- 3. Gleeson, B. and Low, N. (eds.) 1999. Global Ethics and Environment, London, Routledge.
- 4. Gleick, P.H. 1993. Water in Crisis. Pacific Institute for Studies in Dev., Environment & Security. Stockholm Env. Institute, Oxford Univ. Press.
- 5. Groom, Martha J. Gary K. Meffe and Carl Ronald carroll. Principles of Conservation Biology. Sunderland: Sinauer Associates, 2006.
- 6. Grumbine, R. Edward, and Pandit, M.K. 2013. Threats from India's Himalaya dams. Science, 339: 36-37.
- 7. McCully, P.1996. Rivers no more: the environmental effects of dams(pp. 29-64). Zed Books.
- 8. McNeil, John R. 2000. Something New Under the Sun: An Environmental History of the Twentieth Century.
- 9. Odum, E.P., Odum, h.T. & Andrews, J.1971. Fundamentals of Ecology. Philadelphia: Saunders.
- 10. Pepper, I.L., Gerba, C.P. & Brusseau, M.L. 2011. Environmental and Pollution Science. Academic Press.
- 11. Rao, M.N. & Datta, A.K. 1987. Waste Water Treatement. Oxford and IBH Publishing Co. Pvt. Ltd.
- 12. Raven, P.H., Hassenzahl, D.M. & Berg, L.R. 2012. Environment. 8th edition. John Wiley & Sons.
- 13. Rosencranz, A., Divan, S., & Noble, M.L. 2001. Environmental law and policy in India. Tripathi 1992.
- 14. Sengupta, R. 2003. Ecology and economics: An approach to sustainable development. OUP.
- 15. Singh, J.S., Singh, S.P. and Gupta, S.R. 2014. Ecology, Environmental Science and Conservation. S. Chand Publishing, New Delhi.
- 16. Sodhi, N.S., Gibson, L. & Raven, P.H. (eds). 2013. Conservation Biology: Voices from the Tropics. John Wiley & Sons.
- 17. Thapar, V. 1998. Land of the Tiger: A Natural History of the Indian Subcontinent.
- 18. Warren, C.E. 1971. Biology and Water Pollution Control. WB Saunders.
- 19. Wilson, E.O. 2006. The Creation: An appeal to save life on earth. New York: Norton.
- 20. World Commission on environment and Development. 1987. Our Common Future. Oxford University Press.
- 21. www.nacwc.nic.in
- 22. www.opcw.org www.nacwc.nic.in

Pre-Clinical Prosthodontics I - B.D.S.

I Year work Quota

Teaching pre-clinical prosthetics commences from the 1st year B.D.S.

Practicals: Exercises:

- 1. Dental plaster construction of 4 cubes
- 2. One upper and one lower edentulous impression using impression compound
- 3. Beading & Boxing of upper and lower primary impression
- 4. Cast fabrication
- 5. Marking anatomical land marks on the edentulous casts
- 6. Special trays (Using shellac plate or acrylic resin materials)

Construction of record bases (Using shellac base plate or acrylic)

- 8. Fabrication of occlusal rims
- 9. Mounting of U/L casts with occlusal rims in class I relation using fixed condylar path articulators (Mean value articulators)
- 10. Arrangement of teeth (Class I)
- 11. Waxing, Carving & Polishing of wax setup
- 12. Flasking, Dewaxing, Packing & Curing
- 13. Deflasking, Trimming & Polishing of Acrylic dentures

Recommended Books:-

- 1. Text book of Prosthodontics V. Rangarajan.
- 2. The Art of learning Preclinical Prosthodontics 2nd edition K. Kasim Mohamed

Dental Materials I - B.D.S.

Teaching Dental Materials commences from the 1st year B.D.S.

Theory

- 1. Performance standards for Dental Materials
- 2. Structure of Matter and Principles of Adhesion
- 3. Physical Properties of Dental Materials
- 4. Mechanical Properties of Dental Materials
- 5. Biocompatability of Dental Materials
- 6. Gypsum Products Chemistry of Setting, Basic principles & technical considerations
- 7. Chemistry of Synthetic Resins

Practicals:

Manipulation & Mixing of the following Dental Materials:

- 1. Impression Material -
- a. Impression compound heating & conditioning
- b. Irreversible hydrocolloids
- 2. Denture base Materials
- a. Heat cure Acrylic resin
- b. Cold cure Acrylic resin

Recommended Books:-

- 1. Philips Science of Dental Materials Kenneth J. Anusavice
- 2. Restorative Dental Materials Robert G Craig
- 3. Note on Dental Materials E.C. Combe
- 4. Materials used in Dentistry 2nd edition S. Mahalaxmi

List of Instruments / Materials

| S.NO. | MATERIAL NAME | QUANTITY |
|-------|-------------------------------------------------------------------------|----------|
| 1. | Acrylic Trimmer Black Big Flame shape | 1 |
| 2. | Acrylic Trimmer White small flame shape | 1 |
| 3. | Acrylic Trimmer Pink cylindrical shape | 1 |
| 4. | Bowl Big | 1 |
| 5. | Bowl Small | 1 |
| 6. | Cement Spatula | 1 |
| 7. | Chip Blower | 1 |
| 8. | Clamp for flask | 2 |
| 9. | Dappen Glass | 1 |
| 10. | Disc Mandril | 1 |
| 11. | Enamel Tray | 1 |
| 12. | Enamal Chisel | 1 |
| 13. | File Ordinary Round ,Half Round, Triangular ,Flat, Straight ,(set of 5) | 1 |
| 14. | Flask regular No 7 & No 8 | 2 |
| 15. | Glass Slab | 1 |
| 16. | Hot Plate | 1 |
| 17. | Mortar & Pestle | 1 |
| 18. | Plaster Knife | 1 |
| 19. | Plaster Spatula Curved | 1 |
| 20. | Plaster Spatula Straight | 1 |
| 21. | Sand Paper Mandril | 1 |
| 22. | Scissors Straight & Curved | 2 |
| 23. | Three Point Articulator Powder Coated | 1 |
| 24. | Vulcanite Trimmer | 1 |
| 25. | Wax Carver | 1 |
| 26. | Wax Knife | 1 |
| 27. | Bunsen Burner with tube | 1 |
| 28. | Eosin & Haematoxylin Pencil | 1 |

| S.NO. | MATERIAL NAME | QUANTITY |
|-------|--------------------------------------------------|----------|
| 29. | Plastic spatula | 1 |
| 30. | Straight fissure steel bur | 1 |
| 31. | Sand paper 80,100,120,300, 1000 | 5 |
| 32. | Steel ruler small | 1 |
| 33. | B.P. Blade No 15 | 10 |
| 34. | B.P Handle No 3 | 1 |
| 35. | Blow torch | 1 |
| 36. | Wax spoon | 1 |
| 37. | Colored Wax Block box | 1 |
| 38. | Polishing Buff | 1 |
| 39. | Impression Trays full set U/L,Edentulus set of 8 | 1 |
| 40. | College Bag | 1 |
| 41. | Green Cloth | 2 |
| 42. | Vaseline | 1 |
| 43. | Stone Plaster 3 kgs | 1 |
| 44. | Base Plate | 1 |
| 45. | Wax Sheet | 2 |
| 46. | Impression Compound | 1 |
| 47. | Self Cure Lab Pack | 1 |
| 48. | Heat Cure Lab Pack | 1 |
| 49. | Galss Plate | 1 |
| 50. | Ceramic cup with lid | 1 |
| 51. | Teeth Set Bio Rock | 1 |
| 52. | Sprit Lamp | 1 |
| 53. | Sprit 500 ml Bottle | 1 |
| 54. | Rubber Sheet 35" X 26" | 1 |
| 55. | Pumice 500 gms | 1 |
| 56. | Protective Eye Glass | 1 |
| 57. | Enamel Bowl | 1 |

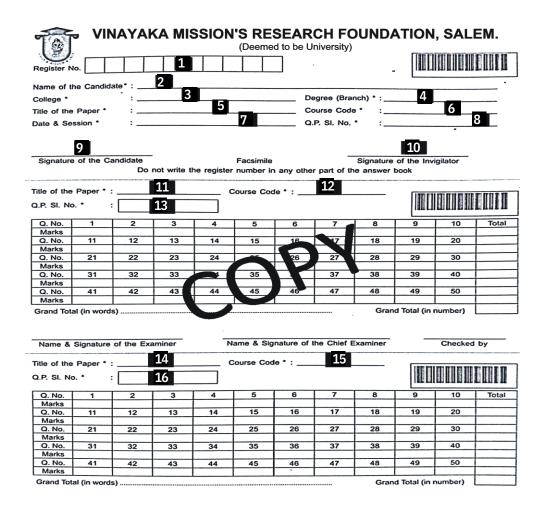
| | | VENUE: VMI | TIME TABLE : I BDS E : VMKV MEDICAL COLLEGE, SALEM. | LEM. | | |
|-----------|--------------------------|--------------------------------------|--------------------------------------------------------|---------------------------|-----------------------|-----------------------|
| DAYS | 9.00 am to 10.00 am | 10.00 am to 11.00 am | 11.00 am to 12.45 pm | 12.45 pm to 1.30 pm | 1.30 pm to 2.30 pm | 2.30 pm to 4.00 pm |
| MONDAY | Physiology (Theory) | Biochemistry (Theory) | Environmental Science | | Anatomy (Theory) | Histology Practical |
| TUESDAY | Biochemistry (Theory) | Anatomy (Theory) | Physiology/ Biochemistry (Tutorials) | Lunch | Physiology (Theory) | Anatomy Dissection |
| WEDNESDAY | Anatomy (Theory) | Anatomy (Theory) Physiology (Theory) | Physiology / Biochemistry (Practical) | | Biochemistry (Theory) | Anatomy Dissection |

VENUE: VINAYAKA MISSON'S SANKARACHARIYAR DENTAL COLLEGE, SALEM

| DAYS | 8.30 am to 9.30 am | 9.30 am to 10.30 am | 10.30 am to 10.45 am | 10.45 am to 11.45 pm | 11.45 pm to 12.45 pm | 12.15 pm to 1.30 pm | 1.30 pm to 3.30 pm |
|----------|-------------------------------------------------------------------------------|---------------------------------|----------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------|--------------------------------------|
| THURSDAY | Dental Anatomy (Theory) | Dental Materials (Theory) | Tea Br | Dental Anatomy (A-Batch)/ Dental Materials (B-Batch) Practicals | Dental Anatomy (B-Batch)/ Dental Materials (A-Batch) Practicals | Lur | Preclinical Prostho Practicals |
| FRIDAY | Dental Anatomy - (Practicals) | - (Practicals) | eak | Dental Anatomy (Theory) | Dental Anatomy (Practicals) | nch | Dental Anatomy Practicals |
| | 8.30 am to 11.00 am | 11.00 am to 11.15 am | 11.3 | 11.30 am to 1.30 pm | 1.30 pm to 2.00 pm | 1.30 | 1.30 pm to 3.30 pm |
| SATURDAY | Dental Anatomy (A-Batch))/ Preclinical Prostho (B-Batch)) Practicals | Tea Break | Dental A Preclinica | Dental Anatomy (B-Batch))/ Preclinical Prostho (A-Batch)) Practicals | Lunch | Mentori | Mentoring / Library Time |

Library Hour: Every Tuesday & Friday Timings: 3.30 PM - 4.30 PM

Final University Exam - Answer Booklet



Checklist

1, 2, 3, 4, 7 - Refer Hall ticket

5, 6, 8, 11, 12, 13, 14, 15, 16 - Refer Question paper

9 - Signed by candidate

10 - Signed by invigilator

Final University Exam

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.

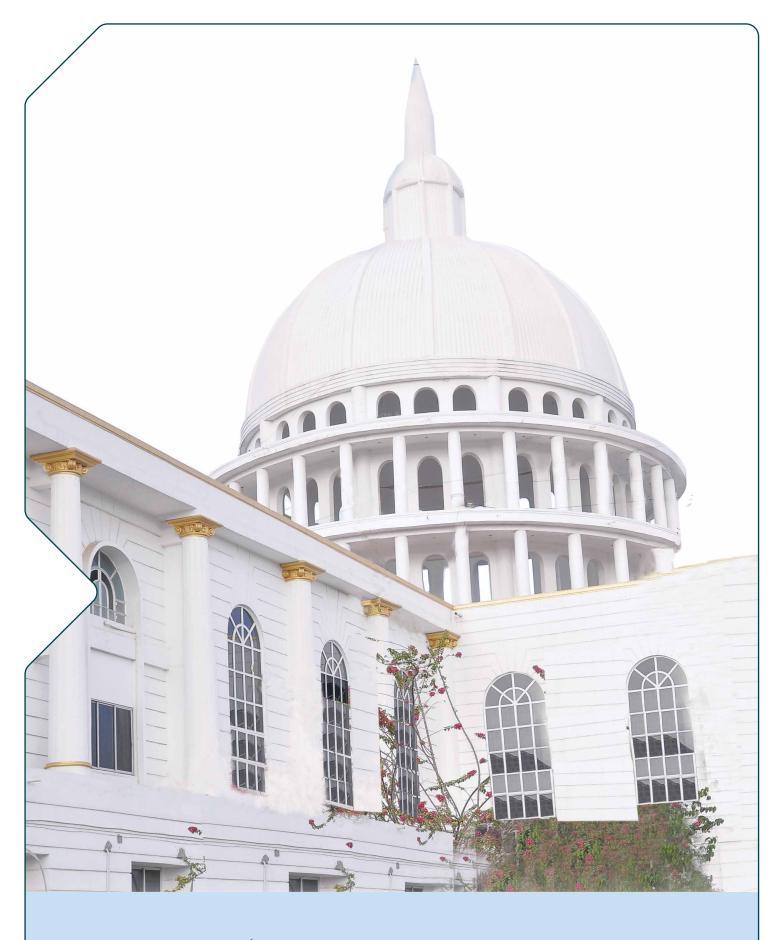
DO NOT write in the margin.

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

Additional answer booklet utilised applying the same instructions as the main sheet. 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 strike the unused pages if any.



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