ACADEMIC CALENDAR
2016-2017

Our Patron

His. Grace. Most Rev. Dr. Thomas Mar Koorilos
Metropolitan Archbishop of Thiruvalla

Rev. Fr. Mathew Vadakkekuttu
Director Medicity

Rev. Dr. Shaji Mathews Vazhayil
CEO

Rev. Dr. Mathew Mazhavancheril
Director
Academics and Research

Dr. Aby Mathew T
Principal

Dr Benely George
Vice Principal
(Administration)

Dr Biju Sebastian
Vice Principal
(Academics)

OUR VISION

'We Care God Cures'

OUR MISSION

To work towards a knowledge society with life in abundance through science and technology, improving health care for our immediate community, the state, the country and the world at large.

PUSHPAGIRI - A BRIEF HISTORY

The Catholic Church has been engaged in the ministry of healing all over the world for the past two thousand years. The same mission also drove the Founder fathers of Pushpagiri at Tiruvalla, Kerala. What started as a small clinic with eight beds in 1959 to cater to rural maternity care has now grown to a full fledged 1200 bedded, hi-tech super specialty Medical College Hospital.

Across a span of half a century, Pushpagiri has travelled forward with a renewed understanding and vision, ***'We Care God Cures'***, which proclaims the faith of taking upon each others' burdens and humility before the divine providence from where all cure and healing happens. The unwavering commitment of the Church to provide value-based education also saw its results initially in Nursing Education at Pushpagiri, which began as early as 1964. Following the establishment of Pushpagiri Medical Society in 1992, on the road to improvisation and expansion, Pushpagiri saw a new beginning, a decade later, in 2002 with the starting of one of the first private medical colleges in Kerala - Pushpagiri Institute of Medical Sciences and Research Centre. In the past decade, Pushpagiri further went along to establish premiere institutions in the field of health care education for Nursing (2002), Pharmacy (2004), Dental Sciences (2006) and Allied Health Sciences (2008).

The Pushpagiri Medical Society, a society registered under the Travancore-Cochin Literary Scientific & Charitable Societies Registration Act of 1955, manages the College. The Archbishop of the Catholic Archdiocese of Tiruvalla Most. Rev. Dr. Thomas Mar Koorilos is the Patron of the Society and a seven

member governing board is the policy laying body of the Society. Rev.Dr. Shaji Mathews Vazhayil is the Secretary of Pushpagiri Medical Society. Rev. Fr. Mathew Vadakkekuttu is the Director of Pushpagiri Medicity. Dr Aby Mathew T is the Principal, Dr Benley George; the Vice Principal (Administration) and Dr Biju Sebastian: the Vice Principal (Academics) of Pushpagiri College of Dental Sciences.

Pushpagiri College of Dental Sciences, recognized by the Dental Council of India and Ministry of Health & Family Welfare, Government of India was founded in 2006. The institution is the realization of the vision of the Management to provide quality Dental education to aspiring students of Kerala, a good percentage of these students hail from minority communities. The institution has an annual intake of 50 students in BDS course and 12 students in MDS courses.

Pushpagiri College of Dental Sciences ever since its inception had shown excellent academic achievements at the MG University and Kerala University of Health Sciences examinations. The first batch of Pushpagiri College of Dental Sciences secured a 100% pass result in the Final BDS Part II examination conducted by Mahatma Gandhi University, Kottayam. Pushpagiri College of Dental Sciences was the only dental college to achieve this feat among 7 other dental colleges affiliated to Mahatma Gandhi University, Kottayam. Ms Varsha Jeyaprakash, student of 2006 batch secured the first rank in the Final BDS Examination in 2011 conducted by Mahatma Gandhi University, Kottayam. The first batch of students admitted under Kerala University of Health Sciences secured the best pass result among all 22 dental colleges in Kerala. The 2013 batch of I BDS students secured 80% pass result in the examination conducted by Kerala University of Health Sciences in August 2014. Ms Jasmin Mary George secured the first rank in the I BDS examination conducted by Kerala University of Health Sciences in August 2014.

The institution had secured the first position among all 24 dental colleges affiliated to the University. The institution has consistently shown results par excellence in all examinations conducted by Kerala University of Health Sciences.

Pushpagiri College of Dental Sciences was elevated to the status of a Post Graduate Institute in 2013 with the commencement of 5 Post Graduate courses in the Departments of Prosthodontics and Crown & Bridge, Periodontology and Oral & Maxillofacial Surgery, Conservative Dentistry & Endodontics and Orthodontics & Dentofacial Orthopedics which was approved by the Ministry of Health and Family Welfare, Government of India and Dental Council of India.

GOVERNING BODY MEMBERS OF PUSHPAGIRI MEDICAL SOCIETY

Patron:	**H. G. Most Rev. Dr. Thomas Mar Koorilos** Metropolitan Archbishop of Tiruvalla.
President:	**Rev. Dr. Antony Chethipuzha** Vicar General, Catholic Archdiocese of Tiruvalla.
Vice President:	**H. E. Most. Rev. Dr. Philipos Mar Stephanos** Auxiliary Bishop of Tiruvalla.
Secretary:	**Rev. Dr. Shaji Mathews Vazhayil** (Chief Executive Officer, Pushpagiri Group of Institutions).
Members:	**Rev. Fr. Mathew Punakulam,** Pushpagiri Medical College Hospital
	Rev. Fr. Renjith Madathirampil Pushpagiri Medical College Hospital
	Mr. Varghese Alexander Chartered Accountant, Alexander & Co., Tiruvalla
	Dr. Abraham Varghese V, Vattasseril House, Mallapally

INSTITUTIONS UNDER PUSHPAGIRI MEDICAL SOCIETY

1. Pushpagiri College of Dental Sciences

Pushpagiri Medicity, Perumthuruthy, Tiruvalla
Tel. No. 0091 469 2645210; Fax 2645282
www.collegeofdentalsciences.pushpagiri.in
email: dentalcollege@pushpagiri.in

2. Pushpagiri Institute of Medical Sciences & Research Centre

2.1. Pushpagiri Medical College Hospital
Tel. No. 0091 469 2700755, Fax 2701045
www.pushpagiri.in

2.2. Pushpagiri Medical College
Tel. No. 0091 469 2733761; Fax 2600020
www.pimsrc.in

3. Pushpagiri College of Pharmacy

Pushpagiri Medicity, Perumthuruthy, Tivuvalla
Tel. No. 0091 469 2645450; Fax 2645460

4. Pushpagiri College of Nursing

Tel. No. 0091 469 2602441; Fax 2700168

5. Pushpagiri College of Allied Health Sciences

Tel. No. 0091 469 2700755; Fax 2701044

6. Pushpagiri School of Nursing

Tel. No. 0091 469 2700755; Fax 2701044

7. Pushpagiri Centre for CGFNS & IELTS Training

Tel. No. 0091 469 2700755; Fax 2701044

8. Pushpagiri Research Centre

Tel. No. 0091 469 2731005; Fax 2731005

9. Pushpagiri Centre for Virology

Tel. No. 0091 469 2731005; Fax 2731005,

MANAGEMENT OF PUSHPAGIRI GROUP OF INSTITUTIONS

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CURRICULUM & RESEARCH COMMITTEE

Dr Aby Mathew T
Principal

Dr Benley George
Vice Principal

Dr Suja Joseph
HOD, Dept. of Prosthodontics

Dr Thomas George
HOD, Dept. of Periodontics

Dr Eapen Thomas
HOD, Dept. of Oral and Maxillofacial Surgery

Dr A Devadathan
HOD, Dept. of Conservative Dentistry and Endodontics

Dr Baby James
Professor, Dept. of Conservative Dentistry and Endodontics

Dr Biju Sebastian
Vice Principal & HOD, Dept. of Orthodontics

Academic Programmes in Dental College

Undergraduate course	
BDS	50 seats
Postgraduate courses	
MDS (Prosthodontics and Crown and Bridge)	3 seats
MDS (Oral and Maxillofacial Surgery)	2 seats
MDS (Periodontics)	2 seats
MDS (Orthodontics)	2 seats
MDS (Conservative Dentistry)	3 seats

Admission to BDS course in PCDS

From the academic year 2007, onwards the Kerala Christian Professional College Managements' Federation (KCPCMF) representing Pushpagiri College of Dental Sciences and the four medical colleges, namely, Amala Institute of Medical Sciences, Jubilee Mission Medical College and Research Institute, Malankara Orthodox Syrian Church Medical College and Pushpagiri Institute of Medical Sciences and Research Centre, were making admissions to all seats purely on the basis of merit. The criterion to prepare the merit list was by combining the marks obtained by the candidates in the CET conducted by the Commissioner for Entrance Exams and the marks obtained by them for Physics, Chemistry and Biology subjects in their qualifying exams. All students were to pay uniform fees, and scholarships were being provided to BPL candidates.

The State Government had initiated negotiations for seat sharing with our colleges, and an agreement has been arrived at, whereby fifty percent of the seats set apart for the CEE, Kerala for allotment, and fifty percent of the candidates are admitted by the KCPCMF. Any seats remaining vacant after the last day fixed for the CEE to make allotments, would be reverted to 'open merit category' and would be filled by the KCPCMF. Categorization of the seats filled by KCPCMF admission is as per the table below.

Open merit (Total 5)	**Christian community merit (Total 12)**	**NRI**	**Total KCPCMF admission**
Open to all - 3	Syro-Malankara Catholic -3	8	**17**
	Religious congregations -2		
	Dalit Christians -1		
Children of staff - 2	Latin Catholics -1		
	Any Christian community -5		

All the students are required to pay the same tuition fee (Rs: 3,30,000/ - [Rupees Three Lakhs thirty thousand only], to be paid as annual tuition fees). Pushpagiri will set apart a sum of rupees Fourteen Lakhs for a batch of fifty BDS students, to be provided as scholarships to the BPL and other deserving candidates. Regular classes will commence from the Third October 2016.

BDS COURSE

Aims and Objectives of BDS Course

Aims:

To create a graduate in Dental Science who has adequate knowledge, necessary skills and such attitudes which are required for carrying out all the activities appropriate to general dental practice involving the prevention, diagnosis and treatment of anomalies and diseases of the teeth, mouth, jaws and associated tissues. The graduate should also understand the concept of community oral health education and be able to participate in the rural health care delivery programmes existing in the country.

Objectives

The objectives are dealt under three headings namely (a) knowledge and understanding (b) skills and (c) attitudes.

(a) Knowledge and understanding

The student should acquire the following during the period of training.

1. Adequate knowledge of the scientific foundations on which dentistry is based and good understanding of various relevant scientific methods, principles of biological functions and should be able to evaluate and analyse scientifically various established facts and data.
2. Adequate knowledge of the development, structure and function of the teeth, mouth and jaws and associated tissues both in health and disease and their relationship and effect on general-state of health and also the bearing on physical and social well-being of the patient.
3. Adequate knowledge of clinical disciplines and methods, which provide a coherent picture of anomalies, lesions and diseases of the teeth, mouth and jaws and preventive, diagnostic and therapeutic aspects of dentistry.
4. Adequate clinical experience required for general dental practice.
5. Adequate knowledge of biological function and behavior of persons in health and sickness as well as the influence of the natural and social environment on the state of health so far as it affects dentistry.

(b) Skills

A graduate should be able to demonstrate the following skills necessary for practice of dentistry:

1. Able to diagnose and manage various common dental problems encountered in general dental practice, keeping in mind the expectations and the right of the society to receive the best possible treatment available wherever possible.
2. Acquire skill to prevent and manage complications if encountered while carrying out various dental surgical and other procedures.
3. Possess skill to carry out required investigative procedures and ability to interpret laboratory findings.
4. Promote oral health and help to prevent oral diseases wherever possible.
5. Competent in control of pain and anxiety during dental treatment.

(c) Attitudes

A graduate should develop during the training period the following attitudes.

1. Willing to apply current knowledge of dentistry in the best interest of the patients and the community.
2. Maintain a high standard of professional ethics and conduct and apply these in all aspects of professional life.
3. Seek to improve awareness and provide possible solutions for oral health problems and needs throughout the community.
4. Willingness to participate in the continuing education programmes to update knowledge and professional skills from time to time.
5. To help and to participate in the implementation of national health programmes.

BDS Degree - course of study

1) The undergraduate dental training program leading to B.D.S. degree shall be a of four and a half years duration in addition to one year compulsory paid rotating internship. During this period, the students shall be required to engage in full time study at a Dental college recognized or approved by the Dental Council of India. During the first four and a half years of undergraduate course, the instruction in clinical subjects should be at least for two and a half years.

2) Basic Medical & Dental Subjects:

The basic medical and dental sciences comprise of Anatomy - Gross and Microscopic, Physiology, Biochemistry, Pharmacology, science of Dental Materials and Oral biology. Subjects like behavioral sciences, which would be useful to develop communication skills, should also be introduced in the first year itself and spread over the undergraduate course. An introduction to Public Health Dentistry also will be useful to develop the concept of commitment to community. The laboratory skills like pre-clinical Prosthodontics, Crown and Bridge, Conservative dentistry and Orthodontics is to be developed by the students. Studying dental morphology also is a part of initial training. At the end of this period the student should be in a position to understand and comprehend in general the development, structure and function of the human body in both health and disease.

3) The instruction in basic dental sciences should include theoretical and practical aspects of oral anatomy and physiology, to provide a detailed knowledge of the form and structure of teeth associated tissues and occlusal relationships. The study should also aim at development of a concept regarding physiological and biochemical processes relevant to oral cavity for better understanding of the changes that occur with the onset of disease in the oral cavity. The student should be made aware of the importance of various dental tissues in forensic investigation.

4) Clinical, Medical and Dental subjects:

The students should be introduced to clinics in the initial stage, preferably in the first year, as an observer to familiarize with clinical set-up and working. The period of instruction in the clinical subjects shall be not less than two and a half years full time. During this, the student shall attend a dental hospital, general hospital, community camps and satellite clinics, in order to obtain instruction and experience in the practice of dentistry. The main objective of training in clinical dental subjects is to

produce a graduate able and competent to recognize or diagnose various dental and oral diseases, to undertake general dental treatment, advice on the provision of specialized treatment available and finally advise the patient on prevention. The student should also understand the relationship between oral and systemic diseases.

5) The general medicine and surgery training should provide sufficient knowledge on human disease to enable the student to understand its manifestations as relevant to the practice of dentistry. This requires clinical teaching on patients and shall be carried out in in-patient and outpatient medical departments and specialist clinics. This clinical instruction should enable the student to understand and perhaps diagnose common systemic diseases, which have relevance to dental practice, by adopting a systematic approach of history taking and clinical examination. The student should also realize the significance of various general and special investigations in the diagnosis of diseases. The ability to recognize physical and mental illness, dealing with emergencies, effective communication with patients, and interaction with professional colleagues also become important aspects of this training.

6) All dental students should receive instruction in first-aid and principles of cardio- pulmonary resuscitation.The students should also spend time in an accident and emergency department of a Medical hospital.

7) The purpose of the clinical training is to provide sufficient practical skill in all aspects of clinical dentistry.The instruction should also include patient management skills, treatment of patients of all ages with special reference to children (pediatric), very elderly (geriatric), medically compromised and disabled patients.

8) During the two and a half years of clinical course, the students should receive thorough instruction which involves history taking, diagnosis and treatment planning in all aspects of dentistry and should be competent on graduation to carry out all routine general procedures. In Oral & Maxillofacial Surgery, instruction should include the knowledge of various maxillofacial problems like injuries, infections and deformities of the jaws and associated structures. The clinical experience should include those procedures commonly undertaken in general practice like extraction of teeth, minor oral surgical procedure etc. In Conservative dentistry and Endodontics, Prosthodontics and Crown & Bridge and Periodontology students should be competent on graduation to carry out routine treatments like restorations of various kinds, endodontic procedures, removable Prosthodontics, and finally various kinds of periodontal therapy. In Orthodontics & Dentofacial Orthopaedics, students should

carry out simple appliance therapy including myofacial appliances for patients. Students should also be able to appreciate the role of Dentofacial growth in the development and treatment of malocclusion. In addition, students should be aware of their limitations on graduation, need to refer patients for consultant opinion and/or treatment and also the need for postgraduate and continuous education programmes.

9) In Paediatric & Preventive Dentistry, the students should concentrate on effective management of the behavior of the child patient to instill a positive attitude, on efficacy of preventive measures and clinical management, including the treatment needs particularly for children with disabilities. In oral medicine and Radiology, the student should receive instruction in various common lesions, occurring in the oral cavity and its diagnosis with particular reference to oral cancer. All students should receive instructions and gain practical experience in taking various types of intra and extra oral radiographs and its processing and interpretation. They should be aware of the hazards of radiation and proper protective measures from radiation for the patient, operator and other staff. Since Paediatric dentistry involves the practice of various branches of clinical dentistry, training in Paediatric Dentistry is extended to Part II of the final year.

10) The successful control and management of pain is an integral part of dental practice.

Upon graduation the students should be competent to administer all forms of local anesthesia. The value of behavioral methods of anxiety management should be emphasized. The students should also have the practical experience in the administration of intra-muscular and intra-venous injections. Knowledge of pain mechanisms and strategies to control post-operative pain is essential for practice of dentistry.

11) Instruction should be given in dental jurisprudence, legal and ethical obligations of dental practitioners and the constitution and functions of Dental Council of India.

12) Infection and cross infection control assume significance in dental practice. The students should be made aware of the potential risk of transmission in the dental surgery, various infectious diseases particularly HIV and hepatitis. The students should be aware of their professional responsibility for the protection of the patients, themselves and their staff and the requirements of the health and safety regulations.

13) The subjects of Aesthetic dentistry, Oral Implantology, Behavioral sciences and Forensic Odontology have assumed great significance. Hence, these four specialties are incorporated into the undergraduate curriculum. The instruction and clinical training in aesthetic dentistry

shall be carried out by the departments of Prosthodontics and Crown & Bridge and Conservative Dentistry & Endodontics. Similarly, the instruction and clinical training in Oral Implantology shall be done by the departments of Oral & Maxillofacial Surgery, Prosthodontics and Crown & Bridge and Periodontology. The instruction in behavioral sciences should ideally commence before the students come in contact with the patients and shall be carried out by the departments of Public Health Dentistry and Paediatric and Preventive Dentistry. Forensic Odontology will be a part of Oral Pathology & Oral Microbiology and Oral Medicine and Radiology.

14) The medium of Instruction and examinations of BDS course will be in English language.

15. Attendance requirement, Progress and Conduct

Attendance requirement shall be as follows:

a) 80% in theory and 80% in Practical/ clinical, in each subject separately in each year.

b) In case of subjects in which the instructional programme extend through more than one academic year and when there is no University examination in the subject for a particular year (i.e. non-exam going subjects), the attendance requirement shall not be less than 70% in Lectures and Practical/ Clinical in the non-exam year.

c) Condonation for 10% in the attendance once in the entire course period can be granted by the Head of the Institution/College management committee.

d) Students should have a minimum of 80% attendance and 40% of internal assessment marks which is mandatory for appearing in the

University examination. Internal assessment marks for a student in a subject will be calculated as the average of the marks obtained in the model examination(compulsory) and the highest among all other internal examinations in the subject.

Any student who fails to achieve the required criteria would be ineligible for University examinations.

Goals of BDS Curriculum

At the completion of the undergraduate training program the graduates shall be competent in the following. –

A. General Skills

- Apply knowledge & skills in day to day practice.
- Apply principles of ethics.
- Analyze the outcome of treatment.
- Evaluate the scientific literature and information to decide the treatment.
- Participate and involve in professional bodies.
- Be capable of self-assessment and be willing to update the knowledge & skills from time to time.
- Inclined to do simple research projects.
- Acquire minimum computer proficiency to enhance knowledge and skills.
- Be aware of ones limitations and know when to refer patients to specialists.
- Be familiar with basic Forensic Odontology techniques and manage Geriatric dental problems.

B. Practice Management

- Evaluate practice location, population dynamics & reimbursement mechanism.
- Able to communicate freely, orally and in writing with all concerned.
- Maintain records.
- Implement & monitor infection control and environmental safety programs.
- Practice within the scope of one's competence Communication & Community

Resources.

- Assess patient's goals, values and concerns to establish rapport and guide patient care.
- Co-ordinate & supervise the activities of allied dental health personnel.
- Participate in improving the oral health of the individuals through community activities.

C. Patient Care – Diagnosis

- Obtaining patient's history in a methodical way.
- Performing thorough clinical examination.
- Selection and interpretation of clinical, radiological and other diagnostic information.
- Obtaining appropriate consultation.
- Arriving at provisional, differential and final diagnosis.

D. Patient Care - Treatment Planning

- Integrate multiple disciplines into an individual comprehensive sequence treatment plan using diagnostic and prognostic information.
- Be able to order appropriate investigations.

E. Patient Care – Treatment

- Recognition and initial management of medical emergencies that may occur during Dental treatment.
- Perform basic cardiac life support.
- Management of pain including post operative.
- Administration of all forms of local anesthesia.
- Administration of intra muscular and venous injections.
- Prescription of drugs, pre operative, prophylactic and therapeutic requirements.
- Uncomplicated extraction of teeth.
- Transalveolar extractions and removal of simple impacted teeth.
- Minor oral surgical procedures.
- Management of Oro-facial infections.
- Simple orthodontic appliance therapy.
- Taking, processing and interpretation of various types of intra oral radiographs.
- Various kinds of restorative procedures using different materials available.
- Simple endodontic procedures.
- Removable and fixed Prosthodontics.
- Various kinds of periodontal therapy.

Competencies expected- Specialty wise

ORAL MEDICINE & RADIOLOGY

At the completion of the undergraduate training programme the graduate should:

Be able to identify the common dental problems like Dental Caries and Periodontal Disease and their sequelae

Be able to differentiate the normal variations and oral mucosal lesions

Be able to identify pre cancerous and cancerous lesions of the oral cavity and refer to the concerned specialty for their management.

Have an adequate knowledge about common laboratory investigations and interpretation of their results.

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

To formulate a clinical diagnosis, order investigations, seek expert consultations to come to a final diagnosis and chart out a proper treatment plan for patients with oral lesions.

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

Be competent to take intra-oral radiographs and interpret the radiographic findings

Gain adequate knowledge of various extra-oral radiographic procedures, TMJ radiography and sialography.

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

Be familiar with jurisprudence, ethics and understand the significance of dental records with respect to law.

ORAL & MAXILLOFACIAL SURGERY

At the completion of the undergraduate training programme the graduate should:

Be able to apply the knowledge gained in the basic medical and clinical subjects in the management of patients with surgical problems.

Be able to diagnose, manage and treat patients with basic oral surgical problem

Have a broad knowledge of maxillofacial surgery and oral Implantology.

Be familiar with legal, ethical and moral issues pertaining to the patient care and communication skills.

Have acquired the skill to examine any patient with an oral surgical problem in an orderly manner.

Understand and practice the basic principles of asepsis and sterilization.

Be competent in the extraction of the teeth under both local and general anesthesia.

Be Competent to carry out certain minor oral surgical procedures under Local Anesthesia like trans-alveolar extraction, frenectomy, Dentoalveolar procedures, simple impaction, biopsy, etc.

Be Competent to assess, prevent and manage common complications that arise during and after minor oral surgery.

Able to provide primary care and manage medical emergencies in the dental office.

Be familiar with the management of major oral surgical problems and principles involved in the in-patient management.

PERIODONTOLOGY

At the completion of the undergraduate training programme the graduate should:

Be able to diagnose the patient's periodontal problem, plan and perform appropriate periodontal treatment.

Be Competent to educate and motivate the patient.

Be Competent to perform thorough oral prophylaxis, subgingival scaling, root planning and minor periodontal surgical procedures.

Give proper post treatment instructions and do periodic recall and evaluation.

Be Familiar with concepts of osteointegration and basic surgical aspects of implantology.

CONSERVATIVE DENTISTRY AND ENDODONTICS

At the completion of the undergraduate training programme the graduate should:

Be Competent to diagnose all carious lesions.

Be Competent to perform Class I and Class II cavities and their restoration with amalgam.

Be able to restore class V and Class III cavities with glass ionomer cement.

Be able to diagnose and appropriately treat pulpally involved teeth (pulp capping procedures).

Be able to perform RCT for anterior teeth

Be competent to carry out small composite restorations

Understand the principles of aesthetic dental procedures

ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

At the completion of the undergraduate training programme the graduate should:

Understand about normal growth and development of facial skeleton and dentition.

Be able to pinpoint aberrations in growth process both dental and skeletal and plan necessary treatment

Be able to diagnose the various malocclusion categories

Be able to motivate and explain to the patient and parent/ guardian about the necessity of treatment

Be able to plan and execute preventive orthodontics (space maintainers or space regainers)

Be able to plan and execute interceptive orthodontics (habit breaking appliances)

Be able to manage treatment of simple malocclusion such as anterior spacing using removable appliances

Be able to handle delivery and activation of removable orthodontic/ myofacial appliances.

Be able to diagnose and appropriately refer patients with complex malocclusion to the specialist.

PUBLIC HEALTH DENTISTRY

At the completion of the undergraduate training programme the graduate should:

Apply the principles of health promotion and disease prevention.

Have knowledge of the organization and provision of health care in community and in the hospital service

Have knowledge of the prevalence of common dental conditions in India

Have knowledge of community based preventive measures

Have knowledge of the social, cultural and environmental factors, which contribute to health or illness.

Be able to administer hygiene instructions, topical fluoride therapy and fissure sealing. for their oral health.

PROSTHODONTICS AND CROWN & BRIDGE

Graduate should:

Be able to understand and use various dental materials. complete and partial removable dentures and full veneer crowns.

Be able to carry out treatment of routine Prosthodontic procedures.

Be familiar with the concepts of osteointegration and the value of implant-supported Prosthodontic procedures.

Be able to diagnose and appropriately refer patients requiring complex treatment procedures to the specialist

PAEDIATRIC AND PREVENTIVE DENTISTRY

At the completion of the undergraduate training programme the graduate should:

Be able to instill a positive attitude and behaviour in children towards oral health and understand the principles of prevention and preventive dentistry right from birth to adolescence.

Be able to guide and counsel the parents/guardian in regards to various treatment modalities including different facets of preventive dentistry.

Be able to treat dental diseases occurring in child patient.

Be able to manage the physically and mentally challenged / disabled children effectively and efficiently, tailored to the needs of individual requirement and conditions.

RECOMMENDED BOOKS

Subject: General Human Anatomy including Embryology and Histology

1) Clinical Anatomy for Medical Students, Snell (Richard S.), Little Brown & company, Boston.
2) Anatomy, R J Last's - McMinn,
3) Cunningham Manual of Practical Anatomy: Head & Neck & Brain. Vol.III, Romanes (G.J) Oxford Medical publication.
4) Functional Histology, Wheater, Burkitt & Daniels, Churchill Livingstone.
5) Medical Embryology, Sadler, Langman's,
6) Grant's Atlas of Anatomy, James E Anderson, Williams & Wilkins.
7) Gray's Anatomy, Williams, Churchill Livingstone.
8) Medical Genetics, Emery.
9) Essentials of Anatomy for Dentistry Students, D R Singh, Wolters Kluwer.

Subject: Physiology

1) Text book of Physiology, Guyton
2) Review of Medical Physiology, Ganong
3) Human physiology, Vander
4) Concise Medical Physiology, Choudhari
5) Human Physiology, Chaterjee
6) Human Physiology for BDS students, A.K. Jain

Reference books;

1) Physiology, Berne & Levey
2) Physiological basis of Medical Practice, West-Best & Taylor's

Experimental Physiology:

1) Practical Physiology, Rannade
2) A text book of practical physiology, Ghai
3) Clinical Methods, Hutchison's

Subject: Biochemistry

1) Textbook of Biochemistry for Dental Students, DM Vasudevan, Sreekumari S
2) Text book of Biochemistry-U Satyanarayana Reference books;
1) Harper's Biochemistry, R.K. Murray et.al.
2) Text book of Biochemistry with clinical correlations T.N. Devlin
3) Basic and applied Dental Biochemistry, R.A.D. Williams & J.C. Elliot
4) Nutritional Biochemistry S. Ramakrishnan and S.V. Rao

Subject: Dental Anatomy, Embryology and Oral Histology

1) Orban's Oral Histology & Embryology - S.N. Bhaskar
2) Oral Development & Histology - James & Avery
3) Wheeler's Dental Anatomy, Physiology & Occlusion – Major M. Ash
4) Dental Anatomy - its relevance to dentistry - Woelfel & Scheid
5) Applied Physiology of the mouth – Lavelle
6) Physiology & Biochemistry of the mouth – Jenkins
7) Oral Histology- 'Development, Structure and Function- A. R. Tencate

Subject: General Pathology

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

Subject: Microbiology

1) Text book of Microbiology - R. Ananthanarayan & C.K. Jayaram Paniker.
2) Medical Microbiology - David Greenwood et al. Reference books;
1) Microbiology - Prescott, et al.
2) Microbiology - Bernard D. Davis, et al.
3) Clinical & Pathogenic Microbiology - Barbara J Howard, et al.
4) Mechanisms of Microbial diseases - Moselio Schaechter, et al.

5) Immunology an Introduction – Tizard
6) Immunology - Evan Roitt, et al.

Subject: Dental Materials

1) Phillips Science of Dental Materials - Kenneth J. Anusavice
2) Restorative Dental Materials -Robert G. Craig
3) Notes on Dental Materials - E.C. Combe

Reference books:-

1) Introduction to Dental Materials, Van Noort,
2) Applied Dental Materials, McCabe,

Subject: General and Dental Pharmacology and Therapeutics

1) Basic and Clinical pharmacology, Bertam G. Katzung, Appleton & Lange
2) Clinical Pharmacology, Lauerence DR, Churchill Livingstone
3) Pharmacology and Pharmacotherapeutics Part I & Part II, Satoskar R.S. & Bhandarkar S. D, Popular Prakashan Mumbai.
4) Essentials of Medical Pharmacology, Tripathi K.D, Jaypee Brothers
5) Medical Pharmacology, Udaykumar, CBS publishing

Subject: General Medicine

1) Textbook of Medicine Davidson
2) Textbook of Medicine Hutchinson

Subject: General Surgery

1) Short practice of Surgery Baily & Love

Subject: Oral Pathology & Oral Microbiology

1) A Text Book of Oral Pathology Shafer, Hine & Levy
2) Oral Pathology - Clinical Pathologic correlations Regezi & Sciubba.
3) Oral Pathology Soames & Southam.
4) Oral Pathology in the Tropics Prabhu, Wilson, Johnson & Daftary
5) Synopsis of Oral Pathology, Bhaskar, CBS publishing

Subject: Public Health Dentistry

1) Dentistry Dental Practice and Community by David F. Striffler and Brain A. Burt, W. B. Saunders Company
2) Principles of Dental Public Health by James Morse Dunning, Harward University Press.
3) Dental Public Health and Community Dentistry Ed by Anthony Jong Publication by The C.V. Mosby Company
4) Community Oral Health-A system approach by Patricia P. Cormier and Joyce I. Levy published by Apple ton-Century-Crofts/ New York,
5) Community Dentistry-A problem oriented approach by P. C.
6) Dental Hand book series Vol.8 by Stephen L. Silverman and Ames F. Tryon, Series editor-Alvin F. Gardner, PSG Publishing company Inc. Littleton Massachusetts,
7) Dental Public Health- An Introduction to Community Dentistry. Edition by Geoffrey L. Slack and Brain Burt, Published by John Wright and sons Bristol.
8) Oral Health Surveys- Basic Methods, 1997, published by W. H. O Geneva available at the regional office New Delhi.
9) Preventive Medicine and Hygiene-By Maxcy and Rosenau, published by Appleton Century Crofts,
10) Preventive Dentistry-by J. O. Forrest published by John Wright and sons Bristoli,
11) Preventive Dentistry by Murray,.
12) Text Book of Preventive and Social Medicine by Park and park,
13) Community Dentistry by Dr. Soben Peter.
14) Public Health dentistry, Sikri. CBS Publishing

Subject: Research methodology and Bio-statistics

1) Introduction to Bio-statistics by B. K. Mahajan
2) Introduction to Statistical Methods by Grewal

Subject: Paediatric and Preventive Dentistry

1) Dentistry for the Child and Adolescence - Mc. Donald.
2) Pediatric Dentistry (Infancy through Adolescence) - Pinkham.
3) Pediatric Dentistry : Total Patient Care – Stephen H.Y. Wei
4) Clinical Pedodontics – Sidney B. Finn
5) Fundamentals of Pediatric Dentistry – R.J. Mathewson

6) Handbook of Clinical Pedodontics - Kenneth. D.
7) Text Book of Pedodontics- Shobha Tandon
8) Pediatric Dentistry - Damle S. G.
9) Kennedy's Pediatric Operative Dentistry - Kennedy & Curzon.
10) Handbook of Pediatric Dentistry – Cameron and Widmer
11) Pediatric Dentistry - Richard R. Welbury
12) Pedodontics: A Clinical Approach - Goran Koch
13) Orthodontics and Pediatric Dentistry (Colour Guide) - D Millet & R Welbury
14) Color Atlas of Oral Diseases in Children and Adolescents - George Laskaris
15) Dental Management of the Medically Compromised Patient –J.W. Little
16) Pediatric Dentistry – Scientific Foundations and Clinical Practice – Stewart and Barber.
17) Clinical Use of Fluorides - Stephen H. Wei.
18) Understanding of Dental Caries - Niki Foruk.
19) Essentials of Community & Preventive Dentistry - Soben Peters.
20) Behaviour Management – Wright
21) Traumatic Injuries - Andreason.
22) Occlusal Guidance in Pediatric Dentistry - Stephen H. Wei / Nakata
23) Pediatric Oral & Maxillofacial Surgery - Kaban.
24) Pediatric Medical Emergencies - P. S. Whatt.
25) An Atlas of Glass Ionomer Cements - G. J. Mount..
26) Textbook of Pediatric Dentistry - Braham Morris.
27) Primary Preventive Dentistry - Norman O. Harris.
28) Preventive Dentistry - Forrester.
29) Contemporary Orthodontics - Profitt..
30) Preventive Dentistry - Depaola.
31) Endodontics - Ingle.
32) Pathways of Pulp - Cohen.
33) Management of Traumatized anterior Teeth - Hargreaves.

Subject: Oral Medicine and Radiology Oral Diagnosis, Oral Medicine & Oral Pathology

1) Oral Medicine, Burkit, J.B. Lippincott Company

2) Principles of Oral Diagnosis, Coleman, Mosby Year Book
3) Oral Manifestations of Systemic Diseases, Jones, W.B. Saunders company
4) Oral Diagnosis & Oral Medicine, Mitchell
5) Oral Diagnosis, Kerr
6) Oral Diagnosis & Treatment ,Miller
7) Clinical Methods, Hutchinson
8) Shafers, Oral Pathology
9) Principles and practice of Oral Medicine, Sonis.S.T., Fazio.R.C. and Fang.L

Oral Radiology

1) Oral Radiology White & Goaz, Mosby year Book
2) Dental Radiology, Weahrman, C.V. Mosby Company
3) Oral Roentgenographs Diagnosis, Stafne ,W.B. Saunders Co
4) Fundementals of Dental radiology, Sikri, CBS Publishing.

Forensic Odontology

1) Practical Forensic Odontology, Derek H. Clark ,Butterworth-Heinemann
2) Manual of Forensic Odontology, C Michael Bowers, Gary Bell

Subject: Orthodontics and Dentofacial Orthopedics

1) Contemporary Orthodontics- William R. Proffit
2) Orthodontics For Dental Students- White And Gardiner
3) Handbook Of Orthodontics- Moyers
4) Orthodontics - Principles And Practice- Graber
5) Design, Construction And Use Of Removable Orthodontic Appliances- C. Philip Adams
6) Clinical Orthodontics: Vol 1 & 2- Salzmann

Subject: Oral and Maxillofacial Surgery

(1) Impacted teeth, Alling John et al
(2) Principles of Oral & maxillofacial Surgery vol1,2&3 Peterson LJ et al
(3) Text book of Oral & maxillofacial Surgery, Srinivasan B

(4) Hand book of Medical emergencies in the dental office, Melamed SF
(5) Killey's Fracture of the Mandible, Banks
(6) Killey's Fractures of the Middle 3 of the Facial Skeleton; Banks P
(7) The Maxillary Sinus and its Dental Implications; Mc Govanda
(8) Killey and Kays Outline of Oral Surgery - Fart I& 2; Seward GR & et al
(9) Essentials of Safe Dentistry for the Medically Compromised Patients; Mc Carthy FM
(10) Oral & Maxillofacial Surgery, Vol I& 2; Laskin DM
(11) Extraction of Teeth; Howe GL
(12) Minor Oral Surgery; Howe GL
(13) Contemporary Oral & Maxillofacial Surgeiy; Peterson LJ
(14) Text book of Oral &Maxillofacial Surgery , Neelima Anil Malik
(15) Text book of Oral &Maxillofacial Surgery, SM Balaji
(16) Principles of Oral Surgery; Moore J'R
(17) Handbook of Local Anaesthesia, Malamed
(18) Sedation; Malamed
(19) Text book of Oral & Maxillofacial Surgery; Gustav O Kruger
(20) A Practical guide to Hospital Dentistry, Dr. George Varghese, Jaypee brothers publishing, New Delhi.
(21) A Practical guide to the Management of Impacted Tooth, Dr. George Varghese, Jaypee brothers publishing, New Delhi.
(22) Textbook of Local Anaesthesia; Monheim

Subject: Prosthodontics, and Crown & Bridge

1) Syllabus of Complete denture -Charles M. Heartwell Jr. and Arthur O. Rahn
2) Prosthodontic treatment for edentulous patients- Carl O. Boucher
3) Essentials of complete denture prosthodontics by - Sheldon Winkler.
4) Maxillofacial prosthetics by - Willam R. Laney.
5) McCraken's Removable partial Prosthodontics
6) Removable partial Prosthodontics by - Ernest L. Miller and Joseph E. Grasso.
7) Stewart's Clinical Removable Partial Prosthodontics, Quintessence Publishing Co.

8) Fundementals of Fixed Prosthodontics, Shillingburg, Quintessence Publishing Co.
9) Management of Temporomandibular Disorders and Occlusion, Jeffery P. Okeson, Mosby Year book, Inc.

Subject: Periodontology

1) Glickman's Clinical Periodontology-Carranza Reference books
1) Essentials of Periodontology and periodontics- Torquil MacPhee
2) Contemporary periodontics- Cohen
3) Periodontal therapy- Goldman
4) Orbans' periodontics- Orban
5) Oral Health Survey- W.H.O.
6) Preventive Periodontics- Young and Stiffler
7) Advanced Periodontal Disease- John Prichard
8) Clinical Periodontology- Jan Lindhe
9) Periodontics- Baer & Morris.

Subject: Conservative Dentistry and Endodontics

1) The Art & Science of Operative Dentistry, Sturdivant, Mosby U.S.A
2) Principle & Practice of Operative Dentistry, Charbeneu, Varghese Publishing, Mumbai.
3) Grossman's Endodontic Practice, B. Suresh Chandra & V. GopiKrishna, Wolters Kluwer

Subject: Esthetic Dentistry

1) Esthetic guidelines for restorative dentistry; Scharer & others
2) Esthetics of anterior fixed prosthodontics; Chiche (GJ) & Pinault (Alain)
3) Esthetic & the treatment of facial form, Vol 28; Mc Namara (JA)

Subject: Forensic Odontology

1) Practical Forensic Odontology- Derek Clark

Subject: Behaviourial Science

1) General Psychology- Hans Raj, Bhatia
2) Behavioural Sciences in Medical Practice- Manju Mehta
3) General psychology — Hans Raj, Bhatia

4) General psychology —Munn
5) Sciences basic to psychiatry — Basanth Puri & Peter J Tyrer

Subject: Ethics

1) Medical Ethics, Francis C M, Jaypee Brothers, New Delhi

Subject: Implantology

1) Contemporary Implant Dentistry, Carl. E. Misch, Mosby
2) Osseointegration and Occlusal Rehabilitation, Hobo S., Ichida. E. and Garcia L.T. Quintessence Publishing Company,

Note:

1. Book titles will keep on adding in view of the latest advances in the Dental Sciences.
2. Standard books from Indian authors are also recommended

List of Journals

1) Journal of Dentistry
2) British Dental Journal
3) International Dental Journal
4) Dental Abstracts
5) Journal of American Dental Association
6) British Journal of Oral and Maxillofacial Surgery
7) Oral Surgery, Oral Pathology and Oral Medicine
8) Journal of Periodontology
9) Journal of Endodontics
10) American journal of Orthodontics and Dentofacial Orthopedics
11) Journal of Prosthetic Dentistry
12) International Journal of Prosthodontics
13) Journal of Public Health Dentistry
14) Endodontics and Dental Traumatology
15) Journal of Dental Education
16) Dental Update
17) Journal of Dental Material
18) International Journal of Pediatric Dentistry
19) International Journal of Clinical Pediatric dentistry

Note: This is the minimum requirement. More journals both Indian and Foreign are recommended for imparting research oriented education.

SCHEME OF EXAMINATIONS

I BDS

General Human Anatomy Including Embryology and Histology

Distribution of Topics and Type of Questions for University Written examination:

Contents	Types of Questions and Marks	Marks
Questions from any topic included in the theory syllabus	Structured Essays2x 14marks	28
Questions from any topic included in the theory syllabus Except from the topics from which the long essays have been set	Brief structured Essays4 x 8marks	32
	Short Answers 10x4marks	40
	Total	100

i. Theory — 100 Marks
University Written
Internal Assessment — 25 Marks
Viva Voce:

Examiner 1-Gross Anatomy-
Examiner 2-Osteology, Surface Marking & embryology — 25 Marks

ii.	Practicals:	80 Marks
	University Practical Examination:	30 Marks
	Gross Anatomy including osteology	30 Marks
	Spotters (2 mark each) 2x 15	20 Marks
	Discussion on Dissected parts (2 Specimens) 2x15	
	Histology –spotters (10 slides) 2x10	20 Marks
	Internal Assessment:	
	Grand Total	250Marks

Physiology

SCHEME OF EXAMINATION

Type of Questions	Marks
Structured Essays1x 14marks	14
Brief structured Essays2 x 8marks	16
Short Answers5x4marks	20
Total	50

Types of Questions for written examination

i. Theory:

University written Examination:	50Marks
University Viva:	10Marks
Internal Assessment:	15 Marks

ii. Practicals:

Internal Assessment:	10 Marks
University Practicals :	40Marks

Mark distribution for University practical examination

Major Experiments: 20Marks

Any one of the Major Experiments:

R.B.C. Count, W.B.C. Count, Differential Count, Blood Pressure Recording

Minor Experiments: 15Marks

Anyone of the minor Experiments: Determination of Blood Groups, Determination of Bleeding & Clotting time, Haemoglobin Estimation, Calculation of absolute Haematological Indices–MCH, MCV, MCHC

Practical Work record: 5 Marks

3. BIOCHEMISTRY, NUTRITION AND DIETETICS

SCHEME OF EXAMINATION

Type of Questions for written examination

Type of Questions	Marks
Structured Essays1x 14marks	14
Brief structured Essays2 x 8marks	16
Short Answers5x4marks	20
Total	50

i. Theory

University written Examination:	50Marks
University Viva:	15Marks
Internal Assessment:	10 Marks

ii. Practicals:

Internal Assessment:	10 Marks
University Practicals :	40Marks

Mark distribution for University practical examination;

One procedure for quantitative estimation	15 marks
One procedure for qualitative analysis	20 marks
Practical Work record:	5 Marks

The following Procedures are suggested for University Practical Examination: Quantitative Estimation (Any ONE estimation to be done)

Estimation of blood sugar/serum creatinine/blood urea

Qualitative Analysis (Any ONE analysis to be done) Identification of sugar/ albumin/urea/uric acid/creatinine Urine Analysis – normal constituents

Report of abnormal urine

4. DENTAL ANATOMY, EMBRYOLOGY AND ORAL HISTOLOGY.

SCHEME OF EXAMINATION

Distribution of Topics and Type of Questions for University written examination

Contents	Type of Questions and Marks	Marks
Dental anatomy - one question - 14 marks Detailed morphology of Permanent teeth, Differences between Primary & Permanent teeth, Occlusion and Arrangement of teeth. B. Oral histology - one question - 14 marks Development of tooth, Enamel-structure & development, Dentin- structure& development, Cementum, Dental pulp-structure & histology, Periodontal ligament, Alveolar bone-structure & histology, Oral mucosa-structure & histology, Eruption of teeth	Structured Essays 2x 14marks	28
A. Oral histology - two questions - 16 marks B. Dental anatomy - one question - 08 marks C. Oral physiology - one question - 08 marks	Brief structured Essays 4 x 8marks	32
A. Oral histology - five questions - 20 marks B. Dental anatomy - three question - 12 marks C. Oral physiology - one question - 04 marks D. Oral embryology - one question - 04 marks	Short Answers 10x4marks	40
	Total	100

i. Theory

University written Examination:	100Marks
University Viva:	25Marks
Internal Assessment:	25 Marks

ii. Practicals:

Internal Assessment:	20 Marks
University Practicals:	80Marks
Grand Total	250 Marks

Mark Distribution for University Practical Examination:

Tooth Carving: (Time allotted 75 Minutes)	25 Marks
Spotters: (15X3 marks)	45 Marks
Practical work Record:	10 marks

Type of Spotters:

08 Histology and Ground Section slides

05 Tooth Identification

02 Casts for identification of teeth, numbering system and age assessment

(Examiners are permitted to make minor modifications)

II BDS

5. GENERAL PATHOLOGY

SCHEME OF EXAMINATION

i. Theory:

Distribution of Topics and Type o f Questions for written examination

Contents	Types of Questions and Marks	Marks
Question from General Pathology Inflammation, Healing and Repair, Tuberculosis, Leprosy, Syphilis, Thrombosis, Neoplasia, Diseases of bone, Cell injury, metabolic disturbances, Circulatory disturbances, Hypertension, diseases of oral cavity	Structured Essays 1x 14marks	14
Two questions from General Pathology Intracellular accumulations, Necrosis, Gangrene, Apoptosis, Amyloidosis, Pathologic calcification, hypersensitivity reactions, Infections, Shock, Oedema, Infarction, Congestion, Hypertension, Diabetes Mellitus, PremalignantConditions, Neoplasia, Osteomyelitis, Anaemias, NeoplasticProliferation of WBCs– Leukaemias and Lymphomas, Haemorrhagic disorders, Erythrocyte Sedimentations Rate(ESR),Urine sediment. Two from Haematology One from Clinical Pathology	Brief structured Essays 2 x 8marks Short notes 5 x 4	16 20
	Total	**50**

(1) **University written Examination:** **50Marks**

(2) **University Viva:** **10Marks**

(3) **Internal Assessment:** **15 Marks**

iii. **Practicals:**

(1) **Internal Assessment:** **10 Marks**

(2) **University Practicals :** **40Marks**

Mark distribution for University practical examination

Spotters

Haematology slide	2x 2marks
Histopathology slides	5x2marks
Specimens	2x2marks
Instruments	1x2marks
To examine given sample of urine for abnormal constituents	5 marks
To do differential count on the given peripheral blood smear	5 marks
To estimate haemoglobin percentage in the given sample of blood	5 marks
or	
To determine blood groups (ABO and Rh)in the given sample of blood	
Practical work record	5 marks
TOTAL	**40 Marks**
Grand Total	125 Marks

6. GENERAL MICROBIOLOGY

SCHEME OF EXAMINATION

i. Theory

Distribution of Topics and Type of Questions for University written examination:

Contents	Types of Questions and Marks	Marks
One Long Essay question from Systematic Bacteriology	Structured Essays 1 x 14marks	14
One question from General bacteriology One question from Immunology One question from Mycology One question from Parasitology / Oral Microbiology One question from Systematic Bacteriology	Brief structured Essays 2 x 8marks	16
One question from General bacteriology One question from Immunology One question from Systematic Bacteriology Two questions from Virology	Short Answers 5x4marks	20
	Total	**50**

(1) **University written Examination:**	**50 Marks**
(2) **University Viva:**	**15 Marks**
(3) **Internal Assessment:**	**10 Marks**
iv. **Practicals:**	
(1) **Internal Assessment:**	**10 Marks**
(2) **University Practicals :**	**40 Marks**
Grand Total	**125 Marks**

Mark distribution for University practical examination

Spotters	
Slides	5x 2 Marks
Media	3x2 Marks
Instruments	2x2 Marks
Gram's Stain	7 Marks

7. DENTAL MATERIALS

SCHEME OF EXAMINATION:

The University Theory examination will have two sections of 50 marks each Section A Prosthodontics & Section B Conservative Dentistry

For Dental Materials University Practical Examination, if internal examiner is from Prosthodontics, External examiner should be from Conservative Dentistry and vice versa

Distribution of Topics and Type of Questions for written examination **Section A: Prosthodontics**

Contents	Types of Questions and Marks	Marks
Question from any Prosthodontic topic included in Section A	Structured Essays 1 x 14marks	14
Questions from any Section A topic including orthodontics. Avoid questions in the topic from which long essay question is set	Brief structured Essays 2 x 8 marks	16
	Short Answers 5x4marks	20
	Total	**50**

i. Theory

University Written **50Marks**

Internal Assessment **15 Marks**

Viva Voce: **10 Marks**

ii. Practicals:

University Practical Examination: **40 Marks**

Spotters (*5x 2Marks)* *10 Marks*

Manipulation of Any one of the following Dental materials: *25 Marks*

Gypsum products

Irreversible Hydrocolloid

Impression Compound

Rubber base impression Material

Zinc Oxide Impression Material

Practical Work Record *5 Marks*

Internal Assessment: **10 Marks**

Grand Total **125 Marks**

Distribution of Topics and Type of Questions for University Written examination:

Section B: Conservative Dentistry

Contents	Types of Questions and Marks	Marks
Question from Any Conservative Dentistry topic in Section B	Structured Essays 1 x 14marks	14
Questions from any Section B topic including orthodontics. Avoid questions in the topic from which long essay question is set	Brief structured Essays 2 x 8 marks	16
	Short Answers 5x4marks	20
	Total	**50**

i. Theory

University Written	**50Marks**
Internal Assessment	**10 Marks**
Viva Voce:	**15Marks**

ii. Practicals:

University Practical Examination:	**40 Marks**
Spotters (*5x 2Marks)*	*10 Marks*
Manipulation of Any one of the following	
Dental Cements:	*25 Marks*
ZnO Euginol (Luting/Filing Consistency)	
Zinc Phosphate Cement (Luting/base Consistency)	
Glass Ionomer Cement Type I/II (Luting/Filling Consistency)	
Polycarboxylate Cement (Luting Consistency)	
Amalgam Trituration	
Practical Work Record	*5 Marks*
Internal Assessment:	**10 Marks**
Grand Total	**125 Marks**

8. GENERAL AND DENTAL PHARMACOLOGY AND THERAPEUTICS

SCHEME OF EXAMINATION

Distribution of Topics and Type of Questions for University Written examination:

Contents	Types of Questions and Marks	Marks
Questions from Pharmacokinetics, pharmacodynamics, antibiotics, NSAID's, Local Anaesthetics, Anticoagulants, Beta blockers, Glucocorticoids, Calcium Channel blockers, ACE inhibitors, Opioid analgesics, Sympathomimetics, Anti-Cholinergics, Cardiac Glycosides, Dental Pharmacology.	Structured Essays 1 x 14marks	28

Questions should Preferably be set from all other chapters excluding the one from which a Long Essay Question has been set	Brief structured Essays 2 x 8 marks	32
	Short Answers 5x4marks	40
	Total	**100**

iii. Theory

University Written **100 Marks**

Internal Assessment **25 Marks**

Viva Voce: **25 Marks**

iv. Practicals:

University Practical Examination: **80 Marks**

Spotters *10x 1Mark 10 Marks*

Prescriptions (1 Medical & 1 Dental) *2x10Marks* *20 Marks*

Preparations (1 Medical & 1 Dental) 2x20Marks *40 Marks*

Practical Work Record *10 Marks*

Internal Assessment: **20 Marks**

Grand Total **250 Marks**

9. PRE CLINICAL CONSERVATIVE DENTISTRY

SCHEME OF EXAMINATION

i. Practicals

University practical examination		60
University Viva Voce		20
Internal Assessment		20
	Grand Total	**100**

Distribution of Marks for Preclinical Conservative Dentistry University Practical Examination

(1) Tooth Preparation and Restoration	*45 Marks*
(2) Spotters (5 x 2 Marks)	*10 Marks*
(3) Preclinical Practical Work Record	*05 Marks*
Total:	***60 Marks***

Practical Exercise No. *(1):* 45 Marks

Class II Conventional / Conservative preparation for Silver Amalgam restoration on Maxillary or Mandibular first or second Molar typhodont tooth.

Cavity preparation 45 Minutes	*20 Marks*
Base and Matrix 15 Minutes	*10 Marks*
Amalgam restoration and carving 30 Minutes	*15 Marks*

Practical Exercise No. *(2):*

Spotters: Time: (2 minutes each X 5) 10 Minutes *10Marks*

Type of Spotters:

Hand instruments used for tooth preparation and restoration

Identification of Root Canal Instruments

10. PRE CLINICAL ORTHODONTICS

SCHEME OF EXAMINATION

i. Practicals

University practical examination	60
University Viva Voce	20
Internal Assessment	20
Grand Total	100

Distribution of Marks for Preclinical Orthodontics University Practical Examination

(1) Wire bending exercises	*55 Marks*
(2) Preclinical Practical Work Record	*05 Marks*

Wire bending exercises and their mark distribution should be as follows:

a) Labial bow	20 Marks
b) Clasp	20 Marks
c) Spring	15Marks

Note: Preclinical viva should be limited to, Orthodontic material science (orthodontic wire alloys, impression materials, acrylic, Gypsum products), removable appliances, study models, soldering and welding

11. PRECLINICAL PROSTHODONTICS AND CROWN & BRIDGE

SCHEME OF EXAMINATION

i. Practicals

University practical examination	60
University Viva Voce	20
Internal Assessment	20
Grand Total	100

Distribution of Marks for Preclinical Prosthodontics University Practical Examination

(1) Arrangement of teeth in class I relation, Waxing, Carving & Polishing:	*35 Marks*
(2) Drawing the Design for a Cast Partial Denture and marking its components	*15 Marks*
(3) Preclinical Practical Work Record	*10 Marks*

Note: Preclinical viva should be limited to, Laboratory Procedures related to Complete Denture Fabrication, Articulators, Anatomical landmarks, Impression Procedures, Introduction to jaw relation recording, Selection & arrangement of teeth, Complete Denture Occlusion, Try in Procedures and Components of RPD & FPD.

III BDS

12. GENERAL MEDICINE

SCHEME OF EXAMINATION

Distribution of Topics and Types of Questions for University Written Examination:

Types of Questions and Distribution of Marks	Total Marks
Structured Essays 2 x 14marks	28
Brief structured Essays 4 x 8 marks	32
Short Answers 10x4marks	40
Total	**100**

i. Theory

University Written **100 Marks**

Internal Assessment **25 Marks**

Viva Voce: **25 Marks**

ii. Clinicals:

University Clinical Examination: **80 Marks**

Case History	*15 Marks*
Clinical Examination	*30 Marks*
Investigation	*10Marks*
Diagnosis & D.D	*15 Marks*
Management	*10 Marks*

Internal Assessment: **20 Marks**

Grand Total **250Marks**

13. GENERAL SURGERY

SCHEME OF EXAMINATION

Distribution of Topics and Types of Questions for University Written examination:

Types of Questions and Distribution of Marks	Total Marks
Structured Essays 2x 14marks	28
Brief structured Essays 4 x 8marks	32
Short Answers 10x4marks	40
Total	**100**

i. Theory

University Written **100 Marks**

Internal Assessment **25 Marks**

Viva Voce: **25 Marks**

ii. Clinicals:

University Clinical Examination: **80 Marks**

Long Case

Case History	*15 Marks*
Clinical Examination	*30 Marks*
Suggested Investigations	*10Marks*
Diagnosis & D.D	*15 Marks*
Management	*10 Marks*

Internal Assessment: **20 Marks**

Grand Total **250Marks**

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14 . ORAL PATHOLOGY & ORAL MICROBIOLOGY

SCHEME OF EXAMINATION

Distribution of Topics and Types of Questions for University Written Examination:

Contents	Types of Questions and Distribution of Marks	Total Marks
One or both questions can be from Oral pathology	Long Essays 2x 14marks	28
A. Oral Pathology - three questions B. Oral Microbiology - one question	Short Essays 4x8marks	32
A. Oral Pathology - eight questions B. Forensic Odontology - two questions	Short Answers 10x4marks	40
	Total	**100**

i. Theory

University Written **100 Marks**

Internal Assessment **25 Marks**

Viva Voce: **25 Marks**

ii. Clinicals:

University Clinical Examination: **80 Marks**

Spotters (Specimen-identification & points in support-5x 4 Marks) *20 Marks*

Histopathology slides (Diagram, Labelling and salient features) 10x4 *40Marks*

Forensic Odontology (Estimation of age from ground sections) 10 Marks

Clinical Work Record & Seminar *10 Marks*

Internal Assessment: **20 Marks**

Grand Total **250Marks**

IV BDS

15. PUBLIC HEALTH DENTISTRY

SCHEME OF EXAMINATION

Distribution of Topics and Types of Questions for University Written Examination:

Contents	Types of Questions and Distribution of Marks	Total Marks
Any topic within the syllabus of Public Health Dentistry	Structured Essays 2x 14marks	28
	Brief structured Essays 4 x 8marks	32
	Short Answers 10x4marks	40
	Total	**100**

iii. Theory

University Written	100 Marks
Internal Assessment	25 Marks
Viva Voce:	25 Marks

iv. Clinicals:

University Clinical Examination:	80 Marks
Case history taking	10 Marks
Assessment of oral health status using any 2 relevant indices	30Marks
Spotters with descriptive statistical test	20 Marks
Record	10Marks
Oral Health Education Talk/ Presentation of oral health education material/Short term student research project presentation /statistical test	10 Marks
Internal Assessment:	20 Marks
Grand Total	**250Marks**

16. PERIODONTOLOGY

SCHEME OF EXAMINATION

Distribution of Topics and Types of Questions for University Written Examination:

Contents	Types of Questions and Distribution of Marks	Total Marks
Questions from any of the Periodontology Topics	Structured Essays 2x 14marks	28
	Brief structured Essays 4 x 8marks	32
	Short Answers 10x4marks	40
	Total	**100**

v. Theory

University Written **100 Marks**

Internal Assessment **25 Marks**

Viva Voce: **25 Marks**

vi. Clinicals:

University Clinical Examination: **80 Marks**

Case History, Clinical Examination, Diagnosis & Treatment Planning 30*Marks*

Oral prophylaxis 30 Marks

Clinical Work Record & Seminar 20 *Marks*

Internal Assessment: **20 Marks**

Grand Total **250Marks**

V BDS Part II

17. ORAL MEDICINE AND RADIOLOGY

SCHEME OF EXAMINATION

Distribution of Topics and Types of Questions for University Written Examination:

Contents	Types of Questions and Distribution of Marks	Total Marks
One question from oral medicine and one from radiology	Structured Essays 2x 14marks	28
A. Diagnostic Methods – Two questions B. Differntial Diagnosis - two questions C. Therapuetics– Two question D. Radiation Physics – One question E. Techniques – Two Questions F. Radiographic Interpretation – One Question	Brief structured Essays 4 x 8marks	32
A. Four Questions from Oral Medicne B. Four Questions from Radiology C. Two from Forensic Odontology	Short Answers 10x4marks	40
	Total	**100**

vii. Theory

University Written	**100 Marks**
Internal Assessment	**25 Marks**
Viva Voce:	**25 Marks**

viii. Clinicals:

University Clinical Examination:	**80 Marks**
Spotters (1 mark each) *1x 10*	*10 Marks*
Discussion Long Case *1x30*	*30 Marks*
Taking and Interpretation of Radiograph *1x30*	*30 Marks*
Work Record and seminar	*10 Marks*
Internal Assessment:	**20 Marks**
Grand Total	**250 marks**

18. ORTHODONTICS& DENTOFACIALORTHOPAEDICS

h) SCHEME OF EXAMINATION

Distribution of Topics and Types of Questions for University Written Examination:

Contents	Types of Questions and Distribution of Marks	Total Marks
Growth and development, classification and etiology of malocclusion, diagnostic aids, interceptive orthodontics, anchorage, biomechanics, biology of tooth movement, methods of gaining space, myofunctional appliances, orthopaedic appliances, retention and relapse	Structured Essays 2x 14marks	28
	Brief structured Essays 4 x 8marks	32

Contents	Types of Questions and Distribution of Marks	Total Marks
Introduction and historical background, growth and development, occlusion and malocclusion – classification and etiology. Diagnostic aids, skeletal maturity indicators, preventive and interceptive orthodontics, general principles of treatment planning, anchorage, biomechanics, biology of tooth movement, methods of gaining space, orthodontic appliances – removable and fixed appliances, myo-functional and orthopaedic appliances, management of various malocclusions, management of cleft lip and palate, surgical orthodontics, adult orthodontics, retention and relapse, computers in orthodontics, genetics and ethics.	Brief structured Essays 4 x 8marks	32
	Short Answers 10x4marks	40
	Total	**100**

ix. Theory

University Written	**100 Marks**
Internal Assessment	**25 Marks**
Viva Voce:	**25 Marks**
x. Clinicals:	
University Clinical Examination:	**80 Marks**
Case Presentation	*25Marks*
Impression Making	*20 Marks*
Spotters (10 x 2 Marks)	20 Marks
Clinical Work Record/Seminar/Assignment	*15 Marks*
Internal Assessment:	**20 Marks**
Grand Total	**250Marks**

19. ORAL & MAXILLOFACIAL SURGERY

SCHEME OF EXAMINATION

Distribution of Topics and Types of Questions for University Written Examination:

Contents	Types of Questions and Distribution of Marks	Total Marks
One Question From Local Anaesthesia One Question From Oral Surgery	Structured Essays 2x 14marks	28
Six Question From Oral Surgery, One Question From Local Anaesthesia, , One Question From General Anaesthesia	Brief structured Essays 4 x 8marks	32
Questions from any of the Oral & Maxillofacial Surgery topics.	Short Answers 10x4marks	40
	Total	**100**

xi. Theory

University Written	**100 Marks**
Internal Assessment	**25 Marks**
Viva Voce:	**25 Marks**

xii. Clinicals:

University Clinical Examination:	**80 Marks**
Extraction of one firm tooth (Maxillary/ Mandibular)	
Case History	*20 Marks*
Local Anaesthesia technique	*25 Marks*
Extraction of firm tooth & patient management	25 Marks
Clinical Work Record & Seminar	*10 Marks*
Internal Assessment:	**20 Marks**
Grand Total	**250Marks**

20. CONSERVATIVE DENTISTRY AND ENDODONTICS

SCHEME OF EXAMINATION

Distribution of Topics and Types of Questions for University Written Examination:

Contents	Types of Questions and Distribution of Marks	Total Marks
One Question From Conservative Topics One Question From Endodontic Topics	Structured Essays 2x 14marks	28
Seven Question From Conservative Topics including esthetics and Three Question From Endodontic Topics Questions from any of the Conservative & Endodontic topics.	Brief structured Essays 4 x 8marks Short Answers 10x4marks	32 40
	Total	**100**

xiii. Theory

University Written **100 Marks**
Internal Assessment **25 Marks**
Viva Voce: **25 Marks**

xiv. Clinicals:

University Clinical Examination: **80 Marks**
Internal Assessment: **20 Marks**
Grand Total **250Marks**

Details of Mark distribution for university Practical examination:

Clinical Exercise: 70 marks

Work Record : 10 marks

Clinical Exercises

1. Preparation for class II amalgam and restoration

Or

2.Anterior composite restoration

Or

3. Root canal treatment for anterior tooth up to selection of master cone

Mark distribution for the clinical examinations

1. Class II amalgam restoration

i) Case history recording, examination,
diagnosis and treatment planning : 15 min 10 marks

ii) Tooth preparation : 45 min 20 marks

iii) Base and matrix : 15 min 15 marks

iv) Restoration and carving : 30 min 25 marks

Total : 70 marks

2. Anterior composite restoration

i) Case history recording, examination,
diagnosis and treatment planning : 15 min 10 marks

ii) Tooth preparation : 30 min 25 mark

iii) Lining and matrix : 15 min 10 marks

iv) Restoration and finishing : 45 min 25 marks

Total : 70 marks

3. Anterior RCT

i) Case history recording, examination,
Diagnosis and treatment planning : 15 min 10 marks

ii) Access preparation : 30 min 25 marks

iii) Working length : 15 min 10 marks

iv) Cleaning and shaping,
Master cone selection : 45 min 25 marks

Total : 70 marks

21. PROSTHODONTICS AND CROWN & BRIDGE

SCHEME OF EXAMINATION

Distribution of Topics and Types of Questions for University Written Examination:

Contents	Types of Questions and Distribution of Marks	Total Marks
One Question From Complete Denture topics and one from either FPD or RPD	Structured Essays 2x 14marks	28
4 Questions from Complete denture, 3 questions from RPD, 2 questions from FPD and 1 question from Miscellaneous topics	Brief structured Essays 4 x 8marks	32
Questions from any of the Prosthodontic topics	Short Answers 10x4marks	40
	Total	**100**

xv. Theory

University Written	**100 Marks**
Internal Assessment	**25 Marks**
Viva Voce:	**25 Marks**

xvi. Clinicals:

University Clinical Examination:	**80 Marks**
Case History	*5 Marks*
Complete Denture clinical steps	*45 Marks*
Tooth Preparation on Typhodont or RPD designing	20 Marks
Clinical Work Record & Seminar	*10Marks*
Internal Assessment:	**20 Marks**
Grand Total	**250Marks**

PEADIATRIC& PREVENTIVE DENTISTRY

SCHEME OF EXAMINATION

Distribution of Topics and Types of Questions for University Written Examination:

Contents	Types of Questions and Distribution of Marks	Total Marks
Questions from any of the Paediatric & Preventive Dentistry Topics	Structured Essays 2x 14marks	28
	Brief structured Essays 4 x 8marks	32
	Short Answers 10x4marks	40
	Total	**100**

xvii. Theory

University Written	100 Marks
Internal Assessment	25 Marks
Viva Voce:	25 Marks

xviii. Clinicals:

University Clinical Examination:	80 Marks
Case History, Clinical Examination, Diagnosis & Treatment Planning	40 Marks
Clinical Procedure: Oral prophylaxis and topical fluoride application/ Restoration of decayed tooth/ Extraction of tooth	20 Marks
Chair side preparation & Measures taken for infection control	5 Marks
Overall management of the child patient & Post operative instructions	5 Marks
Clinical Work Record + Seminar + Chart/Poster/Study model 5+3+2=	10 Marks
Internal Assessment:	20 Marks
Grand Total	250Marks

COMPULSORY PAID ROTATING INTERNSHIP PROGRAMME

After passing the Final BDS part II Degree Examination the candidate has to undergo Compulsory Paid Rotating Internship programme for Twelve months (i.e. 365 days) in the same institution. During this period the candidates will be posted in all the clinical departments of the institution. The Degree will be awarded only after successful completion of the Internship programme. During this training period they will have to attend to the routine clinical activities of the department under the supervision of faculty members. The interns will also be posted in the Dental Casualty for attending to the emergency services of the institution and may also include rural postings.

a) The duration of posting of interns in various departments will be as follows:-

Sl.No.	Department	No. of Days
1.	Prosthodontics	60
2.	Conservative dentistry	45
3.	Oral & maxillofacial Surgery	60
4.	Orthodontics	30
5.	Pedodontics	30
6.	Oral Medicine & Radiology	30
7.	Periodontics	45
8.	Community Dentistry/ Rural services/ Palliative care	30
9.	Oral Pathology	15
10.	Elective (any of the subjects listed from 1 to 7)	20

b) Duties & responsibilities of Intern posted in various departments include:-

i. Attending to the routine O.P in the Department

ii. Carrying out the routine clinical procedures in the department

iii. Carrying out Patient and instrument Preparation for clinical procedures.

iv. Carrying out all Clinical procedures including impression making, and pouring casts (i.e. steps including mixing of impression materials &

gypsum products, mixing of restorative materials and removal of casts from impressions to be done by the internee without seeking assistance)

v. Fabrication insertion and follow up of removable orthodontic appliances. vi. Attending to the casualty duties of the institution

vii. Maintenance of log book and records

viii. Carrying out any other duty as instructed by the Head of the Department. ix. Maintenance of proper dress code and attire.

Note: The entire clinical work done by intern will be under the supervision of faculty members. In the absence of faculty the intern will be under the supervision of Senior/Junior Resident.

c) Suggested internship programme in Community Dentistry:

i. At the college:Interns are posted to the department to get training in dental practice management.a) Total oral health care approach- in order to prepare the new graduates in their approach to diagnosis, treatment planning, cost of treatment,prevention of treatment on schedule, recall maintenance of records etc. atleast 10 patients (both children and adults of all types).b) The practice of chair side preventive dentistry including oral health education

ii. At thecommunityoralhealthcarecentre(adopted by the dental college in rural areas)Graduates posted to familiarize in:(a) Survey methods, analysis and presentation of oral health assessment of school children and community independently using WHO basic oral health survey methods.

(b) Participation in rural oral health education programmes.(c) Stay in the village to understand the problems and life in rural areas

iii. In Pain and palliative care centre

iv. DESIRABLE:Practical knowledge in the use of computers: Operating system, word processor, spread sheet, power point and patient management software etc.

Rules & Regulations

GENERAL RULES OF PUSHPAGIRI COLLEGE OF DENTAL SCIENCES

General Behaviour

a) All students are expected to conduct themselves with decorum and discipline at all times and in all places. Each one should maintain the highest moral standard always and refrain from using foul language.

b) Students should report for classes punctually at 8 am. They should not loiter around during class hours and should refrain from noisy unruly behavior in the college and class rooms.

c) Students are not permitted to use mobile phones at all in the college campus.

d) Students are not allowed to bring any vehicles into the college campus or the hostels.

e) All assignments and other works given by teachers should be regularly done and submitted in time.

f) Students are expected to be polite and courteous in their behavior at all times.

g) Students should not deface or dirty the walls, benches or other furniture. Classrooms and surroundings should be kept tidy and clean. Litter should be put in the waste bins only.

h) For irregular attendance, disobedience, malpractice at exams or any action not conducive to the moral tone and discipline of the institution, a student may incur punishment including suspension or dismissal.

i) Hostels are out of bounds to the day scholars.

j) Students are responsible for any valuables/ cash carried by them and the institution will not be responsible for any loss sustained. However this may be reported to the Principal's office.

k) Any damage done to the college property should be paid for.

l) Any serious breach of discipline including discourtesy and disrespect to the staff/management/wardens in any way will be taken seriously.

m) Parents staying abroad should give the contact details of a responsible guardian who can take the entire responsibility of the ward, in the absence of the parent.

n) Gambling, smoking, consumption of alcoholic drinks, reading/ browsing of pornographic material, keeping or using of dangerous drugs is prohibited.

o) Ragging in ANY FORM is STRICTLY prohibited and any indulgence in such activity will result in IMMEDIATE EXPULSION. Ragging, whether physical or psychological, is a criminal offence before the Indian Law, as detailed in 'The Kerala Prohibition of Ragging Act- 1998' , Act 10 of 1998 published in Kerala Gazette Extra No.1007 dated 24/6/1998. The Principal will notify the offence to the police if deemed necessary, after consultation with the management.

p) Students are prohibited in getting engaged in political agitations, strikes or demonstrations of any kind. They should not put up or circulate notices, hold meetings or collect subscriptions of any sort, under any circumstances, anywhere in the college or hostel premises, without prior permission from the Principal.

Dress Code

Students should wear clean, neat and presentable clothing. Boys should be clean shaved. Students are advised to follow the dress advised by the College.

Dress Code for Boys

- Trousers and collared shirt
- Shoes and Socks
- Clean white apron with name tag

Dress Code for Girls

- Formal wear dress like Churidar
- Closed foot wear
- Hair (beyond shoulder length) to be tied up
- Clean white apron with nametag

In case of violation of the dress code, the student concerned will be asked to leave the academic session.

Fees structure:

Tution Fee

All students should remit the tution fees for the academic year within the stipulated time period. Late payment would result in fine.

College Caution Deposit

A one time refundable caution deposit should be paid at the time of admission.

Hostel Fee

Hostel fees should be paid for one full year at the time of admission. Late payment would result in fine.

Hostel Caution Deposit

A one time refundable caution deposit should be paid at the time of admission. This shall be refunded once the student vacates the hostel.

Hostel Mess Fee

Hostel provides both vegetarian and non-vegetarian food for students. Students should pay the mess fee for 6 months inadvance. Students can avail reduction of mess fees if they are not in hostel for a minimum of 5 days.

Transportation Fee

Transportation is available for the students from Dental College to Medical College.

Mode of payment

Fees can be remitted at South Indian Bank medicity campus in the form of cash/DD.

Academics

The medium of instruction is English. All students must be in possession of the identity cards provided by the college. Any loss should be promptly reported to the Principal. The cards must not be mutilated, defaced or rendered ineffective for identification. The card must be returned at the termination of course/withdrawal from the institute.

Students would be assigned assignments, project works, seminars, practical exercises during their academic curriculum. **Students should have a minimum of 80% attendance and 40% of internal assessment marks which is mandatory for appearing in the University examination. Internal assessment marks for a student in a subject will be calculated as the average of the marks obtained in the model examination(compulsory) and the highest among all other internal examinations in the subject. Any student who fails to achieve the required criteria would be ineligible for University examinations.**

Regular PTA meeting would be arranged for the interaction of the parent with the teachers to discuss the performance of their ward. Parents are requested to attend the scheduled PTA meetings without fail.

Students are advised to make full use of the central library available which has a large collection of books and latest journals.The library also has internet facility. Students are responsible for any textbooks, library books, or any equipment loaned to or used by them. If misused or damaged, students will be responsible for charges to repair or replace. Students should maintain perfect silence in the library.

Interfering or tampering any of the office records of college/ university is a serious offence and will result in suspension/ rustication.

Students can avail leave on special grounds only with prior permission of the HODs concerned.

Any student involved in or encouraging the involvement of another student in fighting will be suspended. Persistent involvement will result in expulsion from the college.

Ragging

Ragging within or outside the institution is prohibited. Students who directly or indirectly commits, participates in, abets or instigates ragging inside or outside the institution shall be suspended, expelled or rusticated from the institution. The punishment includes rigorous imprisonment, cancellation of admission, suspension from attending classes, withholding/ withdrawing fellowship/scholarship and other financial benefits.

Ragging includes display of noisy, disorderly conduct, teasing, rough or rude treatment, indulging in rowdy, undisciplined and obscene activities which cause or are likely to cause annoyance, undue hardship, physical or psychological harm or mental trauma or raise apprehension or fear in a fresher or other students, or forcing a student to do any act which such a student is not willing to do or which causes him/ her shame or embarrassment or danger to his/her life or indulging in eve teasing. The students are reminded that ragging in educational institutions in the state of Kerala is a crime and punishable by imprisonment upto 2 years and a fine upto Rs 10000/- according to the Kerala Prohibition of Ragging Act 1998(Act 10 of 1998) the offending students also invite expulsion from the college and are banned from admission to any college for a period of 3 years.

All students should file an online affidavit through the website www.antiragging.in or www.amanmovement.org.The online affidavit should be signed by the student and parent and submitted to the college office at the time of admission.

Information for Students

1. To become a good professional, the student should be very clear in his/her ambition and set appropriate goals for themselves.
2. The priorities for the day should be clear in the mind.
3. Proper time management is very essential (with proper time management a student can easily have 3 hours of relaxation per day and read for 5 hours per day).
4. Mind and body should be kept active. Priorities and ambition may be forgotten if relaxation is overdone.
5. Attendance and internal assessment are two valuable tools to monitor the academic progress of a student. To avoid anxiety and tension before exam one should maintain a good record of attendance and internal assessment. Though 100% attendance is essential, 20% absenteeism is permitted to cover ill health and family commitments.
6. It is advisable that students stay only in hostels. When in hostels, they are expected to abide by the hostel rules and regulations. It is mandatory for students to keep the warden informed of their visits to a friend or relative or if he or she is going to be away from the hostel for more than a day. Students should not keep costly and valuable items in the room.
7. The behaviour of the student in and around the campus should befit the noble profession they have opted for. Lab coats (apron) should be worn only inside the campus.
8. During clinical postings, should behave appropriately when dealing with patients.
9. Students are expected to strictly observe the dress code of the institution.
10. Indiscipline will be dealt with as per rules and the nature of punishment can vary from suspension to dismissal from the institution.
11. In case of ill health, students should report to the casualty at Pushpagiri Medical College Hospital.
12. Any student involved in criminal offences in the campus and any indiscipline outside the campus will be handled by the concerned authorities.
13. The following are banned and severely dealt with:
    - Drugs, drinking (liquor) and smoking
    - Ragging & eve teasing

- Cheating, stealing, provocation, coercion, threats, pressure tactics & fights

14. Appropriate stringent action has been taken to prevent ragging. Anti-ragging Committee, Anti-ragging Squad, are the committees which will oversee and take appropriate steps to prevent ragging.
15. **Students are not permitted to use mobile handsets with camera in the college. The equipment shall be confiscated if the student is found to possess it.**

Mandatory Vaccination for all students

- **Hepatitis 'B' Vaccine:** 3 doses
  0, 1, 6 months (Intra muscular)

Optional Vaccination for students

- **Chickenpox Vaccine:** 2 doses
  0, 6 Weeks (Subcutaneous)
- **Typhoid Vaccine:** Single dose (Intramuscular)
  3 years immunity following vaccination
  Hepatitis A Vaccine: 2 doses
  0, 6 months

LEAVE RULES FOR BDS STUDENTS

1. Application for leave **up to three days** need be submitted only to the concerned departments and approval must be obtained prior to availing the leave.
2. Other than for special circumstances, leave for **four days or more** shall be granted only on medical grounds.
3. The student availing medical leave should, as soon as possible, inform the class representative by telephone. The class representative should inform the concerned departments and the college office regarding the same.
4. Leave on medical grounds should be submitted to the college office on the day of rejoining along with the medical certificate.
5. Student staying in the hostel need to submit separate leave application approved by the Vice Principal to the Hostel Warden.
6. Separate application forms are available in the college office for:-

a. Leave up to 3 days.
b. Leave for 4 days or more.
c. Leave from hostel

HOSTEL FACILITIES AVAILABLE

St. Thomas Hostel for Men

St. Alphonsa Hostel for Women

General information about hostels

Separate hostel accommodation is provided for men and women. All BDS students should stay in the hostel, except for those residing within a radius of three kilometers from the college campus.

Administration

The Principal will be in charge of the overall administration of the students' hostels. The day to day administration of the hostels will be done by the Warden in charge of the hostel. Wardens and assistant wardens will be appointed by the Chief Executive Officer as and when required with due information to the Principal.

The wardens shall be in contact with the Director-Medicity, who is also in charge of student welfare in all the hostels. He shall render spiritual and moral assistance to the students through personal counselling and guidance. He will be available in his office during fixed times and on appointment.

The Holy Mass is being celebrated in the Chapel every day at 6.00 am. All Christian students are expected to attend the Holy Mass and other prayer facilities available in the Chapel.

IMPORTANT CONTACT NUMBERS

Hostels:

St. Thomas Hostel (Boys) :	0469 2623326
Warden - Mr Varghese -	9495726214
Alphonsa Hostel (Girls) :	0469 - 2645183 0469 - 2645123
Chief Warden St. Theresitt F.D.S.H.J -	8547998116
Rev.Sr. Anila F.D.S.H.J -	9847974591
Rev. Sr Merin F.D.S.H.J -	

HOSTEL RULES AND REGULATIONS

1. It is mandatory for students to staying in the hostels and be a member of the mess in the hostel.
2. The Chief Warden reserves the right to break open rooms in case of any violation of hostel rules, suspected unlawful activities or on the basis of security risk perceived.
3. Students are requested to avoid shouting, playing loud music or making all types of noises which are likely to distract the attention of those who may be studying in their rooms.
4. Pets of all kinds are prohibited inside the hostel. Feeding stray dogs or cats in the hostel premises is not permitted.
5. All visitors including parents/ guardians must be entertained only in the visitors lounge and during visiting hours only. A visitors pass will be obtained from the office of the chief warden, well in advance by concerned student.
6. Cooking in hostel rooms is not permitted.
7. All instructions/ notices displayed on notice boards will be deemed to have been read by all residents and excuses for non-compliance of such instructions and notices will not be accepted. Residents are advised to look at the notice board everyday to acquaint themselves with latest information/orders.

8. Students must switch off all lights and fans, and electrical appliances if any before leaving their rooms. This is necessary to avoid an inadvertent fire.
9. In case of Fire: Residents must raise an alarm and call the hostel Warden. They should also alert the Security.
10. The Chief Warden/ Warden or his representative may enter any room for verification at any time of the day or night.
11. The management reserves the right to break open the rooms in case of violations of hostel rules, suspected unlawful activities and security risk cases or where the student is absent from his room for a long period without prior information or any valid reason. This will, however, be carried out by the security person in the presence of the hostel Warden. On such occasions, the items in the room will be listed by these officials and kept in the store room. A verbal report, followed by a written report will be sent to the higher authorities.
12. Proxy or dummy room-mates are forbidden. Strict action will be taken if accommodation is held as proxy. They are liable to be removed from the hostel. Residents are not permitted to allow their rooms to be used by others. All visitors and non-residents including students from other hostels must leave the hostel/ other students rooms during nights. All residents are advised to extend their fullest co-operation to see that no unauthorised persons enter or stay in the hostel premises. If they happen to find any such person, they should demand the permit/ Identity Card and if it is not forthcoming, the matter should be brought to the notice of the Warden for further action.
13. RAGGING IN ANY FORM IS BANNED INSIDE AND OUTSIDE THE CAMPUS. STRICT ACTION WILL BE TAKEN AGAINST THE DEFAULTERS. NO LENIENCY WILL BE SHOWN TO THE OFFENDERS. SUSPENSION AND OR WITHDRAWAL FROM THE HOSTEL/ COLLEGE IS ONE OF THE ACTIONS TAKEN PROMPTLY. SUPREME COURT HAS ALSO DEFINED RAGGING AS A CRIMINAL OFFENCE.
14. All hostel inmates must report any disciplinary matter or problems concerning them or their room-mate/ neighbour(s) coming to their notice to the Warden/ Chief Warden. In case their room-mate is absent from the room or is sick / admitted in the hospital or is in any kind of physical/mental trouble or is indulging in any bad practices the same must be immediately brought to the notice of the Warden or the Chief Warden.

15. No televisions are permitted to be kept in the hostel rooms by the students. Students have to watch TV in the common TV room provided in the hostels.
16. Security of ATM/Debit cards: All residents must take care of their ATM/ Debit cards. They must not disclose their PIN to anybody- even to their best friends.
17. Water is an essential but scarce commodity. All residents are requested to use water judiciously and preserve it. Leakage etc. in the bathrooms should be immediately reported to the Warden.
18. All complaints regarding repairs/maintenance in the Hostels must be entered personally by the students in Complaint Registers maintained in all the Hostels. All complaints are also monitored regularly by the Warden/Chief Warden.
19. Residents of the hostels are not permitted to convene meetings of any sort in the Hostel premises without the prior permission of the Warden/Chief Warden. Disobedience of this rule will be severely dealt with.
20. There are Suggestion Boxes kept in all the hostels for suggestions if any from the residents. Residents may drop their suggestions and complaints if any, duly signed with their names and roll numbers in these Suggestion Boxes which are opened periodically. Appropriate action will be taken on all suggestions/ complaints and a feedback given to the student(s). No cognizance of anonymous suggestions/ complaints will be taken.
21. The Warden and Chief Warden are available round-the-clock on telephone, and may be contacted in case of any emergency.
22. If a resident falls sick, he/ she or room-mate/friend must immediately inform the caretakers/ person on duty who will make arrangements to shift/ evacuate the student to the hospital and look after him/ her. All cases of sickness must be immediately reported to the Medical Officer, at the Out-Patient/Emergency/ Trauma Department of Pushpagiri Medical College for necessary treatment. In case a resident is quite unable to leave the room and go to the Hospital, the matter must be reported to the Warden. Information regarding any resident falling sick or getting admitted in the hospital must be relayed to the hostel/ college authorities on priority.

Anti – Ragging Committee

The anti – ragging committee of the college for the academic year 2016-2017.

1.	Chairman	:	Dr Aby Mathew T Principal Mob: 9447507164
2.	Civil Administration	:	Tahasildar, Thiruvalla Phone: 0469 2601302
3.	Police Administration	:	Circle Inspector of Police, Thiruvalla Ph: 0469 2738100
4.	Local Media	:	Saji Abraham, Deepika (Daily) Thiruvalla Mob: 09447263556
5.	Non-Govt. Organisation	:	Shibu Puthukeril involved in youth activities President, Malankara Catholic YM, Thiruvalla Mob: 9447059400
6.	Representatives of faculty members	:	Dr Benley George, Vice Principal Administration Mob: 09745015511 Dr Suja Joseph, HOD, Dept. of Prosthodontics Mob: 0949495996823 Dr Biju sebastian, Vice Principal (Academics) Mob: 9446539062 Dr Lisa Elizabeth Jacob, Senior Lecturer, Mob: 9446644648
7.	Representatives of parents	:	Mr T. Gracious Sudharson, Mob: 09446441758 Dr P.A Jacob, Pushpagiri Institute of Medical Sciences and Medical Centre Mob: 09847032052
8.	Representatives of students	:	Mr Chandy Sebastian IV BDS Part II Ms Kuleena George IV BDS Part I Ms Ashika Jolly III BDS Mr Mahrouf K II BDS
9.	Non teaching staff	:	Fr Mathew Vadakkekuttu, Director, Pushpagiri Medicity Mob: 9495643361

PARENT TEACHER ASSOCIATION - 2016-2017

President	:	Dr Aby Mathew T, Principal Mob: 9447507164
Vice President	:	Mr Gracious Sudharson Mob: 09446441758
Secretary	:	Dr Benley George, Vice Principal Mob: 9447507164

Executive Committee Members

I BDS	Dr Anuna Laila Mathew Dr Gibi Syriac	Mob: 8547431225, Mob: 9495937998
II BDS	Dr Haby Mathew Somson	Mob: 9961719933
III BDS	Dr Annie Kitty George Dr Vinesh. U	Mob: 9847440665, Mob: 8281377603
IV BDS Part I	Dr Manuja Nair	Mob: 9946166811
IV BDS Part II	Dr Jacob George Dr Shibu Thomas Sebastian	Mob: 9946768585, Mob: 9496213363

BUS TIMINGS FROM MEDICITY TO MEDICALCOLLEGE AND RETURN		
Monday	7.45 a.m	4.00 p.m
Wednesday	7.45 a.m	1.15 p.m
Thursday	7.45 a.m	1.15 p.m
Friday	8.30 a.m	4.00 p.m
Saturday	8.30 p.m	4.00 p.m

FLOOR MAP

LEVEL 1

Office of the Principal
Administrative Office
Dept. of Oral Medicine and Radiology
Store
Registration Room
Haematology Lab

LEVEL 2

Dept. of Oral and Maxillofacial Surgery
Lecture Hall – 1
Lecture Hall - 2

LEVEL 3

Dept. of Public Health Dentistry
Dept. of Pedodontics
Auditorium
Lecture Hall - 3

LEVEL 4

Dept. of Orthodontics
Dept. of Periodontics

LEVEL 5

Dept. of Conservative Dentistry
Dept. of Prosthodontics

LEVEL 6

Dept. of Oral Pathology
Lecture Hall – 4
Preclinical Labs
Conservative Dentistry
Prosthodontics
Orthodontics/Pedodontics

LEVEL 7

Library
Examination Hall – 1
Examination Hall - 2
Common Room – Boys
Common Room - Girls

TIME TABLE FOR I BDS (2016-2017) KUHS

MONDAY	8.30 - 1.00		1 - 1.30	1.30 - 4	
	General Anatomy		**BREAK**	**General Anatomy**	
TUESDAY	8.00 - 10.00	10.00 - 1	1-2	2.00 - 4	
	Preclinical Prosthodontics	**Dental Anatomy Practicals**	**BREAK**	**Dental Anatomy Practicals**	
WEDNESDAY	8.30-10	10 - 1	1-2	2 - 4	
	Biochemistry Lecture	**General Anatomy**	**BREAK**	**Preclinical Conservative Lab**	
THURSDAY	8.00 - 1		1-1.30	1.30 - 3.30	
	Dental Anatomy / Histology		**BREAK**	**Dental Materials Lecture / Lab**	
FRIDAY	9.00-10	10-1.00	12.30-1.30	1.30 - 3.30	
	Physiology Lecture	**Physiology / Biochemistry Practicals**	**BREAK**	**Physiology / Biochemistry Practicals**	
SATURDAY	9-10	10-1.00		1-1.30	1.30 - 3.00
	Biochemistry	**Physiology**		**BREAK**	**Biochemistry Lecture**

TIME TABLE FOR II BDS

	8-9.15	10-11	11-12	12-1	1.15- 3.15
MONDAY	Dental Materials Lecture	Pharmacology	Microbiology	BREAK	Preclinical Conservative Lab
TUESDAY	8-9.15	10-12		12-1	1.15 - 3.15
	Preclinical OrthodontieLab	Pharmacology		BREAK	Preclinical Prosthodontics Lab
WEDNESDAY	8-9	9-10	10- 12	12-1	1-3
	Radiology Lecture	Oral Pathology Lecture	Dental Materials Lab	BREAK	Preclinical Pedodontics / Preclinical Orthodontics Lab
THURSDAY	8-9	9-12		12-1	1-3
	Conservative Dentistry lecture	General Pathology		BREAK	Preclinical Conservative Lab
FRIDAY	8-9.15	10-12	12-1	1-2	2 - 4
	Prosthodontics lecture	Microbiology	Pharmacology	BREAK	Dental Materials Lab
	8-9.45	9.45-12.30		12.30-1.00	1.30 - 3.30
SATURDAY	Preclinical Conservative Lab	Preclinical Prosthodontics Lab		BREAK	General Pathology

PUSHPAGIRI COLLEGE OF DENTAL SCIENCES

TIME TABLE FOR III BDS

Day	8 a.m - 9 a.m	9 a.m -10 a.m	10.00 a.m - 12.30 p.m	12.30 p.m -1 p.m	1.00p.m-4.00 p.m
MONDAY	Pedodontics Lecture	Orthodontics Lecture	Clinics	BREAK	Prosthodontics Lab
TUESDAY	Periodontics Lecture	Oral Medicine Lecture	Clinics	BREAK	1.30 p.m - 2.30 p.m: Oral Surgery Lecture; 2.30 p.m - 3.30 p.m: PHD Lecture
WEDNESDAY	Oral Pathology Lecture	Conservative Lecture	Clinics	BREAK	1.30 p.m - 3.30 p.m: Oral Pathology Lecture
THURSDAY	8 a.m - 12 noon: General Medicine / General Surgery Clinics			12.00-1.00 p.m: General Surgery Lecture	2.00 p.m - 4.00 p.m: Oral Pathology Lab
FRIDAY	Oral Pathology Lecture	Prosthodontics Lecture	Clinics	BREAK	1.00 p.m - 2.30 p.m: Clinics
SATURDAY	8 a.m - 12 noon: General Medicine / General Surgery Clinics			12.00-1.00 p.m: General Medicine Lecture	

TIME TABLE FOR IV BDS Part I

Day	8 a.m - 9 a.m	9 a.m - 10 a.m	10 a.m - 12.30 p.m	12.30 p.m - 1 p.m	1 p.m - 2.30 p.m	2.30 p.m - 4 p.m
MONDAY	Orthodontics Lecture	OMFS Lecture	Clinics	BREAK	Clinics	
TUESDAY	Oral Medicine Lecture	Orthodontics Lecture	Clinics	BREAK	Clinics	PHD Lecture
WEDNESDAY	Pedodontics Lecture	Prosthodontics Lecture	Clinics	BREAK	Clinics	
THURSDAY	Oral Medicine Lecture	Prosthodontics / Conservative Dentistry Lecture	Clinics	BREAK	Clinics	
FRIDAY	Conservative Lecture	Periodontics Lecture	Clinics	BREAK	Clinics	
SATURDAY	OMFS Lecture	Periodontics Lecture	10.00 a.m - 1.00 p.m Clinics			

TIME TABLE FOR IV BDS Part II

Day	8 a.m - 9 a.m	9 a.m -10 a.m	10 a.m - 12.30 p.m	12.30 p.m -1 p.m	1 p.m - 2.30 p.m
MONDAY	O.M.F.S	Conservative Dentistry	Clinics	BREAK	Clinics
TUESDAY	Prosthodontics	Pedodontics	Clinics	BREAK	Clinics
WEDNESDAY	Conservative Dentistry	O.M.F.S	Clinics	BREAK	Clinics
THURSDAY	Conservative Dentistry	Prosthodontics	Clinics	BREAK	Clinics
FRIDAY	O.M.F.S	Pedodontics	Clinics	BREAK	Clinics
SATURDAY	Prosthodontics	Pedodontics	10.00 a.m - 1.00 p.m Clinics		

FACULTY LIST

Designation & Dept.	Name	Qualification
Principal	Dr. Aby Mathew T.	MDS
Department of Prosthodontics		
Professor & Head	Dr. Suja Joseph	MDS
Professor & Principal	Dr. Aby Mathew T.	MDS
Professor	Dr. Annie Susan Thomas	MDS
Senior Lecturer	Dr Haby Mathew Somson	MDS
Senior Lecturer	Dr Rene Kuriakose	MDS
Senior Lecturer	Dr. Albin Geo Joseph	MDS
Department of Conservative Dentistry and Endodontics		
Professor & Head	Dr. A. Devadathan	MDS
Professor	Dr. Baby James	MDS
Professor	Dr. Josey Mathew	MDS
Reader	Dr. Jose Jacob	MDS
Senior Lecturer	Dr. Manuja Nair	MDS
Senior Lecturer	Dr. Minimol K Johny	MDS
Senior Lecturer	Dr. Rahul S.	MDS
Department of Oral Pathology		
Professor & Head	Dr Sunil S MDS	
Reader	Dr. Sharlene Sara Babu	MDS
Sr. Lecturer	Dr. Arjun Parameswar	MDS
Sr. Lecturer	Dr Tibin K Baby MDS	
Department of Oral & Maxillofacial Surgery		
Professor and Head	Dr. Eapen Thomas	MDS
Reader	Dr. Akhilesh Prathap	MDS
Reader	Dr. Vinesh U.	MDS
Sr Lecturer	Dr. Sujeesh Koshy	MDS
Sr Lecturer	Dr Nithin Pratap	MDS

Department of Periodontics

Professor & Head	Dr Thomas George	MDS
Professor	Dr Nebu George Thomas	MDS
Reader	Dr Annie Kitty George	MDS
Reader	Dr Jacob George	MDS
Senior Lecturer	Dr Soumya John	MDS

Department of Orthodontics

Professor & Head	Dr Biju Sebastian	MDS
Reader	Dr. Navin Oommen Thomas	MDS
Reader	Dr Jacob John	MDS
Senior Lecturer	Dr Joe Joseph	MDS
Senior Lecturer	Dr Vivek Suku Ninan	MDS
Senior Lecturer	Dr Lijo John MDS	

Department of Pediatric Dentistry

Professor and Head	Dr Elizabeth Joseph	MDS
Reader	Dr Rupesh S	MDS
Reader	Dr Gibi Syriac	MDS
Senior Lecturer	Dr John Philip	MDS

Department of Oral Medicine

Professor & Head	Dr Omal P.M.	MDS
Reader	Dr Anuna Laila Mathew	MDS
Senior Lecturer	Dr Lisa Elizabeth Jacob	MDS

Department of Public Health Dentistry

Reader& HOD & Vice Principal (Administration)		
	Dr Benley George	MDS MPH
Reader	Dr Rino Roopak Soman	MDS
Senior Lecturer	Dr Shibu Thomas Sebastian	MDS
Senior Lecturer	Dr Vinod Mathew	

Lecturers

Dr Anil Kurian	BDS
Dr Renjini V R	BDS
Dr Sherly Sajan Mathews	BDS
Dr Sheryl Elizabeth Kuriakose	BDS
Dr Renu Mathew	BDS
Dr Stephy Varghese	BDS
Dr Raji S Pillai	BDS
Dr Jerin Thomas	BDS
Dr Sunu Alice Cherian	BDS
Dr Thomas Abraham	BDS
Dr Shilpa John	BDS

DEPARTMENT OF DENTISTRY - OP – PIMS & RC

Reader & HOD, Department of Dentistry	Dr Jacob John	MDS
	Dr Terin Boby	BDS
	Dr Ambil Sara Varghese	BDS
	Dr Revathy CP	BDS

AUGUST 2016		
1	Mon	
2	Tue	
3	Wed	
4	Thu	
5	Fri	Holiday
6	Sat	
7	Sun	
8	Mon	
9	Tue	
10	Wed	
11	Thu	
12	Fri	
13	Sat	Second Saturday-Holiday
14	Sun	Holiday
15	Mon	Independence Day - Holiday
16	Tue	
17	Wed	
18	Thu	
19	Fri	
20	Sat	
21	Sun	Holiday
22	Mon	
23	Tue	
24	Wed	
25	Thu	
26	Fri	
27	Sat	
28	Sun	Holiday
29	Mon	
30	Tue	

SEPTEMBER 2016		
1	Thu	
2	Fri	
3	Sat	
4	Sun	Holiday
5	Mon	
6	Tue	
7	Wed	
8	Thu	
9	Fri	
10	Sat	Second Saturday
11	Sun	Holiday
12	Mon	
13	Tue	
14	Wed	Thiruonam Holiday
15	Thu	
16	Fri	
17	Sat	
18	Sun	Holiday
19	Mon	
20	Tue	
21	Wed	
22	Thu	
23	Fri	
24	Sat	
25	Sun	Holiday
26	Mon	
27	Tue	College Council Meeting
28	Wed	
29	Thu	
30	Fri	

OCTOBER 2016		
1	Sat	Pushpagiri Day
2	Sun	Gandhi Jayanthi - Holiday
3	Mon	
4	Tue	
5	Wed	Holiday
6	Thu	
7	Fri	
8	Sat	Second Saturday
9	Sun	Holiday
10	Mon	
11	Tue	
12	Wed	Vijayadasami
13	Thu	
14	Fri	
15	Sat	
16	Sun	Holiday
17	Mon	
18	Tue	
19	Wed	
20	Thu	
21	Fri	
22	Sat	
23	Sun	Holiday
24	Mon	
25	Tue	
26	Wed	
27	Thu	
28	Fri	
29	Sat	Deepavali
30	Sun	Holiday
31	Mon	

NOVEMBER 2016		
1	Tue	
2	Wed	
3	Thu	
4	Fri	
5	Sat	
6	Sun	Holiday
7	Mon	
8	Tue	
9	Wed	
10	Thu	
11	Fri	
12	Sat	Second Saturday
13	Sun	Holiday
14	Mon	
15	Tue	
16	Wed	
17	Thu	
18	Fri	
19	Sat	
20	Sun	Holiday
21	Mon	
22	Tue	
23	Wed	
24	Thu	
25	Fri	
26	Sat	
27	Sun	Holiday
28	Mon	
29	Tue	
30	Wed	

DECEMBER 2016		
1	Thu	
2	Fri	
3	Sat	
4	Sun	Holiday
5	Mon	
6	Tue	
7	Wed	
8	Thu	
9	Fri	
10	Sat	Second Saturday
11	Sun	Holiday
12	Mon	
13	Tue	
14	Wed	
15	Thu	
16	Fri	
17	Sat	
18	Sun	Holiday
19	Mon	
20	Tue	
21	Wed	
22	Thu	
23	Fri	
24	Sat	Holiday
25	Sun	Christmas Holiday
26	Mon	
27	Tue	College Council Meeting
28	Wed	
29	Thu	
30	Fri	
31	Sat	

JANUARY 2017		
1	Sun	
2	Mon	
3	Tue	
4	Wed	
5	Thu	
6	Fri	
7	Sat	
8	Sun	Holiday
9	Mon	
10	Tue	
11	Wed	
12	Thu	
13	Fri	
14	Sat	Second Saturday
15	Sun	Holiday
16	Mon	
17	Tue	
18	Wed	
19	Thu	
20	Fri	
21	Sat	
22	Sun	Holiday
23	Mon	
24	Tue	
25	Wed	
26	Thu	Republic Day- Holiday
27	Fri	
28	Sat	
29	Sun	
30	Mon	Holiday
31	Tue	

FEBRUARY 2017		
1	Wed	
2	Thu	
3	Fri	
4	Sat	
5	Sun	Holiday
6	Mon	
7	Tue	
8	Wed	
9	Thu	
10	Fri	
11	Sat	Second Saturday
12	Sun	Holiday
13	Mon	
14	Tue	
15	Wed	
16	Thu	
17	Fri	
18	Sat	
19	Sun	Holiday
20	Mon	
21	Tue	
22	Wed	
23	Thu	
24	Fri	
25	Sat	
26	Sun	Holiday
27	Mon	
28	Tue	

MARCH 2017		
1	Wed	
2	Thu	
3	Fri	
4	Sat	
5	Sun	Holiday
6	Mon	
7	Tue	
8	Wed	
9	Thu	
10	Fri	
11	Sat	Second Saturday
12	Sun	Holiday
13	Mon	
14	Tue	
15	Wed	
16	Thu	
17	Fri	
18	Sat	
19	Sun	Holiday
20	Mon	
21	Tue	
22	Wed	
23	Thu	
24	Fri	
25	Sat	
26	Sun	Holiday
27	Mon	
28	Tue	
29	Wed	
30	Thu	
31	Fri	

APRIL 2017		
1	Sat	
2	Sun	
3	Mon	
4	Tue	
5	Wed	Holiday
6	Thu	
7	Fri	
8	Sat	Second Saturday
9	Sun	Holiday
10	Mon	
11	Tue	
12	Wed	
13	Thu	Maundy Thursday
14	Fri	Good Friday
15	Sat	
16	Sun	Easter - Holiday
17	Mon	
18	Tue	
19	Wed	
20	Thu	
21	Fri	
22	Sat	
23	Sun	Holiday
24	Mon	
25	Tue	
26	Wed	
27	Thu	
28	Fri	
29	Sat	
30	Sun	

MAY 2017		
1	Mon	
2	Tue	
3	Wed	
4	Thu	
5	Fri	
6	Sat	
7	Sun	Holiday
8	Mon	
9	Tue	
10	Wed	
11	Thu	
12	Fri	
13	Sat	Second Saturday
14	Sun	Holiday
15	Mon	
16	Tue	
17	Wed	
18	Thu	
19	Fri	
20	Sat	
21	Sun	Holiday
22	Mon	
23	Tue	
24	Wed	
25	Thu	
26	Fri	
27	Sat	
28	Sun	Holiday
29	Mon	
30	Tue	
31	Wed	

PARENTS' DECLARATION

I, ... hereby declare that I have gone through the rules and regulations for the BDS Pushpagiri College of Dental Sciences. I hereby agree that myself and my son/daughter ..... shall abide by all these rules and regulations. In case any Indiscipline / improper conduct occur from his / her side, he/she is liable to be punished. I fully understand such disciplinary actions shall not be revoked under any circumstance.

Date : Name

Signature

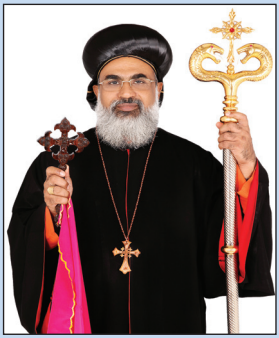
Details of the parent and / or guardian

Details	Parents	Local Guardian
Name	Father : Mother :	
Signature	Father : Mother :	
Permanent Address		
Address for communication		
Land Phone No.		
Mobile Phone No.	Father : Mother :	
E-mail Address	Father : Mother :	

Dr. Aby Mathew T.
Principal

ACADEMIC CALENDAR
2017-2018

Our Patron

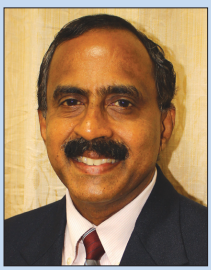


His. Grace. Most Rev. Dr. Thomas Mar Koorilos
Metropolitan Archbishop of Thiruvalla

Rev. Fr. Aby Vadakkumthala
Director Medicity

Rev. Dr. Shaji Mathews Vazhayil
CEO

Rev. Dr. Mathew Mazhavancheril
Director
Academics and Research



Dr. K. George Varghese
Principal

Dr Benely George
Vice Principal
(Administration)

Dr Biju Sebastian
Vice Principal
(Academics)

CONTENTS

OUR VISION

'We Care God Cures'

OUR MISSION

To work towards a knowledge society with life in abundance through science and technology, improving health care for our immediate community, the state, the country and the world at large.

PUSHPAGIRI - A BRIEF HISTORY

The Catholic Church has been engaged in the ministry of healing all over the world for the past two thousand years. The same mission also drove the Founder fathers of Pushpagiri at Tiruvalla, Kerala. What started as a small clinic with eight beds in 1959 to cater to rural maternity care has now grown to a full fledged 1200 bedded, hi-tech super specialty Medical College Hospital.

Across a span of half a century, Pushpagiri has travelled forward with a renewed understanding and vision, ***'We Care God Cures'***, which proclaims the faith of taking upon each others' burdens and humility before the divine providence from where all cure and healing happens. The unwavering commitment of the Church to provide value-based education also saw its results initially in Nursing Education at Pushpagiri, which began as early as 1964. Following the establishment of Pushpagiri Medical Society in 1992, on the road to improvisation and expansion, Pushpagiri saw a new beginning, a decade later, in 2002 with the starting of one of the first private medical colleges in Kerala - Pushpagiri Institute of Medical Sciences and Research Centre. In the past decade, Pushpagiri further went along to establish premiere institutions in the field of health care education for Nursing (2002), Pharmacy (2004), Dental Sciences (2006) and Allied Health Sciences (2008).

The Pushpagiri Medical Society, a society registered under the Travancore-Cochin Literary Scientific & Charitable Societies Registration Act of 1955, manages the College. The Archbishop of the Catholic Archdiocese of Tiruvalla Most. Rev. Dr. Thomas Mar Koorilos is the Patron of the Society and a seven

member governing board is the policy laying body of the Society. Rev.Dr. Shaji Mathews Vazhayil is the Secretary of Pushpagiri Medical Society. Rev. Fr. Mathew Vadakkekuttu is the Director of Pushpagiri Medicity. Dr Aby Mathew T is the Principal, Dr Benley George; the Vice Principal (Administration) and Dr Biju Sebastian: the Vice Principal (Academics) of Pushpagiri College of Dental Sciences.

Pushpagiri College of Dental Sciences, recognized by the Dental Council of India and Ministry of Health & Family Welfare, Government of India was founded in 2006. The institution is the realization of the vision of the Management to provide quality Dental education to aspiring students of Kerala, a good percentage of these students hail from minority communities. The institution has an annual intake of 50 students in BDS course and 12 students in MDS courses.

Pushpagiri College of Dental Sciences ever since its inception had shown excellent academic achievements at the MG University and Kerala University of Health Sciences examinations. The first batch of Pushpagiri College of Dental Sciences secured a 100% pass result in the Final BDS Part II examination conducted by Mahatma Gandhi University, Kottayam. Pushpagiri College of Dental Sciences was the only dental college to achieve this feat among 7 other dental colleges affiliated to Mahatma Gandhi University, Kottayam. Ms Varsha Jeyaprakash, student of 2006 batch secured the first rank in the Final BDS Examination in 2011 conducted by Mahatma Gandhi University, Kottayam. The first batch of students admitted under Kerala University of Health Sciences secured the best pass result among all 22 dental colleges in Kerala. The 2013 batch of I BDS students secured 80% pass result in the examination conducted by Kerala University of Health Sciences in August 2014. Ms Jasmin Mary George secured the first rank in the I BDS examination conducted by Kerala University of Health Sciences in August 2014.

The institution had secured the first position among all 24 dental colleges affiliated to the University. The institution has consistently shown results par excellence in all examinations conducted by Kerala University of Health Sciences.

Pushpagiri College of Dental Sciences was elevated to the status of a Post Graduate Institute in 2013 with the commencement of 5 Post Graduate courses in the Departments of Prosthodontics and Crown & Bridge, Periodontology and Oral & Maxillofacial Surgery, Conservative Dentistry & Endodontics and Orthodontics & Dentofacial Orthopedics which was approved by the Ministry of Health and Family Welfare, Government of India and Dental Council of India.

GOVERNING BODY MEMBERS OF PUSHPAGIRI MEDICAL SOCIETY

Patron:	**H. G. Most Rev. Dr. Thomas Mar Koorilos** Metropolitan Archbishop of Tiruvalla.
President:	**Very Rev. Fr. Cherian Thazhamon** Vicar General, Catholic Archdiocese of Tiruvalla.
Vice President:	**Dr. Abraham Varghese V.**
Secretary:	**Rev. Dr. Shaji Mathews Vazhayil** (Chief Executive Officer, Pushpagiri Group of Institutions).
Members:	**Rev. Dr. Mathew Mazhavancheril,** Director, Academics and Research
	Rev. Fr. Mathew Vadakkekuttu, Director, Pushpagiri Medical College Hospital
	Mr. Varghese Alexander Chartered Accountant, Alexander & Co., Tiruvalla

INSTITUTIONS UNDER PUSHPAGIRI MEDICAL SOCIETY

1. Pushpagiri College of Dental Sciences

Pushpagiri Medicity, Perumthuruthy, Tiruvalla
Tel. No. 0091 469 2645210; Fax 2645282
www.collegeofdentalsciences.pushpagiri.in
email: dentalcollege@pushpagiri.in

2. Pushpagiri Institute of Medical Sciences & Research Centre

2.1. Pushpagiri Medical College Hospital
Tel. No. 0091 469 2700755, Fax 2701045
email: info@pushpagiri.in www.pushpagiri.in

2.2. Pushpagiri Medical College
Tel. No. 0091 469 2733761; Fax 2600020
email: pcm@pushpagiri.in www.pimsrc.edu.in

3. Pushpagiri College of Pharmacy

Pushpagiri Medicity, Perumthuruthy, Tivuvalla
Tel. No. 0091 469 2645450; Fax 2645460
email: pushpagiripharmacycollege@gmail.com
www.collegeofpharmacy.pushpagiri.in

4. Pushpagiri College of Nursing

Tel. No. 0091 469 2602441; Fax 2700168
email: pcon@pushpagiri.in

5. Pushpagiri College of Allied Health Sciences

Tel. No. 0091 469 2700755; Fax 2701044

6. Pushpagiri School of Nursing

Tel. No. 0091 469 2700755; Fax 2701044

7. Pushpagiri Centre for CGFNS & IELTS Training

Tel. No. 0091 469 2700755; Fax 2701044

8. Pushpagiri Research Centre

Tel. No. 0091 469 2731005; Fax 2731005
email: prc@pushpagiri.in www.prc.pushpagiri.in

9. Pushpagiri Centre for Virology

Tel. No. 0091 469 2731005; Fax 2731005,

MANAGEMENT OF PUSHPAGIRI GROUP OF INSTITUTIONS

Rev. Dr. Shaji Mathews Vazhayil
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PUSHPAGIRI COLLEGE OF DENTAL SCIENCES ADMINISTRATION

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Director- Academics & Research, Pushpagiri Group of Institutions
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Rev. Fr. Aby Vadakkumthala
Director- Pushpagiri Medicity Campus
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Email: drbijuseb00@gmail.com

CURRICULUM & RESEARCH COMMITTEE

Dr K. George Varghese
Principal
Dr Benley George
Vice Principal (Administration)
Dr Suja Joseph
HOD, Dept. of Prosthodontics
Dr Aby Mathew T
Prof. Dept. of Prosthodontics
Dr Thomas George V.
HOD, Dept. of Periodontics
Dr Eapen Thomas
HOD, Dept. of Oral and Maxillofacial Surgery
Dr A Devadathan
HOD, Dept. of Conservative Dentistry and Endodontics
Dr Baby James
Professor, Dept. of Conservative Dentistry and Endodontics
Dr Biju Sebastian
Vice Principal & HOD, Dept. of Orthodontics
Dr S. Sunil
HOD, Oral Pathology
Dr Elizabeth Joseph
HOD, Pedodontics
Dr Omal P.M.
HOD, Oral Medicine and Radiology

Academic Programmes in Dental College

Undergraduate course	
BDS	50 seats
Postgraduate courses	
MDS (Prosthodontics and Crown and Bridge)	3 seats
MDS (Oral and Maxillofacial Surgery)	2 seats
MDS (Periodontics)	2 seats
MDS (Orthodontics)	2 seats
MDS (Conservative Dentistry)	3 seats

BDS COURSE

2.1. Aims & Objectives of BDS Course

A. Aims:

To create a graduate in Dental Science who has adequate knowledge, necessary skills and such attitudes which are required for carrying out all the activities appropriate to general dental practice involving the prevention, diagnosis and treatment of anomalies and diseases of the teeth, mouth, jaws and associated tissues. The graduate should also understand the concept of community oral health education and be able to participate in the rural health care delivery programmes existing in the country.

B. Objectives:

The objectives are dealt under three headings namely (a) knowledge and understanding (b) skills and (c) attitudes.

(a) Knowledge and understanding

The student should acquire the following during the period of training.

1. Adequate knowledge of the scientific foundations on which dentistry is based and good understanding of various relevant scientific methods and principles of biological functions.
2. Adequate knowledge to evaluate and analyse scientifically various established facts and data.
3. Adequate knowledge of the development, structure and function of teeth, mouth, jaws and associated tissues both in health and disease and their relationship and effect on general state of health and also their bearing on physical and social well- being of the patient.
4. Adequate knowledge of clinical disciplines and methods, which provide a coherent picture of anomalies, lesions and diseases of the teeth, mouth and jaws.
5. Adequate knowledge on the preventive, diagnostic and therapeutic aspects of dentistry.
6. Adequate knowledge on laboratory steps involved in dental treatment.
7. Adequate clinical experience required for general dental practice.
8. Adequate knowledge of biological function and behavior of persons in health and sickness as well as the influence of natural and social environment on the state of health so far as it affects dentistry.

Skills

A Graduate should be able to demonstrate the following skills necessary for practice of dentistry:

1. Able to diagnose and manage various common dental problems encountered in general dental practice, keeping in mind the expectations and the right of the society to receive the best available treatment wherever possible.
2. Acquire skill to prevent and manage complications if any encountered while carrying out various dental surgical and other procedures.
3. Possess skill to carry out required investigative procedures and ability to interpret laboratory findings.
4. Acquire skill in laboratory procedures involved in dental treatment.
5. Promote oral health and help to prevent oral diseases wherever possible.
6. Competent in control of pain and anxiety during dental treatment.

Attitudes

A graduate should develop during the training period the following attitudes.

1. Willing to apply current knowledge of dentistry in the best interest of the patients and the community.
2. Maintain a high standard of professional ethics and conduct and apply these in all aspects of professional life.
3. Seek to improve awareness and provide possible solutions for oral health problems and needs throughout the community.
4. Willingness to participate in the continuing education programmes to update knowledge and professional skills from time to time.
5. To help and to participate in the implementation of national health programmes.

C. Goals of BDS Curriculum

On completion of the undergraduate training program the graduates shall be competent in the following. –

General Skills

Apply knowledge & skills in day to day practice. Apply principles of ethics.

Analyze the outcome of treatment.

Evaluate the scientific literature and information to decide the treatment.

- Participate and involve in professional bodies.
- Be capable of self-assessment and be willing to update the knowledge & skills from time to time.
- Inclined to do simple research projects.
- Acquire minimum computer proficiency to enhance knowledge and skills.
- Be aware of one's limitations and know when to refer patients to specialists.
- Be familiar with basic Forensic Odontology techniques and manage Geriatric dental problems.
- Death certification

ii. Practice Management

- Evaluate practice location, population dynamics & reimbursement mechanism.
- Able to communicate freely, orally and in writing with all concerned.
- Maintain records.
- Implement & monitor infection control and environmental safety programs.
- Practice within the scope of one's competence Communication & Community Resources.
- Assess patient's goals, values and concerns to establish rapport and guide patient care.
- Co-ordinate & supervise the activities of allied dental health personnel.
- Participate in improving the oral health of the individuals through community activities.

iii. Patient Care – Diagnosis

- Obtaining patient's history in a methodical way.
- Performing thorough clinical examination.
- Selection and interpretation of clinical, radiological and other diagnostic information.
- Obtaining appropriate consultation.
- Arriving at provisional, differential and final diagnosis.

iv. Patient Care - Treatment Planning

- Integrate multiple disciplines into an individual comprehensive sequenced treatment plan using diagnostic and prognostic information.
- Be able to order appropriate investigations.

v. Patient Care – Treatment

- Recognition and initial management of medical emergencies that may occur during Dental treatment.
- Perform basic cardiac life support.
- Management of pain including post operative.
- Administration of all forms of local anesthesia.
- Administration of intra muscular and venous injections.
- Prescription of drugs, pre operative, prophylactic and therapeutic requirements.
- Uncomplicated extraction of teeth.
- Transalveolar extractions and removal of simple impacted teeth.
- Minor oral surgical procedures.
- Management of Oro-facial infections.
- Simple orthodontic appliance therapy.
- Taking, processing and interpretation of various types of intra oral radiographs.
- Various kinds of restorative procedures using different materials available.
- Simple endodontic procedures.
- Removable and basic fixed Prosthodontics.
- Various kinds of periodontal therapy.

D. Competencies Expected- Specialty wise

OR

ORAL MEDICINE & RADIOLOGY

- On completion of the undergraduate training programme the graduate should:
- Be able to identify the common dental problems like dental caries and periodontal disease and their sequelae

- Be able to differentiate the normal variations and oral mucosal lesions
- Be able to identify pre cancerous and cancerous lesions of the oral cavity and refer to the concerned specialty for their management.
- Have an adequate knowledge about common laboratory investigations and interpretation of their results.
- Have adequate knowledge about medical complications that can arise while treating systemically compromised patients and take prior precautions/ consent from the concerned medical specialist.
- To formulate a clinical diagnosis, order investigations, seek expert consultations to come to a final diagnosis and chart out a proper treatment plan for patients with oral lesions.
- Have adequate knowledge about radiation health hazards, radiation safety and protection.
- Be competent to take intra-oral radiographs and interpret the radiographic findings
- Gain adequate knowledge of various extra-oral radiographic procedures, TMJ radiography and sialography.
- Be aware of the importance of intra- and extra-oral radiographs in forensic identification and age estimation.
- Be familiar with jurisprudence, ethics and understand the significance of dental records with respect to law.

ORAL & MAXILLOFACIAL SURGERY

On completion of the undergraduate training programme the graduate should:

- Be able to apply the knowledge gained in the basic medical and clinical subjects in the management of patients with surgical problems.
- Be able to diagnose, manage and treat patients with basic oral surgical problem
- Have a broad knowledge of maxillofacial surgery and oral Implantology.
- Be familiar with legal, ethical and moral issues pertaining to patient care and communication skills.
- Have acquired the skill to examine any patient with an oral surgical problem in an orderly manner.

- Understand and practice the basic principles of asepsis and sterilization.
- Be competent in the extraction of the teeth under local anesthesia.
- Be Competent to carry out certain minor oral surgical procedures under Local Anesthesia like trans-alveolar extraction, frenectomy, Dentoalveolar procedures, simple impaction, biopsy, etc.
- Be Competent to assess, prevent and manage common complications that arise during and after minor oral surgery.
- Able to provide primary care and manage medical emergencies in the dental office.
- Be familiar with the management of major oral surgical problems and principles involved in the in-patient management.
- Be able to Certify Death

PERIODONTOLOGY

On completion of the undergraduate training programme the graduate should:

- Be able to diagnose the patient's periodontal problem, plan and perform appropriate periodontal treatment.
- Be Competent to educate and motivate the patient.
- Be Competent to perform thorough oral prophylaxis, subgingival scaling, root planning and minor periodontal surgical procedures.
- Give proper post treatment instructions and do periodic recall and evaluation.
- Be Familiar with concepts of osseointegration and basic surgical aspects of implantology.

CONSERVATIVE DENTISTRY AND ENDODONTICS

On completion of the undergraduate training programme the graduate should:

- Be Competent to diagnose all carious lesions.
- Be Competent to perform Class I and Class II cavities and their restoration with amalgam.
- Be able to restore class V and Class III cavities with glass ionomer cement.

- Be able to diagnose and appropriately treat pulpally involved teeth (pulp capping procedures).
- Be able to perform RCT for anterior teeth
- Be competent to carry out small composite restorations
- Understand the principles of aesthetic dental procedures

ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

On completion of the undergraduate training programme the graduate should:

- Understand about normal growth and development of facial skeleton and dentition.
- Be able to pinpoint aberrations in growth process both dental and skeletal and plan necessary treatment
- Be able to diagnose the various malocclusion categories
- Be able to motivate and explain to the patient and parent/guardian about the necessity of treatment
- Be able to plan and execute preventive orthodontics (space maintainers or space regainers)
- Be able to plan and execute interceptive orthodontics (habit breaking appliances)
- Be able to manage treatment of simple malocclusion such as anterior spacing using removable appliances
- Be able to handle delivery and activation of removable orthodontic/ myofacial appliances.
- Be able to diagnose and appropriately refer patients with complex malocclusion to the specialist.

PUBLIC HEALTH DENTISTRY

On completion of the undergraduate training programme the graduate should:

- Apply the principles of health promotion and disease prevention.
- Have knowledge of the organization and provision of health care in community and in the hospital service
- Have knowledge of the prevalence of common dental conditions in India
- Have knowledge of community based preventive measures
- Have knowledge of the social, cultural and environmental factors,

which contribute to health or illness.

- Be able to administer hygiene instructions, topical fluoride therapy and fissure sealing.
- Be able to educate patients concerning the etiology and prevention of oral disease and encourage them to assure responsibility for their oral health.

PROSTHODONTICS AND CROWN & BRIDGE

On completion of the undergraduate training programme the graduate should:

- Be able to understand and use various dental materials.
- Be competent to carry out treatment of conventional Simple complete and partial removable dentures and anterior crowns.
- Be able to carry out Prosthodontic laboratory procedures.
- Be familiar with the concepts of osseointegration and the value of implant- supported Prosthodontic procedures.
- Be able to diagnose and appropriately refer patients requiring complex treatment procedures to the specialist

PAEDIATRIC AND PREVENTIVE DENTISTRY

On completion of the undergraduate training programme the graduate should:

- Be able to instill a positive attitude and behavior in children towards oral health and understand the principles of prevention and preventive dentistry right from birth to adolescence.
- Be able to guide and counsel the parents/guardian in regards to various treatment modalities including different facets of preventive dentistry.
- Be able to treat dental diseases occurring in child patient.
- Be able to manage the physically and mentally challenged / disabled children effectively and efficiently, tailored to the needs of individual requirement and conditions.

2.3 Medium of Instruction

The medium of Instruction and examinations of BDS course will be in English language.

2.4 General Outline of BDS Degree Course

1) The undergraduate course involves organisation of year-wise

teaching program. However, this course, as a whole, should demonstrate integration of the basic sciences, clinical dentistry and practical or laboratory skills. The course should be designed and integrated in such a way as to permit smooth progression from pre-clinical to clinical phase. Collaboration should be encouraged between teachers of basic sciences, dental sciences and clinical subjects.

2) The undergraduate dental course consists of three main components. The first component consists subjects common to modern medicine and dentistry like anatomy, physiology, biochemistry and behavioral science, leading to pharmacology, pathology, microbiology and then on to general medicine and general surgery. The second component runs concurrently with the first and deals with special aspects of oral and dental tissues, oral biology and oral pathology. Finally, the third component based on the foundations of the first two, deals with the clinical and technical aspects of dentistry as is required for general dental practice.

3) The first component of the course is intended to provide initially, an appreciation of normal human structure, development, function and behavior, leading to understanding of the diseases, its prevention and treatment. The main objective is to provide student with a broad knowledge of normal structures and functions of the body, the alterations which take place in disease with particular reference to those conditions in which medical and dental co-operation is essential for proper management. At this stage, the student should also be made aware of the social and psychological aspects of patient care with special reference to the relationship between dentist and patient. The behavioral sciences including both sociology and psychology should be introduced at the initial stages of the training program, much before the students actually deal with the patients.

4) The second component of dental undergraduate program includes instruction in the subjects dealing with dental and oral aspects to ensure a detailed knowledge of the structure and function of the dental and oral tissues. This enables the student to diagnose, prevent and treat the dental and oral diseases and disorders, which were not included in the first component. The subject of oral biology is to be introduced at this level to provide the students a comprehensive knowledge and application of oral physiology, microbiology, biochemistry and oral immunology. Students should be exposed to the basic aspects of forensic odontology at this stage of the course along with oral biology/oral pathology.

5) The third component of the course comprising the clinical and technical aspects of dentistry actually prepares the student to undertake total oral and dental health care of patients of all ages. The emphasis at this stage should be on the prevention of the various dental diseases and how to preserve natural teeth with their supporting structures. The

importance of various preventive methods needs to be stressed. The significance of diagnosis of various dental and oral problems needs to be emphasized along with treatment planning before actual treatment procedures are undertaken. In addition to acquiring the knowledge, the students need to gain adequate clinical hands-on-experience in extractions and other minor oral surgical procedures, all aspects of Conservative Dentistry, Endodontics, Crown and Bridge, provision of partial and complete dentures, various periodontal therapeutic procedures and use of removable orthodontic appliances. Familiarity with various radiological techniques, particularly intra-oral methods and proper interpretation of the radiographs, is an essential part of this component of training and has application in clinical diagnosis, forensic identification and age estimation. Training in handling medico-legal cases including death certification should be imparted at this stage. Towards the final stage of the clinical training, each student should be involved in comprehensive oral health care or holistic approach to enable him or her to plan and treat patients as a whole, instead of piece-meal treatment provided in each specialty. The aim of the undergraduate program should undoubtedly be to produce a graduate, competent in general dental practice.

6) The commitment towards the society as a whole needs to be stressed along with the knowledge and treatment skills gained. Instruction in public health dentistry should emphasise the sociological aspects of health care and palliative care particularly; oral health care, including the reasons for variation in oral and dental needs of different sections of the society. It is important to know the influence of social, behavioral, environmental and economic factors on oral and dental health. Students should be made aware of the National oral health Policy and the importance of being a member of the Health care team delivering medical and oral health care particularly among rural population. Students should also be encouraged to participate in simple research project work

7) The undergraduate curriculum stresses the significance of infection and cross infection control in dental practice. Aspects like sources of infection, measures to be adopted both general and specific for control, particularly the HIV and hepatitis is incorporated in the curriculum so that the graduates are aware of its significance and follow it in their practice.

8) The information technology has touched every aspect of an individual's personal and professional life. The University hence recommends that all undergraduates acquire minimum computer proficiency, which will enable them to enhance their professional knowledge and skills.

2.5 Duration & course of Study

1. The undergraduate dental training program leading to B.D.S. degree shall be of four and a half years duration in addition to one year compulsory paid rotating internship. During this period, the students shall be required to engage in full time study at a Dental college recognized or approved by the Dental Council of India. During the first four and a half years of undergraduate course, the instruction in clinical subjects should be at least for two and a half years.

2. Basic Medical & Dental Subjects

The basic medical and dental sciences comprise of Anatomy - Gross and Microscopic, Physiology, Biochemistry, Pharmacology, science of Dental Materials and Oral biology. Subjects like behavioral sciences, which would be useful to develop communication skills, should also be introduced in the first year itself and spread over the undergraduate course. An introduction to Public Health Dentistry also will be useful to develop the concept of commitment to community. The laboratory skills like pre-clinical Prosthodontics, Crown and Bridge, Conservative dentistry and Orthodontics is to be developed by the students.

Studying dental morphology also is a part of initial training. At the end of this period the student should be in a position to understand and comprehend in general the development, structure and function of the human body in both health and disease.

3. The instruction in basic dental sciences should include theoretical and practical aspects of oral anatomy and physiology, to provide a detailed knowledge of the form and structure of teeth, associated tissues and occlusal relationships. The study should also aim at development of a concept regarding physiological and biochemical processes relevant to oral cavity for better understanding of the changes that occur with the onset of disease in the oral cavity. The student should be made aware of the importance of various dental tissues in forensic investigation.

4. Clinical, Medical and Dental subjects:

The students should be introduced to clinics in the initial stage, preferably in the first year, as an observer to familiarize with clinical set-up and working. The period of instruction in the clinical subjects shall not be less than two and a half years full time. During this, the student shall attend a dental hospital, general hospital, community camps and satellite clinics, in order to obtain instruction and experience in the practice of dentistry. The main objective of training in clinical dental subjects is to produce a graduate, able and competent to recognize or diagnose various dental and oral diseases, to undertake general dental treatment, advice on the provision of specialized treatment available and finally advise the patient on prevention. The student should also understand the relationship between oral and systemic diseases.

5. The general medicine and surgery training should provide sufficient

knowledge on human disease to enable the student to understand its manifestations as relevant to the practice of dentistry. This requires clinical teaching on patients and shall be carried out in inpatient and outpatient medical departments and specialist clinics. This clinical instruction should enable the student to understand and perhaps diagnose common systemic diseases, which have relevance to dental practice, by adopting a systematic approach of history taking and clinical examination. The student should also realize the significance of various general and special investigations in the diagnosis of diseases. The ability to recognize physical and mental illness, dealing with emergencies, effective communication with patients, and interaction with professional colleagues also become important aspects of this training.

6. All dental students should receive instruction in first-aid and principles of cardio-pulmonary resuscitation. The students should also attend to the accident and emergency department of a Medical hospital.

7. The purpose of the clinical training is to provide sufficient practical skill in all aspects of clinical dentistry. The instruction should also include patient management skills, treatment of patients of all ages with special reference to children (paediatric), very elderly (geriatric), medically compromised and disabled patients.

8. During the two and a half years of clinical course, the students should receive thorough instruction which involves history taking, diagnosis and treatment planning in all aspects of dentistry and should be competent on graduation to carry out all routine general procedures. In Oral & Maxillofacial Surgery, instruction should include the knowledge of various maxillofacial problems like injuries, infections and deformities of the jaws and associated structures. The clinical experience should include those procedures commonly undertaken in general practice like extraction of teeth, minor oral surgical procedure etc. In Conservative dentistry and Endodontics, Prosthodontics and Crown & Bridge and Periodontology students should be competent on graduation to carry out routine treatments like restorations of various types, endodontic procedures, removable Prosthodontics, and finally various kinds of periodontal therapy. In Orthodontics & Dentofacial Orthopaedics, students should carry out simple appliance therapy including myofacial appliances for patients. Students should also be able to appreciate the role of Dentofacial growth in the development and treatment of malocclusion. In addition, students should be aware of their limitations on graduation, need to refer patients for consultant opinion and/or treatment and also the need for postgraduate and continuous education programmes.

9. In Paediatric & Preventive Dentistry, the students should

concentrate on effective management of the behavior of the child patient to instill a positive attitude, on efficacy of preventive measures and clinical management, including the treatment needs particularly for children with disabilities. In oral medicine and Radiology, the student should receive instruction in various common lesions, occurring in the oral cavity and its diagnosis with particular reference to oral cancer. All students should receive instructions and gain practical experience in taking various types of intra and extra oral radiographs and its

processing and interpretation. They should be aware of the hazards of radiation and proper

protective measures from radiation for the patient, operator and other staff. Since Paediatric dentistry involves the practice of various branches of clinical dentistry, training in Paediatric Dentistry is extended to Part II of the final year.

10. The successful control and management of pain is an integral part of dental practice. Upon graduation the students should be competent to administer all forms of local anesthesia. The value of behavioral methods of anxiety management should be emphasized. The students should also have the practical experience in the administration of intra-muscular and intra-venous injections. Knowledge of pain mechanisms and strategies to control post- operative pain is essential for practice of dentistry.

11. Instruction should be given in dental jurisprudence, legal and ethical obligations of dental practitioners and the constitution and functions of Dental Council of India. Students should be made competent in the management of medico legal cases and death certification.

12. Infection and cross infection control assume significance in dental practice. The students should be made aware of the potential risk of transmission of various infectious diseases particularly HIV and hepatitis in the dental surgery. The students should be aware of their professional responsibility for the protection of the patients, themselves and their staff and the requirements of the health and safety regulations.

13. The subjects of Aesthetic dentistry, Oral Implantology, Behavioral sciences and Forensic Odontology have assumed great significance. Hence, these four specialties are incorporated into the undergraduate curriculum. The instruction and clinical training in aesthetic dentistry shall be carried out by the departments of Prosthodontics and Crown & Bridge and Conservative Dentistry & Endodontics. Similarly, the instruction and clinical training in Oral Implantology shall be done by the departments of Prosthodontics and Crown & Bridge, Oral & Maxillofacial Surgery, and Periodontology. The instruction in behavioral sciences should ideally commence before the students come in contact with the patients and shall be carried out by the departments of Public Health Dentistry and

Paediatric and Preventive Dentistry. Forensic Odontology including procedures of death certification will be a part of Oral Pathology & Oral Microbiology, Oral Medicine & Radiology and Oral & Maxillofacial Surgery.

14. With increased life expectancy and treatment facilities, Palliative care has gained importance in the modern world. Palliative medicine is the branch of medicine involved in treatment of patients with advanced, progressive, life-threatening disease for whom the focus of care is maximising their quality of life through expert symptom management, psychological, social and spiritual support as part of a multi-professional team. Understanding the role of dental surgeon in the field of palliative care this subject is introduced in the syllabus to be handled by faculty under public health dentistry trained in palliative care.

SUBJECTS OF STUDY

1. General Human Anatomy including Embryology and Histology

2. General Human Physiology

3. Biochemistry, Nutrition and Dieteties

4. Dental Anatomy, Embryology and Oral Histology

I BDS SUBJECTS

1. GENERAL HUMAN ANOTMY INCLUDING EMBRYOLOGY AND HISTOLOGY

a) GOAL

The students should gain the knowledge and insight into, the functional anatomy of the normal human head and neck, functional histology and an appreciation of the genetic basis of inheritance and disease, and the embryological development of clinically important structures. So that relevant anatomical & scientific foundations are laid down for the clinical years of the BDS course.

b) OBJECTIVES:

i. Knowledge & understanding:

At the end of the 1st year BDS course in Anatomical Sciences the undergraduate student is expected to:

(1) Know the normal disposition of the structures in the body while clinically examining a patient and while conducting clinical procedures.

(2) Know the anatomical basis of disease and injury.

(3) Know the microscopic structure of the various tissues, a prerequisite for understanding of the disease processes.

(4) Know the nervous system to locate the site of lesions according to the sensory and or motor deficits encountered.

(5) Have an idea about the basis of abnormal development, critical stages of development, effects of teratogens, genetic mutations and environmental hazards.

(6) Know the sectional anatomy of head neck and brain to read the features in radiographs and pictures taken by modern imaging techniques.

(7) Know the anatomy of cardio-pulmonary resuscitation.

ii. Skills

1) To locate various structures of the body and to mark the topography of the living anatomy.

2) To identify various tissues under microscope.

3) To identify the features in radiographs and modern imaging techniques.

4) To detect various congenital abnormalities.

c) INTEGRATION

By emphasizing on the relevant information and avoiding unwanted details, the anatomy taught integrally with other basic sciences & clinical subjects not only keeps the curiosity alive in the learner but also lays down the scientific foundation for making a better doctor, a benefit to the society.

This insight is gained in a variety of ways:

i. Lectures & small group teaching
ii. Demonstrations
iii. Dissection of the human cadaver
iv. Study of dissected specimens
v. Osteology
vi. Surface anatomy on living individual
vii. Study of radiographs & other modern imaging techniques.
viii. Study of Histology slides.
ix. Study of embryology models
x. Audio-visual aids

Throughout the course, particular emphasis is placed on the functional correlation, clinical application & on integration with teaching in other bio dental disciplines.

d) AN OUTLINE OF THE COURSE CONTENT:

General anatomy: Introduction of anatomical terms and brief outline of various systems of the body.

i. Regional anatomy of head & neck with Osteology of bones of head & neck, with emphasis on topics of dental importance.
ii. General disposition of thoracic, abdominal & pelvic organs.
iii. The regional anatomy of the sites of intramuscular & intra vascular injections, & lumbar puncture.
iv. General embryology & systemic embryology with respect to development of head & neck.
v. Histology of basic tissues and of the organs of gastrointestinal, respiratory, Endocrine, excretory systems & gonads.
vi. Medical genetics

a) THEORY:100HOURS

THEORY

	TOPICS	HOURS
1	Introduction to anatomical terms, position, skin, superficial fascia and deep fascia	1
2	Simple epithelium, compound epithelium, Glandular epithelium	1
3	Scalp	1
4	Muscles of facial expression	1
5	Norma verticalis & Norma frontalis	1
6	Norma occiptalis & norma lateralis	1
7	Cervical vertebrae	1
8	Deep cervical fascia	1
9	Development of face	1
10	Brachial plexus	1
11	Classification of joints	1
12	Connective tissue	2
13	Cartilage	1
14	Bone	2
15	Muscle	1
16	Nervous tissue – Neurons, classification, regeneration, optic nerve, sciatic nerve, sensory & autonomic ganglia	2
17	Thyroid gland & development & developmental anomalies	1
18	Lymphatic drainage of head & neck.	1
19	Lacrimal apparatus & eyelid	1
20	Parotid gland & development	1
21	Dural venous sinuses – classification, cavernous sinus in detail	1
22	Pituitary gland and development & anomalies	1
23	Vascular tissue – Large artery, Medium sized artery, Large vein	1
24	Lymphatic tissue	2
25	Skin and its appendages – hair follicle – Sebaceous gland – sweat gland – nail	1

26	Anterior cranial fossa	1
27	Middle cranial fossa	1
28	Posterior cranial fossa	1
29	Parietal bone	1
30	Occipital bone	1
31	Frontal bone	1
32	Temporal bone	2
33	Norma basalis	2
34	General embryology – oogenesis	1
35	General embryology – spermatogenesis	1
36	General embryology – fertilization	1
37	General embryology – implantation bilaminar	1
38	General embryology – bilaminar germ disc	1
39	General embryology - Neural tube formation, trilaminar germ disc, neural crest, Intraembryonic mesoderm & its fate, Notochord	2
40	General embryology - Folding of embryo	1
41	General embryology - Placenta & foetal membranes	2
42	Pharyngeal pouches & cleft	1
43	Bony orbit	1
44	Muscles of mastication	1
45	Temporomandibular joint	1
46	Hyoglossus muscle and its relations	1
47	Mandible	2
48	Maxilla	2
49	Zygomatic & hyoid bones	1
50	Pharynx	2
51	Nasal cavity & its lateral wall	1
52	Larynx	2
53	Tongue and its development & developmental anomalies	1
54	Middle ear & development	1
55	Coats of the eye – uveal tract in detail	1
56	External features of spinal cord	1
57	Leptomeninges	1

58	Blood supply of brain	1
59	Medulla oblongata– external features	1
60	Pons – external features	1
61	Cerebellum	1
62	4^{th} ventricle	1
63	Mid brain – external features	1
64	3^{rd} ventricle	1
65	Cerebrum – Sulci, gyri and functional area	1
66	Lateral ventricle	1
67	Optic pathway	1
68	White matter of cerebrum and internal capsule	2
69	Basal ganglia	1
70	III Cranial Nerve & IV Cranial nerves	1
71	V Cranial nerve & VI cranial nerves	1
72	VII cranial nerve	1
73	VIII, IX cranial nerves	1
74	X, XI, XII cranial nerves	1
75	Gastrointestinal system	2
76	Respiratory system	2
77	Cardiovascular system	2
78	Excretory system	2
79	Reproductive system – male (1 hr), female (1 hr)	2
80	Medical genetics – Mitosis, Meiosis, Chromosomes and anomalies	1
81	Medical Genetics - Gene structure and genetic disorders	1
82	Medical Genetics - Mode of inheritance	1

Sl. No.	SEMINARS
1.	Submandibular gland
2.	Nasal septum
3.	Soft palate
4.	Auditory tube
5.	Otic ganglion
6.	Pterygopalatine ganglion
7.	Submandibular ganglion
8.	Ciliary ganglion
9.	Ansa cervicalis
10.	Internal and external jugular veins
11.	Subclavian artery
12.	Autonomic nervous system
13.	Paranasal air sinuses
14.	Lingual artery
15.	Circle of Willis
16.	Choroid plexuses of the ventricles

a) PRACTICAL : 175 HOURS

Sl. No.	PRACTICALS
	HISTOLOGY
1.	Simple epithelium
2.	Compound epithelium
3.	Glandular epithelium
4.	Connective tissue
5.	Cartilage
6.	Bone
7.	Muscle
8.	Neuron – Optic Nerve - Peripheral Nerve
9.	Ganglia
10.	Blood vessels
11.	Lymphatic tissue – Lymph node, - Spleen, - Thymus, - Tonsil
12.	Skin – Thin skin, Thick skin
13.	Placenta & Umbilical cord
14.	Trachea & lung
15.	Spinal cord, Cerebellum, Cerebrum
16.	Cornea & Retina
17.	Thyroid & Parathyroid gland
18.	Suprarenal & Pituitary glands
19.	Kidney, Ureter, Urinary bladder
20.	Ovary, Corpus luteum, Testis
21.	Tongue – filiform, fungiform, circumvallate papillae
22.	Salivary glands – Mucous – Serious – Mixed
23.	Liver, Pancreas
	DISSECTION
24.	Introduction to dissection
25.	Scalp
26.	Superficial dissection of face – muscles of face
27.	Side of the neck & Posterior triangle
28.	Back of the neck – suboccipital triangle

29. Anterior triangle
30. Deep dissection of the neck – Thyroid gland parathyroid gland trachea, oesophagus, Brachiocephalic trunk, Subclavian artery Bracheiocephalic vein Thoracic duct. Cervical pleura Neurovascular bundle of the neck, Sympathetic chain, Scalene muscles; Cervical fascia
31. Lymph nodes & lymph vessels of head & neck
32. Prevertebral region – Vertebral artery – Vertebral vein
33. Deep dissection of face – Facial artery – Other vessels - Nerves
34. Structures in the cheek & lips
35. Eyelid & lacrimal apparatus
36. Parotid region
37. Cranial cavity –meninges Dural folds, Venous sinuses
38. Anterior cranial fossa
39. Middle cranial fossa – Pituitary gland
40. Posterior cranial fossa
41. Orbit – structures in the orbit
42. Temporal and infratemporal regions
43. Submandibular region
44. Mouth and pharynx
45. Soft palate and Auditory tube
46. Cavity of the nose
47. Larynx
48. Tongue
49. Organs of hearing & equilibrium – External ear – Middle ear – Internal ear
50. Eye ball
51. Joints of the neck
52. Spinal Cord
53. Introduction to brain
54. Meninges of brain
55. Blood vessels of brain
56. Base of brain
57. Hind brain –Medulla
58. Hind brain – Pons
59. Hind brain – Cerebellum

60. 4^{th} ventricle
61. Midbrain
62. Cerebral hemispheres
63. White matter of cerebrum
64. 3rd ventricle
65. Lateral ventricle
66. Thalami – Optic tract
67. Deep dissection of cerebral hemisphere & Internal capsule
68. Deep nuclei and connections of thalamus

DEMONSTRATION OF SPECIMENS

69. Thoracic wall Chambers of heart Coronary arteries Pericardium
70. LungsPleural cavity Diaphragm
71. Abdomen – Peritoneal cavityOrgans in abdominal & pelvic cavities

CLINICAL PROCEDURES

72. Intramuscular injections Deltoid muscleGluteal region Quadriceps femoris
73. Intravenous injection Median cubital vein Cephalic veinBasilic veinLong saplenous vein Short saplenous vein
74. Arterial pulsations Superficial temporal FacialCarotid Brachial Radial Femoral Dorsalis pedisLumbar puncture

g) *SCHEME OF EXAMINATION*

Distribution of Topics and Type of Questions for University Written examination:

Contents	Types of Questions and Marks	Marks
Questions from any topic included in the theory syllabus	Structured Essays 2x 10marks	20
Questions from any topic included in the theory syllabus Except from the topics from which the long essays have been set	Short Notes 4 x 5marks	20
	Brief Notes 10x3marks	30
	Total	**70**

i. Theory

University Written	70 Marks
Internal Assessment	10 Marks
Viva Voce: Examiner 1-Gross Anatomy- Examiner 2-Osteology, Surface Marking & embryology	20 Marks

ii. Practicals:

University Practical Examination: Gross Anatomy including osteology	80 Marks
Spotters (2 mark each) 2x 15	30 Marks
Discussion on Dissected parts (2 Specimens) 2x15	30 Marks
Histology –spotters (10 slides) 2x10	20 Marks
Internal Assessment:	20 Marks
Grand Total	200 Marks

2. GENERAL HUMAN PHYSIOLOGY

a) GOAL

The broad goal of the teaching undergraduate students in Physiology aims at providing the student comprehensive knowledge of the normal functions of the organ systems of the body to facilitate an understanding of the physiological basis of health and disease.

b) OBJECTIVES

i. Knowledge

At the end of the course, the student will be able to:

(1) Explain the normal functioning of all the organ systems and their interactions for well co-ordinated total body function.

(2) Assess the relative contribution of each organ system towards the maintenance of the milieu interior.

(3) List the physiological principles underlying the pathogenesis and treatment of disease.

ii. Skills

At the end of the course, the student shall be able to:

(1) Conduct experiments designed for the study of physiological phenomena.

(2) Interpret experimental and investigative data

(3) Distinguish between normal and abnormal data derived as a result of tests which he/she has performed and observed in the laboratory.

iii. Integration

At the end of the integrated teaching the student shall acquire an integrated knowledge of organ structure and function and its regulatory mechanisms.

c) THEORY: 120 Hours

1. GENERAL PHYSIOLOGY	**Hours**
Homeostasis: Basic concept, Feedback mechanisms Structure of cell membrane, transport across cell membraneBody fluid Compartments: distribution of total body water, intracellular & extracellular compartments, major anions & cations in intra and extra cellular fluid. Membrane potentials. RMP & Action Potential.	**4**

2. BLOOD: 15

Composition & functions of blood, Plasma proteins - Types, concentration, functions & variations, Erythrocyte: Morphology, functions & variations.Erythropoiesis & factors affecting erythropoiesis, ESR- factors affecting, variations & significance.Haemoglobin - Normal concentration, method of determination [P] & variation in concentration, functionsAnaemia - Definition, classification, life span of RBC's destruction of RBC's, formation & fate of bile pigments, Jaundice - types.Leucocytes: Classification, number, percentage, distribution morphology, properties, functions & variation. Role of lymphocytes in immunity, life span & fate of leucocytes. [Mention Leukemia]Thromobocytes - Morphology, number, variations, function.Haemostatsis – Role of vasoconstriction, platelet plug formation in haemostasis, coagulation factors, intrinsic & extrinsic pathways of coagulation, clot retraction.Fibrinolytic system.Tests of haemostatic function, platelet count, clotting time, bleeding time, prothrombin time - normal values, method & variations. Anticoagulants - mechanism of action.Bleeding disorders.Blood groups:ABO & Rh system, method of determination, importance, indications & dangers of blood transfusion, blood substitutes.[mention only] Blood volume: Normal values, variations.Functions of reticulo-endothelial system. Specific gravity,Packed cell volume,Methods of estimation [in practicals]Blood Indices - MCV, MCH, MCHC - definition, normal values, variation. LeucopoiesisThrombopoiesis.

3.MUSCLE AND NERVE 8

Classification of nerves,Structure of skeletal muscle - Molecular mechanism of muscle contraction, Neuromuscular junction and NM transmission. Properties of skeletal muscle.Structure and properties of cardiac muscle & smooth muscle.

4. DIGESTIVE SYSTEM : 10

Introduction to digestion: General structure of G.I. tract, Innervation. Salivary glands: Saliva: composition, regulation of secretion & functions of saliva.Stomach: Composition and functions of gastric juice, mechanism and regulation of gastric secretion. HCl secretion. Physiological basis of Peptic ulcer management [briefly]Exocrine Pancreas - Structure, composition of pancreatic juice, functions of each component, regulation of pancreatic secretion.Liver : structure , composition of bile, functions of bile Gall bladder: structure, functions.Small intestine - Composition, functions Large intestine - Functions.Motor functions of GIT: Mastication, deglutition, gastric filling & emptying, movements of small and large intestine, defecation.

5. EXCRETORY SYSTEM : 8

Structure & functions of kidney, functional unit of kidney & functions of different parts. Juxta Glomerular apparatus. Special functional features of renal circulation.Formation of Urine: Glomerular filtration rate - definition, normal values, factors influencing G.F.R. Tubular reabsorption - Reabsorption of sodium, glucose, water & other substances. Tubular secretion - secretion of urea, hydrogen and other substances. Countercurrent mechanisms.Micturition: anatomy & innervation of Urinary bladder, mechanism of micturition.Determination of GFR.Role of kidney in the regulation of pH of the blood. Urinary bladder: abnormalities.

6. SKIN AND TEMPERATURE REGULATION [basics only] 4

7. ENDOCRINOLOGY 14

General endocrinology- endocrine glands & hormones. Second messengers. Endocrine function of hypothalamus.Hormones of anterior pituitary & their actions, Disorders of secretion of anterior pituitary hormones.Posterior pituitary hormones: actionsThyroid: secretion & transport of hormones, actions of hormones, regulation. Adrenal cortex & Medulla- action,Other hormones - Angiotensin, local hormones Pancreatic HormonePTHEndocrine Disorders to be taught with each gland.

8. REPRODUCTION 6

Physiological anatomy of male and female sex organs, Gonadotropic hormones. Sex chromatin.Female reproductive system: Menstrual cycle, functions and hormones of ovary. Ovarian and uterine changes during menstrual cycle. Actions of oestrogen &Progesterone control of secretion of ovarian hormones, fertilization, implantation, maternal changes during pregnancy and parturition. Lactation, milk ejection reflex.Male reproductive system, spermatogenesis, hormones-testosterone. Semen. Contraception.

9. CARDIOVASCULAR SYSTEM 15

Functional anatomy and innervation of heart. Properties of cardiac muscle. Origin & propagation of cardiac impulse and Pacemaker potential. Action potential.Cardiac cycle - Phases, Pressure changes in atria, ventricles & aorta. Volume changes in ventricles. Heart sounds.Jugular venous pulse Arterial pulse.Electrocardiogram- Basic principles only. Normal electrocardiogram. Heart rate: Normal value, variation.Stroke volume and Cardiac output: definition, normal

values, variations, factors affecting.Arterial blood pressure: Definition, normal values, variations, determinants. Regulation of heart rate, stroke volume, blood pressure: integrated concept.
Coronary circulation: special features. Cardiac murmursCardiac output: one method of determination Cardio vascular homeostasis in exercise & posture.

10. RESPIRATORY SYSTEM **12**

Physiology of Respiration: External & internal respiration. Functional anatomy of respiratory passage & lungs. Respiratory movements: Muscles of respiration, Mechanism of inflation & deflation of lungs. Intra pleural & intra pulmonary pressures & their changes during the phases of respiration. Mechanics of breathing - surfactant, compliance & work of breathing [basics only].Spirometry: Lung volumes & capacities definition, normal values, significance, factors affecting vital capacity, variations in vital capacity, Pulmonary ventilation- alveolar ventilation & dead space-ventilation.Pulmonary circulation: Functional features. Composition of inspired air, alveolar air and expired air.Exchange of gases: Diffusing capacity, factors affecting it.Transport of Oxygen & carbon dioxide in the blood. Regulation of respiration- neural & chemical.Hypoxia, cyanosis, dyspnoea, periodic breathing. Artificial respiration.FEV & its variations. Pulmonary function testsRespiratory changes during exercise.

11. CENTRAL NERVOUS SYSTEM **10**

Organisation of central nervous system Neuronal organisation at spinal cord level, Synapse: functional significance.Receptors, reflexes, sensations and sensory tracts, motor system Physiology of pain. Referred pain. Analgesia systems.Functions of thalamus, cerebellum. Vestibular apparatus [basics only] Cerebral cortex: Basics of higher functions.Formation and functions of CSF: clinical significance. Autonomic nervous system.

12. SPECIAL SENSES **14**

Fundamental knowledge of vision, hearing, taste and smell. Errors of refraction.Tests of auditory function.

d) PRACTICALS

The following list of practical is minimum and essential. The entire practical have been categorized as procedures and demonstrations. The procedures are to be performed by the students during practical classes to acquire skills. All the procedures are to be included in the University practical examination. Those categorized as demonstrations are to be shown to the students during practical classes. However these demonstrations would not be included in the University examinations but question based on this would be given in the form of charts, graphs and calculations for interpretation by the students.

Practicals & demonstrations: 60 hours

Practicals	**Hours**
Study of Microscope and its uses	02
Collection of blood and study of haemocytometer	02
Haemoglobinometry	02
Determination of RB count	08
Determination of WBC count	04
Determination of blood groups	02
Leishman's staining and differential leucocyte count	10
Calculation of blood indices	02
Determination of bleeding time	01
Determination of clotting time	01
Blood pressure recording	03
Auscultation of Heart sounds	02
Demonstrations	
Determination of Erythrocyte Sedimentation rate(ESR)	02
Determination of packed cell volume(PCV)	02
Determination of specific gravity of blood	02
Fragility test for RBC	02
Clinical examination of Cardiovascular and Respiratory System	03
Determination of vital capacity	02
Artificial respiration	02
Demonstration of deep and superficial reflexes	02
Activity of frog's heart and effects of Acetylcholine, Atropine and	02
Electrocardiography: Demonstration of recording of normal Electro	02
Total	**60**

e) *SCHEME OF EXAMINATION*

Types of Questions for written examination

Type of Questions	**Marks**
Structured Essays 1x 10 marks	10
Short Notes 2 x 5 marks	10
Brief Notes 5 x 3 marks	15
Total	**35**

i. *Theory:*

University written Examination: 35Marks

University Viva: 10Marks

Internal Assessment: 5 Marks

Total: 50 Marks

ii. ***Practicals:***

Internal Assessment: 10 Marks

University Practicals: 40Marks

Total: 50 Marks Grand Total 100Marks

Mark distribution for University practical examination

Major Experiments: 20Marks

Any one of the Major Experiments: R.B.C. Count, W.B.C. Count, Differential Count, Blood Pressure Recording

Minor Experiments: 15Marks

Any one of the minor Experiments: Determination of Blood Groups, Determination of Bleeding & Clotting time, Haemoglobin Estimation, Calculation of absolute Hematological Indices–MCH, MCV, MCHC

Practical Work record: 5 Marks

3. BIOCHEMISTRY, NUTRITION AND DIETETICS

a) AIMS AND SCOPE

The major aim is to provide a sound but crisp knowledge on the biochemical basis of the life processes relevant to the human system and to dental/medical practice. The contents should be organized to build on the already existing information available to the students in the pre-university stage and reorienting. A mere rehash should be avoided.

The chemistry portion should strive towards providing information on the functional groups, hydrophobic and hydrophilic moieties and weak valence forces that organise macromolecules. Details on structure need not be emphasised.

Discussion on metabolic processes should put emphasis on the overall change, interdependence and molecular turnover. While details of the steps may be given, the student should not be expected to memorise them. An introduction to biochemical genetics and molecular biology is a must but details should be avoided. The exposure to antivitamins, antimetabolites and enzyme inhibitors at this stage, will provide a basis for the future study of medical subjects. An overview of metabolic regulation is to be taught by covering hormonal action, second messengers and regulation of enzyme activities. Medical aspects of biochemistry should avoid describing innumerable functional tests, most of which are not in vogue. Cataloguing genetic disorders under each head of metabolism is unnecessary. A few examples which correlate genotype change to functional changes should be adequate.

At the end of the course the student would be able to acquire a useful core of information, which can be retained for a long time.

b) THEORY: 70 HOURS

No.	TOPIC	HOURS ALLOTTED
I	**CARBOHYDRATES**	**12 hours**
	Definition, biological importance and classification. Monosaccharide's –Glucose,	
	fructose, galactose, mannose	I
	Reactions: reducing property, oxidation, osazone, Molisch test. Define anomerism, epimerism with examples.	I
	Disaccharides-lactose, maltose, sucrose, Glycosidic bond, amino sugars, deoxy sugars	I

Polysaccharides. Structures of starch and glycogen, Muco polysaccharides (definition, name, components, biochemical	1
significance. nature of linkages not required) Dietary fibers.	
Digestion and absorption of carbohydrates. associated disorders(in brief)	1
Glycolysis, fates of pyruvate Gluconeogenesis.	2
Glycogenesis, glycogenolysis,	2
Significance of pentose phosphate pathway. Importance of glucuronic acid.	1
Regulation of blood glucose. Diabetes mellitus: impaired fasting glucose, impaired glucose tolerance, gestational diabetes mellitus. Evaluation of glycemic status.	2
2 LIPIDS	**9 hours**
Definition, biological importance and classification. Fats and fatty acids. Essential fatty acids. Introduction to compound lipids.	
Cholesterol.	2
Digestion and absorption of lipids	1
Beta oxidation of fatty acids	1
Fatty acid synthesis, (in brief)	1
Ketone body formation and utilization	1
Outlines of cholesterol synthesis and compounds formed from cholesterol	1
Plasma lipoproteins: Formation, function and dyslipidemia, Atherosclerosis.	2
3 ENZYMES	**6 hours**
Definition, classification, specificity and active site. Cofactors.	1
Factors affecting enzyme action	2
Enzyme inhibition	2
Clinical important enzymes- AST,ALT,ALP,PSA, LDH,CK,G6PD,GGT	1

4 PROTEINS	**9hours**
Amino acids: Classification. Introduction to peptides, peptide bond Proteins: Classification. Charge properties. Buffer action. Levels of protein organization Denaturation.	3
Digestion and absorption of proteins. Nitrogen balance. Essential amino acids. Protein quality and requirement (methods for evaluation of protein quality to be excluded). Protein-calorie malnutrition, Balanced diet.(in brief)	2
Formation of Ammonia and Urea cycle.	1
Reactions of amino acids-transamination, trans methylation, trans sulfuration (in brief)	1
Compounds formed from glycine	1
Biologic importance of aromatic amino acids, sulphur containing amino acids, Aminoacidurias (in brief)	1
5 INTEGRATION OF METABOLISM	**2hours**
High energy compounds, Electron transport chain and oxidative phosphorylation.	
6 VITAMINS	**5 hours**
Fat soluble vitamins A,D,E,K, sources, functions, daily requirements, deficiency, Toxicity	2
Water soluble vitamins B, C, sources, functions, daily requirements, deficiency, Toxicity	3
7 ACID BASE BALANCE	**4hours**
Buffers, respiratory and renal regulation, disorders, analysis	
8 MINERALS	**6hours**
Classification, daily requirement. Calcium and phosphorous: sources, uptake, excretion, function. Serum calcium regulation.	2
Iron: sources, uptake and transport. Heme and nonheme iron functions; deficiency	2
Iodine: Brief introduction to thyroxine synthesis. General functions of thyroxine.	
Fluoride: function, deficiency and excess	1
Indications of role of other minerals	1

9 HAEMOGLOBIN	**3 hours**
Structure, synthesis, degradation	1
Hemoglobinopathies	1
Jaundice	1
10 PLASMA PROTEINS	**2 hours**
Classification and separation. Functions of albumin. immunoglobulins. Biochemistry of AIDS.	
11. LIVER FUNCTIONTESTS	**1 hours**
12. KIDNEY FUNCTIONTESTS	**1 hours**
13. MOLECULAR BIOLOGY	**8 hours**
Nucleic acids: Building units. Nucleotides. Outline structure of DNA and RNA.	2
Formation and degradation of nucleotides. (in brief) Gout. Lesch- nyhan syndrome	2
Replication. Transcription. (in brief) Antimetabolites and antibiotics interfering in replication, transcription	2
Outline of translation process.	2
14. Techniques-colorimetry, ELISA, RIA	**2 hours**

c) PRACTICALS,DEMONSTRATION& SEMINAR: 60 hours

i. Practical: 45 hours

Sl.No.	Procedure	Hours
1.	Introduction to lab procedures	1
2.	Normal & abnormal constituents of urine	12
3.	Introduction to clinical chemistry	2
4.	Estimation of blood urea	2
5.	Estimation of serum protein	2
6.	Estimation of blood sugar	2
7.	Estimation of serum creatinine	2
8	Estimation of serum albumin	2

ii. Demonstration:		20 hours
Sl.No.	Procedure	Hours
1.	Electrophoresis	2
2.	Chromatography	2
3.	GTT charts	2
4.	LFT charts	2
5.	Revision	3
iii. Seminars:		15 hours

SCHEMEOF EXAMINATION

Types of Questions for written examination

Type of Questions	**Marks**
Structured Essays 1x 10 marks	10
Short Notes 2 x 5 marks	10
Brief Notes 5 x 3 marks	15
Total	**35**
i.	***Theory:***
University written Examination:	**35Marks**
University Viva:	**10Marks**
Internal Assessment:	**5 Marks**
Total:	**50 Marks**
ii.	***Practicals:***
Internal Assessment:	**10 Marks**
University Practicals:	**40Marks**
Total:	**50 Marks**
Grand Total	**100Marks**
Mark distribution for University practical examination;	
One procedure for quantitative estimation	15marks
One procedure for qualitative analysis	20marks
Practical Work record:	5 Marks

The following Procedures are suggested for University Practical Examination:

Quantitative Estimation (Any ONE estimation to be done)

Estimation of blood sugar/serum creatinine/blood urea/serum protein/ serum albumin

Qualitative Analysis (Any ONE analysis to be done)

Urine Analysis–normal constituents Report of abnormal urine

4. DENTAL ANATOMY, EMBRYOLOGY AND ORAL HISTOLOGY

a) INTRODUCTION:

The course includes instructions in the subject of Dental Morphology, Oral Embryology, Oral Histology and Oral Physiology. A composite study of basic Dental Sciences & their clinical applications.

b) SKILLS

e student should acquire basic skills in:

Carving of crowns of permanent teeth in wax. Microscopic study of Oral tissues.

Identification of Deciduous & Permanent teeth

Age estimation by patterns of teeth eruption from plaster casts of different age groups.

c) OBJECTIVES

r a course on Oral Biology,

The student is expected to appreciate the normal development, morphology, structure & functions of oral tissues & variations in different pathological/non-pathological states. The student should understand the histological basis of various dental treatment procedures and physiologic ageing process in the dental tissues.

The students must know the basic knowledge of various research methodologies

d) COURSE CONTENT

i. Theory: 105 hours

DENTAL ANATOMY	HOURS
1. Introduction, Dental Anthropology & Comparative Dental Anatomy	
2. Function of teeth.	**3**
3. Nomenclature.	
4. Tooth numbering systems (Different system) (Dental formula).	
5. Chronology of deciduous and permanent teeth. (First evidence of calcification, crown completion, eruption and root completion).	**2**

6. Deciduous teeth - a) Nomenclature. b) Importance of deciduous teeth.c) Form & function, comparative dental anatomy, fundamental curvature **4**

7. Gross morphology of deciduous teeth. **5**
8. General differences between deciduous and permanent teeth. **1**
9. Morphology of permanent teeth.Chronology, measurements, description of individual surface and variations of each tooth. **12**
10. Morphological differences between incisors, premolars and molars of same arch. **1**
11. Morphological differences between maxillary and mandibular. incisors, canines, premolars and molars of the opposite arch **1**
12. Internal Anatomy of Pulp. **1**
13. Occlusion: a. Development of occlusion. b. Dental arch form. c. Compensating curves of dental arches. d. Angulations of individual teeth in relation to various planes. e. Functional form of the teeth at their incisal and occlusal thirds. f. Facial relations of each tooth in one arch to its antagonist or antagonists in the opposing arch in centric occlusion.g. Occlusal contact and interscusp relations of all the teeth of one arch with those in the opposing arch in centric occlusion. h. Occlusal contact and intercusp relations of all the teeth during the various functional mandibular movements. i. Neurobehavioral aspect of occlusion **8**
14. Temporo Mandibular Joint (T.M.J.):Gross Anatomy and articulation.Muscles (Muscles of mastication). Mandibular position and movements.Histology. Clinical considerations with special emphasis on Myofacial Pain Dysfunction Syndrome (MPDS) - (Desirable to Know) **2**

ORAL PHYSIOLOGY

1. Theories of calcification **1**
2. Mastication and deglutition **1**

Oral Embryology, Anatomy and Histology:

1. Development and growth of face and jaws. **1**
2. Development of tooth. **3**
3. Cranial nerves with more emphasis on V.VII and IX. **1**
4. Blood supply, nerve supply and lymphatic drainage of teeth and surrounding structures **1**

5. Cell - structure and function **1**
6. Maxillary sinus - Structure, Variations, Histology function and clinical considerations
7. Salivary Glands - Classification, structure, function, Histology, Clinical Considerations and age changes. **4**
8. Oral Mucous membrane:Definitions, General consideration. Functions and classifications. Structure and microscopic appearance of gingiva, palate, lips, alveolar mucosa, tongue, floor of mouth. Gingival sulcus and dentogingival junction. Clinical considerations and age changes. **8**
9. ENAMEL:Physical characteristics, chemical properties structure. Development - Life cycle of ameloblasts, Amelogenesis and Mineralisation. Clinical considerations. Age changes. **8**
10. DENTIN:Physical characteristics, chemical properties, structure. Types of dentin. Dentin innervation and hypersensitivity. Development - Dentinogenesis and mineralisation. Clinical considerations. Age Changes. **6**
11. PULP:Anatomy, structural features, functions, pulp organs. Developments. Clinical considerationAge changes. **6**
12. CEMENIUM:Physical characteristics, chemical properties, structure. Cementogenesis. Clinical consideration Age changes. **4**
13. PERIODONTAL LIGAMENT:Cells and fibers, Functions, Development, Clinical Considerations., Age Changes **5**
14. ALVEOLAR BONE:Physical characteristics, chemical properties structure. Structure, Development., Internal reconstruction, Clinical consideration. **5**

Tissue processing & Histochemistry **4**

THEORIES OF ERUPTION AND SHEDDING.
(Physiological tooth movement) **4**

ii. Practical: 250 Hours

DENTAL ANATOMY: Carving on wax blocks:-a. Individual tooth - Only permanent teeth of both arches.- Central, Incisors, Lateral, Canines, Premolars and 1st and 2nd molars

HISTOLOGY: List of Histology slides:**Development of tooth:**

1. Bud stage of tooth development.
2. Cap stage of tooth development.
3. Early bell stage of tooth development.
4. Late Bell stage of tooth development.
5. Root formation.

ENAMEL:

1. Enamel rod.
2. Hunter-Schreger Bands
3. Tufts, Lamellae, Spindles.
4. Incremental lines of Retzius.
5. Neonatal line.
6. Gnarled Enamel.

DENTIN:

1. Dentino - Enamel junction.
2. Dentinal Tubules.
3. Incremental lines of Von Ebner.
4. Contour lines of Owen.
5. Neonatal line.
6. Tomes granular layer.
7. Interglobular Dentin.
8. Secondary Dentin.
9. Intratubular Dentin.
10. Intertubular Dentin.

CEMENTUM:

1. Cellular cementum.
2. Acellular cementum.
3. Cemento enamel junction
   - Type 1 - 60% type - Overlapping.
   - Type 2 - 30% type - Butt
   - Type 3 - 10% type - Cementum & Enamel do not meet.
4. Sharpey's fibers.
5. Hypercementosis.

PULP:

1. Zones of Pulp.
2. Pulp stones.

PERIODONTAL LIGAMENT:

01. Principle fibers of Periodontal ligament

- Apical, Horizontal, Oblique, Alveolar crest, Interradicular, Transeptal

ALVEOLAR BONE:

1. Haversian system.
2. Trabeculated bone.
3. Mature and immature bone.

SALIVARY GLANDS:

1. Mucous gland.
2. Serous gland.
3. Mixed gland.

MAXILLARY SINUS:

Sinus lining (Pseudostratified ciliated columnar) (Desirable to know)

ORAL MUCOUS MEMBRAIN:

1. Parakeratinised epithelium.
2. Orthokeratinised epithelium.
3. Palate - Anterolateral zone.
4. Palate - Posterolateral zone.
5. Alveolar mucosa.
6. Vermilion border of lip.
7. Tongue - Circumvallate Papillae.

- Fungiform Papillae
- Filiform Papillae

Preparationof Ground sections, haematoxylin & Eosin sections& decalcified section

iii. Lecture demonstration:

Identification of Individual teeth

(1) Deciduous

(2) Permanent

(3) Mixed dentition using study models

(4) Demonstration of preparation of ground section, Decalcification, Paraffin section and H & E Staining.

e) SCHEME OF EXAMINATION

Distribution of Topics and Type of Questions for University written examination

Contents	Type of Questions and Marks	Marks
Dental anatomy - one question - 14 marks Detailed morphology of Permanent teeth, Differences between Primary & Permanent teeth, Occlusion and Arrangement of teeth.	Structured Essays 2x 10marks	20
B. Oral histology - one question - 14 marks Development of tooth, Enamel- structure & development, Dentin- structure& development, Cementum, Dental pulp- structure & histology, Periodontal ligament, Alveolar bone- structure & histology, Oral mucosa- structure & histology, Eruption of teeth	Short notes 4 x 5marks Brief Notes	20
A. Oral histology - two questions - 16 marks B. Dental anatomy - one question - 08 marks C. Oral physiology - one question - 08 marks A. Oral histology - five questions - 20 marks B. Dental anatomy - three question - 12 marks C. Oral physiology - one question - 04 marks D. Oral embryology - one question - 04 marks	10x3marks	30
	Total	*70*

i *Theory*

University written Examination:	70Marks
University Viva:	20Marks
Internal **Assessment:**	**10 Marks**

ii. Practicals:

Internal Assessment:	**20 Marks**
University Practicals:	**80Marks**
Grand Total	**200 Marks**

Mark Distribution for University Practical Examination:

Tooth Carving: (Time allotted 75 Minutes) 25 Marks

Spotters: (15X3 marks) 45 Marks

Practical work Record: 10 marks

Type of Spotters:

8 Histology and Ground Section slides 5 Tooth identification

2 Casts for identification of teeth, numbering system and age assessment

2.3. No. of hours per subject

I. BDS

Sl. No.	Subjects	Lecture (hrs)	Practical (hrs)	Clinical (hrs)	Total (hrs)
1.	General Human Anatomy including Embryology and Histology	100	175	—	275
2.	General Human Physiology	120	60	—	180
3.	Biochemistry, Nutrition and Dietetics	70	60	—	130
4.	Dental Anatomy, Embryology and Oral histology	105	250	—	355
5.	Dental Materials	20	40	—	60
6.	Pre clinical Prostho-dontics and Crown & Bridge	—	100	—	100
7.	Pre clinical Conser-vative Dentistry	—	100	—	100
	Total	**415**	**785**	**—**	**1200**

1. EXAMINATIONS

3.1 Eligibility to appear for University examinations

a) Preface:

i. Evaluation is a continuous process, which is based upon criteria developed by with certain objectives to assess the performance of the learner. This also indirectly helps in the measurement of effectiveness and quality of the concerned B.D.S. programme.

ii. Evaluation is achieved by two processes

1) Formative or internal assessment

2) Summative or university examinations.

Formative evaluation is done through a series of tests and examinations conducted periodically by the institution.

Summative evaluation is done by the university through examination conducted at the end of the specified course.

b) Methods of evaluation:

Evaluation may be achieved by the following tested methods:

i. Written test

ii. Practical examination

iii. Clinical examination

iv. Viva voce

c) Eligibility criteria:

For a candidate to be eligible to write the university examination of an year of study for the first time he/she should have minimum 80% attendance in all the subjects in which examination is being held for the year of study and a minimum of 70% in Lectures and Practical/ Clinical separately in all the non-exam subjects for the year (Refer Section 1.8). However candidates with such 80% attendance in all the subjects of study for which university examination is held for a particular year will be eligible to attempt the university examination only in those subjects in which he/she has secured the minimum requirement of 40% of internal assessment marks. A candidate can reappear for university examination in the failed subjects provided he/she has secured minimum 70% attendance (theory & practical separately) and have scored minimum 40% marks in internal assessment conducted for the subject during the supplementary period.

Schedule of regular/Supplementary examinations

The University examination for a subject shall be conducted twice in a year as per the schedule approved by the Board of Examinations at an interval of not less than four to six months as notified by the university from time to time.

Scheme of examination Showing Maximum and Minimum Marks

The scheme of examination for B.D.S. Course shall be divided into 1st B.D.S. examination at the end of the first, 2nd B.D.S. examination at the end of second, 3rd B.D.S. examination at the end of third and Final BDS Part I examination at the end of fourth academic year. The Final B.D.S part II examination will be held on completing six months of the fifth academic year. The examination shall be open to a candidate who satisfies the requirements of attendance, progress and other rules governing the institution and The University.

1. Distribution of Marks

i. For each paper in which written examination is held:

Theory

University written examination	70
University Viva Voce	20
Internal assessment	10
Total	100

Practical/ clinical

University Practical/ Clinical examination	80
Internal assessment	20
Total	100
Aggregate marks for each paper	200

ii. For Preclinical Examination in Prosthodontics/Conservative Dentistry & Orthodontics

University Practical examination	60
Viva voce	20
Internal assessment Practical	20
Total	100

preclinical examination in each subject is to be conducted separately.

Details of theory examination (written)

1. The written examination in each paper will be of three hours duration and shall have maximum marks of 70. Type of Questions and Distribution of marks for written examination should be as given in table I given below.
2. The paper of Physiology & Biochemistry will be divided into two Sections, Section A (Gen. Physiology) and Section B (Biochemistry) of equal marks. Type of Questions and Distribution of marks for

written examination should be as given in table II below.

3. The paper of Pathology & Microbiology will be divided into two Sections, Section A (Gen. Pathology) and Section B (Microbiology) of equal marks. Type of Questions and Distribution of marks for written examination should be as given in table III below.
4. The paper of Dental Materials will be divided into two Sections, Section A (Prosthodontics) and Section B (Conservative Dentistry) of equal marks. Type of Questions and Distribution of marks for written examination should be as given in table IV below.
5. The question paper should contain different types of questions like essay, short note and brief note.
6. The nature of questions should be aimed to evaluate students of different standards ranging from average to excellent.
7. The questions should cover as broad an area of content of the course as possible. The essay questions should be properly structured and the marks specifically allotted.

Table I.

Type of Question	**No. of Question**	**Marks / Question**	**Total Marks**
Structured Essay	2	10	20
Short note	4	5	20
Brief note	10	3	30
Grand Total			**70**

Table II.

Physiology and Biochemistry

Subject	***Type of Questions***	***No. of Questions***	***Marks of Questions***	***Total Marks***
Section A *Physiology*	*Structured Essay*	*1*	*10*	*10*
	Short note	*2*	*5*	*10*
	Brief note	*5*	*3*	*15*
Grand Total				***35***

Subject	Type of Questions	No. of Questions	Marks of Questions	Total Marks
Section B Biochemistry	Structured Essay	1	10	10
	Short note	2	5	10
	Brief note	5	3	15
Grand Total				**35**

*Refer to website www.kuhs.ac.in for detailed syllabus and model question paper.

Rules & Regulations

GENERAL RULES OF PUSHPAGIRI COLLEGE OF DENTAL SCIENCES

General Behaviour

a) All students are expected to conduct themselves with decorum and discipline at all times and in all places. Each one should maintain the highest moral standard always and refrain from using foul language.

b) Students should report for classes punctually at 8 am. They should not loiter around during class hours and should refrain from noisy unruly behavior in the college and class rooms.

c) Students are not permitted to use mobile phones at all in the college campus.

d) Students are not allowed to bring any vehicles into the college campus or the hostels.

e) All assignments and other works given by teachers should be regularly done and submitted in time.

f) Students are expected to be polite and courteous in their behavior at all times.

g) Students should not deface or dirty the walls, benches or other furniture. Classrooms and surroundings should be kept tidy and clean. Litter should be put in the waste bins only.

h) For irregular attendance, disobedience, malpractice at exams or any action not conducive to the moral tone and discipline of the institution, a student may incur punishment including suspension or dismissal.

i) Hostels are out of bounds to the day scholars.

j) Students are responsible for any valuables/ cash carried by them and the institution will not be responsible for any loss sustained. However this may be reported to the Principal's office.

k) Any damage done to the college property should be paid for.

l) Any serious breach of discipline including discourtesy and disrespect to the staff/management/wardens in any way will be taken seriously.

m) Parents staying abroad should give the contact details of a responsible guardian who can take the entire responsibility of the ward, in the absence of the parent.

n) Gambling, smoking, consumption of alcoholic drinks, reading/ browsing of pornographic material, keeping or using of dangerous drugs is prohibited.

o) Ragging in ANY FORM is STRICTLY prohibited and any indulgence in such activity will result in IMMEDIATE EXPULSION. Ragging, whether physical or psychological, is a criminal offence before the Indian Law, as detailed in 'The Kerala Prohibition of Ragging Act- 1998' , Act 10 of 1998 published in Kerala Gazette Extra No.1007 dated 24/6/1998. The Principal will notify the offence to the police if deemed necessary, after consultation with the management.

p) Students are prohibited in getting engaged in political agitations, strikes or demonstrations of any kind. They should not put up or circulate notices, hold meetings or collect subscriptions of any sort, under any circumstances, anywhere in the college or hostel premises, without prior permission from the Principal.

Dress Code

Students should wear clean, neat and presentable clothing. Boys should be clean shaved. Students are advised to follow the dress advised by the College.

Dress Code for Boys

- Trousers and collared shirt
- Shoes and Socks
- Clean white apron with name tag

Dress Code for Girls

- Formal wear dress like Churidar
- Closed foot wear
- Hair (beyond shoulder length) to be tied up
- Clean white apron with nametag

In case of violation of the dress code, the student concerned will be asked to leave the academic session.

Fees structure

Tution Fee

All students should remit the tution fees for the academic year within the stipulated time period. Late payment would result in fine.

College Caution Deposit

A one time refundable caution deposit should be paid at the time of admission.

Hostel Fee

Hostel fees should be paid for one full year at the time of admission. Late payment would result in fine.

Hostel Caution Deposit

A one time refundable caution deposit should be paid at the time of admission. This shall be refunded once the student vacates the hostel.

Hostel Mess Fee

Hostel provides both vegetarian and non-vegetarian food for students. Students should pay the mess fee for 6 months inadvance. Students can avail reduction of mess fees if they are not in hostel for a minimum of 5 days.

Transportation Fee

Transportation is available for the students from Dental College to Medical College.

Mode of payment

Fees can be remitted as online transfer to the Pushpagiri College of Dental Sciences account or in the form of Demand Draft drawn in favour of Pushpagiri College of Dental Sciences payable at Thiruvalla.

Academics

The medium of instruction is English. All students must be in possession of the identity cards provided by the college. Any loss should be promptly reported to the Principal. The cards must not be mutilated, defaced or rendered ineffective for identification. The card must be returned at the termination of course/withdrawal from the institute.

Students would be assigned assignments, project works, seminars, practical exercises during their academic curriculum. **Students should have a minimum of 80% attendance and 40% of internal assessment marks which is mandatory for appearing in the University examination. Internal assessment marks for a student in a subject will be calculated as the average of the marks obtained in the model examination(compulsory) and the highest among all other internal examinations in the subject. Any student who fails to achieve the required criteria would be ineligible for University examinations.**

Regular PTA meeting would be arranged for the interaction of the parent with the teachers to discuss the performance of their ward. Parents are requested to attend the scheduled PTA meetings without fail.

Students are advised to make full use of the central library available which has a large collection of books and latest journals.The library also has internet facility. Students are responsible for any textbooks, library books, or any equipment loaned to or used by them. If misused or damaged, students will be responsible for charges to repair or replace. Students should maintain perfect silence in the library.

Interfering or tampering any of the office records of college/ university is a serious offence and will result in suspension/ rustication.

Students can avail leave on special grounds only with prior permission of the HODs concerned.

Any student involved in or encouraging the involvement of another student in fighting will be suspended. Persistent involvement will result in expulsion from the college.

Ragging

Ragging within or outside the institution is prohibited. Students who directly or indirectly commits, participates in, abets or instigates ragging inside or outside the institution shall be suspended, expelled or rusticated from the institution. The punishment includes rigorous imprisonment, cancellation of admission, suspension from attending classes, withholding/ withdrawing fellowship/scholarship and other financial benefits.

Ragging includes display of noisy, disorderly conduct, teasing, rough or rude treatment, indulging in rowdy, undisciplined and obscene activities which cause or are likely to cause annoyance, undue hardship, physical or psychological harm or mental trauma or raise apprehension or fear in a fresher or other students, or forcing a student to do any act which such a student is not willing to do or which causes him/ her shame or embarrassment or danger to his/her life or indulging in eve teasing. The students are reminded that ragging in educational institutions in the state of Kerala is a crime and punishable by imprisonment upto 2 years and a fine upto Rs 10000/- according to the Kerala Prohibition of Ragging Act 1998(Act 10 of 1998) the offending students also invite expulsion from the college and are banned from admission to any college for a period of 3 years.

All students should file an online affidavit through the website www.antiragging.in or www.amanmovement.org.The online affidavit should be signed by the student and parent and submitted to the college office at the time of admission.

Information for Students

1. To become a good professional, the student should be very clear in his/her ambition and set appropriate goals for themselves.
2. The priorities for the day should be clear in the mind.
3. Proper time management is very essential (with proper time management a student can easily have 3 hours of relaxation per day and read for 5 hours per day).
4. Mind and body should be kept active. Priorities and ambition may be forgotten if relaxation is overdone.
5. Attendance and internal assessment are two valuable tools to monitor the academic progress of a student. To avoid anxiety and tension before exam one should maintain a good record of attendance and internal assessment. Though 100% attendance is essential, 20% absenteeism is permitted to cover ill health and family commitments.
6. It is advisable that students stay only in hostels. When in hostels, they are expected to abide by the hostel rules and regulations. It is mandatory for students to keep the warden informed of their visits to a friend or relative or if he or she is going to be away from the hostel for more than a day. Students should not keep costly and valuable items in the room.
7. The behaviour of the student in and around the campus should befit the noble profession they have opted for. Lab coats (apron) should be worn only inside the campus.
8. During clinical postings, should behave appropriately when dealing with patients.
9. Students are expected to strictly observe the dress code of the institution.
10. Indiscipline will be dealt with as per rules and the nature of punishment can vary from suspension to dismissal from the institution.
11. In case of ill health, students should report to the casualty at Pushpagiri Medical College Hospital.
12. Any student involved in criminal offences in the campus and any indiscipline outside the campus will be handled by the concerned authorities.
13. The following are banned and severely dealt with:
    - Drugs, drinking (liquor) and smoking
    - Ragging & eve teasing

- Cheating, stealing, provocation, coercion, threats, pressure tactics & fights

14. Appropriate stringent action has been taken to prevent ragging. Anti-ragging Committee, Anti-ragging Squad, are the committees which will oversee and take appropriate steps to prevent ragging.
15. **Students are not permitted to use mobile handsets with camera in the college. The equipment shall be confiscated if the student is found to possess it.**

Mandatory Vaccination for all students

- **Hepatitis 'B' Vaccine:** 3 doses
  0, 1, 6 months (Intra muscular)

Optional Vaccination for students

- **Chickenpox Vaccine:** 2 doses
  0, 6 Weeks (Subcutaneous)
- **Typhoid Vaccine:** Single dose (Intramuscular)
  3 years immunity following vaccination
  Hepatitis A Vaccine: 2 doses
  0, 6 months

LEAVE RULES FOR BDS STUDENTS

1. Application for leave **up to three days** need be submitted only to the concerned departments and approval must be obtained prior to availing the leave.
2. Other than for special circumstances, leave for **four days or more** shall be granted only on medical grounds.
3. The student availing medical leave should, as soon as possible, inform the class representative by telephone. The class representative should inform the concerned departments and the college office regarding the same.
4. Leave on medical grounds should be submitted to the college office on the day of rejoining along with the medical certificate.
5. Student staying in the hostel need to submit separate leave application approved by the Vice Principal to the Hostel Warden.
6. Separate application forms are available in the college office for:-

a. Leave up to 3 days.
b. Leave for 4 days or more.
c. Leave from hostel

HOSTEL FACILITIES AVAILABLE

St. Thomas Hostel for Men

St. Alphonsa Hostel for Women

General information about hostels

Separate hostel accommodation is provided for men and women. All BDS students should stay in the hostel, except for those residing within a radius of three kilometers from the college campus.

Administration

The Principal will be in charge of the overall administration of the students' hostels. The day to day administration of the hostels will be done by the Warden in charge of the hostel. Wardens and assistant wardens will be appointed by the Chief Executive Officer as and when required with due information to the Principal.

The wardens shall be in contact with the Director-Medicity, who is also in charge of student welfare in all the hostels. He shall render spiritual and moral assistance to the students through personal counselling and guidance. He will be available in his office during fixed times and on appointment.

The Holy Mass is being celebrated in the Chapel every day at 6.00 am. All Christian students are expected to attend the Holy Mass and other prayer facilities available in the Chapel.

IMPORTANT CONTACT NUMBERS

Hostels:

St. Thomas Hostel (Boys)	-	0469 2623326
Warden - Mr Varghese	-	9495726214
Alphonsa Hostel (Girls)	-	0469 - 2645183
		0469 - 2645123
Chief Warden		
St. Theresitt F.D.S.H.J	-	8547998116
Rev. Sr. Anila F.D.S.H.J	-	9847974591
Rev. Sr Merin F.D.S.H.J	-	
Sr. Ann	-	9656175389

HOSTEL RULES AND REGULATIONS

1. It is mandatory for students to staying in the hostels and be a member of the mess in the hostel.
2. The Chief Warden reserves the right to break open rooms in case of any violation of hostel rules, suspected unlawful activities or on the basis of security risk perceived.
3. Students are requested to avoid shouting, playing loud music or making all types of noises which are likely to distract the attention of those who may be studying in their rooms.
4. Pets of all kinds are prohibited inside the hostel. Feeding stray dogs or cats in the hostel premises is not permitted.
5. All visitors including parents/ guardians must be entertained only in the visitors lounge and during visiting hours only. A visitors pass will be obtained from the office of the chief warden, well in advance by concerned student.
6. Cooking in hostel rooms is not permitted.
7. All instructions/ notices displayed on notice boards will be deemed to have been read by all residents and excuses for non-compliance of such instructions and notices will not be accepted. Residents are advised to look at the notice board everyday to acquaint themselves with latest information/orders.
8. Students must switch off all lights and fans, and electrical appliances if any before leaving their rooms. This is necessary to avoid an inadvertent fire.
9. In case of Fire: Residents must raise an alarm and call the hostel Warden. They should also alert the Security.
10. The Chief Warden/ Warden or his representative may enter any room for verification at any time of the day or night.
11. The management reserves the right to break open the rooms in case of violations of hostel rules, suspected unlawful activities and security risk cases or where the student is absent from his room for a long period without prior information or any valid reason. This will, however, be carried out by the security person in the presence of the hostel Warden. On such occasions, the items in the room will be listed by these officials and kept in the store room. A verbal report, followed by a written report will be sent to the higher authorities.
12. Proxy or dummy room-mates are forbidden. Strict action will be taken if accommodation is held as proxy. They are liable to be removed from the hostel. Residents are not permitted to allow their rooms to be used by others. All visitors and non-

residents including students from other hostels must leave the hostel/ other students rooms during nights. All residents are advised to extend their fullest co-operation to see that no unauthorised persons enter or stay in the hostel premises. If they happen to find any such person, they should demand the permit/ Identity Card and if it is not forthcoming, the matter should be brought to the notice of the Warden for further action.

13. RAGGING IN ANY FORM IS BANNED INSIDE AND OUTSIDE THE CAMPUS. STRICT ACTION WILL BE TAKEN AGAINST THE DEFAULTERS. NO LENIENCY WILL BE SHOWN TO THE OFFENDERS. SUSPENSION AND OR WITHDRAWAL FROM THE HOSTEL/ COLLEGE IS ONE OF THE ACTIONS TAKEN PROMPTLY. SUPREME COURT HAS ALSO DEFINED RAGGING AS A CRIMINAL OFFENCE.
14. All hostel inmates must report any disciplinary matter or problems concerning them or their room-mate/ neighbour(s) coming to their notice to the Warden/ Chief Warden. In case their room-mate is absent from the room or is sick / admitted in the hospital or is in any kind of physical/mental trouble or is indulging in any bad practices the same must be immediately brought to the notice of the Warden or the Chief Warden.
15. No televisions are permitted to be kept in the hostel rooms by the students. Students have to watch TV in the common TV room provided in the hostels.
16. Security of ATM/Debit cards: All residents must take care of their ATM/ Debit cards. They must not disclose their PIN to anybody- even to their best friends.
17. Water is an essential but scarce commodity. All residents are requested to use water judiciously and preserve it. Leakage etc. in the bathrooms should be immediately reported to the Warden.
18. All complaints regarding repairs/maintenance in the Hostels must be entered personally by the students in Complaint Registers maintained in all the Hostels. All complaints are also monitored regularly by the Warden/Chief Warden.
19. Residents of the hostels are not permitted to convene meetings of any sort in the Hostel premises without the prior permission of the Warden/Chief Warden. Disobedience of this rule will be severely dealt with.
20. There are Suggestion Boxes kept in all the hostels for suggestions if any from the residents. Residents may drop their suggestions and complaints if any, duly signed with their names and roll numbers in these Suggestion Boxes which are opened periodically.

Appropriate action will be taken on all suggestions/ complaints and a feedback given to the student(s). No cognizance of anonymous suggestions/ complaints will be taken.

21. The Warden and Chief Warden are available round-the-clock on telephone, and may be contacted in case of any emergency.
22. If a resident falls sick, he/ she or room-mate/friend must immediately inform the caretakers/ person on duty who will make arrangements to shift/ evacuate the student to the hospital and look after him/ her.All cases of sickness must be immediately reported to the Medical Officer, at the Out-Patient/Emergency/ Trauma Department of Pushpagiri Medical College for necessary treatment. In case a resident is quite unable to leave the room and go to the Hospital, the matter must be reported to the Warden**.** Information regarding any resident falling sick or getting admitted in the hospital must be relayed to the hostel/ college authorities on priority.

Anti – Ragging Committee 2017-18

The anti – ragging committee of the college for the academic year 2017-2018.

1. Chairman	:	Dr K. George Varghese Principal Mob: 9447021617
2. Civil Administration	:	Tahasildar, Thiruvalla Phone: 0469 2601302
3. Police Administration	:	Circle Inspector of Police, Thiruvalla Ph: 0469 2738100
4. Local Media	:	Saji Abraham, Deepika (Daily) Thiruvalla Mob: 09447263556
5. Non-Govt. Organisation	:	Shibu Puthukeril involved in youth activities President, Malankara Catholic YM, Thiruvalla Mob: 9447059400
6. Representatives of faculty members	:	Dr Benley George, Vice Principal Administration Mob: 09745015511
	:	Dr Suja Joseph, HOD, Dept. of Prosthodontics Mob: 0949495996823
	:	Dr Biju sebastian, Vice Principal (Academics) Mob: 9446539062
	:	Dr Lisa Elizabeth Jacob, Senior Lecturer, Mob: 9446644648
7. Representatives of parents	:	Mr Prasad George, Mob: 09847127427
	:	Dr P.A Jacob, Pushpagiri Institute of Medical Sciences and Medical Centre Mob: 09847032052
8.Representatives of students	:	Ms Jasmin Mary George IV BDS Part I
	:	Ms Lizbeth Sebastian III BDS
	:	Ms Vinayalekshmy I.N Nair II BDS
9. Non teaching staff	:	Fr Aby Vadakkumthala, Director, Pushpagiri Medicity Mob: 9745355517

PARENT TEACHER ASSOCIATION - 2017-2018

President	:	Dr K. George Varghese, Principal Mob: 9447021617
Vice President	:	Mr Prasad George Mob: 09847127427
Secretary	:	Mr A V George Mob: 9447876206

Executive Committee Members

	:	Dr P.A. Jacob Mob: 9847032052
I BDS	:	Dr Anuna Laila Mathew Mob: 9495017067
II BDS	:	Dr Haby Mathew Somson Mob: 9961719933
III BDS	:	Dr Annie Kitty George Mob:9847440665
IV BDS Part I	:	Dr Gibi Syriac Mob: 9495937998
IV BDS Part II	:	Dr Jacob George Mob: 9946768585

BUS TIMINGS FROM MEDICITY TO MEDICALCOLLEGE AND RETURN		
Monday	8.00 a.m	4.00 p.m
Wednesday	8.00 a.m	1.00 p.m
Friday	8.00 a.m	3.30 p.m
Saturday	8.30 p.m	3.00 p.m

FLOOR MAP

LEVEL 1

Office of the Principal
Administrative Office
Dept. of Oral Medicine and Radiology
Store
Registration Room
Haematology Lab

LEVEL 2

Dept. of Oral and Maxillofacial Surgery
Lecture Hall – 1
Lecture Hall - 2

LEVEL 3

Dept. of Public Health Dentistry
Dept. of Pedodontics
Auditorium
Lecture Hall - 3

LEVEL 4

Dept. of Orthodontics
Dept. of Periodontics

LEVEL 5

Dept. of Conservative Dentistry
Dept. of Prosthodontics

LEVEL 6

Dept. of Oral Pathology
Lecture Hall – 4
Preclinical Labs
Conservative Dentistry
Prosthodontics
Orthodontics/Pedodontics

LEVEL 7

Library
Examination Hall – 1
Examination Hall - 2
Common Room – Boys
Common Room - Girls

FACULTY LIST

Designation & Dept.	Name	Qualification
Principal	Dr. K George Varghese	MDS
Department of Prosthodontics		
	Professor & Head Dr. Suja Joseph	MDS
	Professor Dr. Aby Mathew T.	MDS
	Professor Dr. Annie Susan Thomas	MDS
	Senior Lecturer Dr Haby Mathew Somson	MDS
	Senior Lecturer Dr Rene Kuriakose	MDS
	Senior Lecturer Dr Albin Geo Joseph	MDS
Department of Conservative Dentistry and Endodontics		
	Professor & Head Dr. A. Devadathan	MDS
	Professor Dr. Baby James	MDS
	Professor Dr. Josey Mathew	MDS
	Reader Dr. Jose Jacob	MDS
	Senior Lecturer Dr. Manuja Nair	MDS
	Senior Lecturer Dr. Minimol K Johny	MDS
	Senior Lecturer Dr. Rahul S.	MDS
Department of Oral Pathology		
	Professor & Head Dr Sunil S	MDS
	Reader Dr. Sharlene Sara Babu	MDS
	Sr. Lecturer Dr. Arjun Parameswar	MDS
	Sr. Lecturer Dr Tibin K Baby	MDS

Department of Oral & Maxillofacial Surgery

Professor and Head Dr. Eapen Thomas	MDS
Professor Dr K George Varghese	MDS
Reader Dr. Akhilesh Prathap	MDS
Reader Dr. Vinesh U.	MDS
Sr Lecturer Dr. Sujeesh Koshy	MDS
Sr Lecturer Dr Nithin Pratap	MDS

Department of Periodontics

Professor & Head Dr Thomas George	MDS
Professor Dr Nebu George Thomas	MDS
Reader Dr Annie Kitty George	MDS
Reader Dr Jacob George	MDS
Senior Lecturer Dr Soumya John	MDS
Senior Lecturer Dr Prameetha George	MDS

Department of Orthodontics

Professor & HOD Vice Principal Academics Dr Biju Sebastian	MDS
Reader Dr. Navin Oommen Thomas	MDS
Reader Dr Jacob John	MDS
Senior Lecturer Dr Joe Joseph	MDS
Senior Lecturer Dr Vivek Suku Ninan	MDS
Senior Lecturer Dr Lijo John	MDS

Department of Pediatric Dentistry

Professor and Head Dr Elizabeth Joseph	MDS
Reader Dr Rupesh S	MDS
Reader Dr Gibi Syriac	MDS
Senior Lecturer Dr John Philip	MDS

Department of Oral Medicine

Professor & Head Dr Omal P.M.	MDS
Reader Dr Anuna Laila Mathew	MDS
Senior Lecturer Dr Lisa Elizabeth Jacob	MDS

Department of Public Health Dentistry

Reader& HOD & Vice Principal (Administration) Dr Benley George	MDS
Reader Dr Rino Roopak Soman	MDS
Senior Lecturer Dr Shibu Thomas Sebastian	MDS
Senior Lecturer Dr Vinod Mathew Mulamoottil	BDS MPH

Lecturers

Dr Anil Kurian	BDS
Dr Renjini V R	BDS
Dr Sherly Sajan Mathews	BDS
Dr Sheryl Elizabeth Kuriakose	BDS
Dr Renu Mathew	BDS
Dr Raji S Pillai	BDS
Dr Jerin Thomas	BDS
Dr Sunu Alice Cherian	BDS
Dr Thomas Abraham	BDS
Dr Shilpa John	BDS
Dr Mahima James	BDS

DEPARTMENT OF DENTISTRY - OP – PIMS & RC

Reader & HOD, Department of Dentistry Dr Jacob John	MDS
Dr Terin Boby	BDS
Dr Ambil Sara Varghese	BDS
Dr Chinju	BDS

ACADEMIC CALENDAR

LIST OF HOLIDAYS FROM AUGUST 2017 TO JULY 2018

Independence Day	: 15th August (Thesday)
Onam Holidays	: 2nd September to 7th September - (6 days)
	Including Bakrid
	(9th September Second Saturday will be a working day against holiday given on 7th September
Re-Union Day	: 21st September (Thursday)
Vijaya Dashami	: 30th September (Saturday)
Gndhi Jayanti	: 2nd October (Monday)
Deepavali	: 18th October (Wednesday)
Chrstmas Holidays	: 23rd December to 26th December (4 Days)
Republic Day	: 26th January (Friday)
Holy Week	: 28th March to 1st April (4 days)
	Wednesday to Easter Sunday
Dr. B. R. Ambedkar Jayanthi	
& Vishu	: 14th April (Saturday)
IDulfitr	: 15th June (Friday)
St. Thomas day	: 3rd July (Tuesday)

AUGUST 2017		
1	Tue	
2	Wed	International Frindship day
3	Thu	
4	Fri	
5	Sat	
6	Sun	Hiroshima Day Holiday
7	Mon	
8	Tue	
9	Wed	Quit India day and Ngasaki day
10	Thu	
11	Fri	
12	Sat	International youth day
13	Sun	Holiday
14	Mon	
15	Tue	Independence Day - Holiday
16	Wed	
17	Thu	
18	Fri	
19	Sat	Staff Meeting
20	Sun	Holiday
21	Mon	
22	Tue	
23	Wed	
24	Thu	
25	Fri	
26	Sat	
27	Sun	Holiday
28	Mon	Ayyankali Jayanthi - Holiday
29	Tue	National Sports day
30	Wed	
31	Thu	

SEPTEMBER 2017		
1	Fri	**Bakrid - Holiday**
2	Sat	
3	Sun	Ist Onam - Holiday
4	Mon	Thiruvonam - Holiday
5	Tue	3rd Onam - Teachers day
6	Wed	Sreenarayana Guru Jayanthi - Holiday
7	Thu	
8	Fri	Birth of Mary, Mother of God - Holiday
9	Sat	Second Saturday
10	Sun	Holiday
11	Mon	
12	Tue	Sreekrishnan Jayanthi - Holiday
13	Wed	
14	Thu	Hindi Day, world first aid day
15	Fri	
16	Sat	World Ozone day, Engineer's day in India
17	Sun	Holiday
18	Mon	
19	Tue	
20	Wed	Malankara Cathelic Re-union day
21	Thu	Sreenarayanaguru Samadhi - Holiday
22	Fri	
23	Sat	
24	Sun	Holiday
25	Mon	
26	Tue	College Council Meeting
27	Wed	
28	Thu	
29	Fri	Mahanavami - Holiday
30	Sat	Vijayadasami, Muharam - Holiday

OCTOBER 2017		
1	Sun	Pushpagiri Day
2	Mon	Gandhi Jayanthi - Holiday
3	Tue	World Habitat day, World Nature day
4	Wed	World Animal Welfare day
5	Thu	World Teacher's day
6	Fri	
7	Sat	
8	Sun	Holiday
9	Mon	
10	Tue	National Post day
11	Wed	International Girl child day
12	Thu	World Arthritis day
13	Fri	
14	Sat	
15	Sun	Holiday
16	Mon	World Food day
17	Tue	
18	Wed	Deepavali - Holiday
19	Thu	
20	Fri	
21	Sat	
22	Sun	Holiday
23	Mon	
24	Tue	
25	Wed	
26	Thu	
27	Fri	
28	Sat	
29	Sun	Holiday
30	Mon	
31	Tue	

NOVEMBER 2017		
1	Wed	
2	Thu	
3	Fri	
4	Sat	
5	Sun	Holiday
6	Mon	
7	Tue	
8	Wed	
9	Thu	
10	Fri	
11	Sat	
12	Sun	Holiday
13	Mon	
14	Tue	Children's day
15	Wed	
16	Thu	
17	Fri	Sports day
18	Sat	World Adult day
19	Sun	Holiday
20	Mon	Universal Children day
21	Tue	World Television day, World Fisheries day
22	Wed	
23	Thu	
24	Fri	
25	Sat	World Non-Veg day
26	Sun	Holiday
27	Mon	
28	Tue	
29	Wed	
30	Thu	Flag day

DECEMBER 2017		
1	Fri	World Aids day
2	Sat	Nabi Dhinam - Holiday
3	Sun	
4	Mon	Navy Day
5	Tue	International Volunteer day
6	Wed	
7	Thu	Armed Forces Flag day
8	Fri	
9	Sat	
10	Sun	Human Right day - Holiday
11	Mon	International Mountain day
12	Tue	
13	Wed	
14	Thu	International Energy day
15	Fri	
16	Sat	
17	Sun	Holiday
18	Mon	International Migrants day
19	Tue	
20	Wed	International Human solidarity
21	Thu	
22	Fri	
23	Sat	
24	Sun	Holiday
25	Mon	Christmas Holiday
26	Tue	
27	Wed	
28	Thu	
29	Fri	
30	Sat	
31	Sun	Holiday

JANUARY 2018		
1	Mon	**New Year day**
2	Tue	Mannam Jayanthi - Holiday
3	Wed	
4	Thu	
5	Fri	
6	Sat	
7	Sun	Holiday
8	Mon	
9	Tue	
10	Wed	World laughter day
11	Thu	
12	Fri	
13	Sat	Second Saturday
14	Sun	Holiday
15	Mon	Army day
16	Tue	
17	Wed	
18	Thu	
19	Fri	
20	Sat	
21	Sun	Holiday
22	Mon	
23	Tue	Netaji Subhash Chandra Bose Birthday
24	Wed	
25	Thu	
26	Fri	Republic Day- Holiday
27	Sat	
28	Sun	Holiday
29	Mon	
30	Tue	
31	Wed	

FEBRUARY 2018		
1	Thu	
2	Fri	
3	Sat	
4	Sun	World Cancer day - Holiday
5	Mon	
6	Tue	
7	Wed	
8	Thu	
9	Fri	
10	Sat	Second Saturday
11	Sun	Holiday
12	Mon	Darwin day
13	Tue	Sivarathri - Holiday
14	Wed	Valentine's Day
15	Thu	
16	Fri	
17	Sat	
18	Sun	Holiday
19	Mon	
20	Tue	World day of social justice
21	Wed	International Mother language day
22	Thu	World Scout day
23	Fri	World peace and understanding day
24	Sat	
25	Sun	Holiday
26	Mon	
27	Tue	
28	Wed	National Science day

MARCH 2018		
1	Thu	
2	Fri	
3	Sat	
4	Sun	Holiday
5	Mon	
6	Tue	
7	Wed	
8	Thu	International women's day
9	Fri	
10	Sat	Second Saturday
11	Sun	Holiday
12	Mon	
13	Tue	World kidney day
14	Wed	
15	Thu	World disabled day
16	Fri	World consumer right day
17	Sat	
18	Sun	Holiday
19	Mon	
20	Tue	
21	Wed	World forestry day
22	Thu	World water day
23	Fri	
24	Sat	World T.B. Day
25	Sun	Holiday
26	Mon	
27	Tue	
28	Wed	
29	Thu	Maundy Thursday
30	Fri	Good Friday
31	Sat	

APRIL 2018		
1	Sun	**Easter**
2	Mon	World autism day
3	Tue	
4	Wed	
5	Thu	National Maritime day
6	Fri	
7	Sat	World Health day
8	Sun	Holiday
9	Mon	
10	Tue	
11	Wed	
12	Thu	
13	Fri	
14	Sat	
15	Sun	Holiday
16	Mon	
17	Tue	
18	Wed	
19	Thu	
20	Fri	
21	Sat	
22	Sun	Holiday
23	Mon	World book and copyright day
24	Tue	
25	Wed	
26	Thu	
27	Fri	
28	Sat	
29	Sun	International dance day - Holiday
30	Mon	

MAY 2018		
1	Tue	**May day**
2	Wed	
3	Thu	
4	Fri	
5	Sat	
6	Sun	Holiday
7	Mon	
8	Tue	
9	Wed	
10	Thu	
11	Fri	
12	Sat	Second Saturday - Mothers day
13	Sun	Holiday
14	Mon	
15	Tue	
16	Wed	
17	Thu	
18	Fri	
19	Sat	
20	Sun	Holiday
21	Mon	
22	Tue	
23	Wed	
24	Thu	
25	Fri	
26	Sat	
27	Sun	Holiday
28	Mon	
29	Tue	
30	Wed	
31	Thu	

PARENTS' DECLARATION

I, ... hereby declare that I have gone through the rules and regulations for the BDS Pushpagiri College of Dental Sciences. I hereby agree that myself and my son/daughter ..... shall abide by all these rules and regulations. In case any Indiscipline / improper conduct occur from his / her side, he/she is liable to be punished. I fully understand such disciplinary actions shall not be revoked under any circumstance.

Date : Name

Signature

Details of the parent and / or guardian

Details	**Parents**	**Local Guardian**
Name	Father : Mother :	
Signature	Father : Mother :	
Permanent Address		
Address for communication		
Land Phone No.		
Mobile Phone No.	Father : Mother :	
E-mail Address	Father : Mother :	

Dr. K. George Varghese
Principal

ACADEMIC CALENDAR
2018-2019

Our Patron

His. Grace. Most Rev. Dr. Thomas Mar Koorilos
Metropolitan Archbishop of Thiruvalla

Rev. Fr. Aby Vadakkumthala
Director Medicity

Rev Fr. Jose Kallumalickal
CEO

Rev. Dr. Mathew Mazhavancheril
Director
Academics and Research

Dr. K. George Varghese
Principal

Dr Benley George
Vice Principal
(Administration)

Dr Biju Sebastian
Vice Principal
(Academics)

CONTENTS

OUR VISION

'We Care God Cures'

OUR MISSION

To work towards a knowledge society with life in abundance through science and technology, improving health care for our immediate community, the state, the country and the world at large.

PUSHPAGIRI - A BRIEF HISTORY

The Catholic Church has been engaged in the ministry of healing all over the world for the past two thousand years. The same mission also drove the Founder fathers of Pushpagiri at Tiruvalla, Kerala. What started as a small clinic with eight beds in 1959 to cater to rural maternity care has now grown to a full fledged 1200 bedded, hi-tech super specialty Medical College Hospital.

Across a span of half a century, Pushpagiri has travelled forward with a renewed understanding and vision, ***'We Care God Cures'***, which proclaims the faith of taking upon each others' burdens and humility before the divine providence from where all cure and healing happens. The unwavering commitment of the Church to provide value-based education also saw its results initially in Nursing Education at Pushpagiri, which began as early as 1964. Following the establishment of Pushpagiri Medical Society in 1992, on the road to improvisation and expansion, Pushpagiri saw a new beginning, a decade later, in 2002 with the starting of one of the first private medical colleges in Kerala - Pushpagiri Institute of Medical Sciences and Research Centre. In the past decade, Pushpagiri further went along to establish premiere institutions in the field of health care education for Nursing (2002), Pharmacy (2004), Dental Sciences (2006) and Allied Health Sciences (2008).

The Pushpagiri Medical Society, a society registered under the Travancore-Cochin Literary Scientific & Charitable Societies Registration Act of 1955, manages the College. The Archbishop of the Catholic Archdiocese of Tiruvalla Most. Rev. Dr. Thomas Mar Koorilos is the Patron of the Society and a seven

member governing board is the policy laying body of the Society. Rev Fr Jose Kallumalickal is the Secretary of Pushpagiri Medical Society. Rev. Fr. Aby Vadakkumthala is the Director of Pushpagiri Medicity. Dr. K. George Varghese is the Principal, Dr Benley George; the Vice Principal (Administration) and Dr. Biju Sebastian: the Vice Principal (Academics) of Pushpagiri College of Dental Sciences.

Pushpagiri College of Dental Sciences, recognized by the Dental Council of India and Ministry of Health & Family Welfare, Government of India was founded in 2006. The institution is the realization of the vision of the Management to provide quality Dental education to aspiring students of Kerala, a good percentage of these students hail from minority communities. The institution has an annual intake of 50 students in BDS course and 12 students in MDS courses.

Pushpagiri College of Dental Sciences ever since its inception had shown excellent academic achievements at the MG University and Kerala University of Health Sciences examinations. The first batch of Pushpagiri College of Dental Sciences secured a 100% pass result in the Final BDS Part II examination conducted by Mahatma Gandhi University, Kottayam. Pushpagiri College of Dental Sciences was the only dental college to achieve this feat among 7 other dental colleges affiliated to Mahatma Gandhi University, Kottayam. Ms Varsha Jeyaprakash, student of 2006 batch secured the first rank in the Final BDS Examination in 2011 conducted by Mahatma Gandhi University, Kottayam. The first batch of students admitted under Kerala University of Health Sciences secured the best pass result among all 22 dental colleges in Kerala. The 2013 batch of I BDS students secured 80% pass result in the examination conducted by Kerala University of Health Sciences in August 2014. Ms Jasmin Mary George secured the first rank in the I BDS examination conducted by Kerala University of Health Sciences in August 2014.

The institution had secured the first position among all 24 dental colleges affiliated to the University. The institution has consistently shown results par excellence in all examinations conducted by Kerala University of Health Sciences.

Pushpagiri College of Dental Sciences was elevated to the status of a Post Graduate Institute in 2013 with the commencement of 5 Post Graduate courses in the Departments of Prosthodontics and Crown & Bridge, Periodontology and Oral & Maxillofacial Surgery, Conservative Dentistry & Endodontics and Orthodontics & Dentofacial Orthopedics which was approved by the Ministry of Health and Family Welfare, Government of India and Dental Council of India.

GOVERNING BODY MEMBERS OF PUSHPAGIRI MEDICAL SOCIETY

Patron:	**H. G. Most Rev. Dr. Thomas Mar Koorilos** Metropolitan Archbishop of Tiruvalla.
President:	**Rt. Rev. Msgr. Cherian Thazhamon** Vicar General, Catholic Archdiocese of Tiruvalla.
Executive Director:	**Shri Jacob Punnoose** IPS (Retd.)
Vice President:	**Dr. Abraham Varghese V.**
Secretary:	**Rev. Fr. Jose Kallumalickal** (Chief Executive Officer, Pushpagiri Group of Institutions).
Members:	**Rev. Dr. Mathew Mazhavancheril,** Director, Academics and Research
	Rev. Fr. Mathew Vadakkekuttu, Director, Pushpagiri Medical College Hospital
	Rev. Fr. Eapen Puthenparambil Director, Finance Pushpagiri Medical College Hospital
	Mr. Varghese Alexander Chartered Accountant, Alexander & Co., Tiruvalla

INSTITUTIONS UNDER PUSHPAGIRI MEDICAL SOCIETY

1. Pushpagiri College of Dental Sciences

Pushpagiri Medicity, Perumthuruthy, Tiruvalla

Tel. No. 0091 469 2645210; Fax 2645282

www.collegeofdentalsciences.pushpagiri.in

email: dentalcollege@pushpagiri.in

2. Pushpagiri Institute of Medical Sciences & Research Centre

2.1. Pushpagiri Medical College Hospital

Tel. No. 0091 469 2700755, Fax 2701045

email: info@pushpagiri.in www.pushpagiri.in

2.2. Pushpagiri Medical College

Tel. No. 0091 469 2733761; Fax 2600020

email: pcm@pushpagiri.in www.pimsrc.edu.in

3. Pushpagiri College of Pharmacy

Pushpagiri Medicity, Perumthuruthy, Tivuvalla

Tel. No. 0091 469 2645450; Fax 2645460

email: pushpagiripharmacycollege@gmail.com

www.collegeofpharmacy.pushpagiri.in

4. Pushpagiri College of Nursing

Tel. No. 0091 469 2602441; Fax 2700168

email: pcon@pushpagiri.in

5. Pushpagiri College of Allied Health Sciences

Tel. No. 0091 469 2700755; Fax 2701044

6. Pushpagiri School of Nursing

Tel. No. 0091 469 2700755; Fax 2701044

7. Pushpagiri Centre for CGFNS & IELTS Training

Tel. No. 0091 469 2700755; Fax 2701044

8. Pushpagiri Research Centre

Tel. No. 0091 469 2731005; Fax 2731005

email: prc@pushpagiri.in www.prc.pushpagiri.in

9. Pushpagiri Centre for Virology

Tel. No. 0091 469 2731005; Fax 2731005,

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Dr Benley George
Vice Principal (Administration)
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HOD. Dept. of Prosthodontics
Dr Suja Joseph
Professor, Dept. of Prosthodontics
Dr Thomas George V.
HOD, Dept. of Periodontics
Dr Eapen Thomas
Professor, Dept. of Oral and Maxillofacial Surgery
Dr A Devadathan
HOD, Dept. of Conservative Dentistry and Endodontics
Dr Baby James
Professor, Dept. of Conservative Dentistry and Endodontics
Dr Biju Sebastian
Vice Principal (Academics) & HOD, Dept. of Orthodontics
Dr S. Sunil
HOD, Oral Pathology
Dr Elizabeth Joseph
HOD, Pedodontics
Dr Omal P.M.
HOD, Oral Medicine and Radiology

Academic Programmes in Dental College

Undergraduate course	
BDS	50 seats
Postgraduate courses	
MDS (Prosthodontics and Crown and Bridge)	3 seats
MDS (Oral and Maxillofacial Surgery)	2 seats
MDS (Periodontics)	2 seats
MDS (Orthodontics)	2 seats
MDS (Conservative Dentistry)	3 seats

BDS COURSE

2.1. Aims & Objectives of BDS Course

A. Aims:

To create a graduate in Dental Science who has adequate knowledge, necessary skills and such attitudes which are required for carrying out all the activities appropriate to general dental practice involving the prevention, diagnosis and treatment of anomalies and diseases of the teeth, mouth, jaws and associated tissues. The graduate should also understand the concept of community oral health education and be able to participate in the rural health care delivery programmes existing in the country.

B. Objectives:

The objectives are dealt under three headings namely (a) knowledge and understanding (b) skills and (c) attitudes.

(a) Knowledge and understanding

The student should acquire the following during the period of training.

1. Adequate knowledge of the scientific foundations on which dentistry is based and good understanding of various relevant scientific methods and principles of biological functions.
2. Adequate knowledge to evaluate and analyse scientifically various established facts and data.
3. Adequate knowledge of the development, structure and function of teeth, mouth, jaws and associated tissues both in health and disease and their relationship and effect on general state of health and also their bearing on physical and social well- being of the patient.
4. Adequate knowledge of clinical disciplines and methods, which provide a coherent picture of anomalies, lesions and diseases of the teeth, mouth and jaws.
5. Adequate knowledge on the preventive, diagnostic and therapeutic aspects of dentistry.
6. Adequate knowledge on laboratory steps involved in dental treatment.
7. Adequate clinical experience required for general dental practice.

8. Adequate knowledge of biological function and behavior of persons in health and sickness as well as the influence of natural and social environment on the state of health so far as it affects dentistry.

Skills

A Graduate should be able to demonstrate the following skills necessary for practice of dentistry:

1. Able to diagnose and manage various common dental problems encountered in general dental practice, keeping in mind the expectations and the right of the society to receive the best available treatment wherever possible.
2. Acquire skill to prevent and manage complications if any encountered while carrying out various dental surgical and other procedures.
3. Possess skill to carry out required investigative procedures and ability to interpret laboratory findings.
4. Acquire skill in laboratory procedures involved in dental treatment.
5. Promote oral health and help to prevent oral diseases wherever possible.
6. Competent in control of pain and anxiety during dental treatment.

Attitudes

A graduate should develop during the training period the following attitudes.

1. Willing to apply current knowledge of dentistry in the best interest of the patients and the community.
2. Maintain a high standard of professional ethics and conduct and apply these in all aspects of professional life.
3. Seek to improve awareness and provide possible solutions for oral health problems and needs throughout the community.
4. Willingness to participate in the continuing education programmes to update knowledge and professional skills from time to time.
5. To help and to participate in the implementation of national health programmes.

C. Goals of BDS Curriculum

On completion of the undergraduate training program the graduates shall be competent in the following. –

General Skills

Apply knowledge & skills in day to day practice. Apply principles of ethics.

Analyze the outcome of treatment.

Evaluate the scientific literature and information to decide the treatment.

- Participate and involve in professional bodies.
- Be capable of self-assessment and be willing to update the knowledge & skills from time to time.
- Inclined to do simple research projects.
- Acquire minimum computer proficiency to enhance knowledge and skills.
- Be aware of one's limitations and know when to refer patients to specialists.
- Be familiar with basic Forensic Odontology techniques and manage Geriatric dental problems.
- Death certification

ii. Practice Management

- Evaluate practice location, population dynamics & reimbursement mechanism.
- Able to communicate freely, orally and in writing with all concerned.
- Maintain records.
- Implement & monitor infection control and environmental safety programs.
- Practice within the scope of one's competence Communication & Community Resources.
- Assess patient's goals, values and concerns to establish rapport and guide patient care.
- Co-ordinate & supervise the activities of allied dental health personnel.

- Participate in improving the oral health of the individuals through community activities.

iii. Patient Care – Diagnosis

- Obtaining patient's history in a methodical way.
- Performing thorough clinical examination.
- Selection and interpretation of clinical, radiological and other diagnostic information.
- Obtaining appropriate consultation.
- Arriving at provisional, differential and final diagnosis.

iv. Patient Care - Treatment Planning

- Integrate multiple disciplines into an individual comprehensive sequenced treatment plan using diagnostic and prognostic information.
- Be able to order appropriate investigations.

v. Patient Care – Treatment

- Recognition and initial management of medical emergencies that may occur during Dental treatment.
- Perform basic cardiac life support.
- Management of pain including post operative.
- Administration of all forms of local anesthesia.
- Administration of intra muscular and venous injections.
- Prescription of drugs, pre operative, prophylactic and therapeutic requirements.
- Uncomplicated extraction of teeth.
- Transalveolar extractions and removal of simple impacted teeth.
- Minor oral surgical procedures.
- Management of Oro-facial infections.
- Simple orthodontic appliance therapy.
- Taking, processing and interpretation of various types of intra oral radiographs.
- Various kinds of restorative procedures using different materials available.

- Simple endodontic procedures.
- Removable and basic fixed Prosthodontics.
- Various kinds of periodontal therapy.

D. Competencies Expected- Specialty wise

OR

ORAL MEDICINE & RADIOLOGY

- On completion of the undergraduate training programme the graduate should:
- Be able to identify the common dental problems like dental caries and periodontal disease and their sequelae
- Be able to differentiate the normal variations and oral mucosal lesions
- Be able to identify pre cancerous and cancerous lesions of the oral cavity and refer to the concerned specialty for their management.
- Have an adequate knowledge about common laboratory investigations and interpretation of their results.
- Have adequate knowledge about medical complications that can arise while treating systemically compromised patients and take prior precautions/ consent from the concerned medical specialist.
- To formulate a clinical diagnosis, order investigations, seek expert consultations to come to a final diagnosis and chart out a proper treatment plan for patients with oral lesions.
- Have adequate knowledge about radiation health hazards, radiation safety and protection.
- Be competent to take intra-oral radiographs and interpret the radiographic findings
- Gain adequate knowledge of various extra-oral radiographic procedures, TMJ radiography and sialography.
- Be aware of the importance of intra- and extra-oral radiographs in forensic identification and age estimation.
- Be familiar with jurisprudence, ethics and understand the significance of dental records with respect to law.

ORAL & MAXILLOFACIAL SURGERY

On completion of the undergraduate training programme the graduate should:

- Be able to apply the knowledge gained in the basic medical and clinical subjects in the management of patients with surgical problems.
- Be able to diagnose, manage and treat patients with basic oral surgical problem
- Have a broad knowledge of maxillofacial surgery and oral Implantology.
- Be familiar with legal, ethical and moral issues pertaining to patient care and communication skills.
- Have acquired the skill to examine any patient with an oral surgical problem in an orderly manner.
- Understand and practice the basic principles of asepsis and sterilization.
- Be competent in the extraction of the teeth under local anesthesia.
- Be Competent to carry out certain minor oral surgical procedures under Local Anesthesia like trans-alveolar extraction, frenectomy, Dentoalveolar procedures, simple impaction, biopsy, etc.
- Be Competent to assess, prevent and manage common complications that arise during and after minor oral surgery.
- Able to provide primary care and manage medical emergencies in the dental office.
- Be familiar with the management of major oral surgical problems and principles involved in the in-patient management.
- Be able to Certify Death

PERIODONTOLOGY

On completion of the undergraduate training programme the graduate should:

- Be able to diagnose the patient's periodontal problem, plan and perform appropriate periodontal treatment.
- Be Competent to educate and motivate the patient.

- Be Competent to perform thorough oral prophylaxis, subgingival scaling, root planning and minor periodontal surgical procedures.
- Give proper post treatment instructions and do periodic recall and evaluation.
- Be Familiar with concepts of osseointegration and basic surgical aspects of implantology.

CONSERVATIVE DENTISTRY AND ENDODONTICS

On completion of the undergraduate training programme the graduate should:

- Be Competent to diagnose all carious lesions.
- Be Competent to perform Class I and Class II cavities and their restoration with amalgam.
- Be able to restore class V and Class III cavities with glass ionomer cement.
- Be able to diagnose and appropriately treat pulpally involved teeth (pulp capping procedures).
- Be able to perform RCT for anterior teeth
- Be competent to carry out small composite restorations
- Understand the principles of aesthetic dental procedures

ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

On completion of the undergraduate training programme the graduate should:

- Understand about normal growth and development of facial skeleton and dentition.
- Be able to pinpoint aberrations in growth process both dental and skeletal and plan necessary treatment
- Be able to diagnose the various malocclusion categories
- Be able to motivate and explain to the patient and parent/guardian about the necessity of treatment
- Be able to plan and execute preventive orthodontics (space maintainers or space regainers)
- Be able to plan and execute interceptive orthodontics (habit breaking appliances)

- Be able to manage treatment of simple malocclusion such as anterior spacing using removable appliances
- Be able to handle delivery and activation of removable orthodontic/ myofacial appliances.
- Be able to diagnose and appropriately refer patients with complex malocclusion to the specialist.

PUBLIC HEALTH DENTISTRY

On completion of the undergraduate training programme the graduate should:

- Apply the principles of health promotion and disease prevention.
- Have knowledge of the organization and provision of health care in community and in the hospital service
- Have knowledge of the prevalence of common dental conditions in India
- Have knowledge of community based preventive measures
- Have knowledge of the social, cultural and environmental factors, which contribute to health or illness.
- Be able to administer hygiene instructions, topical fluoride therapy and fissure sealing.
- Be able to educate patients concerning the etiology and prevention of oral disease and encourage them to assure responsibility for their oral health.

PROSTHODONTICS AND CROWN & BRIDGE

On completion of the undergraduate training programme the graduate should:

- Be able to understand and use various dental materials.
- Be competent to carry out treatment of conventional Simple complete and partial removable dentures and anterior crowns.
- Be able to carry out Prosthodontic laboratory procedures.
- Be familiar with the concepts of osseointegration and the value of implant- supported Prosthodontic procedures.
- Be able to diagnose and appropriately refer patients requiring complex treatment procedures to the specialist

PAEDIATRIC AND PREVENTIVE DENTISTRY

On completion of the undergraduate training programme the graduate should:

- Be able to instill a positive attitude and behavior in children towards oral health and understand the principles of prevention and preventive dentistry right from birth to adolescence.

- Be able to guide and counsel the parents/guardian in regards to various treatment modalities including different facets of preventive dentistry.
- Be able to treat dental diseases occurring in child patient.
- Be able to manage the physically and mentally challenged / disabled children effectively and efficiently, tailored to the needs of individual requirement and conditions.

2.3 Medium of Instruction

The medium of Instruction and examinations of BDS course will be in English language.

2.4 General Outline of BDS Degree Course

1) The undergraduate course involves organisation of year-wise teaching program. However, this course, as a whole, should demonstrate integration of the basic sciences, clinical dentistry and practical or laboratory skills. The course should be designed and integrated in such a way as to permit smooth progression from pre-clinical to clinical phase. Collaboration should be encouraged between teachers of basic sciences, dental sciences and clinical subjects.

2) The undergraduate dental course consists of three main components. The first component consists subjects common to modern medicine and dentistry like anatomy, physiology, biochemistry and behavioral science, leading to pharmacology, pathology, microbiology and then on to general medicine and general surgery. The second component runs concurrently with the first and deals with special aspects of oral and dental tissues, oral biology and oral pathology. Finally, the third component based on the foundations of the first two, deals with the clinical and technical aspects of dentistry as is required for general dental practice.

3) The first component of the course is intended to provide initially, an appreciation of normal human structure, development, function and

behavior, leading to understanding of the diseases, its prevention and treatment. The main objective is to provide student with a broad knowledge of normal structures and functions of the body, the alterations which take place in disease with particular reference to those conditions in which medical and dental co- operation is essential for proper management. At this stage, the student should also be made aware of the social and psychological aspects of patient care with special reference to the relationship between dentist and patient. The behavioral sciences including both sociology and psychology should be introduced at the initial stages of the training program, much before the students actually deal with the patients.

4) The second component of dental undergraduate program includes instruction in the subjects dealing with dental and oral aspects to ensure a detailed knowledge of the structure and function of the dental and oral tissues. This enables the student to diagnose, prevent and treat the dental and oral diseases and disorders, which were not included in the first component. The subject of oral biology is to be introduced at this level to provide the students a comprehensive knowledge and application of oral physiology, microbiology, biochemistry and oral immunology. Students should be exposed to the basic aspects of forensic odontology at this stage of the course along with oral biology/oral pathology.

5) The third component of the course comprising the clinical and technical aspects of dentistry actually prepares the student to undertake total oral and dental health care of patients of all ages. The emphasis at this stage should be on the prevention of the various dental diseases and how to preserve natural teeth with their supporting structures. The importance of various preventive methods needs to be stressed. The significance of diagnosis of various dental and oral problems needs to be emphasized along with treatment planning before actual treatment procedures are undertaken. In addition to acquiring the knowledge, the students need to gain adequate clinical hands-on-experience in extractions and other minor oral surgical procedures, all aspects of Conservative Dentistry, Endodontics, Crown and Bridge, provision of partial and complete dentures, various periodontal therapeutic procedures and use of removable orthodontic appliances. Familiarity with various radiological techniques, particularly intra-oral methods and proper interpretation of the radiographs, is an essential part of this component of training and has application in clinical diagnosis, forensic identification and age estimation. Training in handling medico-legal cases including death certification should be imparted at this stage. Towards the final stage of the clinical training, each student should be involved in comprehensive oral health care or holistic approach to enable him or her to plan and treat patients as a whole, instead of piece-meal treatment provided in

each specialty. The aim of the undergraduate program should undoubtedly be to produce a graduate, competent in general dental practice.

6) The commitment towards the society as a whole needs to be stressed along with the knowledge and treatment skills gained. Instruction in public health dentistry should emphasise the sociological aspects of health care and palliative care particularly; oral health care, including the reasons for variation in oral and dental needs of different sections of the society. It is important to know the influence of social, behavioral, environmental and economic factors on oral and dental health. Students should be made aware of the National oral health Policy and the importance of being a member of the Health care team delivering medical and oral health care particularly among rural population. Students should also be encouraged to participate in simple research project work

7) The undergraduate curriculum stresses the significance of infection and cross infection control in dental practice. Aspects like sources of infection, measures to be adopted both general and specific for control, particularly the HIV and hepatitis is incorporated in the curriculum so that the graduates are aware of its significance and follow it in their practice.

8) The information technology has touched every aspect of an individual's personal and professional life. The University hence recommends that all undergraduates acquire minimum computer proficiency, which will enable them to enhance their professional knowledge and skills.

2.5 Duration & course of Study

1. The undergraduate dental training program leading to B.D.S. degree shall be of four and a half years duration in addition to one year compulsory paid rotating internship. During this period, the students shall be required to engage in full time study at a Dental college recognized or approved by the Dental Council of India. During the first four and a half years of undergraduate course, the instruction in clinical subjects should be at least for two and a half years.

2. Basic Medical & Dental Subjects

The basic medical and dental sciences comprise of Anatomy - Gross and Microscopic, Physiology, Biochemistry, Pharmacology, science of Dental Materials and Oral biology. Subjects like behavioral sciences, which would be useful to develop communication skills, should also be introduced in the first year itself and spread over the undergraduate course. An introduction to Public Health Dentistry also will be useful to develop the concept of commitment to community. The laboratory skills like pre-clinical Prosthodontics, Crown and Bridge, Conservative dentistry and Orthodontics is to be developed by the students.

Studying dental morphology also is a part of initial training. At the end of this period the student should be in a position to understand and comprehend in general the development, structure and function of the human body in both health and disease.

3. The instruction in basic dental sciences should include theoretical and practical aspects of oral anatomy and physiology, to provide a detailed knowledge of the form and structure of teeth, associated tissues and occlusal relationships. The study should also aim at development of a concept regarding physiological and biochemical processes relevant to oral cavity for better understanding of the changes that occur with the onset of disease in the oral cavity. The student should be made aware of the importance of various dental tissues in forensic investigation.

4. Clinical, Medical and Dental subjects:

The students should be introduced to clinics in the initial stage, preferably in the first year, as an observer to familiarize with clinical set-up and working. The period of instruction in the clinical subjects shall not be less than two and a half years full time. During this, the student shall attend a dental hospital, general hospital, community camps and satellite clinics, in order to obtain instruction and experience in the practice of dentistry. The main objective of training in clinical dental subjects is to produce a graduate, able and competent to recognize or diagnose various dental and oral diseases, to undertake general dental treatment, advice on the provision of specialized treatment available and finally advise the patient on prevention. The student should also understand the relationship between oral and systemic diseases.

5. The general medicine and surgery training should provide sufficient knowledge on human disease to enable the student to understand its manifestations as relevant to the practice of dentistry. This requires clinical teaching on patients and shall be carried out in inpatient and outpatient medical departments and specialist clinics. This clinical instruction should enable the student to understand and perhaps diagnose common systemic diseases, which have relevance to dental practice, by adopting a systematic approach of history taking and clinical examination. The student should also realize the significance of various general and special investigations in the diagnosis of diseases. The ability to recognize physical and mental illness, dealing with emergencies, effective communication with patients, and interaction with professional colleagues also become important aspects of this training.

6. All dental students should receive instruction in first-aid and principles of cardio-pulmonary resuscitation. The students should also attend to the accident and emergency department of a Medical hospital.

7. The purpose of the clinical training is to provide sufficient practical skill in all aspects of clinical dentistry. The instruction should also include patient management skills, treatment of patients of all ages with special reference to children (paediatric), very elderly (geriatric), medically compromised and disabled patients.

8. During the two and a half years of clinical course, the students should receive thorough instruction which involves history taking, diagnosis and treatment planning in all aspects of dentistry and should be competent on graduation to carry out all routine general procedures. In Oral & Maxillofacial Surgery, instruction should include the knowledge of various maxillofacial problems like injuries, infections and deformities of the jaws and associated structures. The clinical experience should include those procedures commonly undertaken in general practice like extraction of teeth, minor oral surgical procedure etc. In Conservative dentistry and Endodontics, Prosthodontics and Crown & Bridge and Periodontology students should be competent on graduation to carry out routine treatments like restorations of various types, endodontic procedures, removable Prosthodontics, and finally various kinds of periodontal therapy. In Orthodontics & Dentofacial Orthopaedics, students should carry out simple appliance therapy including myofacial appliances for patients. Students should also be able to appreciate the role of Dentofacial growth in the development and treatment of malocclusion. In addition, students should be aware of their limitations on graduation, need to refer patients for consultant opinion and/or treatment and also the need for postgraduate and continuous education programmes.

9. In Paediatric & Preventive Dentistry, the students should concentrate on effective management of the behavior of the child patient to instill a positive attitude, on efficacy of preventive measures and clinical management, including the treatment needs particularly for children with disabilities. In oral medicine and Radiology, the student should receive instruction in various common lesions, occurring in the oral cavity and its diagnosis with particular reference to oral cancer. All students should receive instructions and gain practical experience in taking various types of intra and extra oral radiographs and its processing and interpretation. They should be aware of the hazards of radiation and proper protective measures from radiation for the patient, operator and other staff. Since Paediatric dentistry involves the practice of various branches of clinical dentistry, training in Paediatric Dentistry is extended to Part II of the final year.

10. The successful control and management of pain is an integral part of dental practice. Upon graduation the students should be competent to administer all forms of local anesthesia. The value of behavioral methods of anxiety management should be emphasized. The students should also have the practical experience in the administration of intra-muscular and

intra-venous injections. Knowledge of pain mechanisms and strategies to control post- operative pain is essential for practice of dentistry.

11. Instruction should be given in dental jurisprudence, legal and ethical obligations of dental practitioners and the constitution and functions of Dental Council of India. Students should be made competent in the management of medico legal cases and death certification.

12. Infection and cross infection control assume significance in dental practice. The students should be made aware of the potential risk of transmission of various infectious diseases particularly HIV and hepatitis in the dental surgery. The students should be aware of their professional responsibility for the protection of the patients, themselves and their staff and the requirements of the health and safety regulations.

13. The subjects of Aesthetic dentistry, Oral Implantology, Behavioral sciences and Forensic Odontology have assumed great significance. Hence, these four specialties are incorporated into the undergraduate curriculum. The instruction and clinical training in aesthetic dentistry shall be carried out by the departments of Prosthodontics and Crown & Bridge and Conservative Dentistry & Endodontics. Similarly, the instruction and clinical training in Oral Implantology shall be done by the departments of Prosthodontics and Crown & Bridge, Oral & Maxillofacial Surgery, and Periodontology. The instruction in behavioral sciences should ideally commence before the students come in contact with the patients and shall be carried out by the departments of Public Health Dentistry and Paediatric and Preventive Dentistry. Forensic Odontology including procedures of death certification will be a part of Oral Pathology & Oral Microbiology, Oral Medicine & Radiology and Oral & Maxillofacial Surgery.

14. With increased life expectancy and treatment facilities, Palliative care has gained importance in the modern world. Palliative medicine is the branch of medicine involved in treatment of patients with advanced, progressive, life-threatening disease for whom the focus of care is maximising their quality of life through expert symptom management, psychological, social and spiritual support as part of a multi-professional team. Understanding the role of dental surgeon in the field of palliative care this subject is introduced in the syllabus to be handled by faculty under public health dentistry trained in palliative care.

SUBJECTS OF STUDY

1. General Human Anatomy including Embryology and Histology
2. General Human Physiology
3. Biochemistry, Nutrition and Dieteties
4. Dental Anatomy, Embryology and Oral Histology

I BDS SUBJECTS

1. GENERAL HUMAN ANOTMY INCLUDING EMBRYOLOGY AND HISTOLOGY

a) GOAL

The students should gain the knowledge and insight into, the functional anatomy of the normal human head and neck, functional histology and an appreciation of the genetic basis of inheritance and disease, and the embryological development of clinically important structures. So that relevant anatomical & scientific foundations are laid down for the clinical years of the BDS course.

b) OBJECTIVES:

i. Knowledge & understanding:

At the end of the 1st year BDS course in Anatomical Sciences the undergraduate student is expected to:

(1) Know the normal disposition of the structures in the body while clinically examining a patient and while conducting clinical procedures.

(2) Know the anatomical basis of disease and injury.

(3) Know the microscopic structure of the various tissues, a prerequisite for understanding of the disease processes.

(4) Know the nervous system to locate the site of lesions according to the sensory and or motor deficits encountered.

(5) Have an idea about the basis of abnormal development, critical stages of development, effects of teratogens, genetic mutations and environmental hazards.

(6) Know the sectional anatomy of head neck and brain to read the features in radiographs and pictures taken by modern imaging techniques.

(7) Know the anatomy of cardio-pulmonary resuscitation.

ii. Skills

1) To locate various structures of the body and to mark the topography of the living anatomy.

2) To identify various tissues under microscope.

3) To identify the features in radiographs and modern imaging techniques.

4) To detect various congenital abnormalities.

c) INTEGRATION

By emphasizing on the relevant information and avoiding unwanted details, the anatomy taught integrally with other basic sciences & clinical subjects not only keeps the curiosity alive in the learner but also lays down the scientific foundation for making a better doctor, a benefit to the society.

This insight is gained in a variety of ways:

i. Lectures & small group teaching

ii. Demonstrations

iii. Dissection of the human cadaver

iv. Study of dissected specimens

v. Osteology

vi. Surface anatomy on living individual

vii. Study of radiographs & other modern imaging techniques.

viii. Study of Histology slides.

ix. Study of embryology models

x. Audio-visual aids

Throughout the course, particular emphasis is placed on the functional correlation, clinical application & on integration with teaching in other bio dental disciplines.

d) AN OUTLINE OF THE COURSE CONTENT:

General anatomy: Introduction of anatomical terms and brief outline of various systems of the body.

i. Regional anatomy of head & neck with Osteology of bones of head & neck, with emphasis on topics of dental importance.

ii. General disposition of thoracic, abdominal & pelvic organs.

iii. The regional anatomy of the sites of intramuscular & intra vascular injections, & lumbar puncture.

iv. General embryology & systemic embryology with respect to development of head & neck.

v. Histology of basic tissues and of the organs of gastrointestinal, respiratory, Endocrine, excretory systems & gonads.

vi. Medical genetics

a) THEORY:100HOURS

THEORY

	TOPICS	HOURS
1	Introduction to anatomical terms, position, skin, superficial fascia and deep fascia	1
2	Simple epithelium, compound epithelium, Glandular epithelium	1
3	Scalp	1
4	Muscles of facial expression	1
5	Norma verticalis & Norma frontalis	1
6	Norma occiptalis & norma lateralis	1
7	Cervical vertebrae	1
8	Deep cervical fascia	1
9	Development of face	1
10	Brachial plexus	1
11	Classification of joints	1
12	Connective tissue	2
13	Cartilage	1
14	Bone	2
15	Muscle	1
16	Nervous tissue – Neurons, classification, regeneration, optic nerve, sciatic nerve, sensory & autonomic ganglia	2
17	Thyroid gland & development & developmental anomalies	1
18	Lymphatic drainage of head & neck.	1
19	Lacrimal apparatus & eyelid	1
20	Parotid gland & development	1
21	Dural venous sinuses – classification, cavernous sinus in detail	1
22	Pituitary gland and development & anomalies	1
23	Vascular tissue – Large artery, Medium sized artery, Large vein	1
24	Lymphatic tissue	2

	TOPICS	HOURS
25	Skin and its appendages – hair follicle – Sebaceous gland – sweat gland – nail	1
26	Anterior cranial fossa	1
27	Middle cranial fossa	1
28	Posterior cranial fossa	1
29	Parietal bone	1
30	Occipital bone	1
31	Frontal bone	1
32	Temporal bone	2
33	Norma basalis	2
34	General embryology – oogenesis	1
35	General embryology – spermatogenesis	1
36	General embryology – fertilization	1
37	General embryology – implantation bilaminar	1
38	General embryology – bilaminar germ disc	1
39	General embryology - Neural tube formation, trilaminar germ disc, neural crest, Intraembryonic mesoderm & its fate, Notochord	2
40	General embryology - Folding of embryo	1
41	General embryology - Placenta & foetal membranes	2
42	Pharyngeal pouches & cleft	1
43	Bony orbit	1
44	Muscles of mastication	1
45	Temporomandibular joint	1
46	Hyoglossus muscle and its relations	1
47	Mandible	2
48	Maxilla	2
49	Zygomatic & hyoid bones	1
50	Pharynx	2
51	Nasal cavity & its lateral wall	1
52	Larynx	2
53	Tongue and its development & developmental anomalies	1
54	Middle ear & development	1

	TOPICS	HOURS
55	Coats of the eye – uveal tract in detail	1
56	External features of spinal cord	1
57	Leptomeninges	1
58	Blood supply of brain	1
59	Medulla oblongata– external features	1
60	Pons – external features	1
61	Cerebellum	1
62	4th ventricle	1
63	Mid brain – external features	1
64	3rd ventricle	1
65	Cerebrum – Sulci, gyri and functional area	1
66	Lateral ventricle	1
67	Optic pathway	1
68	White matter of cerebrum and internal capsule	2
69	Basal ganglia	1
70	III Cranial Nerve & IV Cranial nerves	1
71	V Cranial nerve & VI cranial nerves	1
72	VII cranial nerve	1
73	VIII, IX cranial nerves	1
74	X, XI, XII cranial nerves	1
75	Gastrointestinal system	2
76	Respiratory system	2
77	Cardiovascular system	2
78	Excretory system	2
79	Reproductive system – male (1 hr), female (1 hr)	2
80	Medical genetics – Mitosis, Meiosis, Chromosomes and anomalies	1
81	Medical Genetics - Gene structure and genetic disorders	1
82	Medical Genetics - Mode of inheritance	1

Sl. No.	SEMINARS
1.	Submandibular gland
2.	Nasal septum
3.	Soft palate
4.	Auditory tube
5.	Otic ganglion
6.	Pterygopalatine ganglion
7.	Submandibular ganglion
8.	Ciliary ganglion
9.	Ansa cervicalis
10.	Internal and external jugular veins
11.	Subclavian artery
12.	Autonomic nervous system
13.	Paranasal air sinuses
14.	Lingual artery
15.	Circle of Willis
16.	Choroid plexuses of the ventricles

a) PRACTICAL : 175 HOURS

Sl. No.	PRACTICALS
	HISTOLOGY
1.	Simple epithelium
2.	Compound epithelium
3.	Glandular epithelium
4.	Connective tissue
5.	Cartilage
6.	Bone
7.	Muscle
8.	Neuron – Optic Nerve - Peripheral Nerve
9.	Ganglia
10.	Blood vessels
11.	Lymphatic tissue – Lymph node, - Spleen, - Thymus, - Tonsil
12.	Skin – Thin skin, Thick skin
13.	Placenta & Umbilical cord
14.	Trachea & lung
15.	Spinal cord, Cerebellum, Cerebrum
16.	Cornea & Retina
17.	Thyroid & Parathyroid gland
18.	Suprarenal & Pituitary glands
19.	Kidney, Ureter, Urinary bladder
20.	Ovary, Corpus luteum, Testis
21.	Tongue – filiform, fungiform, circumvallate papillae
22.	Salivary glands – Mucous – Serious – Mixed
23.	Liver, Pancreas
	DISSECTION
24.	Introduction to dissection
25.	Scalp
26.	Superficial dissection of face – muscles of face
27.	Side of the neck & Posterior triangle
28.	Back of the neck – suboccipital triangle

29. Anterior triangle
30. Deep dissection of the neck – Thyroid gland parathyroid gland trachea, oesophagus, Brachiocephalic trunk, Subclavian artery Bracheiocephalic vein Thoracic duct. Cervical pleura Neurovascular bundle of the neck, Sympathetic chain, Scalene muscles; Cervical fascia
31. Lymph nodes & lymph vessels of head & neck
32. Prevertebral region – Vertebral artery – Vertebral vein
33. Deep dissection of face – Facial artery – Other vessels -Nerves
34. Structures in the cheek & lips
35. Eyelid & lacrimal apparatus
36. Parotid region
37. Cranial cavity –meninges Dural folds, Venous sinuses
38. Anterior cranial fossa
39. Middle cranial fossa – Pituitary gland
40. Posterior cranial fossa
41. Orbit – structures in the orbit
42. Temporal and infratemporal regions
43. Submandibular region
44. Mouth and pharynx
45. Soft palate and Auditory tube
46. Cavity of the nose
47. Larynx
48. Tongue
49. Organs of hearing & equilibrium – External ear – Middle ear – Internal ear
50. Eye ball
51. Joints of the neck
52. Spinal Cord
53. Introduction to brain
54. Meninges of brain
55. Blood vessels of brain
56. Base of brain
57. Hind brain –Medulla

58. Hind brain – Pons
59. Hind brain – Cerebellum
60. 4th ventricle
61. Midbrain
62. Cerebral hemispheres
63. White matter of cerebrum
64. 3rd ventricle
65. Lateral ventricle
66. Thalami – Optic tract
67. Deep dissection of cerebral hemisphere & Internal capsule
68. Deep nuclei and connections of thalamus

DEMONSTRATION OF SPECIMENS

69. Thoracic wall Chambers of heart Coronary arteries Pericardium
70. LungsPleural cavity Diaphragm
71. Abdomen – Peritoneal cavityOrgans in abdominal & pelvic cavities

CLINICAL PROCEDURES

72. Intramuscular injections Deltoid muscleGluteal region Quadriceps femoris
73. Intravenous injection Median cubital vein Cephalic veinBasilic veinLong saplenous vein Short saplenous vein
74. Arterial pulsations Superficial temporal FacialCarotid Brachial Radial Femoral Dorsalis pedisLumbar puncture

g) SCHEME OF EXAMINATION

Distribution of Topics and Type of Questions for University Written examination:

Contents	Types of Questions and Marks	Marks
Questions from any topic included in the theory syllabus	Structured Essays 2x 10 marks	20
Questions from any topic included in the theory syllabus Except from the topics from which the long essays have been set	Short Notes Essays 4 x 5 marks	20
	Brief Notes 10x3 marks	
	Total	30
		70

i. Theory

University Written	70 Marks
Internal Assessment	10 Marks
Viva Voce:	
Examiner 1-Gross Anatomy- Examiner 2-Osteology, Surface Marking & embryology	20 Marks

ii. Practicals:

University Practical Examination:	80 Marks
Gross Anatomy including osteology Spotters (2 mark each) 2x 15	30 Marks
Discussion on Dissected parts (2 Specimens) 2x15	30 Marks
Histology –spotters (10 slides) 2x10	20 Marks
Internal Assessment:	20 Marks
Grand Total	200Marks

2. GENERAL HUMAN PHYSIOLOGY

a) GOAL

The broad goal of the teaching undergraduate students in Physiology aims at providing the student comprehensive knowledge of the normal functions of the organ systems of the body to facilitate an understanding of the physiological basis of health and disease.

b) OBJECTIVES

i. Knowledge

At the end of the course, the student will be able to:

(1) Explain the normal functioning of all the organ systems and their interactions for well co-ordinated total body function.

(2) Assess the relative contribution of each organ system towards the maintenance of the milieu interior.

(3) List the physiological principles underlying the pathogenesis and treatment of disease.

ii. Skills

At the end of the course, the student shall be able to:

(1) Conduct experiments designed for the study of physiological phenomena.

(2) Interpret experimental and investigative data

(3) Distinguish between normal and abnormal data derived as a result of tests which he/she has performed and observed in the laboratory.

iii. Integration

At the end of the integrated teaching the student shall acquire an integrated knowledge of organ structure and function and its regulatory mechanisms.

c) THEORY: 120 Hours

	Hours
1. GENERAL PHYSIOLOGY	**4**

Homeostasis: Basic concept, Feedback mechanisms
Structure of cell membrane, transport across cell membraneBody fluid Compartments: distribution of total body water, intracellular & extracellular compartments, major anions & cations in intra and extra cellular fluid. Membrane potentials. RMP & Action Potential.

2. BLOOD: **15**

Composition & functions of blood, Plasma proteins - Types, concen-tration, functions & variations, Erythrocyte: Morphology, functions & variations.Erythropoiesis & factors affecting erythropoiesis, ESR- factors affecting, variations & significance.Haemoglobin - Normal concentration, method of determination [P] & variation in concentration, functionsAnaemia - Definition, classification, life span of RBC's destruction of RBC's, formation & fate of bile pigments, Jaundice - types.Leucocytes: Classification, number, percentage, distribution morphology, proper-ties, functions & variation. Role of lymphocytes in immunity, life span &fate of leucocytes. [Mention Leukemia]Thromobocytes - Morphol-ogy, number, variations, function.Haemostatsis – Role of vasoconstric-tion, platelet plug formation in haemostasis, coagulation factors, intrinsic & extrinsic pathways of coagulation, clot retraction.Fibrinolytic system.Tests of haemostatic function, platelet count, clotting time, bleeding time, prothrombin time - normal values, method & variations.Anticoagulants - mechanism of action.Bleeding disorders.Blood groups: ABO & Rh system, method of determination, importance, indications & dangers of blood transfusion, blood substitutes.[mention only] Blood volume: Normal values, variations.Functions of reticulo-endothelial system. Specific gravity,Packed cell volume,Methods of estimation [in practicals]Blood Indices - MCV, MCH, MCHC - definition, normal values, variation. LeucopoiesisThrombopoiesis.

3.MUSCLE AND NERVE **8**

Classification of nerves,Structure of skeletal muscle - Molecular mechanism of muscle contraction, Neuromuscular junction and NM transmission. Properties of skeletal muscle.Structure and properties of cardiac muscle & smooth muscle.

4. DIGESTIVE SYSTEM : **10**

Introduction to digestion: General structure of G.I. tract, Innervation. Salivary glands: Saliva: composition, regulation of secretion & functions of saliva.Stomach: Composition and functions of gastric juice, mechanism and regulation of gastric secretion. HCl secretion. Physiological basis of Peptic ulcer management [briefly]Exocrine Pancreas - Structure, composition of pancreatic juice, functions of each component, regulation of pancreatic secretion.Liver : structure , composition of bile, functions of bile Gall bladder: structure, functions.Small intestine - Composition, functions Large intestine - Functions.Motor functions of GIT: Mastication, deglutition, gastric filling & emptying, movements of small and large intestine, defecation.

5. EXCRETORY SYSTEM : 8

Structure & functions of kidney, functional unit of kidney & functions of different parts. Juxta Glomerular apparatus. Special functional features of renal circulation.Formation of Urine: Glomerular filtration rate - definition, normal values, factors influencing G.F.R. Tubular reabsorption - Reabsorption of sodium, glucose, water & other substances. Tubular secretion - secretion of urea, hydrogen and other substances. Countercurrent mechanisms.Micturition: anatomy & innervation of Urinary bladder, mechanism of micturition.Determination of GFR.Role of kidney in the regulation of pH of the blood. Urinary bladder: abnormalities.

6. SKIN AND TEMPERATURE REGULATION [basics only] 4

7. ENDOCRINOLOGY 14

General endocrinology - endocrine glands & hormones. Second messengers. Endocrine function of hypothalamus.Hormones of anterior pituitary & their actions, Disorders of secretion of anterior pituitary hormones.Posterior pituitary hormones: actionsThyroid: secretion & transport of hormones, actions of hormones, regulation.Adrenal cortex & Medulla- action,Other hormones - Angiotensin, local hormones Pancreatic HormonePTHEndocrine Disorders to be taught with each gland.

8. REPRODUCTION 6

Physiological anatomy of male and female sex organs, Gonadotropic hormones. Sex chromatin.Female reproductive system: Menstrual cycle, functions and hormones of ovary. Ovarian and uterine changes during menstrual cycle.Actions of oestrogen &Progesterone control of secretion of ovarian hormones, fertilization, implantation, maternal changes during pregnancy and parturition. Lactation, milk ejection reflex.Male reproductive system, spermatogenesis, hormones-testosterone. Semen. Contraception.

9. CARDIOVASCULAR SYSTEM 15

Functional anatomy and innervation of heart. Properties of cardiac muscle. Origin & propagation of cardiac impulse and Pacemaker potential.Action potential.Cardiac cycle - Phases, Pressure changes in atria, ventricles & aorta. Volume changes in ventricles. Heart sounds.Jugular venous pulse Arterial pulse.Electrocardiogram- Basic principles only. Normal electrocardiogram. Heart rate: Normal value, variation.Stroke volume

and Cardiac output: definition, normal values, variations, factors affecting.Arterial blood pressure: Definition, normal values, variations, determinants. Regulation of heart rate, stroke volume, blood pressure: integrated concept. Coronary circulation: special features. Cardiac murmursCardiac output: one method of determination Cardio vascular homeostasis in exercise & posture.

10. RESPIRATORY SYSTEM **12**

Physiology of Respiration: External & internal respiration. Functional anatomy of respiratory passage & lungs. Respiratory movements: Muscles of respiration, Mechanism of inflation & deflation of lungs. Intra pleural & intra pulmonary pressures & their changes during the phases of respiration. Mechanics of breathing - surfactant, compliance & work of breathing [basics only].Spirometry: Lung volumes & capacities definition, normal values, significance, factors affecting vital capacity, variations in vital capacity, Pulmonary ventilation- alveolar ventilation & dead space - ventilation.Pulmonary circulation: Functional features. Composition of inspired air, alveolar air and expired air.Exchange of gases: Diffusing capacity, factors affecting it.Transport of Oxygen & carbon dioxide in the blood. Regulation of respiration- neural & chemical.Hypoxia, cyanosis, dyspnoea, periodic breathing. Artificial respiration.FEV & its variations. Pulmonary function testsRespiratory changes during exercise.

11. CENTRAL NERVOUS SYSTEM **10**

Organisation of central nervous system Neuronal organisation at spinal cord level, Synapse: functional significance.Receptors, reflexes, sensations and sensory tracts, motor system Physiology of pain. Referred pain.Analgesia systems.Functions of thalamus, cerebellum. Vestibular apparatus [basics only] Cerebral cortex: Basics of higher functions.Formation and functions of CSF: clinical significance. Autonomic nervous system.

12. SPECIAL SENSES **14**

Fundamental knowledge of vision, hearing, taste and smell. Errors of refraction.Tests of auditory function.

d) PRACTICALS

The following list of practical is minimum and essential.The entire practical have been categorized as procedures and demonstrations.The procedures are to be performed by the students during practical classes to acquire skills. All the procedures are to be included in the University practical examination.Those categorized as demonstrations are to be shown to the

students during practical classes. However these demonstrations would not be included in the University examinations but question based on this would be given in the form of charts, graphs and calculations for interpretation by the students.

Practicals & demonstrations: 60 hours

Practicals	**Hours**
Study of Microscope and its uses	02
Collection of blood and study of haemocytometer	02
Haemoglobinometry	02
Determination of RB count	08
Determination of WBC count	04
Determination of blood groups	02
Leishman's staining and differential leucocyte count	10
Calculation of blood indices	02
Determination of bleeding time	01
Determination of clotting time	01
Blood pressure recording	03
Auscultation of Heart sounds	02
Demonstrations	
Determination of Erythrocyte Sedimentation rate(ESR)	02
Determination of packed cell volume(PCV)	02
Determination of specific gravity of blood	02
Fragility test for RBC	02
Clinical examination of Cardiovascular and Respiratory System	03
Determination of vital capacity	02
Artificial respiration	02
Demonstration of deep and superficial reflexes	02
Activity of frog's heart and effects of Acetylcholine, Atropine and	02
Electrocardiography: Demonstration of recording of normal Electro	02
Total	**60**

e) *SCHEME OF EXAMINATION* *Types of Questions for written examination*

Type of Questions	**Marks**
Structured Essays 1x 10 marks	10
Short Notes 2 x 5 marks	10
Brief Notes 5 x 3 marks	15
Total	**35**

i. *Theory:*

University written Examination:	**35Marks**
University Viva:	**10Marks**
Internal Assessment:	**5 Marks**
Total:	**50 Marks**

ii. Practicals:

Internal Assessment:	**10 Marks**
University Practicals:	**40Marks**
Total:	**50 Marks**
Grand Total	**100Marks**

Mark distribution for University practical examination

Major Experiments:	**20Marks**

Any one of the Major Experiments: R.B.C. Count, W.B.C. Count, Differential Count, Blood Pressure Recording

Minor Experiments:	**15Marks**

Any one of the minor Experiments: Determination of Blood Groups, Determination of Bleeding & Clotting time, Haemoglobin Estimation, Calculation of absolute Hematological Indices–MCH, MCV, MCHC

Practical Work record:	**5 Marks**

3. BIOCHEMISTRY, NUTRITION AND DIETETICS

a) AIMS AND SCOPE

The major aim is to provide a sound but crisp knowledge on the biochemical basis of the life processes relevant to the human system and to dental/medical practice. The contents should be organized to build on the already existing information available to the students in the pre-university stage and reorienting. A mere rehash should be avoided.

The chemistry portion should strive towards providing information on the functional groups, hydrophobic and hydrophilic moieties and weak valence forces that organise macromolecules. Details on structure need not be emphasised.

Discussion on metabolic processes should put emphasis on the overall change, interdependence and molecular turnover. While details of the steps may be given, the student should not be expected to memorise them. An introduction to biochemical genetics and molecular biology is a must but details should be avoided. The exposure to antivitamins, antimetabolites and enzyme inhibitors at this stage, will provide a basis for the future study of medical subjects. An overview of metabolic regulation is to be taught by covering hormonal action, second messengers and regulation of enzyme activities. Medical aspects of biochemistry should avoid describing innumerable functional tests, most of which are not in vogue. Cataloguing genetic disorders under each head of metabolism is unnecessary. A few examples which correlate genotype change to functional changes should be adequate.

At the end of the course the student would be able to acquire a useful core of information, which can be retained for a long time.

b) THEORY: 70 HOURS

No.	TOPIC	HOURS ALLOTTED
1	**CARBOHYDRATES**	**12 hours**
	Definition, biological importance and classification. Monosaccharide's –Glucose, fructose, galactose, mannose	1
	Reactions: reducing property, oxidation, osazone, Molisch test. Define anomerism, epimerism with examples.	1
	Disaccharides-lactose, maltose, sucrose, Glycosidic bond, amino sugars, deoxy sugars	1
	Polysaccharides. Structures of starch and glycogen, Muco polysaccharides (definition, name, components, biochemical	1
	significance. nature of linkages not required) Dietary fibers. Digestion and absorption of carbohydrates. associated disorders(in brief)	1
	Glycolysis, fates of pyruvate Gluconeogenesis.	2

Glycogenesis, glycogenolysis,	2
Significance of pentose phosphate pathway. Importance of glucuronic acid.	1
Regulation of blood glucose. Diabetes mellitus: impaired fasting glucose, impaired glucose tolerance, gestational diabetes mellitus. Evaluation of glycemic status.	2

2 LIPIDS **9 hours**

Definition, biological importance and classification. Fats and fatty acids. Essential fatty acids. Introduction to compound lipids.	
Cholesterol.	2
Digestion and absorption of lipids	1
Beta oxidation of fatty acids	1
Fatty acid synthesis, (in brief)	1
Ketone body formation and utilization	1
Outlines of cholesterol synthesis and compounds formed from cholesterol	1
Plasma lipoproteins: Formation, function and dyslipidemia, Atherosclerosis.	2

3 ENZYMES **6 hours**

Definition, classification, specificity and active site. Cofactors.	1
Factors affecting enzyme action	2
Enzyme inhibition	2
Clinical important enzymes- AST,ALT,ALP,PSA, LDH,CK,G6PD,GGT	1

4 PROTEINS **9 hours**

Amino acids: Classification. Introduction to peptides, peptide bond Proteins: Classification. Charge properties. Buffer action. Levels of protein organization Denaturation.	3
Digestion and absorption of proteins. Nitrogen balance. Essential amino acids. Protein quality and requirement (methods for evaluation of protein quality to be excluded). Protein-calorie malnutrition, Balanced diet.(in brief)	2
Formation of Ammonia and Urea cycle.	1
Reactions of amino acids-transamination, trans methylation, trans sulfuration (in brief)	1
Compounds formed from glycine	1
Biologic importance of aromatic amino acids, sulphur containing amino acids, Aminoacidurias (in brief)	1

5 INTEGRATION OF METABOLISM **2hours**

High energy compounds, Electron transport chain and oxidative phosphorylation.

6 VITAMINS **5 hours**

Fat soluble vitamins A,D,E,K, sources, functions, daily requirements, deficiency, Toxicity 2

Water soluble vitamins B, C, sources, functions, daily requirements, deficiency, Toxicity 3

7 ACID BASE BALANCE **4 hours**

Buffers, respiratory and renal regulation, disorders, analysis

8 MINERALS **6 hours**

Classification, daily requirement. Calcium and phosphorous: sources, uptake, excretion, function. Serum calcium regulation. 2

Iron: sources, uptake and transport. Heme and nonheme iron functions; deficiency 2

Iodine: Brief introduction to thyroxine synthesis. General functions of thyroxine.

Fluoride: function, deficiency and excess 1

Indications of role of other minerals 1

9 HAEMOGLOBIN **3 hours**

Structure, synthesis, degradation 1

Hemoglobinopathies 1

Jaundice 1

10 PLASMA PROTEINS **2 hours**

Classification and separation. Functions of albumin. immunoglobulins. Biochemistry of AIDS.

11. LIVER FUNCTION TESTS **1 hours**

12. KIDNEY FUNCTION TESTS **1 hours**

13. MOLECULAR BIOLOGY **8 hours**

Nucleic acids: Building units. Nucleotides. Outline structure of DNA and RNA. 2

Formation and degradation of nucleotides. (in brief) Gout. Lesch- nyhan syndrome 2

Replication. Transcription. (in brief) Antimetabolites

and antibiotics interfering in replication, transcription	2
Outline of translation process.	2

14. Techniques-colorimetry, ELISA, RIA **2 hours**

c) PRACTICALS,DEMONSTRATION& SEMINAR: 60 hours

i. Practical: 45 hours

Sl.No.	Procedure	Hours
1.	Introduction to lab procedures	1
2.	Normal & abnormal constituents of urine	12
3.	Introduction to clinical chemistry	2
4.	Estimation of blood urea	2
5.	Estimation of serum protein	2
6.	Estimation of blood sugar	2
7.	Estimation of serum creatinine	2
8	Estimation of serum albumin	2

ii. Demonstration: 20 hours

Sl.No.	Procedure	Hours
1.	Electrophoresis	2
2.	Chromatography	2
3.	GTT charts	2
4.	LFT charts	2
5.	Revision	3

iii. Seminars: 15 hours

SCHEMEOF EXAMINATION

Types of Questions for written examination

Type of Questions	**Marks**
Structured Essays 1x 10 marks	10
Short Notes 2 x 5 marks	10
Brief Notes 5 x 3 marks	15
Total	**35**

i. *Theory:*

University written Examination:	**35Marks**
University Viva:	**10Marks**
Internal Assessment:	**5 Marks**
Total:	**50 Marks**

ii. Practicals:

Internal Assessment:	**10 Marks**
University Practicals:	**40Marks**
Total:	**50 Marks**
Grand Total	**100Marks**

Mark distribution for University practical examination;

One procedure for quantitative estimation	15marks
One procedure for qualitative analysis	20marks
Practical Work record:	5 Marks

The following Procedures are suggested for University Practical Examination:
Quantitative Estimation (Any ONE estimation to be done)

Estimation of blood sugar/serum creatinine/blood urea/serum protein/ serum albumin

Qualitative Analysis (Any ONE analysis to be done)
Urine Analysis–normal constituents Report of abnormal urine

4. DENTAL ANATOMY, EMBRYOLOGY AND ORAL HISTOLOGY

a) INTRODUCTION:
The course includes instructions in the subject of Dental Morphology, Oral Embryology, Oral Histology and Oral Physiology. A composite study of basic Dental Sciences & their clinical applications.

b) SKILLS
e student should acquire basic skills in:
Carving of crowns of permanent teeth in wax. Microscopic study of Oral tissues.
Identification of Deciduous & Permanent teeth
Age estimation by patterns of teeth eruption from plaster casts of different age groups.

c) OBJECTIVES

r a course on Oral Biology,

The student is expected to appreciate the normal development, mor-phology, structure & functions of oral tissues & variations in different pathological/ non-pathological states. The student should understand the histological basis of various dental treatment procedures and physiologic ageing process in the dental tissues.

The students must know the basic knowledge of various research meth-odologies

d) COURSE CONTENT

i. Theory: 105 hours

DENTALANATOMY	**HOURS**
1. Introduction, Dental Anthropology & Comparative Dental Anatomy	
2. Function of teeth.	**3**
3. Nomenclature.	
4. Tooth numbering systems (Different system) (Dental formula).	
5. Chronology of deciduous and permanent teeth. (First evidence of calcification, crown completion, eruption and root completion).	**2**
6. Deciduous teeth - a) Nomenclature. b) Importance of deciduous teeth.c) Form & function, comparative dental anatomy, fundamental curvature	**4**
7. Gross morphology of deciduous teeth.	**5**
8. General differences between deciduous and permanent teeth.	**1**
9. Morphology of permanent teeth.Chronology, measurements, description of individual surface and variations of each tooth.	**12**
10. Morphological differences between incisors, premolars and molars of same arch.	**1**
11. Morphological differences between maxillary and mandibular. incisors, canines, premolars and molars of the opposite arch	**1**
12. Internal Anatomy of Pulp.	**1**
13. Occlusion: a. Development of occlusion. b. Dental arch form. c. Compensating curves of dental arches. d. Angulations of individual teeth in relation to various planes. e. Functional form of the teeth at their incisal and occlusal thirds. f. Facial relations of each tooth in one arch to its antagonist or antagonists in the opposing arch in centric occlusion.g. Occlusal contact and interscusp relations of all the teeth	

of one arch with those in the opposing arch in centric occlusion. h. Occlusal contact and intercusp relations of all the teeth during the various functional mandibular movements. i. Neurobehavioral aspect of occlusion **8**

14. Temporo Mandibular Joint (T.M.J.):Gross Anatomy and articulation.Muscles (Muscles of mastication). Mandibular position and movements.Histology. Clinical considerations with special emphasis on Myofacial Pain Dysfunction Syndrome (MPDS) - (Desirable to Know) **2**

ORAL PHYSIOLOGY

1. Theories of calcification **1**
2. Mastication and deglutition **1**

Oral Embryology, Anatomy and Histology:

1. Development and growth of face and jaws. **1**
2. Development of tooth. **3**
3. Cranial nerves with more emphasis on V.VII and IX. **1**
4. Blood supply, nerve supply and lymphatic drainage of teeth and surrounding structures **1**
5. Cell - structure and function **1**
6. Maxillary sinus - Structure, Variations, Histology function and clinical considerations
7. Salivary Glands - Classification, structure, function, Histology, Clinical Considerations and age changes. **4**
8. Oral Mucous membrane:Definitions, General consideration. Functions and classifications. Structure and microscopic appearance of gingiva, palate, lips, alveolar mucosa, tongue, floor of mouth. Gingival sulcus and dentogingival junction. **8**

Clinical considerations and age changes.

9. ENAMEL:Physical characteristics, chemical properties structure. Development - Life cycle of ameloblasts, Amelogenesis and Mineralisation. Clinical considerations. Age changes. **8**

10. DENTIN:Physical characteristics, chemical properties, structure.Types of dentin. Dentin innervation and hypersensitivity. Development - Dentinogenesis and mineralisation. Clinical considerations. Age Changes. **6**

11. PULP:Anatomy, structural features, functions, pulp organs. Developments. Clinical considerationAge changes. **6**

12. CEMENIUM:Physical characteristics, chemical properties, structure. Cementogenesis. Clinical consideration Age changes. **4**

13. PERIODONTAL LIGAMENT:Cells and fibers, Functions, Development, Clinical Considerations., Age Changes **5**

14. ALVEOLAR BONE:Physical characteristics, chemical properties structure. Structure, Development., Internal reconstruction, Clinical consideration. **5**

Tissue processing & Histochemistry **4**

THEORIES OF ERUPTION AND SHEDDING. **4**
(Physiological tooth movement)

ii. Practical: 250 Hours

DENTAL ANATOMY: Carving on wax blocks:-a. Individual tooth - Only permanent teeth of both arches.- Central, Incisors, Lateral, Canines, Premolars and 1st and 2nd molars

HISTOLOGY: List of Histology slides:**Development of tooth:**

1. Bud stage of tooth development.
2. Cap stage of tooth development.
3. Early bell stage of tooth development.
4. Late Bell stage of tooth development.
5. Root formation.

ENAMEL:

1. Enamel rod.
2. Hunter-Schreger Bands
3. Tufts, Lamellae, Spindles.
4. Incremental lines of Retzius.
5. Neonatal line.
6. Gnarled Enamel.

DENTIN:

1. Dentino - Enamel junction.
2. Dentinal Tubules.
3. Incremental lines of Von Ebner.
4. Contour lines of Owen.
5. Neonatal line.
6. Tomes granular layer.
7. Interglobular Dentin.
8. Secondary Dentin.
9. Intratubular Dentin.
10. Intertubular Dentin.

CEMENTUM:

1. Cellular cementum.
2. Acellular cementum.
3. Cemento enamel junction
   - Type 1 - 60% type - Overlapping.
   - Type 2 - 30% type - Butt
   - Type 3 - 10% type - Cementum & Enamel do not meet.
4. Sharpey's fibers.
5. Hypercementosis.

PULP:

1. Zones of Pulp.
2. Pulp stones.

PERIODONTAL LIGAMENT:

01. Principle fibers of Periodontal ligament
- Apical, Horizontal, Oblique, Alveolar crest, Interradicular, Transeptal

ALVEOLAR BONE:

1. Haversian system.
2. Trabeculated bone.
3. Mature and immature bone.

SALIVARY GLANDS:

1. Mucous gland.
2. Serous gland.
3. Mixed gland.

MAXILLARY SINUS:
Sinus lining (Pseudostratified ciliated columnar) (Desirable to know)

ORAL MUCOUS MEMBRAIN:

1. Parakeratinised epithelium.
2. Orthokeratinised epithelium.
3. Palate - Anterolateral zone.
4. Palate - Posterolateral zone.
5. Alveolar mucosa.
6. Vermilion border of lip.
7. Tongue - Circumvallate Papillae.
- Fungiform Papillae
- Filiform Papillae

Preparationof Ground sections, haematoxylin & Eosin sections& decalcified section

iii. Lecture demonstration:
Identification of Individual teeth

(1) Deciduous

(2) Permanent

(3) Mixed dentition using study models

(4) Demonstration of preparation of ground section, Decalcification, Paraffin section and H & E Staining.

e) SCHEME OF EXAMINATION

Distribution of Topics and Type of Questions for University written examination

Contents	Type of Questions and Marks	Marks
Dental anatomy - one question - 14 marks Detailed morphology of Permanent teeth, Differences between Primary & Permanent teeth, Occlusion and Arrangement of teeth.	Structured Essays 2x 10marks	20
B. Oral histology - one question - 14 marks Development of tooth, Enamel-structure & development, Dentin-structure& development, Cementum, Dental pulp - structure & histology,	Short notes 4 x 5marks Brief Notes	20

Periodontal ligament, Alveolar bone-structure & histology, Oral mucosa-structure & histology, Eruption of teeth

A. Oral histology - two questions - 16 marks
B. Dental anatomy - one question - 08 marks
C. Oral physiology - one question - 08 marks

A. Oral histology - five questions - 20 marks
B. Dental anatomy - three question - 12 marks
C. Oral physiology - one question - 04 marks
D. Oral embryology - one question - 04 marks 10x3marks 30

Total *70*

i. *Theory*

University written Examination: 70Marks

University Viva: 20Marks

Internal **Assessment:** **10 Marks**

ii. Practicals:

Internal Assessment: **20 Marks**

University Practicals: **80Marks**

Grand Total **200 Marks**

Mark Distribution for University Practical Examination:

Tooth Carving:(Time allotted 75 Minutes) 25 Marks
Spotters: (15X3 marks) 45 Marks
Practical work Record: 10 marks

Type of Spotters:

8 Histology and Ground Section slides 5 Tooth identification
2 Casts for identification of teeth, numbering system and age assessment

2.3. No. of hours per subject

I. BDS

Sl. No.	Subjects	Lecture (hrs)	Practical (hrs)	Clinical (hrs)	Total (hrs)
1.	General Human Anatomy including Embryology and Histology	100	175	—	275
2.	General Human Physiology	120	60	—	180
3.	Biochemistry, Nutrition and Dietetics	70	60	—	130
4.	Dental Anatomy, Embryology and Oral histology	105	250	—	355
5.	Dental Materials	20	40	—	60
6.	Pre clinical Prostho-dontics and Crown & Bridge	—	100	—	100
7.	Pre clinical Conser-vative Dentistry	—	100	—	100
	Total	**415**	**785**	**—**	**1200**

1. EXAMINATIONS

3.1 Eligibility to appear for University examinations a) Preface:

i. Evaluation is a continuous process, which is based upon criteria developed by with certain objectives to assess the performance of the learner. This also indirectly helps in the measurement of effectiveness and quality of the concerned B.D.S. programme.

ii. Evaluation is achieved by two processes

1) Formative or internal assessment

2) Summative or university examinations.

Formative evaluation is done through a series of tests and examinations conducted periodically by the institution.

Summative evaluation is done by the university through examination conducted at the end of the specified course.

b) Methods of evaluation:

Evaluation may be achieved by the following tested methods:

i. Written test

ii. Practical examination

iii. Clinical examination

iv. Viva voce

c) Eligibility criteria:

For a candidate to be eligible to write the university examination of an year of study for the first time he/she should have minimum 80% attendance in all the subjects in which examination is being held for the year of study and a minimum of 70% in Lectures and Practical/ Clinical separately in all the non-exam subjects for the year (Refer Section 1.8). However candi-dates with such 80% attendance in all the subjects of study for which university examination is held for a particular year will be eligible to at-tempt the university examination only in those subjects in which he/she has secured the minimum requirement of 40% of internal assessment marks. A candidate can reappear for university examination in the failed subjects provided he/she has secured minimum 70% attendance (theory & practi-cal separately) and have scored minimum 40% marks in internal assess-ment conducted for the subject during the supplementary period.

Schedule of regular/Supplementary examinations

The University examination for a subject shall be conducted twice in a year as per the schedule approved by the Board of Examinations at an interval of not less than four to six months as notified by the university from time to time.

Scheme of examination Showing Maximum and Minimum Marks

The scheme of examination for B.D.S. Course shall be divided into 1st B.D.S. examination at the end of the first, 2nd B.D.S. examination at the end of second, 3rd B.D.S. examination at the end of third and Final BDS Part I examination at the end of fourth academic year. The Final

B.D.S part II examination will be held on completing six months of the fifth academic year. The examination shall be open to a candidate who satisfies the requirements of attendance, progress and other rules governing the institution and The University.

1. Distribution of Marks

i. For each paper in which written examination is held: Theory

University written examination	70	
University Viva Voce	20	
Internal assessment	10	
Total	100	
Practical/ clinical		
University Practical/ Clinical examination		80
Internal assessment		20
Total		100

Aggregate marks for each paper	200

ii. For Preclinical Examination in Prosthodontics/Conservative Dentistry & Orthodontics

University Practical examination	60
Viva voce	20
Internal assessment Practical	20
Total	100

preclinical examination in each subject is to be conducted separately.
Details of theory examination (written)

1. The written examination in each paper will be of three hours duration and shall have maximum marks of 70. Type of Questions and Distribution of marks for written examination should be as given in table I given below.
2. The paper of Physiology & Biochemistry will be divided into two Sections, Section A (Gen. Physiology) and Section B (Biochemistry) of equal marks. Type of Questions and Distribution of marks for written examination should be as given in table II below.
3. The paper of Pathology & Microbiology will be divided into two Sections, Section A (Gen. Pathology) and Section B (Microbiology) of equal marks. Type of Questions and Distribution of marks for written examination should be as given in table III below.
4. The paper of Dental Materials will be divided into two Sections, Section A (Prosthodontics) and Section B (Conservative Dentistry) of equal marks. Type of Questions and Distribution of marks for written examination should be as given in table IV below.
5. The question paper should contain different types of questions like essay, short note and brief note.
6. The nature of questions should be aimed to evaluate students of different standards ranging from average to excellent.
7. The questions should cover as broad an area of content of the course as possible. The essay questions should be properly struc-tured and the marks specifically allotted.

Table I.

Type of Question	No. of Question	Marks / Question	Total Marks
Structured Essay	2	10	20
Short note	4	5	20
Brief note	10	3	30
Grand Total			**70**

Table II.

Physiology and Biochemistry

Subject	*Type of Questions*	*No. of Questions*	*Marks of Questions*	*Total Marks*
Section A Physiology	*Structured Essay*	*1*	*10*	*10*
	Short note	*2*	*5*	*10*
	Brief note	*5*	*3*	*15*
GrandTotal				***35***

Rules & Regulations

GENERAL RULES OF PUSHPAGIRI COLLEGE OF DENTAL SCIENCES

General Behaviour

a) All students are expected to conduct themselves with decorum and discipline at all times and in all places. Each one should maintain the highest moral standard always and refrain from using foul language.

b) Students should report for classes punctually at 8 am.They should not loiter around during class hours and should refrain from noisy unruly behavior in the college and class rooms.

c) Students are not permitted to use mobile phones at all in the college campus.

d) Students are not allowed to bring any vehicles into the college campus or the hostels.

e) All assignments and other works given by teachers should be regularly done and submitted in time.

f) Students are expected to be polite and courteous in their behavior at all times.

g) Students should not deface or dirty the walls, benches or other furniture. Classrooms and surroundings should be kept tidy and clean. Litter should be put in the waste bins only.

h) For irregular attendance, disobedience, malpractice at exams or any action not conducive to the moral tone and discipline of the institution, a student may incur punishment including suspension or dismissal.

i) Hostels are out of bounds to the day scholars.

j) Students are responsible for any valuables/ cash carried by them and the institution will not be responsible for any loss sustained. However this may be reported to the Principal's office.

k) Any damage done to the college property should be paid for.

l) Any serious breach of discipline including discourtesy and disrespect to the staff/management/wardens in any way will be taken seriously.

m) Parents staying abroad should give the contact details of a responsible guardian who can take the entire responsibility of the ward, in the absence of the parent.

n) Gambling, smoking, consumption of alcoholic drinks, reading/ browsing of pornographic material, keeping or using of dangerous drugs is prohibited.

o) Ragging in ANY FORM is STRICTLY prohibited and any indulgence in such activity will result in IMMEDIATE EXPULSION. Ragging,

whether physical or psychological, is a criminal offence before the Indian Law, as detailed in 'The Kerala Prohibition of Ragging Act-1998' , Act 10 of 1998 published in Kerala Gazette Extra No.1007 dated 24/6/1998. The Principal will notify the offence to the police if deemed necessary, after consultation with the management.

p) Students are prohibited in getting engaged in political agitations, strikes or demonstrations of any kind. They should not put up or circulate notices, hold meetings or collect subscriptions of any sort, under any circumstances, anywhere in the college or hostel premises, without prior permission from the Principal.

Dress Code

Students should wear clean, neat and presentable clothing. Boys should be clean shaved. Students are advised to follow the dress advised by the College.

Dress Code for Boys

- Trousers and collared shirt
- Shoes and Socks
- Clean white apron with name tag

Dress Code for Girls

- Formal wear dress like Churidar
- Closed foot wear
- Hair (beyond shoulder length) to be tied up
- Clean white apron with nametag

In case of violation of the dress code, the student concerned will be asked to leave the academic session.

Fees structure

Tution Fee

All students should remit the tution fees for the academic year within the stipulated time period. Late payment would result in fine.

College Caution Deposit

A one time refundable caution deposit should be paid at the time of admission.

Hostel Fee

Hostel fees should be paid for one full year at the time of admission.

Late payment would result in fine.

Hostel Caution Deposit

A one time refundable caution deposit should be paid at the time of admission. This shall be refunded once the student vacates the hostel.

Hostel Mess Fee

Hostel provides both vegetarian and non-vegetarian food for students. Students should pay the mess fee for 6 months inadvance. Students can avail reduction of mess fees if they are not in hostel for a minimum of 5 days.

Transportation Fee

Transportation is available for the students from Dental College to Medical College.

Mode of payment

Fees can be remitted as online transfer to the Pushpagiri College of Dental Sciences account or in the form of Demand Draft drawn in favour of Pushpagiri College of Dental Sciences payable at Thiruvalla.

Details Name : Pushpagiri College of Dental Sciences
Bank Name: The South Indian Bank Ltd
Brnch: Medicity Branch, Perumthuruthy
A/c No. 0730053000001200
IFSC: SIBL0000730
Account Type: SB
Details for DD
In favour of Pushpagiri College of Dental Sciences
Payable at Perumthuruthy.

Academics

The medium of instruction is English. All students must be in possession of the identity cards provided by the college. Any loss should be promptly reported to the Principal. The cards must not be mutilated, defaced or rendered ineffective for identification. The card must be returned at the termination of course/withdrawal from the institute.

Students would be assigned assignments, project works, seminars, practical exercises during their academic curriculum. **Students should have a minimum of 80% attendance and 40% of internal assessment marks which is mandatory for appearing in the University examination. Internal assessment marks for a student in a subject will be calculated as the average of the marks obtained in the model examination(compulsory) and the highest among all other internal examinations in the subject. Any student who fails to achieve the required criteria would be ineligible for University examinations.**

Regular PTA meeting would be arranged for the interaction of the parent with the teachers to discuss the performance of their ward. Parents are requested to attend the scheduled PTA meetings without fail.

Students are advised to make full use of the central library available which has a large collection of books and latest journals. The library also has internet facility. Students are responsible for any textbooks, library books, or any equipment loaned to or used by them. If misused or damaged, students will be responsible for charges to repair or replace. Students should maintain perfect silence in the library.

Interfering or tampering any of the office records of college/ university is a serious offence and will result in suspension/ rustication.

Students can avail leave on special grounds only with prior permission of the HODs concerned.

Any student involved in or encouraging the involvement of another student in fighting will be suspended. Persistent involvement will result in expulsion from the college.

Ragging

Ragging within or outside the institution is prohibited. Students who directly or indirectly commits, participates in, abets or instigates ragging inside or outside the institution shall be suspended, expelled or rusticated from the institution. The punishment includes rigorous imprisonment, cancellation of admission, suspension from attending classes, withholding/ withdrawing fellowship/scholarship and other financial benefits.

Ragging includes display of noisy, disorderly conduct, teasing, rough or rude treatment, indulging in rowdy, undisciplined and obscene activities which cause or are likely to cause annoyance, undue hardship, physical

or psychological harm or mental trauma or raise apprehension or fear in a fresher or other students, or forcing a student to do any act which such a student is not willing to do or which causes him/ her shame or embarrassment or danger to his/her life or indulging in eve teasing. The students are reminded that ragging in educational institutions in the state of Kerala is a crime and punishable by imprisonment upto 2 years and a fine upto Rs 10000/- according to the Kerala Prohibition of Ragging Act 1998(Act 10 of 1998) the offending students also invite expulsion from the college and are banned from admission to any college for a period of 3 years.

All students should file an online affidavit through the website www.antiragging.in or www.amanmovement.org. The online affidavit should be signed by the student and parent and submitted to the college office at the time of admission.

Information for Students

1. To become a good professional, the student should be very clear in his/her ambition and set appropriate goals for themselves.
2. The priorities for the day should be clear in the mind.
3. Proper time management is very essential (with proper time management a student can easily have 3 hours of relaxation per day and read for 5 hours per day).
4. Mind and body should be kept active. Priorities and ambition may be forgotten if relaxation is overdone.
5. Attendance and internal assessment are two valuable tools to monitor the academic progress of a student. To avoid anxiety and tension before exam one should maintain a good record of attendance and internal assessment. Though 100% attendance is essential, 20% absenteeism is permitted to cover ill health and family commitments.
6. It is advisable that students stay only in hostels. When in hostels, they are expected to abide by the hostel rules and regulations. It is mandatory for students to keep the warden informed of their visits to a friend or relative or if he or she is going to be away from the hostel for more than a day. Students should not keep costly and valuable items in the room.
7. The behaviour of the student in and around the campus should befit the noble profession they have opted for. Lab coats (apron) should be worn only inside the campus.
8. During clinical postings, should behave appropriately when dealing with patients.
9. Students are expected to strictly observe the dress code of the institution.

10. Indiscipline will be dealt with as per rules and the nature of punishment can vary from suspension to dismissal from the institution.
11. In case of ill health, students should report to the casualty at Pushpagiri Medical College Hospital.
12. Any student involved in criminal offences in the campus and any indiscipline outside the campus will be handled by the concerned authorities.
13. The following are banned and severely dealt with:
    - Drugs, drinking (liquor) and smoking
    - Ragging & eve teasing
    - Cheating, stealing, provocation, coercion, threats, pressure tactics & fights
14. Appropriate stringent action has been taken to prevent ragging. Anti-ragging Committee, Anti-ragging Squad, are the committees which will oversee and take appropriate steps to prevent ragging.
15. **Students are not permitted to use mobile handsets with camera in the college. The equipment shall be confiscated if the student is found to possess it.**

Mandatory Vaccination for all students

- **Hepatitis 'B' Vaccine:** 3 doses 0, 1, 6 months (Intra muscular)

Optional Vaccination for students

- **Chickenpox Vaccine:** 2 doses 0, 6 Weeks (Subcutaneous)
- **Typhoid Vaccine:** Single dose (Intramuscular) 3 years immunity following vaccination **Hepatitis A Vaccine:** 2 doses 0, 6 months

LEAVE RULES FOR BDS STUDENTS

1. Application for leave **up to three days** need be submitted only to the concerned departments and approval must be obtained prior to availing the leave.
2. Other than for special circumstances, leave for **four days or more** shall be granted only on medical grounds.
3. The student availing medical leave should, as soon as possible, inform the class representative by telephone. The class representative should inform the concerned departments and the college office regarding the same.
4. Leave on medical grounds should be submitted to the college office on the day of rejoining along with the medical certificate.

5. Student staying in the hostel need to submit separate leave application approved by the Vice Principal to the Hostel Warden.
6. Separate application forms are available in the college office for:-
   a. Leave up to 3 days.
   b. Leave for 4 days or more.
   c. Leave from hostel

HOSTEL FACILITIES AVAILABLE

St. Thomas Hostel for Men

St. Alphonsa Hostel for Women

General information about hostels

Separate hostel accommodation is provided for men and women. All BDS students should stay in the hostel, except for those residing within a radius of three kilometers from the college campus.

Administration

The Principal will be in charge of the overall administration of the students' hostels. The day to day administration of the hostels will be done by the Warden in charge of the hostel. Wardens and assistant wardens will be appointed by the Chief Executive Officer as and when required with due information to the Principal.

The wardens shall be in contact with the Director- Medicity, who is also in charge of student welfare in all the hostels. He shall render spiritual and moral assistance to the students through personal counselling and guidance. He will be available in his office during fixed times and on appointment.

The Holy Mass is being celebrated in the Chapel every day at 6.00 am. All Christian students are expected to attend the Holy Mass and other prayer facilities available in the Chapel.

IMPORTANT CONTACT NUMBERS

Hostels:

St. Thomas Hostel (Boys)	-	0469 2623326
Warden - Mr Varghese	-	9495726214
Alphonsa Hostel (Girls)	-	0469 - 2645183
Chief Warden		0469 - 2645123
St. Theresitt F.D.S.H.J	-	9048700079
Rev.Sr. Anila F.D.S.H.J	-	9847974591
Rev. Sr Anna F.D.S.H.J	-	8275817320

HOSTEL RULES AND REGULATIONS

1. It is mandatory for students to staying in the hostels and be a member of the mess in the hostel.
2. The Chief Warden reserves the right to break open rooms in case of any violation of hostel rules, suspected unlawful activities or on the basis of security risk perceived.
3. Students are requested to avoid shouting, playing loud music or making all types of noises which are likely to distract the attention of those who may be studying in their rooms.
4. Pets of all kinds are prohibited inside the hostel. Feeding stray dogs or cats in the hostel premises is not permitted.
5. All visitors including parents/ guardians must be entertained only in the visitors lounge and during visiting hours only. A visitors pass will be obtained from the office of the chief warden, well in advance by concerned student.
6. Cooking in hostel rooms is not permitted.
7. All instructions/ notices displayed on notice boards will be deemed to have been read by all residents and excuses for non-compliance of such instructions and notices will not be accepted. Residents are advised to look at the notice board everyday to acquaint themselves with latest information/orders.
8. Students must switch off all lights and fans, and electrical appliances if any before leaving their rooms. This is necessary to avoid an inadvertent fire.
9. In case of Fire: Residents must raise an alarm and call the hostel Warden. They should also alert the Security.
10. The Chief Warden/ Warden or his representative may enter any room for verification at any time of the day or night.
11. The management reserves the right to break open the rooms in case of violations of hostel rules, suspected unlawful activities and security risk cases or where the student is absent from his room for a long period without prior information or any valid reason. This will, however, be carried out by the security person in the presence of the hostel Warden. On such occasions, the items in the room will be listed by these officials and kept in the store room. A verbal report, followed by a written report will be sent to the higher authorities.
12. Proxy or dummy room-mates are forbidden. Strict action will be taken if accommodation is held as proxy. They are liable to be removed from the hostel. Residents are not permitted to allow their rooms to be used by others. All visitors and non-

residents including students from other hostels must leave the hostel/ other students rooms during nights. All residents are advised to extend their fullest co-operation to see that no unauthorised persons enter or stay in the hostel premises. If they happen to find any such person, they should demand the permit/ Identity Card and if it is not forthcoming, the matter should be brought to the notice of the Warden for further action.

13. RAGGING IN ANY FORM IS BANNED INSIDE AND OUTSIDE THE CAMPUS. STRICT ACTION WILL BE TAKEN AGAINST THE DEFAULTERS. NO LENIENCY WILL BE SHOWN TO THE OFFENDERS. SUSPENSION AND OR WITHDRAWAL FROM THE HOSTEL/ COLLEGE IS ONE OF THE ACTIONS TAKEN PROMPTLY. SUPREME COURT HAS ALSO DEFINED RAGGING AS A CRIMINAL OFFENCE.
14. All hostel inmates must report any disciplinary matter or problems concerning them or their room-mate/ neighbour(s) coming to their notice to the Warden/ Chief Warden. In case their room-mate is absent from the room or is sick / admitted in the hospital or is in any kind of physical/mental trouble or is indulging in any bad practices the same must be immediately brought to the notice of the Warden or the Chief Warden.
15. No televisions are permitted to be kept in the hostel rooms by the students. Students have to watch TV in the common TV room provided in the hostels.
16. Security of ATM/Debit cards: All residents must take care of their ATM/ Debit cards. They must not disclose their PIN to anybody- even to their best friends.
17. Water is an essential but scarce commodity. All residents are requested to use water judiciously and preserve it. Leakage etc. in the bathrooms should be immediately reported to the Warden.
18. All complaints regarding repairs/maintenance in the Hostels must be entered personally by the students in Complaint Registers maintained in all the Hostels. All complaints are also monitored regularly by the Warden/Chief Warden.
19. Residents of the hostels are not permitted to convene meetings of any sort in the Hostel premises without the prior permission of the Warden/Chief Warden. Disobedience of this rule will be severely dealt with.
20. There are Suggestion Boxes kept in all the hostels for suggestions if any from the residents. Residents may drop their suggestions and complaints if any, duly signed with their names and roll numbers in these Suggestion Boxes which are opened periodically. Appropriate action will be taken on all suggestions/ complaints and a feedback given to the student(s). No cognizance of anonymous suggestions/ complaints will be taken.

21. The Warden and Chief Warden are available round-the-clock on telephone, and may be contacted in case of any emergency.
22. If a resident falls sick, he/ she or room-mate/friend must immediately inform the caretakers/ person on duty who will make arrangements to shift/ evacuate the student to the hospital and look after him/ her.All cases of sickness must be immediately reported to the Medical Officer, at the Out-Patient/Emergency/ Trauma Department of Pushpagiri Medical College for necessary treatment. In case a resident is quite unable to leave the room and go to the Hospital, the matter must be reported to the Warden**.** Information regarding any resident falling sick or getting admitted in the hospital must be relayed to the hostel/ college authorities on priority.
23. The use of mobile phones in the hostels is permitted only during the stipulated time as informed by the hostel wardens.

Anti – Ragging Committee 2018-19

The anti – ragging committee of the college for the academic year 2017-2018.

1. Chairman	:	Dr K. George Varghese Principal Mob: 9447021617
2. Civil Administration	:	Tahasildar, Thiruvalla Phone: 0469 2601302
3. Police Administration	:	Circle Inspector of Police, Thiruvalla Ph: 0469 2738100
4. Local Media	:	Saji Abraham, Deepika (Daily) Thiruvalla Mob: 09447263556
5. Non-Govt. Organisation	:	Shibu Puthukeril involved in youth activities President, Malankara Catholic YM, Thiruvalla Mob: 9447059400
6. Representatives of faculty members	:	Dr Benley George, Vice Principal Administration Mob: 09745015511
	:	Dr Aby Mathew T, Prof and HOD Dept. of Prosthodontics Mob: 9447507164
	:	Dr Biju sebastian, Vice Principal (Academics) Mob: 9446539062
	:	Dr Lisa Elizabeth Jacob, Senior Lecturer, Mob: 9446644648
7. Representatives of parents	:	Mr Saji M. Mathew Mob: 9497744080
	:	Mr Koshy. P. Koshy Mob: 9447261495
8.Representatives of students	:	Mr Tony Abraham Titty IV BDS Part I
	:	Ms Anisha Varghese III BDS
	:	Ms Aju George II BDS
9. Non teaching staff	:	Fr Aby Vadakkumthala, Director, Pushpagiri Medicity Mob: 9745355517

STUDENT MENTORS 2018-2019

I BDS	:	Dr Anuna Laila Mathew Mob: 9495017067 Dr Rene Kuriakose Mob:8281931828 Dr Rino Roopak Soman Mob: 9446552225
II BDS	:	Dr Haby Mathew Somson Mob: 9961719933
III BDS	:	Dr Sherin Sara George Mob:9207696406 Dr Vinesh U. Mob:8281377603
IV BDS Part I	:	Dr Manuja Nair Mob: 9946166811
IV BDS Part II	:	Dr Jacob George Mob: 9946768585 Dr Shibu Thomas Sebastian Mob: 9496213363

BUS TIMINGS FROM MEDICITY TO MEDICAL COLLEGE AND RETURN

Monday	8.00 a.m	4.00 p.m
Wednesday	8.00 a.m	1.00 p.m
Friday	8.00 a.m	3.30 p.m
Saturday	8.30 p.m	3.00 p.m

I BDS Examination Schedule

1st Internal Assessment Examination - 2nd week of January 2019

2nd Internal Assessment Examination – 3rd week of March 2019

3rd Internal Assessment Examination – 2nd week of June 2019

University Examination – July 2019

FLOOR MAP

LEVEL 1

Office of the Principal
Administrative Office
Dept. of Oral Medicine and Radiology
Store
Registration Room
Haematology Lab

LEVEL 2

Dept. of Oral and Maxillofacial Surgery
Lecture Hall – 1
Lecture Hall - 2

LEVEL 3

Dept. of Public Health Dentistry
Dept. of Pedodontics
Auditorium
Lecture Hall - 3

LEVEL 4

Dept. of Orthodontics
Dept. of Periodontics

LEVEL 5

Dept. of Conservative Dentistry
Dept. of Prosthodontics

LEVEL 6

Dept. of Oral Pathology
Lecture Hall – 4
Preclinical Labs
Conservative Dentistry
Prosthodontics
Orthodontics/Pedodontics

LEVEL 7

Library
Examination Hall – 1
Examination Hall - 2
Common Room – Boys
Common Room - Girls

FACULTY LIST

Designation & Dept.	Name	Qualification
Principal	Dr. K George Varghese	MDS
Department of Prosthodontics		
	Prof & Head Dr.Aby Mathew T	MDS
	Professor Dr. Suja Joseph	MDS
	Professor Dr. Annie Susan Thomas	MDS
	Senior Lecturer Dr Haby Mathew Somson	MDS
	Senior Lecturer Dr Rene Kuriakose	MDS
	Senior Lecturer Dr Albin Geo Joseph	MDS
Department of Conservative Dentistry and Endodontics		
	Professor & Head Dr. A. Devadathan	MDS
	Professor Dr. Baby James	MDS
	Reader Dr. Jose Jacob	MDS
	Reader Dr. Manuja Nair	MDS
	Senior Lecturer Dr. Minimol K Johny	MDS
	Senior Lecturer Dr. Rahul S.	MDS
Department of Oral Pathology		
	Professor & Head Dr Sunil S	MDS
	Reader Dr. Sharlene Sara Babu	MDS
	Sr. Lecturer Dr. Arjun Parameswar	MDS
	Sr. Lecturer Dr Tibin K Baby	MDS
Department of Oral & Maxillofacial Surgery		
	Professor and Head Dr K George Varghese	MDS
	Professor Dr. Eapen Thomas	MDS
	Reader Dr. Akhilesh Prathap	MDS
	Reader Dr.Vinesh U.	MDS
	Sr Lecturer Dr Nithin Pratap	MDS
	Sr Lecturer Dr Ravi Rajan Areekal	MDS
Department of Periodontics		
	Professor & Head Dr Thomas George	MDS
	Professor Dr Nebu George Thomas	MDS
	Reader Dr Annie Kitty George	MDS
	Assoc Prof Dr Jacob George	MDS
	Senior Lecturer Dr Soumya John	MDS
	Senior Lecturer Dr Prameetha George	MDS

Department of Orthodontics

Professor & HOD Vice Principal Academics	
Dr Biju Sebastian	MDS
Reader Dr. Navin Oommen Thomas	MDS
Reader Dr Jacob John	MDS
Senior Lecturer Dr Joe Joseph	MDS
Senior Lecturer Dr Vivek Suku Ninan	MDS
Senior Lecturer Dr Lijo John	MDS

Department of Pediatric Dentistry

Professor and Head Dr Elizabeth Joseph	MDS
Reader Dr Rupesh S	MDS
Reader Dr John Philip	MDS
Sr Lecturer Dr Sherin Sara George	MDS

Department of Oral Medicine

Professor & Head Dr Omal P.M.	MDS
Assoc Prof Dr Anuna Laila Mathew	MDS
Senior Lecturer Dr Lisa Elizabeth Jacob	MDS

Department of Public Health Dentistry

Reader& HOD & Vice Principal (Administration) Dr Benley George	MDS
Reader Dr Rino Roopak Soman	MDS
Senior Lecturer Dr Shibu Thomas Sebastian	MDS
Senior Lecturer Dr Vinod Mathew Mulamoottil	BDS MPH

Lecturers

Dr Anil Kurian	BDS
Dr Renjini V R	BDS
Dr Sherly Sajan Mathews	BDS
Dr Sheryl Elizabeth Kuriakose	BDS
Dr Renu Mathew	BDS
Dr Raji S Pillai	BDS
Dr Sunu Alice Cherian	BDS
Dr Thomas Abraham	BDS
Dr Ambil Sara Varghese	BDS
Dr Mahima James	BDS
Dr Immanuel Mathew Kurian	BDS

DEPARTMENT OF DENTISTRY - OP – PIMS & RC

Reader & HOD, Department of Dentistry Dr Jacob John	MDS
Dr Terin Boby	BDS
Dr Chinchumol Philip	BDS

LIST OF HOLIDAYS FROM AUGUST 2018 TO JULY 2019

Independence Day: 15th August (Wednesday)

Onam Holidays : 22nd August to 28th August

Including Bakrid

Re-Union Day : 21st September (Thursday)

Vijaya Dashami : 30th September (Saturday)

Gandhi Jayanti : 2nd October (Monday)

Deepavali : 18th October (Wednesday)

Christmas Holidays :
23rd December to 30th December

Republic Day : 26th January (Friday)

Holy Week : 28th March to 31 March

Wednesday to Easter Sunday

Dr. B. R. Ambedkar Jayanthi & Vishnu : 14th April (Saturday)

IDulfitr : 15th June (Friday)

St. Thomas day : 3rd July (Tuesday)

PARENTS' DECLARATION

I, ... hereby declare that I have gone through the rules and regulations for the BDS Pushpagiri College of Dental Sciences. I hereby agree that myself and my son/daughter ..... shall abide by all these rules and regulations. In case any Indiscipline / improper conduct occur from his / her side, he/she is liable to be punished. I fully understand such disciplinary actions shall not be revoked under any circumstance.

Date : Name

Signature

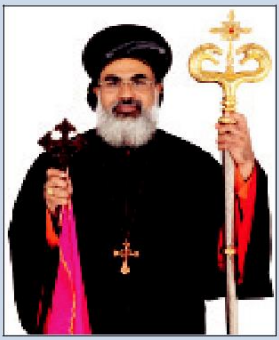
Details of the parent and / or guardian

Details	Parents	Local Guardian
Name	Father : Mother :	
Signature	Father : Mother :	
Permanent Address		
Address for communication		
Land Phone No.		
Mobile Phone No.	Father : Mother :	
E-mail Address	Father : Mother :	

Dr. K. George Varghese
Principal

ACADEMIC CALENDAR
2019-2020

Our Patron

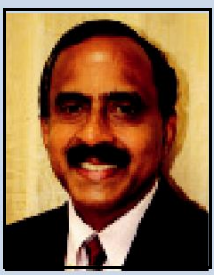


His. Grace. Most Rev. Dr. Thomas Mar Koorilos
Metropolitan Archbishop of Thiruvalla

Rev. Fr. Aby Vadakkumthala
Director Medicity

Rev Fr. Jose Kallumalickal
CEO

Rev. Dr. Mathew Mazhavancheril
Director
Academics and Research



Dr. K. George Varghese
Principal

Dr Benley George
Vice Principal
(Administration)

Dr Biju Sebastian
Vice Principal
(Academics)

CONTENTS

OUR VISION

'We Care God Cures'

OUR MISSION

To work towards a knowledge society with life in abundance through science and technology, improving health care for our immediate community, the state, the country and the world at large.

PUSHPAGIRI - A BRIEF HISTORY

The Catholic Church has been engaged in the ministry of healing all over the world for the past two thousand years. The same mission also drove the Founder fathers of Pushpagiri at Tiruvalla, Kerala. What started as a small clinic with eight beds in 1959 to cater to rural maternity care has now grown to a full fledged 1200 bedded, hi-tech super specialty Medical College Hospital.

Across a span of half a century, Pushpagiri has travelled forward with a renewed understanding and vision, ***'We Care God Cures'*** , which proclaims the faith of taking upon each others' burdens and humility before the divine providence from where all cure and healing happens. The unwavering commitment of the Church to provide value-based education also saw its results initially in Nursing Education at Pushpagiri, which began as early as 1964. Following the establishment of Pushpagiri Medical Society in 1992, on the road to improvisation and expansion, Pushpagiri saw a new beginning, a decade later, in 2002 with the starting of one of the first private medical colleges in Kerala - Pushpagiri Institute of Medical Sciences and Research Centre. In the past decade, Pushpagiri further went along to establish premiere institutions in the field of health care education for Nursing (2002), Pharmacy (2004), Dental Sciences (2006) and Allied Health Sciences (2008).

The Pushpagiri Medical Society, a society registered under the Travancore-Cochin Literary Scientific & Charitable Societies Registration Act of 1955, manages the College. The Archbishop of the Catholic Archdiocese of Tiruvalla Most. Rev. Dr. Thomas Mar Koorilos is the Patron of the Society and a seven

member governing board is the policy laying body of the Society. Rev Fr Jose Kallumalickal is the Secretary of Pushpagiri Medical Society. Rev. Fr. Aby Vadakkumthala is the Director of Pushpagiri Medicity. Dr. K. George Varghese is the Principal, Dr Benley George; the Vice Principal (Administration) and Dr. Biju Sebastian: the Vice Principal (Academics) of Pushpagiri College of Dental Sciences.

Pushpagiri College of Dental Sciences, recognized by the Dental Council of India and Ministry of Health & Family Welfare, Government of India was founded in 2006.The institution is the realization of the vision of the Management to provide quality Dental education to aspiring students of Kerala, a good percentage of these students hail from minority communities. The institution has an annual intake of 50 students in BDS course and 14 students in MDS courses.

Pushpagiri College of Dental Sciences ever since its inception had shown excellent academic achievements at the MG University and Kerala University of Health Sciences examinations.The first batch of Pushpagiri College of Dental Sciences secured a 100% pass result in the Final BDS Part II examination conducted by Mahatma Gandhi University, Kottayam. Pushpagiri College of Dental Sciences was the only dental college to achieve this feat among 7 other dental colleges affiliated to Mahatma Gandhi University, Kottayam. Ms Varsha Jeyaprakash, student of 2006 batch secured the first rank in the Final BDS Examination in 2011 conducted by Mahatma Gandhi University, Kottayam. The first batch of students admitted under Kerala University of Health Sciences secured the best pass result among all 22 dental colleges in Kerala. The 2013 batch of I BDS students secured 80% pass result in the examination conducted by Kerala University of Health Sciences in August 2014. Ms Jasmin Mary George secured the first rank in the I BDS examination conducted by Kerala University of Health Sciences in August 2014. Dr. Karun Koshy Cherian secured the second rank in the Final MDS examination(Orthodontics) conducted by Kerala University of Health Sciences in June 2017.

The institution had secured the first position among all 24 dental colleges affiliated to the University. The institution has consistently shown results par excellence in all examinations conducted by Kerala University of Health Sciences.

Pushpagiri College of Dental Sciences was elevated to the status of a Post Graduate Institute in 2013 with the commencement of 6 Post Graduate courses in the Departments of Prosthodontics and Crown & Bridge, Periodontology and Oral & Maxillofacial Surgery, Conservative Dentistry & Endodontics, Orthodontics & Dentofacial Orthopedics and Pedodontics and Preventive Dentistry which was approved by the Ministry of Health and Family Welfare, Government of India and Dental Council of India.

GOVERNING BODY MEMBERS OF PUSHPAGIRI MEDICAL SOCIETY

Patron: **H. G. Most Rev. Dr. Thomas Mar Koorilos**
Metropolitan Archbishop of Tiruvalla.

President: **Very Rev.Fr.Cherian Thazamon**
Vicar General, Catholic Archdiocese of Tiruvalla.

Vice President: **Dr. AbrahamVargheseV.**

Secretary: **Rev. Fr. Jose Kallumalickal**
(Chief Executive Officer,
Pushpagiri Group of Institutions).

Members: **Shri Jacob Punnoose**IPS (Retd.), Executive Director

Rev. Dr. Mathew Mazhavancheril,
Director, Academics and Research

Rev. Fr. Thomas Pariyarath,
Director, Pushpagiri Medical College Hospital

Mr. Varghese Alexander
Chartered Accountant, Alexander & Co., Tiruvalla

INSTITUTIONS UNDER PUSHPAGIRI MEDICAL SOCIETY

1. Pushpagiri College of Dental Sciences

Pushpagiri Medicity, Perumthuruthy, Tiruvalla

Tel. No. 0469 2645210; Fax 2645282

www.collegeofdentalsciences.pushpagiri.in

Email: dentalcollege@pushpagiri.in

2. Pushpagiri Institute of Medical Sciences & Research Centre

2.1.Pushpagiri Medical College Hospital

Tel. No. 0469 2700755, Fax 2701045
Email: info@pushpagiri.in www.pushpagiri.in

2.2. Pushpagiri Medical College

Tel. No. 0469 2733761; Fax 2600020
Email: pcm@pushpagiri.in www.pimsrc.edu.in

3. Pushpagiri College of Pharmacy Pushpagiri Medicity, Perumthuruthy, Tivuvalla

Tel. No. 0469 2645450; Fax 2645460
Email: pushpagiripharmacycollege@gmail.com
www.collegeofpharmacy.pushpagiri.in

4. Pushpagiri College of Nursing

Tel. No. 0469 2602441; Fax 2700168
email: pcon@pushpagiri.in

5. Pushpagiri College of Allied Health Sciences

Tel. No. 0469 2700755; Fax 2701044

6. Pushpagiri Centre for CGFNS & IELTS Training Tel. No. 9072555522; Fax 2701044

7. Pushpagiri Research Centre

Tel. No. 0469 2731005; Fax 2731005
email: prc@pushpagiri.in www.prc.pushpagiri.in

8. Pushpagiri Centre for Virology

Tel. No. 0469 2731005; Fax 2731005,

MANAGEMENT OF PUSHPAGIRI GROUP OF INSTITUTIONS

Rev. Fr. Jose Kallumalickal
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Email: administrator@pushpagiri.in

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academicdirector@pushpagiri.in

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Email: medicitydirector@pushpagiri.in

Rev. Fr. John Padipurackal
Director – Facilities Management
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Email: facilitydirector@pushpagiri.in

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Email: academicdirector@pushpagiri.in

Rev. Fr. Aby Vadakkumthala
Director- Pushpagiri Medicity Campus
Tel: +91 9495643763(M) +91 469 2645282, 2645450
Email: medicitydirector@pushpagiri.in

PRINCIPAL

Dr. K George Varghese
Principal
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+91 469 2645282 (O) Ext. 401(O) 403(Secy)
Email: georgekunthara@gmail.com

VICE PRINCIPAL

Dr. Benley George
Vice Principal (Admin)
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+91 469 2645282 (O), Ext. 402 (O)
Email: georgebenley@yahoo.co.in

Dr Biju Sebastian
Vice Principal (Academics)
Tel: +919446539062 (M)
+91 469 2645282
Email: drbijuseb00@gmail.com

CURRICULUM & RESEARCH COMMITTEE

Dr K. George Varghese
Principal
Dr Benley George
Vice Principal (Administration)
Dr Aby Mathew T
HOD. Dept. of Prosthodontics
Dr Suja Joseph
Professor, Dept. of Prosthodontics
Dr Thomas GeorgeV.
HOD, Dept. of Periodontics
Dr Eapen Thomas
Professor, Dept. of Oral and Maxillofacial Surgery
Dr A Devadathan
HOD, Dept. of Conservative Dentistry and Endodontics
Dr Baby James
Professor, Dept. of Conservative Dentistry and Endodontics
Dr Biju Sebastian
Vice Principal (Academics) & HOD, Dept. of Orthodontics
Dr S. Sunil
HOD, Oral Pathology
Dr Elizabeth Joseph
HOD, Pedodontics
Dr Omal P.M.
HOD, Oral Medicine and Radiology

Academic Programmes in Dental College

Undergraduate course	
BDS	50 seats
Postgraduate courses	
MDS (Prosthodontics and Crown and Bridge)	3 seats
MDS (Oral and Maxillofacial Surgery)	2 seats
MDS (Periodontics)	2 seats
MDS (Orthodontics)	2 seats
MDS (Conservative Dentistry)	3 seats
MDS (Pedodontics and Preventive Dentistry)	2 seats

Diploma – DORA Course 10 seats
(Permitted by Dental Council of India, Awaiting approval of Govt of Kerala)

BDS COURSE

2.1. Aims & Objectives of BDS Course

A. Aims:

To create a graduate in Dental Science who has adequate knowledge, necessary skills and such attitudes which are required for carrying out all the activities appropriate to general dental practice involving the prevention, diagnosis and treatment of anomalies and diseases of the teeth, mouth, jaws and associated tissues. The graduate should also understand the concept of community oral health education and be able to participate in the rural health care delivery programmes existing in the country.

B. Objectives:

The objectives are dealt under three headings namely (a) knowledge and understanding (b) skills and (c) attitudes.

(a) Knowledge and understanding

The student should acquire the following during the period of training.

1. Adequate knowledge of the scientific foundations on which dentistry is based and good understanding of various relevant scientific methods and principles of biological functions.
2. Adequate knowledge to evaluate and analyse scientifically various established facts and data.
3. Adequate knowledge of the development, structure and function of teeth, mouth, jaws and associated tissues both in health and disease and their relationship and effect on general state of health and also their bearing on physical and social well- being of the patient.
4. Adequate knowledge of clinical disciplines and methods, which provide a coherent picture of anomalies, lesions and diseases of the teeth, mouth and jaws.
5. Adequate knowledge on the preventive, diagnostic and therapeutic aspects of dentistry.
6. Adequate knowledge on laboratory steps involved in dental treatment.
7. Adequate clinical experience required for general dental practice.

8. Adequate knowledge of biological function and behavior of persons in health and sickness as well as the influence of natural and social environment on the state of health so far as it affects dentistry.

Skills

A Graduate should be able to demonstrate the following skills necessary for practice of dentistry:

1. Able to diagnose and manage various common dental problems encountered in general dental practice, keeping in mind the expectations and the right of the society to receive the best available treatment wherever possible.
2. Acquire skill to prevent and manage complications if any encountered while carrying out various dental surgical and other procedures.
3. Possess skill to carry out required investigative procedures and ability to interpret laboratory findings.
4. Acquire skill in laboratory procedures involved in dental treatment.
5. Promote oral health and help to prevent oral diseases wherever possible.
6. Competent in control of pain and anxiety during dental treatment.

Attitudes

A graduate should develop during the training period the following attitudes.

1. Willing to apply current knowledge of dentistry in the best interest of the patients and the community.
2. Maintain a high standard of professional ethics and conduct and apply these in all aspects of professional life.
3. Seek to improve awareness and provide possible solutions for oral health problems and needs throughout the community.
4. Willingness to participate in the continuing education programmes to update knowledge and professional skills from time to time.
5. To help and to participate in the implementation of national health programmes.

C. Goals of BDS Curriculum

On completion of the undergraduate training program the graduates shall be competent in the following. –

General Skills

Apply knowledge & skills in day to day practice. Apply principles of ethics.

Analyze the outcome of treatment.

Evaluate the scientific literature and information to decide the treatment.

- Participate and involve in professional bodies.
- Be capable of self-assessment and be willing to update the knowledge & skills from time to time.
- Inclined to do simple research projects.
- Acquire minimum computer proficiency to enhance knowledge and skills.
- Be aware of one's limitations and know when to refer patients to specialists.
- Be familiar with basic Forensic Odontology techniques and manage Geriatric dental problems.
- Death certification

ii. Practice Management

- Evaluate practice location, population dynamics & reimbursement mechanism.
- Able to communicate freely, orally and in writing with all concerned.
- Maintain records.
- Implement & monitor infection control and environmental safety programs.
- Practice within the scope of one's competence Communication & Community Resources.
- Assess patient's goals, values and concerns to establish rapport and guide patient care.
- Co-ordinate & supervise the activities of allied dental health personnel.

- Participate in improving the oral health of the individuals through community activities.

iii. Patient Care – Diagnosis

- Obtaining patient's history in a methodical way.
- Performing thorough clinical examination.
- Selection and interpretation of clinical, radiological and other diagnostic information.
- Obtaining appropriate consultation.
- Arriving at provisional, differential and final diagnosis.

iv. Patient Care - Treatment Planning

- Integrate multiple disciplines into an individual comprehensive sequenced treatment plan using diagnostic and prognostic information.
- Be able to order appropriate investigations.

v. Patient Care – Treatment

- Recognition and initial management of medical emergencies that may occur during Dental treatment.
- Perform basic cardiac life support.
- Management of pain including post operative.
- Administration of all forms of local anesthesia.
- Administration of intra muscular and venous injections.
- Prescription of drugs, pre operative, prophylactic and therapeutic requirements.
- Uncomplicated extraction of teeth.
- Transalveolar extractions and removal of simple impacted teeth.
- Minor oral surgical procedures.
- Management of Oro-facial infections.
- Simple orthodontic appliance therapy.
- Taking, processing and interpretation of various types of intra oral radiographs.
- Various kinds of restorative procedures using different materials available.

- Simple endodontic procedures.
- Removable and basic fixed Prosthodontics.
- Various kinds of periodontal therapy.

D. Competencies Expected- Specialty wise

OR

ORAL MEDICINE & RADIOLOGY

- On completion of the undergraduate training programme the graduate should:
- Be able to identify the common dental problems like dental caries and periodontal disease and their sequelae
- Be able to differentiate the normal variations and oral mucosal lesions
- Be able to identify pre cancerous and cancerous lesions of the oral cavity and refer to the concerned specialty for their management.
- Have an adequate knowledge about common laboratory investigations and interpretation of their results.
- Have adequate knowledge about medical complications that can arise while treating systemically compromised patients and take prior precautions/ consent from the concerned medical specialist.
- To formulate a clinical diagnosis, order investigations, seek expert consultations to come to a final diagnosis and chart out a proper treatment plan for patients with oral lesions.
- Have adequate knowledge about radiation health hazards, radiation safety and protection.
- Be competent to take intra-oral radiographs and interpret the radiographic findings
- Gain adequate knowledge of various extra-oral radiographic procedures, TMJ radiography and sialography.
- Be aware of the importance of intra- and extra-oral radiographs in forensic identification and age estimation.
- Be familiar with jurisprudence, ethics and understand the significance of dental records with respect to law.

ORAL & MAXILLOFACIAL SURGERY

On completion of the undergraduate training programme the graduate should:

- Be able to apply the knowledge gained in the basic medical and clinical subjects in the management of patients with surgical problems.
- Be able to diagnose, manage and treat patients with basic oral surgical problem
- Have a broad knowledge of maxillofacial surgery and oral Implantology.
- Be familiar with legal, ethical and moral issues pertaining to patient care and communication skills.
- Have acquired the skill to examine any patient with an oral surgical problem in an orderly manner.
- Understand and practice the basic principles of asepsis and sterilization.
- Be competent in the extraction of the teeth under local anesthesia.
- Be Competent to carry out certain minor oral surgical procedures under Local Anesthesia like trans-alveolar extraction, frenectomy, Dentoalveolar procedures, simple impaction, biopsy, etc.
- Be Competent to assess, prevent and manage common complications that arise during and after minor oral surgery.
- Able to provide primary care and manage medical emergencies in the dental office.
- Be familiar with the management of major oral surgical problems and principles involved in the in-patient management.
- Be able to Certify Death

PERIODONTOLOGY

On completion of the undergraduate training programme the graduate should:

- Be able to diagnose the patient's periodontal problem, plan and perform appropriate periodontal treatment.
- Be Competent to educate and motivate the patient.

- Be Competent to perform thorough oral prophylaxis, subgingival scaling, root planning and minor periodontal surgical procedures.
- Give proper post treatment instructions and do periodic recall and evaluation.
- Be Familiar with concepts of osseointegration and basic surgical aspects of implantology.

CONSERVATIVE DENTISTRY AND ENDODONTICS

On completion of the undergraduate training programme the graduate should:

- Be Competent to diagnose all carious lesions.
- Be Competent to perform Class I and Class II cavities and their restoration with amalgam.
- Be able to restore class V and Class III cavities with glass ionomer cement.
- Be able to diagnose and appropriately treat pulpally involved teeth (pulp capping procedures).
- Be able to perform RCT for anterior teeth
- Be competent to carry out small composite restorations
- Understand the principles of aesthetic dental procedures

ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

On completion of the undergraduate training programme the graduate should:

- Understand about normal growth and development of facial skeleton and dentition.
- Be able to pinpoint aberrations in growth process both dental and skeletal and plan necessary treatment
- Be able to diagnose the various malocclusion categories
- Be able to motivate and explain to the patient and parent/guardian about the necessity of treatment
- Be able to plan and execute preventive orthodontics (space maintainers or space regainers)
- Be able to plan and execute interceptive orthodontics (habit breaking appliances)

- Be able to manage treatment of simple malocclusion such as anterior spacing using removable appliances
- Be able to handle delivery and activation of removable orthodontic/ myofacial appliances.
- Be able to diagnose and appropriately refer patients with complex malocclusion to the specialist.

PUBLIC HEALTH DENTISTRY

On completion of the undergraduate training programme the graduate should:

- Apply the principles of health promotion and disease prevention.
- Have knowledge of the organization and provision of health care in community and in the hospital service
- Have knowledge of the prevalence of common dental conditions in India
- Have knowledge of community based preventive measures
- Have knowledge of the social, cultural and environmental factors, which contribute to health or illness.
- Be able to administer hygiene instructions, topical fluoride therapy and fissure sealing.
- Be able to educate patients concerning the etiology and prevention of oral disease and encourage them to assure responsibility for their oral health.

PROSTHODONTICS AND CROWN & BRIDGE

On completion of the undergraduate training programme the graduate should:

- Be able to understand and use various dental materials.
- Be competent to carry out treatment of conventional Simple complete and partial removable dentures and anterior crowns.
- Be able to carry out Prosthodontic laboratory procedures.
- Be familiar with the concepts of osseointegration and the value of implant- supported Prosthodontic procedures.
- Be able to diagnose and appropriately refer patients requiring complex treatment procedures to the specialist

PAEDIATRIC AND PREVENTIVE DENTISTRY

On completion of the undergraduate training programme the graduate should:

- Be able to instill a positive attitude and behavior in children towards oral health and understand the principles of prevention and preventive dentistry right from birth to adolescence.

- Be able to guide and counsel the parents/guardian in regards to various treatment modalities including different facets of preventive dentistry.
- Be able to treat dental diseases occurring in child patient.
- Be able to manage the physically and mentally challenged / disabled children effectively and efficiently, tailored to the needs of individual requirement and conditions.

2.3 Medium of Instruction

The medium of Instruction and examinations of BDS course will be in English language.

2.4 General Outline of BDS Degree Course

1) The undergraduate course involves organisation of year-wise teaching program. However, this course, as a whole, should demonstrate integration of the basic sciences, clinical dentistry and practical or laboratory skills. The course should be designed and integrated in such a way as to permit smooth progression from pre-clinical to clinical phase. Collaboration should be encouraged between teachers of basic sciences, dental sciences and clinical subjects.

2) The undergraduate dental course consists of three main components. The first component consists subjects common to modern medicine and dentistry like anatomy, physiology, biochemistry and behavioral science, leading to pharmacology, pathology, microbiology and then on to general medicine and general surgery. The second component runs concurrently with the first and deals with special aspects of oral and dental tissues, oral biology and oral pathology. Finally, the third component based on the foundations of the first two, deals with the clinical and technical aspects of dentistry as is required for general dental practice.

3) The first component of the course is intended to provide initially, an appreciation of normal human structure, development, function and

behavior, leading to understanding of the diseases, its prevention and treatment.The main objective is to provide student with a broad knowledge of normal structures and functions of the body, the alterations which take place in disease with particular reference to those conditions in which medical and dental co- operation is essential for proper management. At this stage, the student should also be made aware of the social and psychological aspects of patient care with special reference to the relationship between dentist and patient.The behavioral sciences including both sociology and psychology should be introduced at the initial stages of the training program, much before the students actually deal with the patients.

4) The second component of dental undergraduate program includes instruction in the subjects dealing with dental and oral aspects to ensure a detailed knowledge of the structure and function of the dental and oral tissues.This enables the student to diagnose, prevent and treat the dental and oral diseases and disorders, which were not included in the first component. The subject of oral biology is to be introduced at this level to provide the students a comprehensive knowledge and application of oral physiology, microbiology, biochemistry and oral immunology. Students should be exposed to the basic aspects of forensic odontology at this stage of the course along with oral biology/oral pathology.

5) The third component of the course comprising the clinical and technical aspects of dentistry actually prepares the student to undertake total oral and dental health care of patients of all ages. The emphasis at this stage should be on the prevention of the various dental diseases and how to preserve natural teeth with their supporting structures. The importance of various preventive methods needs to be stressed. The significance of diagnosis of various dental and oral problems needs to be emphasized along with treatment planning before actual treatment procedures are undertaken. In addition to acquiring the knowledge, the students need to gain adequate clinical hands-on-experience in extractions and other minor oral surgical procedures, all aspects of Conservative Dentistry, Endodontics, Crown and Bridge, provision of partial and complete dentures, various periodontal therapeutic procedures and use of removable orthodontic appliances. Familiarity with various radiological techniques, particularly intra-oral methods and proper interpretation of the radiographs, is an essential part of this component of training and has application in clinical diagnosis, forensic identification and age estimation. Training in handling medico-legal cases including death certification should be imparted at this stage. Towards the final stage of the clinical training, each student should be involved in comprehensive oral health care or holistic approach to enable him or her to plan and treat patients as a whole, instead of piece-meal treatment provided in

each specialty.The aim of the undergraduate program should undoubtedly be to produce a graduate, competent in general dental practice.

6) The commitment towards the society as a whole needs to be stressed along with the knowledge and treatment skills gained. Instruction in public health dentistry should emphasise the sociological aspects of health care and palliative care particularly; oral health care, including the reasons for variation in oral and dental needs of different sections of the society. It is important to know the influence of social, behavioral, environmental and economic factors on oral and dental health. Students should be made aware of the National oral health Policy and the importance of being a member of the Health care team delivering medical and oral health care particularly among rural population. Students should also be encouraged to participate in simple research project work

7) The undergraduate curriculum stresses the significance of infection and cross infection control in dental practice. Aspects like sources of infection, measures to be adopted both general and specific for control, particularly the HIV and hepatitis is incorporated in the curriculum so that the graduates are aware of its significance and follow it in their practice.

8) The information technology has touched every aspect of an individual's personal and professional life.The University hence recommends that all undergraduates acquire minimum computer proficiency, which will enable them to enhance their professional knowledge and skills.

2.5 Duration & course of Study

1. The undergraduate dental training program leading to B.D.S. degree shall be of four and a half years duration in addition to one year compulsory paid rotating internship. During this period, the students shall be required to engage in full time study at a Dental college recognized or approved by the Dental Council of India. During the first four and a half years of undergraduate course, the instruction in clinical subjects should be at least for two and a half years.

2. Basic Medical & Dental Subjects

The basic medical and dental sciences comprise of Anatomy - Gross and Microscopic, Physiology, Biochemistry, Pharmacology, science of Dental Materials and Oral biology. Subjects like behavioral sciences, which would be useful to develop communication skills, should also be introduced in the first year itself and spread over the undergraduate course. An introduction to Public Health Dentistry also will be useful to develop the concept of commitment to community.The laboratory skills like pre-clinical Prosthodontics, Crown and Bridge, Conservative dentistry and Orthodontics is to be developed by the students.

Studying dental morphology also is a part of initial training. At the end of this period the student should be in a position to understand and comprehend in general the development, structure and function of the human body in both health and disease.

3. The instruction in basic dental sciences should include theoretical and practical aspects of oral anatomy and physiology, to provide a detailed knowledge of the form and structure of teeth, associated tissues and occlusal relationships. The study should also aim at development of a concept regarding physiological and biochemical processes relevant to oral cavity for better understanding of the changes that occur with the onset of disease in the oral cavity. The student should be made aware of the importance of various dental tissues in forensic investigation.

4. Clinical, Medical and Dental subjects:

The students should be introduced to clinics in the initial stage, preferably in the first year, as an observer to familiarize with clinical set-up and working. The period of instruction in the clinical subjects shall not be less than two and a half years full time. During this, the student shall attend a dental hospital, general hospital, community camps and satellite clinics, in order to obtain instruction and experience in the practice of dentistry. The main objective of training in clinical dental subjects is to produce a graduate, able and competent to recognize or diagnose various dental and oral diseases, to undertake general dental treatment, advice on the provision of specialized treatment available and finally advise the patient on prevention.The student should also understand the relationship between oral and systemic diseases.

5.The general medicine and surgery training should provide sufficient knowledge on human disease to enable the student to understand its manifestations as relevant to the practice of dentistry.This requires clinical teaching on patients and shall be carried out in inpatient and outpatient medical departments and specialist clinics.This clinical instruction should enable the student to understand and perhaps diagnose common systemic diseases, which have relevance to dental practice, by adopting a systematic approach of history taking and clinical examination. The student should also realize the significance of various general and special investigations in the diagnosis of diseases. The ability to recognize physical and mental illness, dealing with emergencies, effective communication with patients, and interaction with professional colleagues also become important aspects of this training.

6. All dental students should receive instruction in first-aid and principles of cardio-pulmonary resuscitation. The students should also attend to the accident and emergency department of a Medical hospital.

7. The purpose of the clinical training is to provide sufficient practical skill in all aspects of clinical dentistry. The instruction should also include patient management skills, treatment of patients of all ages with special reference to children (paediatric), very elderly (geriatric), medically compromised and disabled patients.

8. During the two and a half years of clinical course, the students should receive thorough instruction which involves history taking, diagnosis and treatment planning in all aspects of dentistry and should be competent on graduation to carry out all routine general procedures. In Oral & Maxillofacial Surgery, instruction should include the knowledge of various maxillofacial problems like injuries, infections and deformities of the jaws and associated structures. The clinical experience should include those procedures commonly undertaken in general practice like extraction of teeth, minor oral surgical procedure etc. In Conservative dentistry and Endodontics, Prosthodontics and Crown & Bridge and Periodontology students should be competent on graduation to carry out routine treatments like restorations of various types, endodontic procedures, removable Prosthodontics, and finally various kinds of periodontal therapy. In Orthodontics & Dentofacial Orthopaedics, students should carry out simple appliance therapy including myofacial appliances for patients. Students should also be able to appreciate the role of Dentofacial growth in the development and treatment of malocclusion. In addition, students should be aware of their limitations on graduation, need to refer patients for consultant opinion and/or treatment and also the need for postgraduate and continuous education programmes.

9. In Paediatric & Preventive Dentistry, the students should concentrate on effective management of the behavior of the child patient to instill a positive attitude, on efficacy of preventive measures and clinical management, including the treatment needs particularly for children with disabilities. In oral medicine and Radiology, the student should receive instruction in various common lesions, occurring in the oral cavity and its diagnosis with particular reference to oral cancer. All students should receive instructions and gain practical experience in taking various types of intra and extra oral radiographs and its processing and interpretation. They should be aware of the hazards of radiation and proper protective measures from radiation for the patient, operator and other staff. Since Paediatric dentistry involves the practice of various branches of clinical dentistry, training in Paediatric Dentistry is extended to Part II of the final year.

10.The successful control and management of pain is an integral part of dental practice. Upon graduation the students should be competent to administer all forms of local anesthesia. The value of behavioral methods of anxiety management should be emphasized. The students should also have the practical experience in the administration of intra-muscular and

intra-venous injections. Knowledge of pain mechanisms and strategies to control post- operative pain is essential for practice of dentistry.

11. Instruction should be given in dental jurisprudence, legal and ethical obligations of dental practitioners and the constitution and functions of Dental Council of India. Students should be made competent in the management of medico legal cases and death certification.

12. Infection and cross infection control assume significance in dental practice. The students should be made aware of the potential risk of transmission of various infectious diseases particularly HIV and hepatitis in the dental surgery. The students should be aware of their professional responsibility for the protection of the patients, themselves and their staff and the requirements of the health and safety regulations.

13. The subjects of Aesthetic dentistry, Oral Implantology, Behavioral sciences and Forensic Odontology have assumed great significance. Hence, these four specialties are incorporated into the undergraduate curriculum. The instruction and clinical training in aesthetic dentistry shall be carried out by the departments of Prosthodontics and Crown & Bridge and Conservative Dentistry & Endodontics. Similarly, the instruction and clinical training in Oral Implantology shall be done by the departments of Prosthodontics and Crown & Bridge, Oral & Maxillofacial Surgery, and Periodontology. The instruction in behavioral sciences should ideally commence before the students come in contact with the patients and shall be carried out by the departments of Public Health Dentistry and Paediatric and Preventive Dentistry. Forensic Odontology including procedures of death certification will be a part of Oral Pathology & Oral Microbiology, Oral Medicine & Radiology and Oral & Maxillofacial Surgery.

14. With increased life expectancy and treatment facilities, Palliative care has gained importance in the modern world. Palliative medicine is the branch of medicine involved in treatment of patients with advanced, progressive, life-threatening disease for whom the focus of care is maximising their quality of life through expert symptom management, psychological, social and spiritual support as part of a multi-professional team. Understanding the role of dental surgeon in the field of palliative care this subject is introduced in the syllabus to be handled by faculty under public health dentistry trained in palliative care.

SUBJECTS OF STUDY

1. General Human Anatomy including Embryology and Histology
2. General Human Physiology
3. Biochemistry, Nutrition and Dieteties
4. Dental Anatomy, Embryology and Oral Histology

I BDS SUBJECTS

1. GENERAL HUMAN ANOTMY INCLUDING EMBRYOLOGY AND HISTOLOGY

a) GOAL

The students should gain the knowledge and insight into, the functional anatomy of the normal human head and neck, functional histology and an appreciation of the genetic basis of inheritance and disease, and the embryological development of clinically important structures. So that relevant anatomical & scientific foundations are laid down for the clinical years of the BDS course.

b) OBJECTIVES:

i. Knowledge & understanding:

At the end of the 1st year BDS course in Anatomical Sciences the undergraduate student is expected to:

(1) Know the normal disposition of the structures in the body while clinically examining a patient and while conducting clinical procedures.

(2) Know the anatomical basis of disease and injury.

(3) Know the microscopic structure of the various tissues, a prerequisite for understanding of the disease processes.

(4) Know the nervous system to locate the site of lesions according to the sensory and or motor deficits encountered.

(5) Have an idea about the basis of abnormal development, critical stages of development, effects of teratogens, genetic mutations and environmental hazards.

(6) Know the sectional anatomy of head neck and brain to read the features in radiographs and pictures taken by modern imaging techniques.

(7) Know the anatomy of cardio-pulmonary resuscitation.

ii. Skills

1) To locate various structures of the body and to mark the topography of the living anatomy.

2) To identify various tissues under microscope.

3) To identify the features in radiographs and modern imaging techniques.

4) To detect various congenital abnormalities.

c) INTEGRATION

By emphasizing on the relevant information and avoiding unwanted details, the anatomy taught integrally with other basic sciences & clinical subjects not only keeps the curiosity alive in the learner but also lays down the scientific foundation for making a better doctor, a benefit to the society.

This insight is gained in a variety of ways:

i. Lectures & small group teaching

ii. Demonstrations

iii. Dissection of the human cadaver

iv. Study of dissected specimens

v. Osteology

vi. Surface anatomy on living individual

vii. Study of radiographs & other modern imaging techniques.

viii. Study of Histology slides.

ix. Study of embryology models

x. Audio-visual aids

Throughout the course, particular emphasis is placed on the functional correlation, clinical application & on integration with teaching in other bio dental disciplines.

d) AN OUTLINE OF THE COURSE CONTENT:

General anatomy: Introduction of anatomical terms and brief outline of various systems of the body.

i. Regional anatomy of head & neck with Osteology of bones of head & neck, with emphasis on topics of dental importance.

ii. General disposition of thoracic, abdominal & pelvic organs.

iii. The regional anatomy of the sites of intramuscular & intra vascular injections, & lumbar puncture.

iv. General embryology & systemic embryology with respect to development of head & neck.

v. Histology of basic tissues and of the organs of gastrointestinal, respiratory, Endocrine, excretory systems & gonads.

vi. Medical genetics

a) THEORY:100HOURS

THEORY

	TOPICS	HOURS
1	Introduction to anatomical terms, position, skin, superficial fascia and deep fascia	1
2	Simple epithelium, compound epithelium, Glandular epithelium	1
3	Scalp	1
4	Muscles of facial expression	1
5	Norma verticalis & Norma frontalis	1
6	Norma occiptalis & norma lateralis	1
7	Cervical vertebrae	1
8	Deep cervical fascia	1
9	Development of face	1
10	Brachial plexus	1
11	Classification of joints	1
12	Connective tissue	2
13	Cartilage	1
14	Bone	2
15	Muscle	1
16	Nervous tissue – Neurons, classification, regeneration, optic nerve, sciatic nerve, sensory & autonomic ganglia	2
17	Thyroid gland & development & developmental anomalies	1
18	Lymphatic drainage of head & neck.	1
19	Lacrimal apparatus & eyelid	1
20	Parotid gland & development	1
21	Dural venous sinuses – classification, cavernous sinus in detail	1
22	Pituitary gland and development & anomalies	1
23	Vascular tissue – Large artery, Medium sized artery, Large vein	1
24	Lymphatic tissue	2

	TOPICS	HOURS
25	Skin and its appendages – hair follicle – Sebaceous gland – sweat gland – nail	1
26	Anterior cranial fossa	1
27	Middle cranial fossa	1
28	Posterior cranial fossa	1
29	Parietal bone	1
30	Occipital bone	1
31	Frontal bone	1
32	Temporal bone	2
33	Norma basalis	2
34	General embryology – oogenesis	1
35	General embryology – spermatogenesis	1
36	General embryology – fertilization	1
37	General embryology – implantation bilaminar	1
38	General embryology – bilaminar germ disc	1
39	General embryology - Neural tube formation, trilaminar germ disc, neural crest, Intraembryonic mesoderm & its fate, Notochord	2
40	General embryology - Folding of embryo	1
41	General embryology - Placenta & foetal membranes	2
42	Pharyngeal pouches & cleft	1
43	Bony orbit	1
44	Muscles of mastication	1
45	Temporomandibular joint	1
46	Hyoglossus muscle and its relations	1
47	Mandible	2
48	Maxilla	2
49	Zygomatic & hyoid bones	1
50	Pharynx	2
51	Nasal cavity & its lateral wall	1
52	Larynx	2
53	Tongue and its development & developmental anomalies	1
54	Middle ear & development	1

	TOPICS	HOURS
55	Coats of the eye – uveal tract in detail	1
56	External features of spinal cord	1
57	Leptomeninges	1
58	Blood supply of brain	1
59	Medulla oblongata– external features	1
60	Pons – external features	1
61	Cerebellum	1
62	4th ventricle	1
63	Mid brain – external features	1
64	3rd ventricle	1
65	Cerebrum – Sulci, gyri and functional area	1
66	Lateral ventricle	1
67	Optic pathway	1
68	White matter of cerebrum and internal capsule	2
69	Basal ganglia	1
70	III Cranial Nerve & IV Cranial nerves	1
71	V Cranial nerve & VI cranial nerves	1
72	VII cranial nerve	1
73	VIII, IX cranial nerves	1
74	X, XI, XII cranial nerves	1
75	Gastrointestinal system	2
76	Respiratory system	2
77	Cardiovascular system	2
78	Excretory system	2
79	Reproductive system – male (1 hr), female (1 hr)	2
80	Medical genetics – Mitosis, Meiosis, Chromosomes and anomalies	1
81	Medical Genetics - Gene structure and genetic disorders	1
82	Medical Genetics - Mode of inheritance	1

Sl. No.	SEMINARS
1.	Submandibular gland
2.	Nasal septum
3.	Soft palate
4.	Auditory tube
5.	Otic ganglion
6.	Pterygopalatine ganglion
7.	Submandibular ganglion
8.	Ciliary ganglion
9.	Ansa cervicalis
10.	Internal and external jugular veins
11.	Subclavian artery
12.	Autonomic nervous system
13.	Paranasal air sinuses
14.	Lingual artery
15.	Circle of Willis
16.	Choroid plexuses of the ventricles

a) PRACTICAL :175HOURS

Sl. No.	PRACTICALS
	HISTOLOGY
1.	Simple epithelium
2.	Compound epithelium
3.	Glandular epithelium
4.	Connective tissue
5.	Cartilage
6.	Bone
7.	Muscle
8.	Neuron – Optic Nerve - Peripheral Nerve
9.	Ganglia
10.	Blood vessels
11.	Lymphatic tissue – Lymph node, - Spleen, - Thymus, - Tonsil
12.	Skin – Thin skin, Thick skin
13.	Placenta & Umbilical cord
14.	Trachea & lung
15.	Spinal cord, Cerebellum, Cerebrum
16.	Cornea & Retina
17.	Thyroid & Parathyroid gland
18.	Suprarenal & Pituitary glands
19.	Kidney, Ureter, Urinary bladder
20.	Ovary, Corpus luteum, Testis
21.	Tongue – filiform, fungiform, circumvallate papillae
22.	Salivary glands – Mucous – Serious – Mixed
23.	Liver, Pancreas
	DISSECTION
24.	Introduction to dissection
25.	Scalp
26.	Superficial dissection of face – muscles of face
27.	Side of the neck & Posterior triangle
28.	Back of the neck – suboccipital triangle

29. Anterior triangle
30. Deep dissection of the neck – Thyroid gland parathyroid gland trachea, oesophagus, Brachiocephalic trunk, Subclavian artery Bracheiocephalic vein Thoracic duct. Cervical pleura Neurovascular bundle of the neck, Sympathetic chain, Scalene muscles; Cervical fascia
31. Lymph nodes & lymph vessels of head & neck
32. Prevertebral region – Vertebral artery – Vertebral vein
33. Deep dissection of face – Facial artery – Other vessels -Nerves
34. Structures in the cheek & lips
35. Eyelid & lacrimal apparatus
36. Parotid region
37. Cranial cavity –meninges Dural folds, Venous sinuses
38. Anterior cranial fossa
39. Middle cranial fossa – Pituitary gland
40. Posterior cranial fossa
41. Orbit – structures in the orbit
42. Temporal and infratemporal regions
43. Submandibular region
44. Mouth and pharynx
45. Soft palate and Auditory tube
46. Cavity of the nose
47. Larynx
48. Tongue
49. Organs of hearing & equilibrium – External ear – Middle ear – Internal ear
50. Eye ball
51. Joints of the neck
52. Spinal Cord
53. Introduction to brain
54. Meninges of brain
55. Blood vessels of brain
56. Base of brain
57. Hind brain –Medulla

58. Hind brain – Pons
59. Hind brain – Cerebellum
60. 4_{th} ventricle
61. Midbrain
62. Cerebral hemispheres
63. White matter of cerebrum
64. 3rd ventricle
65. Lateral ventricle
66. Thalami – Optic tract
67. Deep dissection of cerebral hemisphere & Internal capsule
68. Deep nuclei and connections of thalamus

DEMONSTRATION OF SPECIMENS

69. Thoracic wall Chambers of heart Coronary arteries Pericardium
70. LungsPleural cavity Diaphragm
71. Abdomen – Peritoneal cavityOrgans in abdominal & pelvic cavities

CLINICAL PROCEDURES

72. Intramuscular injections Deltoid muscleGluteal region Quadriceps femoris
73. Intravenous injection Median cubital vein Cephalic veinBasilic veinLong saplenous vein Short saplenous vein
74. Arterial pulsations Superficial temporal FacialCarotid Brachial Radial Femoral Dorsalis pedisLumbar puncture

g) SCHEME OF EXAMINATION

Distribution of Topics and Type of Questions for University Written examination:

Contents	Types of Questions and Marks	Marks
Questions from any topic included in the theory syllabus	Structured Essays 2x 10 marks	20
Questions from any topic included in the theory syllabus Except from the topics from which the long essays have been set	Short Notes Essays 4 x 5 marks	20
	Brief Notes 10x3 marks	
	Total	30
		70

i. Theory

UniversityWritten	70 Marks
Internal Assessment	10 Marks
Viva Voce:	
Examiner 1-Gross Anatomy- Examiner 2-Osteology, Surface Marking & embryology	20 Marks

ii. Practicals:

University Practical Examination:	80 Marks
Gross Anatomy including osteology Spotters (2 mark each) 2x 15	30 Marks
Discussion on Dissected parts (2 Specimens) 2x15	30 Marks
Histology –spotters (10 slides) 2x10	20 Marks
Internal Assessment:	20 Marks
Grand Total	200Marks

2. GENERAL HUMAN

PHYSIOLOGY a) GOAL

The broad goal of the teaching undergraduate students in Physiology aims at providing the student comprehensive knowledge of the normal functions of the organ systems of the body to facilitate an understanding of the physiological basis of health and disease.

b) OBJECTIVES

i. Knowledge

At the end of the course, the student will be able to:

(1) Explain the normal functioning of all the organ systems and their interactions for well co-ordinated total body function.

(2) Assess the relative contribution of each organ system towards the maintenance of the milieu interior.

(3) List the physiological principles underlying the pathogenesis and treatment of disease.

ii. Skills

At the end of the course, the student shall be able to:

(1) Conduct experiments designed for the study of physiological phenomena.

(2) Interpret experimental and investigative data

(3) Distinguish between normal and abnormal data derived as a result of tests which he/she has performed and observed in the laboratory.

iii. Integration

At the end of the integrated teaching the student shall acquire an integrated knowledge of organ structure and function and its regulatory mechanisms.

c) THEORY: 120 Hours

	Hours
1. GENERAL PHYSIOLOGY	**4**
Homeostasis: Basic concept, Feedback mechanisms Structure of cell membrane, transport across cell membraneBody fluid Compartments: distribution of total body water, intracellular & extracellular compartments, major anions & cations in intra and extra cellular fluid. Membrane potentials. RMP & Action Potential.	

2. BLOOD: 15

Composition & functions of blood, Plasma proteins - Types, concen-tration, functions & variations, Erythrocyte: Morphology, functions & variations.Erythropoiesis & factors affecting erythropoiesis, ESR- factors affecting, variations & significance.Haemoglobin - Normal concentration, method of determination [P] & variation in concentration, functionsAnaemia - Definition, classification, life span of RBC's destruction of RBC's, formation & fate of bile pigments, Jaundice - types.Leucocytes: Classification, number, percentage, distribution morphology, proper-ties, functions & variation. Role of lymphocytes in immunity, life span &fate of leucocytes. [Mention Leukemia]Thromobocytes - Morphol-ogy, number, variations, function.Haemostatsis – Role of vasoconstric-tion, platelet plug formation in haemostasis, coagulation factors, intrinsic & extrinsic pathways of coagulation, clot retraction.Fibrinolytic system.Tests of haemostatic function, platelet count, clotting time, bleeding time, prothrombin time - normal values, method & variations. Anticoagulants - mechanism of action.Bleeding disorders.Blood groups: ABO & Rh system, method of determination, importance, indications & dangers of blood transfusion, blood substitutes.[mention only] Blood volume: Normal values, variations.Functions of reticulo-endothelial system. Specific gravity,Packed cell volume,Methods of estimation [in practicals]Blood Indices - MCV, MCH, MCHC - definition, normal values, variation. LeucopoiesisThrombopoiesis.

3.MUSCLE AND NERVE 8

Classification of nerves,Structure of skeletal muscle - Molecular mechanism of muscle contraction, Neuromuscular junction and NM transmission. Properties of skeletal muscle.Structure and properties of cardiac muscle & smooth muscle.

4. DIGESTIVE SYSTEM : 10

Introduction to digestion: General structure of G.I. tract, Innervation.

Salivary glands: Saliva: composition, regulation of secretion & functions of saliva.Stomach: Composition and functions of gastric juice, mechanism and regulation of gastric secretion. HCl secretion. Physiological basis of Peptic ulcer management [briefly]Exocrine Pancreas - Structure, composition of pancreatic juice, functions of each component, regulation of pancreatic secretion.Liver : structure , composition of bile, functions of bile Gall bladder: structure, functions.Small intestine - Composition, functions Large intestine

- Functions.Motor functions of GIT: Mastication, deglutition, gastric filling & emptying, movements of small and large intestine, defecation.

5. EXCRETORY SYSTEM : 8

Structure & functions of kidney, functional unit of kidney & functions of different parts. Juxta Glomerular apparatus. Special functional features of renal circulation.Formation of Urine: Glomerular filtration rate - definition, normal values, factors influencing G.F.R. Tubular reabsorption
- Reabsorption of sodium, glucose, water & other substances. Tubular secretion - secretion of urea, hydrogen and other substances. Countercurrent mechanisms.Micturition: anatomy & innervation of Urinary bladder, mechanism of micturition.Determination of GFR.Role of kidney in the regulation of pH of the blood. Urinary bladder: abnormalities.

6. SKIN AND TEMPERATURE REGULATION [basics only] 4

7. ENDOCRINOLOGY 14

General endocrinology - endocrine glands & hormones. Second messengers. Endocrine function of hypothalamus.Hormones of anterior pituitary & their actions, Disorders of secretion of anterior pituitary hormones.Posterior pituitary hormones: actionsThyroid: secretion & transport of hormones, actions of hormones, regulation. Adrenal cortex & Medulla- action,Other hormones - Angiotensin, local hormones Pancreatic HormonePTHEndocrine Disorders to be taught with each gland.

8. REPRODUCTION 6

Physiological anatomy of male and female sex organs, Gonadotropic hormones. Sex chromatin.Female reproductive system: Menstrual cycle, functions and hormones of ovary. Ovarian and uterine changes during menstrual cycle.Actions of oestrogen &Progesterone control of secretion of ovarian hormones, fertilization, implantation, maternal changes during pregnancy and parturition. Lactation, milk ejection reflex.Male reproductive system, spermatogenesis, hormones-testosterone. Semen. Contraception.

9. CARDIO VASCULAR SYSTEM 15

Functional anatomy and innervation of heart. Properties of cardiac muscle. Origin & propagation of cardiac impulse and Pacemaker potential. Action potential.Cardiac cycle - Phases, Pressure changes in atria, ventricles & aorta. Volume changes in ventricles. Heart sounds.Jugular venous pulse Arterial pulse.Electrocardiogram- Basic principles only. Normal electrocardiogram. Heart rate: Normal value, variation.Stroke volume

and Cardiac output: definition, normal values, variations, factors affecting.Arterial blood pressure: Definition, normal values, variations, determinants. Regulation of heart rate, stroke volume, blood pressure: integrated concept. Coronary circulation: special features. Cardiac murmursCardiac output: one method of determination Cardio vascular homeostasis in exercise & posture.

10. RESPIRATORY SYSTEM **12**

Physiology of Respiration: External & internal respiration. Functional anatomy of respiratory passage & lungs. Respiratory movements: Muscles of respiration, Mechanism of inflation & deflation of lungs. Intra pleural & intra pulmonary pressures & their changes during the phases of respiration. Mechanics of breathing - surfactant, compliance & work of breathing [basics only].Spirometry: Lung volumes & capacities definition, normal values, significance, factors affecting vital capacity, variations in vital capacity, Pulmonary ventilation- alveolar ventilation & dead space - ventilation.Pulmonary circulation: Functional features. Composition of inspired air, alveolar air and expired air.Exchange of gases: Diffusing capacity, factors affecting it.Transport of Oxygen & carbon dioxide in the blood. Regulation of respiration- neural & chemical.Hypoxia, cyanosis, dyspnoea, periodic breathing. Artificial respiration.FEV & its variations. Pulmonary function testsRespiratory changes during exercise.

11. CENTRAL NERVOUS SYSTEM **10**

Organisation of central nervous system Neuronal organisation at spinal cord level, Synapse: functional significance.Receptors, reflexes, sensations and sensory tracts, motor system Physiology of pain. Referred pain.Analgesia systems.Functions of thalamus, cerebellum. Vestibular apparatus [basics only] Cerebral cortex: Basics of higher functions.Formation and functions of CSF: clinical significance. Autonomic nervous system.

12. SPECIAL SENSES **14**

Fundamental knowledge of vision, hearing, taste and smell. Errors of refraction.Tests of auditory function.

d) PRACTICALS

The following list of practical is minimum and essential.The entire practical have been categorized as procedures and demonstrations.The procedures are to be performed by the students during practical classes to acquire skills. All the procedures are to be included in the University practical examination.Those categorized as demonstrations are to be shown to the

students during practical classes. However these demonstrations would not be included in the University examinations but question based on this would be given in the form of charts, graphs and calculations for interpretation by the students.

Practicals & demonstrations: 60 hours

Practicals	**Hours**
Study of Microscope and its uses	02
Collection of blood and study of haemocytometer	02
Haemoglobinometry	02
Determination of RB count	08
Determination of WBC count	04
Determination of blood groups	02
Leishman's staining and differential leucocyte count	10
Calculation of blood indices	02
Determination of bleeding time	01
Determination of clotting time	01
Blood pressure recording	03
Auscultation of Heart sounds	02
Demonstrations	
Determination of Erythrocyte Sedimentation rate(ESR)	02
Determination of packed cell volume(PCV)	02
Determination of specific gravity of blood	02
Fragility test for RBC	02
Clinical examination of Cardiovascular and Respiratory System	03
Determination of vital capacity	02
Artificial respiration	02
Demonstration of deep and superficial reflexes	02
Activity of frog's heart and effects of Acetylcholine, Atropine and	02
Electrocardiography: Demonstration of recording of normal Electro	02
Total	**60**

e) SCHEME OF EXAMINATION *Types of Questions for written examination*

Type of Questions	**Marks**
Structured Essays 1x 10 marks	10
Short Notes 2 x 5 marks	10
Brief Notes 5 x 3 marks	15
Total	**35**

i. *Theory:*

University written Examination:	**35Marks**
University Viva:	**10Marks**
Internal Assessment:	**5 Marks**
Total:	**50 Marks**

ii. Practicals:

Internal Assessment:	**10 Marks**
University Practicals:	**40Marks**
Total:	**50 Marks**
Grand Total	**100Marks**

Mark distribution for University practical examination

Major Experiments: **20Marks**

Any one of the Major Experiments: R.B.C. Count, W.B.C. Count, Differential Count, Blood Pressure Recording

Minor Experiments: **15Marks**

Any one of the minor Experiments: Determination of Blood Groups, Determination of Bleeding & Clotting time, Haemoglobin Estimation, Calculation of absolute Hematological Indices–MCH, MCV, MCHC

Practical Work record: **5 Marks**

3. BIOCHEMISTRY, NUTRITION AND DIETETICS a) AIMS AND SCOPE

The major aim is to provide a sound but crisp knowledge on the biochemical basis of the life processes relevant to the human system and to dental/medical practice.The contents should be organized to build on the already existing information available to the students in the pre-university stage and reorienting. A mere rehash should be avoided.

The chemistry portion should strive towards providing information on the functional groups, hydrophobic and hydrophilic moieties and weak valence forces that organise macromolecules. Details on structure need not be emphasised.

Discussion on metabolic processes should put emphasis on the overall change, interdependence and molecular turnover. While details of the steps may be given, the student should not be expected to memorise them. An introduction to biochemical genetics and molecular biology is a must but details should be avoided. The exposure to antivitamins, antimetabolites and enzyme inhibitors at this stage, will provide a basis for the future study of medical subjects.An overview of metabolic regulation is to be taught by covering hormonal action, second messengers and regulation of enzyme activities. Medical aspects of biochemistry should avoid describing innumerable functional tests, most of which are not in vogue. Cataloguing genetic disorders under each head of metabolism is unnecessary. A few examples which correlate genotype change to functional changes should be adequate.

At the end of the course the student would be able to acquire a useful core of information, which can be retained for a long time.

b) THEORY: 70 HOURS

No.	TOPIC	HOURS ALLOTTED
I	**CARBOHYDRATES**	**12 hours**
	Definition, biological importance and classification. Monosaccharide's –Glucose, fructose, galactose, mannose	1
	Reactions: reducing property, oxidation, osazone, Molisch test. Define anomerism, epimerism with examples.	1
	Disaccharides-lactose, maltose, sucrose, Glycosidic bond, amino sugars, deoxy sugars	1
	Polysaccharides. Structures of starch and glycogen, Muco polysaccharides (definition, name, components, biochemical	1
	significance. nature of linkages not required) Dietary fibers. Digestion and absorption of carbohydrates. associated disorders(in brief)	1
	Glycolysis, fates of pyruvate Gluconeogenesis.	2

Glycogenesis, glycogenolysis,	2
Significance of pentose phosphate pathway. Importance of glucuronic acid.	1
Regulation of blood glucose. Diabetes mellitus: impaired fasting glucose, impaired glucose tolerance, gestational diabetes mellitus. Evaluation of glycemic status.	2

2 LIPIDS **9 hours**

Definition, biological importance and classification. Fats and fatty acids. Essential fatty acids. Introduction to compound lipids.	
Cholesterol.	2
Digestion and absorption of lipids	1
Beta oxidation of fatty acids	1
Fatty acid synthesis, (in brief)	1
Ketone body formation and utilization	1
Outlines of cholesterol synthesis and compounds formed from cholesterol	1
Plasma lipoproteins: Formation, function and dyslipidemia, Atherosclerosis.	2

3 ENZYMES **6 hours**

Definition, classification, specificity and active site. Cofactors.	1
Factors affecting enzyme action	2
Enzyme inhibition	2
Clinical important enzymes- AST,ALT,ALP,PSA, LDH,CK,G6PD,GGT	1

4 PROTEINS **9 hours**

Amino acids: Classification. Introduction to peptides, peptide bond Proteins: Classification. Charge properties. Buffer action. Levels of protein organization Denaturation.	3
Digestion and absorption of proteins. Nitrogen balance. Essential amino acids. Protein quality and requirement (methods for evaluation of protein quality to be excluded). Protein-calorie malnutrition, Balanced diet.(in brief)	2
Formation of Ammonia and Urea cycle.	1
Reactions of amino acids-transamination, trans methylation, trans sulfuration (in brief)	1
Compounds formed from glycine	1
Biologic importance of aromatic amino acids, sulphur containing amino acids, Aminoacidurias (in brief)	1

5 INTEGRATION OF METABOLISM **2hours**

High energy compounds, Electron transport chain and oxidative phosphorylation.

6 VITAMINS **5 hours**

Fat soluble vitamins A,D,E,K, sources, functions, daily requirements, deficiency, Toxicity 2

Water soluble vitamins B, C, sources, functions, daily requirements, deficiency, Toxicity 3

7 ACID BASE BALANCE **4 hours**

Buffers, respiratory and renal regulation, disorders, analysis

8 MINERALS **6 hours**

Classification, daily requirement. Calcium and phosphorous: sources, uptake, excretion, function. Serum calcium regulation. 2

Iron: sources, uptake and transport. Heme and nonheme iron functions; deficiency 2

Iodine: Brief introduction to thyroxine synthesis. General functions of thyroxine.

Fluoride: function, deficiency and excess 1

Indications of role of other minerals 1

9 HAEMOGLOBIN **3 hours**

Structure, synthesis, degradation 1

Hemoglobinopathies 1

Jaundice 1

10 PLASMA PROTEINS **2 hours**

Classification and separation. Functions of albumin. immunoglobulins. Biochemistry of AIDS.

11. LIVER FUNCTION TESTS **1 hours**

12. KIDNEY FUNCTION TESTS **1 hours**

13. MOLECULAR BIOLOGY **8 hours**

Nucleic acids: Building units. Nucleotides. Outline structure of DNA and RNA. 2

Formation and degradation of nucleotides. (in brief) Gout. Lesch- nyhan syndrome 2

Replication. Transcription. (in brief) Antimetabolites

and antibiotics interfering in replication, transcription	2
Outline of translation process.	2

14. Techniques-colorimetry, ELISA, RIA **2 hours**

c) PRACTICALS,DEMONSTRATION& SEMINAR: 60 hours

i. Practical: 45 hours

Sl.No.	Procedure	Hours
1.	Introduction to lab procedures	1
2.	Normal & abnormal constituents of urine	12
3.	Introduction to clinical chemistry	2
4.	Estimation of blood urea	2
5.	Estimation of serum protein	2
6.	Estimation of blood sugar	2
7.	Estimation of serum creatinine	2
8	Estimation of serum albumin	2

ii. Demonstration: 20 hours

Sl.No.	Procedure	Hours
1.	Electrophoresis	2
2.	Chromatography	2
3.	GTT charts	2
4.	LFT charts	2
5.	Revision	3

iii. Seminars: 15 hours

SCHEMEOF EXAMINATION

Types of Questions for written examination

Type of Questions	**Marks**
Structured Essays 1x 10 marks	10
Short Notes 2 x 5 marks	10
Brief Notes 5 x 3 marks	15
Total	**35**

i. *Theory:*

University written Examination:	**35Marks**
University Viva:	**10Marks**
Internal Assessment:	**5 Marks**
Total:	**50 Marks**

ii. Practicals:

Internal Assessment:	**10 Marks**
University Practicals:	**40Marks**
Total:	**50 Marks**
Grand Total	**100Marks**

Mark distribution for University practical examination;

One procedure for quantitative estimation	15marks
One procedure for qualitative analysis	20marks
Practical Work record:	5 Marks

The following Procedures are suggested for University Practical Examination:
Quantitative Estimation (Any ONE estimation to be done)

Estimation of blood sugar/serum creatinine/blood urea/serum protein/ serum albumin

Qualitative Analysis (Any ONE analysis to be done)
Urine Analysis–normal constituents Report of abnormal urine

4. DENTALANATOMY, EMBRYOLOGY AND ORAL HISTOLOGY

a) INTRODUCTION:
The course includes instructions in the subject of Dental Morphology, Oral Embryology, Oral Histology and Oral Physiology. A composite study of basic Dental Sciences & their clinical applications.

b) SKILLS
e student should acquire basic skills in:
Carving of crowns of permanent teeth in wax. Microscopic study of Oral tissues.
Identification of Deciduous & Permanent teeth
Age estimation by patterns of teeth eruption from plaster casts of differ-ent age groups.

c) OBJECTIVES

r a course on Oral Biology,

The student is expected to appreciate the normal development, morphology, structure & functions of oral tissues & variations in different pathological/ non- pathological states. The student should understand the histological basis of various dental treatment procedures and physiologic ageing process in the dental tissues.

The students must know the basic knowledge of various research methodologies

d) COURSE CONTENT

i. Theory: 105 hours

DENTALANATOMY	**HOURS**
1. Introduction, Dental Anthropology & Comparative Dental Anatomy	
2. Function of teeth.	**3**
3. Nomenclature.	
4. Tooth numbering systems (Different system) (Dental formula).	
5. Chronology of deciduous and permanent teeth. (First evidence of calcification, crown completion, eruption and root completion).	**2**
6. Deciduous teeth - a) Nomenclature. b) Importance of deciduous teeth.c) Form & function, comparative dental anatomy, fundamental curvature	**4**
7. Gross morphology of deciduous teeth.	**5**
8. General differences between deciduous and permanent teeth.	**1**
9. Morphology of permanent teeth.Chronology, measurements, description of individual surface and variations of each tooth.	**12**
10. Morphological differences between incisors, premolars and molars of same arch.	**1**
11. Morphological differences between maxillary and mandibular. incisors, canines, premolars and molars of the opposite arch	**1**
12. Internal Anatomy of Pulp.	**1**
13. Occlusion: a. Development of occlusion. b. Dental arch form. c. Compensating curves of dental arches. d. Angulations of individual teeth in relation to various planes. e. Functional form of the teeth at their incisal and occlusal thirds. f. Facial relations of each tooth in one arch to its antagonist or antagonists in the opposing arch in centric occlusion.g. Occlusal contact and interscusp relations of all the teeth	

of one arch with those in the opposing arch in centric occlusion. h. Occlusal contact and intercusp relations of all the teeth during the various functional mandibular **8** movements. i. Neurobehavioral aspect of occlusion

14. Temporo Mandibular Joint (T.M.J.):Gross Anatomy and articulation.Muscles (Muscles of mastication). Mandibular position and movements.Histology.
Clinical considerations with special emphasis on Myofacial Pain Dysfunction Syndrome (MPDS) - (Desirable to Know) **2**

ORAL PHYSIOLOGY

1. Theories of calcification **1**
2. Mastication and deglutition **1**

Oral Embryology, Anatomy and Histology:

1. Development and growth of face and jaws. **1**
2. Development of tooth. **3**
3. Cranial nerves with more emphasis on V.VII and IX. **1**
4. Blood supply, nerve supply and lymphatic drainage of teeth and surrounding structures **1**
5. Cell - structure and function **1**
6. Maxillary sinus - Structure, Variations, Histology function and clinical considerations
7. Salivary Glands - Classification, structure, function, Histology, Clinical Considerations and age changes. **4**
8. Oral Mucous membrane:Definitions, General consideration. Functions and classifications. Structure and microscopic appearance of gingiva, palate, lips, alveolar mucosa, tongue, floor of mouth. Gingival sulcus and dentogingival junction. **8**

Clinical considerations and age changes.

9. ENAMEL:Physical characteristics, chemical properties structure. Development - Life cycle of ameloblasts, Amelogenesis and Mineralisation. Clinical considerations. Age changes. **8**

10. DENTIN:Physical characteristics, chemical properties, structure.Types of dentin. Dentin innervation and hypersensitivity. Development - Dentinogenesis and mineralisation. Clinical considerations. Age Changes. **6**

11. PULP:Anatomy, structural features, functions, pulp organs. Developments. Clinical considerationAge changes. **6**

12. CEMENIUM:Physical characteristics, chemical properties, structure. Cementogenesis. Clinical consideration Age changes. **4**

13. PERIODONTAL LIGAMENT:Cells and fibers, Functions, Development, Clinical Considerations., Age Changes **5**

14. ALVEOLAR BONE:Physical characteristics, chemical properties structure. Structure, Development., Internal reconstruction, Clinical consideration. **5**

Tissue processing & Histochemistry **4**

THEORIES OF ERUPTION AND SHEDDING. **4**
(Physiological tooth movement)

ii. Practical: 250 Hours

DENTAL ANATOMY: Carving on wax blocks:-a. Individual tooth - Only permanent teeth of both arches.- Central, Incisors, Lateral, Canines, Premolars and 1st and 2nd molars

HISTOLOGY: List of Histology slides:**Development of tooth:**

1. Bud stage of tooth development.
2. Cap stage of tooth development.
3. Early bell stage of tooth development.
4. Late Bell stage of tooth development.
5. Root formation.

ENAMEL:

1. Enamel rod.
2. Hunter-Schreger Bands
3. Tufts, Lamellae, Spindles.
4. Incremental lines of Retzius.
5. Neonatal line.
6. Gnarled Enamel.

DENTIN:

1. Dentino - Enamel junction.
2. Dentinal Tubules.
3. Incremental lines of Von Ebner.
4. Contour lines of Owen.
5. Neonatal line.
6. Tomes granular layer.
7. Interglobular Dentin.
8. Secondary Dentin.
9. Intratubular Dentin.
10. Intertubular Dentin.

CEMENTUM:

1. Cellular cementum.
2. Acellular cementum.
3. Cemento enamel junction
   - Type 1 - 60% type - Overlapping.
   - Type 2 - 30% type - Butt
   - Type 3 - 10% type - Cementum & Enamel do not meet.
4. Sharpey's fibers.
5. Hypercementosis.

PULP:

1. Zones of Pulp.
2. Pulp stones.

PERIODONTAL LIGAMENT:

01. Principle fibers of Periodontal ligament
- Apical, Horizontal, Oblique, Alveolar crest, Interradicular, Transeptal

ALVEOLAR BONE:

1. Haversian system.
2. Trabeculated bone.
3. Mature and immature bone.

SALIVARY GLANDS:

1. Mucous gland.
2. Serous gland.
3. Mixed gland.

MAXILLARY SINUS:
Sinus lining (Pseudostratified ciliated columnar) (Desirable to know)

ORAL MUCOUS MEMBRAIN:

1. Parakeratinised epithelium.
2. Orthokeratinised epithelium.
3. Palate - Anterolateral zone.
4. Palate - Posterolateral zone.
5. Alveolar mucosa.
6. Vermilion border of lip.
7. Tongue - Circumvallate Papillae.
- Fungiform Papillae
- Filiform Papillae

Preparationof Ground sections, haematoxylin & Eosin sections & decalcified section

iii. Lecture demonstration:
Identification of Individual teeth
(1) Deciduous
(2) Permanent
(3) Mixed dentition using study models
(4) Demonstration of preparation of ground section, Decalcification, Paraffin section and H & E Staining.

e) SCHEME OF EXAMINATION

Distribution of Topics and Type of Questions for University written examination

Contents	Type of Questions and Marks	Marks
Dental anatomy - one question - 10 marks Detailed morphology of Permanent teeth, Differences between Primary & Permanent teeth, Occlusion and Arrangement of teeth.	Structured Essays 2x 10marks	20 marks
B. Oral histology - one question - 10 marks Development of tooth, Enamel-structure & development, Dentin-structure& development, Cementum, Dental pulp - structure & histology,	Short notes 4 x 5marks Brief Notes	20 marks

Periodontal ligament, Alveolar bone -structure & histology, Oral mucosa-structure & histology, Eruption of teeth

A. Oral histology - two questions - 10 marks B. Dental anatomy - one question - 5 marks C. Oral physiology - one question - 5 marks	Short Notes 4x5 marks 20marks

A. Oral histology - five questions - 15 marks B. Dental anatomy - three questions - 9 marks C. Oral embryology - two questions - 6 marks	Brief notes 10x3marks 30marks *Total 70 marks*

i. *Theory*

University written Examination:	70Marks
University Viva:	20Marks
Internal **Assessment:**	**10 Marks**

ii. Practicals:

Internal Assessment:	**20 Marks**
University Practicals:	**80Marks**
Grand Total	**200 Marks**

Mark Distribution for University Practical Examination:

Tooth Carving:(Time allotted 75 Minutes)	25 Marks
Spotters: (15X3 marks)	45 Marks
Practical work Record:	10 marks

Type of Spotters:

8 Histology and Ground Section slides
5 Tooth identification
2 Casts for identification of teeth, numbering system and age assessment

2.3. No. of hours per subject

I. BDS

Sl. No.	Subjects	Lecture (hrs)	Practical (hrs)	Clinical (hrs)	Total (hrs)
1.	General Human Anatomy including Embryology and Histology	100	175	—	275
2.	General Human Physiology	120	60	—	180
3.	Biochemistry, Nutrition and Dietetics	70	60	—	130
4.	Dental Anatomy, Embryology and Oral histology	105	250	—	355
5.	Dental Materials	20	40	—	60
6.	Pre clinical Prostho-dontics and Crown & Bridge	—	100	—	100
7.	Pre clinical Conser-vative Dentistry	—	100	—	100
	Total	**415**	**785**	**—**	**1200**

1. EXAMINATIONS

3.1 Eligibility to appear for University examinations a) Preface:

i. Evaluation is a continuous process, which is based upon criteria developed by with certain objectives to assess the performance of the learner. This also indirectly helps in the measurement of effectiveness and quality of the concerned B.D.S. programme.

ii. Evaluation is achieved by two processes

1) Formative or internal assessment

2) Summative or university examinations.

Formative evaluation is done through a series of tests and examinations conducted periodically by the institution.

Summative evaluation is done by the university through examination conducted at the end of the specified course.

b) Methods of evaluation:

Evaluation may be achieved by the following tested methods:

i. Written test

ii. Practical examination

iii. Clinical examination

iv. Viva voce

c) Eligibility criteria:

For a candidate to be eligible to write the university examination of an year of study for the first time he/she should have minimum 80% attendance in all the subjects in which examination is being held for the year of study and a minimum of 70% in Lectures and Practical/ Clinical separately in all the non-exam subjects for the year (Refer Section 1.8). However candi- dates with such 80% attendance in all the subjects of study for which university examination is held for a particular year will be eligible to at -tempt the university examination only in those subjects in which he/she has secured the minimum requirement of 40% of internal assessment marks. A candidate can reappear for university examination in the failed subjects provided he/she has secured minimum 70% attendance (theory & practi-cal separately) and have scored minimum 40% marks in internal assess-ment conducted for the subject during the supplementary period.

Schedule of regular/Supplementary examinations

The University examination for a subject shall be conducted twice in a year as per the schedule approved by the Board of Examinations at an interval of not less than four to six months as notified by the university from time to time.

Scheme of examination Showing Maximum and Minimum Marks

The scheme of examination for B.D.S. Course shall be divided into 1st B.D.S. examination at the end of the first, 2nd B.D.S. examination at the end of second, 3rd B.D.S. examination at the end of third and Final BDS Part I examination at the end of fourth academic year. The Final

B.D.S part II examination will be held on completing six months of the fifth academic year. The examination shall be open to a candidate who satisfies the requirements of attendance, progress and other rules governing the institution and The University.

1. Distribution of Marks

i. For each paper in which written examination is held: Theory

University written examination	70	
University Viva Voce	20	
Internal assessment	10	
Total	100	
Practical/ clinical		
University Practical/ Clinical examination		80
Internal assessment		20
Total		100

Aggregate marks for each paper	200

ii. For Preclinical Examination in Prosthodontics/Conservative Dentistry & Orthodontics

University Practical examination	60
Viva voce	20
Internal assessment Practical	20
Total	100

preclinical examination in each subject is to be conducted separately.

Details of theory examination (written)

1. The written examination in each paper will be of three hours duration and shall have maximum marks of 70. Type of Questions and Distribution of marks for written examination should be as given in table I given below.
2. The paper of Physiology & Biochemistry will be divided into two Sections, Section A (Gen. Physiology) and Section B (Biochemistry) of equal marks. Type of Questions and Distribution of marks for written examination should be as given in table II below.
3. The paper of Pathology & Microbiology will be divided into two Sections, Section A (Gen. Pathology) and Section B (Microbiology) of equal marks. Type of Questions and Distribution of marks for written examination should be as given in table III below.
4. The paper of Dental Materials will be divided into two Sections, Section A (Prosthodontics) and Section B (Conservative Dentistry) of equal marks. Type of Questions and Distribution of marks for written examination should be as given in table IV below.
5. The question paper should contain different types of questions like essay, short note and brief note.
6. The nature of questions should be aimed to evaluate students of different standards ranging from average to excellent.
7. The questions should cover as broad an area of content of the course as possible. The essay questions should be properly structured and the marks specifically allotted.

Table I.

Type of Question	No. of Question	Marks / Question	Total Marks
Structured Essay	2	10	20
Short note	4	5	20
Brief note	10	3	30
Grand Total			**70**

Table II.

Physiology and Biochemistry

Subject	*Type of Questions*	*No. of Questions*	*Marks of Questions*	*Total Marks*
Section A *Physiology*	*Structured Essay*	*1*	*10*	*10*
	Short note	*2*	*5*	*10*
	Brief note	*5*	*3*	*15*
GrandTotal				***35***

Rules & Regulations

GENERAL RULES OF PUSHPAGIRI COLLEGE OF DENTAL SCIENCES

General Behaviour

a) All students are expected to conduct themselves with decorum and discipline at all times and in all places. Each one should maintain the highest moral standard always and refrain from using foul language.

b) Students should report for classes punctually at 8 am.They should not loiter around during class hours and should refrain from noisy unruly behavior in the college and class rooms.

c) Students are not permitted to use mobile phones at all in the college campus.

d) Students are not allowed to bring any vehicles into the college campus or the hostels.

e) All assignments and other works given by teachers should be regularly done and submitted in time.

f) Students are expected to be polite and courteous in their behavior at all times.

g) Students should not deface or dirty the walls, benches or other furniture. Classrooms and surroundings should be kept tidy and clean. Litter should be put in the waste bins only.

h) For irregular attendance, disobedience, malpractice at exams or any action not conducive to the moral tone and discipline of the institution, a student may incur punishment including suspension or dismissal.

i) Hostels are out of bounds to the day scholars.

j) Students are responsible for any valuables/ cash carried by them and the institution will not be responsible for any loss sustained. However this may be reported to the Principal's office.

k) Any damage done to the college property should be paid for.

l) Any serious breach of discipline including discourtesy and disrespect to the staff/management/wardens in any way will be taken seriously.

m) Parents staying abroad should give the contact details of a responsible guardian who can take the entire responsibility of the ward, in the absence of the parent.

n) Gambling, smoking, consumption of alcoholic drinks, reading/ browsing of pornographic material, keeping or using of dangerous drugs is prohibited.

o) Ragging in ANY FORM is STRICTLY prohibited and any indulgence in such activity will result in IMMEDIATE EXPULSION. Ragging,

whether physical or psychological, is a criminal offence before the Indian Law, as detailed in 'The Kerala Prohibition of Ragging Act-1998' , Act 10 of 1998 published in Kerala Gazette Extra No.1007 dated 24/6/1998. The Principal will notify the offence to the police if deemed necessary, after consultation with the management.

p) Students are prohibited in getting engaged in political agitations, strikes or demonstrations of any kind. They should not put up or circulate notices, hold meetings or collect subscriptions of any sort, under any circumstances, anywhere in the college or hostel premises, without prior permission from the Principal.

Dress Code

Students should wear clean, neat and presentable Uniform clothing. Boys should be clean shaved.

Dress Code for Boys

- Uniform
- Shoes and Socks
- Clean white apron with name tag

Dress Code for Girls

- Uniform
- Closed foot wear
- Hair (beyond shoulder length) to be tied up
- Clean white apron with nametag

In case of violation of the dress code, the student concerned will be asked to leave the academic session.

Fees structure

Tution Fee

All students should remit the tution fees for the academic year within the stipulated time period. Late payment would result in fine.

College Caution Deposit

A one time refundable caution deposit should be paid at the time of admission.

Hostel Fee

Hostel fees should be paid for one full year at the time of admission.

Late payment would result in fine.

Hostel Caution Deposit

A one time refundable caution deposit should be paid at the time of admission. This shall be refunded once the student vacates the hostel.

Hostel Mess Fee

Hostel provides both vegetarian and non-vegetarian food for students. Students should pay the mess fee for 6 months inadvance. Students can avail reduction of mess fees if they are not in hostel for a minimum of 5 days.

Transportation Fee

Transportation is available for the students from Dental College to Medical College.

Mode of payment

Fees can be remitted as online transfer to the Pushpagiri College of Dental Sciences account or in the form of Demand Draft drawn in favour of Pushpagiri College of Dental Sciences payable at Thiruvalla.

Account Name : Pushpagiri College of Dental Sciences
Bank Name: The South Indian Bank Ltd
Branch: Medicity Branch, Perumthuruthy
A/c No. 0730053000001200
IFSC Code: SIBL0000730
Account Type: SB

Details for DD

In favour of Pushpagiri College of Dental Sciences
Payable at Perumthuruthy.

Academics

The medium of instruction is English. All students must be in possession of the identity cards provided by the college. Any loss should be promptly reported to the Principal. The cards must not be mutilated, defaced or rendered ineffective for identification. The card must be returned at the termination of course/withdrawal from the institute.

Students would be assigned assignments, project works, seminars, practical exercises during their academic curriculum. **Students should have a minimum of 80% attendance and 40% of internal assessment marks which is mandatory for appearing in the University examination. Internal assessment marks for a student in a subject will be calculated as the average of the marks obtained in the model examination(compulsory) and the highest among all other internal examinations in the subject. Any student who fails to achieve the required criteria would be ineligible for University examinations.**

Regular PTA meeting would be arranged for the interaction of the parent with the teachers to discuss the performance of their ward. Parents are requested to attend the scheduled PTA meetings without fail.

Students are advised to make full use of the central library available which has a large collection of books and latest journals.The library also has internet facility. Students are responsible for any textbooks, library books, or any equipment loaned to or used by them. If misused or damaged, students will be responsible for charges to repair or replace. Students should maintain perfect silence in the library.

Interfering or tampering any of the office records of college/ university is a serious offence and will result in suspension/ rustication.

Students can avail leave on special grounds only with prior permission of the HODs concerned.

Any student involved in or encouraging the involvement of another student in fighting will be suspended. Persistent involvement will result in expulsion from the college.

Ragging

Ragging within or outside the institution is prohibited. Students who directly or indirectly commits, participates in, abets or instigates ragging inside or outside the institution shall be suspended, expelled or rusticated from the institution. The punishment includes rigorous imprisonment, cancellation of admission, suspension from attending classes, withholding/ withdrawing fellowship/scholarship and other financial benefits.

Ragging includes display of noisy, disorderly conduct, teasing, rough or rude treatment, indulging in rowdy, undisciplined and obscene activities which cause or are likely to cause annoyance, undue hardship, physical

or psychological harm or mental trauma or raise apprehension or fear in a fresher or other students, or forcing a student to do any act which such a student is not willing to do or which causes him/ her shame or embarrassment or danger to his/her life or indulging in eve teasing. The students are reminded that ragging in educational institutions in the state of Kerala is a crime and punishable by imprisonment upto 2 years and a fine upto Rs 10000/- according to the Kerala Prohibition of Ragging Act 1998(Act 10 of 1998) the offending students also invite expulsion from the college and are banned from admission to any college for a period of 3 years.

All students should file an online affidavit through the website www.antiragging.in or www.amanmovement.org.The online affidavit should be signed by the student and parent and submitted to the college office at the time of admission.

Information for Students

1. To become a good professional, the student should be very clear in his/her ambition and set appropriate goals for themselves.
2. The priorities for the day should be clear in the mind.
3. Proper time management is very essential (with proper time management a student can easily have 3 hours of relaxation per day and read for 5 hours per day).
4. Mind and body should be kept active. Priorities and ambition may be forgotten if relaxation is overdone.
5. Attendance and internal assessment are two valuable tools to monitor the academic progress of a student. To avoid anxiety and tension before exam one should maintain a good record of attendance and internal assessment. Though 100% attendance is essential, 20% absenteeism is permitted to cover ill health and family commitments.
6. It is advisable that students stay only in hostels. When in hostels, they are expected to abide by the hostel rules and regulations. It is mandatory for students to keep the warden informed of their visits to a friend or relative or if he or she is going to be away from the hostel for more than a day. Students should not keep costly and valuable items in the room.
7. The behaviour of the student in and around the campus should befit the noble profession they have opted for. Lab coats (apron) should be worn only inside the campus.
8. During clinical postings, should behave appropriately when dealing with patients.
9. Students are expected to strictly observe the dress code of the institution.

10. Indiscipline will be dealt with as per rules and the nature of punishment can vary from suspension to dismissal from the institution.
11. In case of ill health, students should report to the casualty at Pushpagiri Medical College Hospital.
12. Any student involved in criminal offences in the campus and any indiscipline outside the campus will be handled by the concerned authorities.
13. The following are banned and severely dealt with:
    - Drugs, drinking (liquor) and smoking
    - Ragging & eve teasing
    - Cheating, stealing, provocation, coercion, threats, pressure tactics & fights
14. Appropriate stringent action has been taken to prevent ragging. Anti-ragging Committee, Anti-ragging Squad, are the committees which will oversee and take appropriate steps to prevent ragging.
15. **Students are not permitted to use mobile handsets with camera in the college. The equipment shall be confiscated if the student is found to possess it.**

Mandatory Vaccination for all students

- **Hepatitis 'B' Vaccine:** 3 doses
- 0, 1, 6 months (Intra muscular)

Optional Vaccination for students

- **Chickenpox Vaccine:** 2 doses
- 0, 6 Weeks (Subcutaneous)
- **Typhoid Vaccine:** Single dose (Intramuscular)
  3 years immunity following vaccination **Hepatitis A Vaccine:** 2 doses 0, 6 months

LEAVE RULES FOR BDS STUDENTS

1. Application for leave **up to three days** need be submitted only to the concerned departments and approval must be obtained prior to availing the leave.
2. Other than for special circumstances, leave for **four days or more** shall be granted only on medical grounds.
3. The student availing medical leave should, as soon as possible, inform the class representative by telephone.The class representative should inform the concerned departments and the college office regarding the same.
4. Leave on medical grounds should be submitted to the college office on the day of rejoining along with the medical certificate.

5. Student staying in the hostel need to submit separate leave application approved by the Vice Principal to the Hostel Warden.
6. Separate application forms are available in the college office for:-
   a. Leave up to 3 days.
   b. Leave for 4 days or more.
   c. Leave from hostel

HOSTEL FACILITIES AVAILABLE

St. Thomas Hostel for Men

St. Alphonsa Hostel for Women

General information about hostels

Separate hostel accommodation is provided for men and women. All BDS students should stay in the hostel, except for those residing within a radius of three kilometers from the college campus.

Administration

The Principal will be in charge of the overall administration of the students' hostels. The day to day administration of the hostels will be done by the Warden in charge of the hostel. Wardens and assistant wardens will be appointed by the Chief Executive Officer as and when required with due information to the Principal.

The wardens shall be in contact with the Director- Medicity, who is also in charge of student welfare in all the hostels. He shall render spiritual and moral assistance to the students through personal counselling and guidance. He will be available in his office during fixed times and on appointment.

The Holy Mass is being celebrated in the Chapel every day at 6.00 am. All Christian students are expected to attend the Holy Mass and other prayer facilities available in the Chapel.

IMPORTANT CONTACT NUMBERS

Hostels:

St.Thomas Hostel (Boys)	-	0469 2623326
Warden - Mr Varghese	-	9495726214
Alphonsa Hostel (Girls)	-	0469 - 2645183
Chief Warden		0469 - 2645123
St. Tersitt F.D.S.H.J	-	9048700079

HOSTEL RULES AND REGULATIONS

1. It is mandatory for students to staying in the hostels to be a member of the mess of the hostel.
2. The Chief Warden reserves the right to break open rooms in case of any violation of hostel rules, suspected unlawful activities or on the basis of security risk perceived.
3. Students are requested to avoid shouting, playing loud music or making all types of noises which are likely to distract the attention of those who may be studying in their rooms.
4. Pets of all kinds are prohibited inside the hostel. Feeding stray dogs or cats in the hostel premises is not permitted.
5. All visitors including parents/ guardians must be entertained only in the visitors lounge and during visiting hours only. A visitors pass will be obtained from the office of the chief warden, well in advance by concerned student.
6. Cooking in hostel rooms is not permitted.
7. All instructions/ notices displayed on notice boards will be deemed to have been read by all residents and excuses for non-compliance of such instructions and notices will not be accepted. Residents are advised to look at the notice board everyday to acquaint themselves with latest information/orders.
8. Students must switch off all lights and fans, and electrical appliances if any before leaving their rooms. This is necessary to avoid an inadvertent fire.
9. In case of Fire: Residents must raise an alarm and call the hostel Warden. They should also alert the Security.
10. The Chief Warden/ Warden or his representative may enter any room for verification at any time of the day or night.
11. The management reserves the right to break open the rooms in case of violations of hostel rules, suspected unlawful activities and security risk cases or where the student is absent from his room for a long period without prior information or any valid reason. This will, however, be carried out by the security person in the presence of the hostel Warden. On such occasions, the items in the room will be listed by these officials and kept in the store room. A verbal report, followed by a written report will be sent to the higher authorities.
12. Proxy or dummy room-mates are forbidden. Strict action will be taken if accommodation is held as proxy. They are liable to be removed from the hostel. Residents are not permitted to allow their rooms to be used by others. All visitors and non-

residents including students from other hostels must leave the hostel/ other students rooms during nights. All residents are advised to extend their fullest co-operation to see that no unauthorised persons enter or stay in the hostel premises. If they happen to find any such person, they should demand the permit/ Identity Card and if it is not forthcoming, the matter should be brought to the notice of the Warden for further action.

13. RAGGING IN ANY FORM IS BANNED INSIDE AND OUTSIDE THE CAMPUS. STRICT ACTION WILL BE TAKEN AGAINST THE DEFAULTERS. NO LENIENCY WILL BE SHOWN TO THE OFFENDERS. SUSPENSION AND OR WITHDRAWAL FROM THE HOSTEL/ COLLEGE IS ONE OF THE ACTIONS TAKEN PROMPTLY. SUPREME COURT HAS ALSO DEFINED RAGGING AS A CRIMINAL OFFENCE.
14. All hostel inmates must report any disciplinary matter or problems concerning them or their room-mate/ neighbour(s) coming to their notice to the Warden/ Chief Warden. In case their room-mate is absent from the room or is sick / admitted in the hospital or is in any kind of physical/mental trouble or is indulging in any bad practices the same must be immediately brought to the notice of the Warden or the Chief Warden.
15. No televisions are permitted to be kept in the hostel rooms by the students. Students have to watch TV in the common TV room provided in the hostels.
16. Security of ATM/Debit cards: All residents must take care of their ATM/ Debit cards. They must not disclose their PIN to anybody-even to their best friends.
17. Water is an essential but scarce commodity. All residents are requested to use water judiciously and preserve it. Leakage etc. in the bathrooms should be immediately reported to the Warden.
18. All complaints regarding repairs/maintenance in the Hostels must be entered personally by the students in Complaint Registers maintained in all the Hostels. All complaints are also monitored regularly by the Warden/Chief Warden.
19. Residents of the hostels are not permitted to convene meetings of any sort in the Hostel premises without the prior permission of the Warden/Chief Warden. Disobedience of this rule will be severely dealt with.
20. There are Suggestion Boxes kept in all the hostels for suggestions if any from the residents. Residents may drop their suggestions and complaints if any, duly signed with their names and roll numbers in these Suggestion Boxes which are opened periodically. Appropriate action will be taken on all suggestions/ complaints and a feedback given to the student(s). No cognizance of anonymous suggestions/ complaints will be taken.

21. The Warden and Chief Warden are available round-the-clock on telephone, and may be contacted in case of any emergency.
22. If a resident falls sick, he/ she or room-mate/friend must immediately inform the caretakers/ person on duty who will make arrangements to shift/ evacuate the student to the hospital and look after him/ her. All cases of sickness must be immediately reported to the Medical Officer, at the Out-Patient/Emergency/ Trauma Department of Pushpagiri Medical College for necessary treatment. In case a resident is quite unable to leave the room and go to the Hospital, the matter must be reported to the Warden**.** Information regarding any resident falling sick or getting admitted in the hospital must be relayed to the hostel/ college authorities on priority.
23. The use of mobile phones in the hostels is permitted only during the stipulated time as informed by the hostel wardens. The use of Smart Phones is not permitted. Any disobedience will lead to termination of the student from the hostel.

PUSHPAGIRI

We care God cures

PUSHPAGIRI 60 YEARS OF SERVICE WE CARE... GOD CURES

COLLEGE OF DENTAL SCIENCES

MEDICITY, PERUMTHURUTHY, TIRUVALLA - 689107

(AN UNDERTAKING OF PUSHPAGIRI MEDICAL SOCIETY, REG. NO. P. 73/92)

(NAAC Accredited Dental College)

PCDS/Princ/349/2018 03 May 2018

STUDENTS SUPPORT AND GUIDANCE CELL

A students support and guidance cell is formed in Pushpagiri College of Dental Sciences w.e.f 03.05.2018 with the following members.

Dr K. George Varghese - President

Members
Dr Biju Sebastian Vice Principal (Academics)
Dr Sunil S (HOD, Dept. of Oral Pathology)
Dr Lizamma Alex (HOD, Dept. of Anatomy)
Dr Kannan Vaidyanathan (HOD, Dept. of Biochemistry)
Dr Vikram Gowda (Assistant Professor, Dept. of Physiology)

PTA representative
Dr Saji Mathew

Students representatives I BDS 2017 Batch
Ashik Thomas
Mekha Mariam Sabu

Nodal faculty members
Dr Elizabeth Joseph (HOD,Dept. of Oral Pedodontics)
Dr Sunu Alice Cherian (Lecturer, Dept. of Pedodontics)

Dr K. George Varghese
Principal

PUSHPAGIRI COLLEGE OF DENTAL SCIENCES
MEDICITY, PERUMTHURUTHY, TIRUVALLA- 689107 KERALA, INDIA
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E-mail:dentalcollege@pushpagiri.in Web-site:www.collegeofdentalsciences.pushpagiri.in

PUSHPAGIRI
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COLLEGE OF DENTAL SCIENCES
MEDICITY, PERUMTHURUTHY, TIRUVALLA - 689107
(AN UNDERTAKING OF PUSHPAGIRI MEDICAL SOCIETY, REG. NO. P. 73/92)
(NAAC Accredited Dental College)

PCDS/Princ/381/2019 10 April 2019

PARENT TEACHER ASSOCIATION

Parent Teacher Association for the academic year 2019-2020 is constituted with the following members w.e.f 10.04.2019.

Patron	-	Dr K. George Varghese
President	-	Mr Saji M. Mathew
Vice President	-	Mr Koshy P. Koshy
Secretary	-	Dr Annie Susan Thomas
Joint Secretary	-	Dr Rino Roopak Soman
Treasurer	-	Dr Haby Mathew Somson

Members

A. Faculty

Dr Biju Sebastian (Vice Principal Academics)
Dr Benley George (Vice Principal Administration)
N.S.S Programme Officer - Dr Thomas George V

B. Parents

Mr Wilson George
Mr Jiji Aruparayil
Mr John K. John
Dr Vimi Ikbal
Mr Mathew K.K
Mr Samuel P.G

Dr K. George Varghese
Principal

PUSHPAGIRI COLLEGE OF DENTAL SCIENCES
PUSHPAGIRI MEDICITY TIRUVALLA-7

PUSHPAGIRI

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PUSHPAGIRI 60 YEARS OF SERVICE WE CARE... GOD CURES 1959 - 2019

COLLEGE OF DENTAL SCIENCES

MEDICITY, PERUMTHURUTHY, TIRUVALLA - 689107

(AN UNDERTAKING OF PUSHPAGIRI MEDICAL SOCIETY, REG. NO. P. 73/92)

(NAAC Accredited Dental College)

PCDS/Princ/326/2018 03 January 2018

The Registrar
Kerala University of Health Sciences
Thrissur

Madam

Sub: Constitution of the College Council reg:
Ref: Your letter No.8747/AC1/GenA2/KUHS/2016 dtd 04.02.2017.

As per your request herewith forwarding the list of members of the College Council constituted in our College.

Chairman	-	Dr K George Varghese (Principal)
Management representative	-	Rev Fr Aby Vadakkumthala Director Medicity Rev Dr Mathew Mazhavancheril Director Academics & Research
Heads of Departments	-	Dr Omal P.M, Dr Eapen Thomas, Dr Benley George, Dr Biju Sebastian, Dr Elizabeth Joseph, Dr Thomas George, Dr Suja Joseph, Dr A Devadathan, Dr S Sunil.
HOD Physical education	-	Dr Omal P.M
College Union Chairman	-	Mr Rechu Raju
Administrative officer	-	Mr Sejoy Abraham
President P.T.A	-	Mr Saji Abraham
Members	-	All Reader and above faculty members

Yours sincerely

Dr K. George Varghese
Principal

PUSHPAGIRI COLLEGE OF DENTAL SCIENCES PUSHPAGIRI MEDICITY TIRUVALLA-7

PUSHPAGIRI COLLEGE OF DENTAL SCIENCES
MEDICITY, PERUMTHURUTHY, TIRUVALLA- 689107 KERALA, INDIA
Tel.: +91-469-2645210 Fax: +91-469-2645282
E-mail:dentalcollege@pushpagiri.in Web-site:www.collegeofdentalsciences.pushpagiri.in

N.S.S Unit

N.S.S Progamme officer: Dr Thomas George V
Professor and HOD, Dept. of Periodontics
Staff coordinators: Dr Annie Susan Thomas
Dr Sunu Alice Cherian

Anti – Ragging Committee 2019-2020

The anti – ragging committee of the college for the academic year 2019-2020.

1. Chairman	:	Dr K. George Varghese Principal Mob: 9447021617
2. Civil Administration	:	Tahasildar, Thiruvalla Phone: 0469 2601302
3. Police Administration	:	Circle Inspector of Police, Thiruvalla Ph: 0469 2738100
4. Local Media	:	Saji Abraham, Deepika (Daily) Thiruvalla Mob: 09447263556
5. Non-Govt. Organisation	:	Shibu Puthukeril President, Malankara Catholic Youth Movement, Thiruvalla Mob: 9447059400
6. Representatives of faculty members	:	Dr Benley George, Vice Principal Administration Mob: 09745015511
	:	Dr Aby Mathew T, Prof and HOD Dept. of Prosthodontics Mob: 9447507164
	:	Dr Biju sebastian, Vice Principal (Academics) Mob: 9446539062
	:	Dr Lisa Elizabeth Jacob, Senior Lecturer, Mob: 9446644648
7. Representatives of parents	:	Mr Saji M. Mathew Mob: 9497744080
	:	Mr Koshy. P. Koshy Mob: 9447261495
8.Representatives of students	:	Ms Vinayalakshmi IV BDS Part I
	:	Mr Amaljith III BDS
	:	Mr Ashik Thomas II BDS
9. Non teaching staff	:	Fr Aby Vadakkumthala, Director, Pushpagiri Medicity Mob: 9745355517

STUDENT MENTORS 2019-2020

I BDS	:	Dr Sharlene Sara Babu Mob: 9495017067
II BDS	:	Dr Minimol K Johny Mob: 9048820602
III BDS	:	Dr Sherin Sara George Mob:9207696406 Dr Vinesh U. Mob:8281377603
IV BDS Part I	:	Dr Manuja Nair Mob: 9946166811
IV BDS Part II	:	Dr Shibu Thomas Sebastian Mob: 9496213363

BUSTIMINGS FROM MEDICITYTO MEDICALCOLLEGE AND RETURN

Monday	8.00 a.m	4.00 p.m
Wednesday	8.00 a.m	1.00 p.m
Friday	8.00 a.m	3.30 p.m
Saturday	8.30 p.m	3.00 p.m

I BDS Examination Schedule

1st Internal Assessment Examination - 2nd week of January 2020

2nd Internal Assessment Examination – 3rd week of March 2020

3rd Internal Assessment Examination – 2nd week of June 2020

University Examination – July 2020

FLOOR MAP

LEVEL 1

Office of the Principal
Administrative Office
Dept. of Oral Medicine and Radiology
Store
Medical Records Room
Haematology Lab
Priority Clinic

LEVEL 2

Dept. of Oral and Maxillofacial Surgery
Lecture Hall – 1
Lecture Hall - 2

LEVEL 3

Dept. of Public Health Dentistry
Dept. of Pedodontics
Auditorium
Lecture Hall - 3

LEVEL 4

Dept. of Orthodontics
Dept. of Periodontics

LEVEL 5

Dept. of Conservative Dentistry
Dept. of Prosthodontics

LEVEL 6

Dept. of Oral Pathology
Lecture Hall – 4
Preclinical Labs
Conservative Dentistry
Prosthodontics
Orthodontics/Pedodontics

LEVEL 7

Library
Examination Hall – 1
Examination Hall - 2
Common Room – Boys
Common Room - Girls

FACULTY LIST

Designation & Dept. Name		Qualification
Principal	Dr. K George Varghese	MDS
Department of Prosthodontics		
	Prof & Head Dr.Aby Mathew T	MDS
	Professor Dr. Suja Joseph	MDS
	Professor Dr. Annie Susan Thomas	MDS
	Senior Lecturer Dr. Haby Mathew Somson	MDS
	Senior Lecturer Dr. Rene Kuriakose	MDS
	Senior Lecturer Dr. Albin Geo Joseph	MDS
	Senior Lecturer Dr. Shibi Mathew V MDS	
	Senior Lecturer Dr. Joshy P Abraham MDS	
Department of Conservative Dentistry and Endodontics		
	Professor & Head Dr. A. Devadathan	MDS
	Professor Dr. Baby James	MDS
	Assoc Professor Dr. Jose Jacob	MDS
	Reader Dr. Manuja Nair	MDS
	Senior Lecturer Dr. Minimol K Johny	MDS
	Senior Lecturer Dr. Rahul S.	MDS
	Senior Lecturer Dr. Fathima Amal.P MDS	
	Senior Lecturer Dr Naiza Elsa Geojan MDS	
Department of Oral Pathology		
	Professor & Head Dr. Sunil S	MDS
	Reader Dr. Sharlene Sara Babu	MDS
	Sr. Lecturer Dr. Arjun Parameswar	MDS
	Sr. Lecturer Dr Tibin K Baby	MDS
Department of Oral & Maxillofacial Surgery		
	Professor and Head Dr K George Varghese	MDS
	Professor Dr. Eapen Thomas	MDS
	Reader Dr. Akhilesh Prathap	MDS
	Reader Dr. Vinesh U.	MDS
	Sr Lecturer Dr Nithin Pratap	MDS
	Sr Lecturer Dr Ravi Rajan Areekal	MDS
Department of Periodontics		
	Professor & Head Dr Thomas George.V	MDS
	Professor Dr Nebu George Thomas	MDS
	Professor Dr Jacob George	MDS
	Assoc. Prof Dr. Annie Kitty George	MDS
	Senior Lecturer Dr. Soumya John	MDS
	Senior Lecturer Dr. Prameetha George	MDS

Department of Orthodontics

Professor & HOD Vice Principal Academics
Dr Biju Sebastian MDS
Professor Dr Jacob John MDS
Reader Dr. Navin Oommen Thomas MDS
Senior Lecturer Dr. Joe Joseph MDS
Senior Lecturer Dr. Vivek Suku Ninan MDS
Senior Lecturer Dr. Merin Elsa Abraham MDS

Department of Pediatric Dentistry

Professor and Head Dr Elizabeth Joseph MDS
Reader Dr. Subbalekshmi MDS
Reader Dr. John Philip MDS
Sr Lecturer Dr. Sherin Sara George MDS
Sr Lecturer Dr. Sneha Elizabeth Mathews MDS

Department of Oral Medicine

Professor & Head Dr. Omal P.M. MDS
Assoc Prof Dr. Anuna Laila Mathew MDS
Senior Lecturer Dr. Lisa Elizabeth Jacob MDS
Senior Lecturer Dr. Anju Mathew MDS

Department of Public Health Dentistry

Reader& HOD & Vice Principal
(Administration) Dr. Benley George MDS
Reader Dr. Rino Roopak Soman MDS
Senior Lecturer
Dr. Shibu Thomas Sebastian MDS
Senior Lecturer
Dr. Vinod Mathew Mulamoottil BDS MPH

Lecturers

Dr. Anil Kurian BDS
Dr. Renjini V R BDS
Dr. Sherly Sajan Mathews BDS
Dr. Sheryl Elizabeth Kuriakose BDS
Dr. Renu Mathew BDS
Dr. Raji S Pillai BDS
Dr. Sunu Alice Cherian BDS
Dr. Thomas Abraham BDS
Dr. Ambil Sara Varghese BDS
Dr. Mahima James BDS
Dr. Denny Thomas BDS
Dr. Immanuel Mathew Kurian BDS
Dr. Jagan Lonappan BDS

DEPARTMENT OF DENTISTRY – Pushpagiri Medical College Hospital

Professor & HOD Dr Jacob George MDS
Lecturers
Dr Terin Boby BDS
Dr Maria Francis BDS

LIST OF HOLIDAYS FROM AUGUST 2019 TO JULY 2020

Independence Day: 15th August (Thursday)

Onam Holidays : 08 September to 15 September

Re-Union Day : 21st September (Saturday)

Vijaya Dashami : 08th October (Tuesday)

Gandhi Jayanti : 2nd October (Wednesday)

Deepavali : 27th October (Sunday)

Christmas Holidays :
22nd December to 29th December

Republic Day : 26th January (Sunday)

Holy Week : 8th April to 12 April

Wednesday to Easter Sunday

Dr. B. R. Ambedkar Jayanthi
& Vishu : 14th April (Tuesday)

IDulfitr : 23rd May (Saturday)

St. Thomas day : 3rd July (Friday)

PARENTS' DECLARATION

I, ... hereby declare that I have gone through the rules and regulations for the BDS Pushpagiri College of Dental Sciences. I hereby agree that myself and my son/daughter ..... shall abide by all these rules and regulations. In case any Indiscipline / improper conduct occur from his / her side, he/she is liable to be punished. I fully understand such disciplinary actions shall not be revoked under any circumstance.

Date : Name

Signature

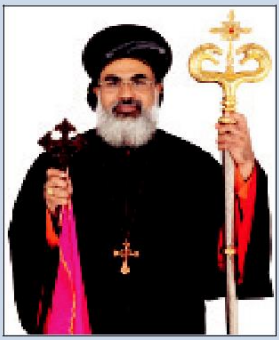
Details of the parent and / or guardian

Details	Parents	Local Guardian
Name	Father : Mother :	
Signature	Father : Mother :	
Permanent Address		
Address for communication		
Land Phone No.		
Mobile Phone No.	Father : Mother :	
E-mail Address	Father : Mother :	

Dr. K. George Varghese
Principal

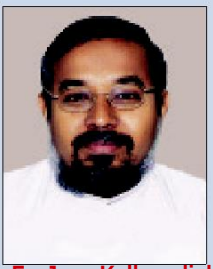
ACADEMIC CALENDAR
2020-2021

Our Patron



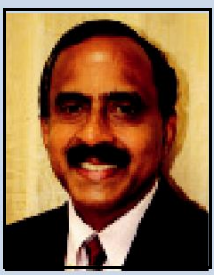
His. Grace. Most Rev. Dr. Thomas Mar Koorilos
Metropolitan Archbishop of Thiruvalla

Rev. Fr. Aby Vadakkumthala
Director Institutions



Rev Fr. Jose Kallumalickal
CEO

Rev. Dr. Mathew Mazhavancheril
Director
Academics and Research



Dr. K. George Varghese
Principal

Dr Benley George
Vice Principal
(Administration)

Dr Biju Sebastian
Vice Principal
(Academics)

CONTENTS

OUR VISION

'We Care God Cures'

OUR MISSION

To work towards a knowledge society with life in abundance through science and technology, improving health care for our immediate community, the state, the country and the world at large.

PUSHPAGIRI - A BRIEF HISTORY

The Catholic Church has been engaged in the ministry of healing all over the world for the past two thousand years. The same mission also drove the Founder fathers of Pushpagiri at Tiruvalla, Kerala. What started as a small clinic with eight beds in 1959 to cater to rural maternity care has now grown to a full fledged 1200 bedded, hi-tech super specialty Medical College Hospital.

Across a span of half a century, Pushpagiri has travelled forward with a renewed understanding and vision, ***'We Care God Cures'*** , which proclaims the faith of taking upon each others' burdens and humility before the divine providence from where all cure and healing happens. The unwavering commitment of the Church to provide value-based education also saw its results initially in Nursing Education at Pushpagiri, which began as early as 1964. Following the establishment of Pushpagiri Medical Society in 1992, on the road to improvisation and expansion, Pushpagiri saw a new beginning, a decade later, in 2002 with the starting of one of the first private medical colleges in Kerala - Pushpagiri Institute of Medical Sciences and Research Centre. In the past decade, Pushpagiri further went along to establish premiere institutions in the field of health care education for Nursing (2002), Pharmacy (2004), Dental Sciences (2006) and Allied Health Sciences (2008).

The Pushpagiri Medical Society, a society registered under the Travancore-Cochin Literary Scientific & Charitable Societies Registration Act of 1955, manages the College. The Archbishop of the Catholic Archdiocese of Tiruvalla Most. Rev. Dr. Thomas Mar Koorilos is the Patron of the Society and a seven

member governing board is the policy laying body of the Society. Rev Fr Jose Kallumalickal is the Secretary of Pushpagiri Medical Society. Rev. Fr. Aby Vadakkumthala is the Director of Pushpagiri Group of Institutions. Dr. K. George Varghese is the Principal, Dr Benley George; the Vice Principal (Administration) and Dr. Biju Sebastian: the Vice Principal (Academics) of Pushpagiri College of Dental Sciences.

Pushpagiri College of Dental Sciences, recognized by the Dental Council of India and Ministry of Health & Family Welfare, Government of India was founded in 2006.The institution is the realization of the vision of the Management to provide quality Dental education to aspiring students of Kerala, a good percentage of these students hail from minority communities. The institution has an annual intake of 50 students in BDS course and 14 students in MDS courses.

Pushpagiri College of Dental Sciences ever since its inception had shown excellent academic achievements at the MG University and Kerala University of Health Sciences examinations. The first batch of Pushpagiri College of Dental Sciences secured a 100% pass result in the Final BDS Part II examination conducted by Mahatma Gandhi University, Kottayam. Pushpagiri College of Dental Sciences was the only dental college to achieve this feat among 7 other dental colleges affiliated to Mahatma Gandhi University, Kottayam. Ms Varsha Jeyaprakash, student of 2006 batch secured the first rank in the Final BDS Examination in 2011 conducted by Mahatma Gandhi University, Kottayam. The first batch of students admitted under Kerala University of Health Sciences secured the best pass result among all 22 dental colleges in Kerala. The 2013 batch of I BDS students secured 80% pass result in the examination conducted by Kerala University of Health Sciences in August 2014. Ms Jasmin Mary George secured the First rank in the I BDS examination conducted by Kerala University of Health Sciences in August 2014. Dr. Karun Koshy Cherian secured the Second rank in the Final MDS examination(Orthodontics) conducted by Kerala University of Health Sciences in June 2017.

The institution had secured the first position among all 24 dental colleges affiliated to the University. The institution has consistently shown results par excellence in all examinations conducted by Kerala University of Health Sciences. The WEEK magazine in the survey 2020 graded Pushpagiri College of Dental Sciences as 28th Best Dental College in India and graded 1st Best Dental College in Kerala.

Pushpagiri College of Dental Sciences was elevated to the status of a Post Graduate Institute in 2013. The institution offers 6 Post Graduate courses in the Departments of Prosthodontics and Crown & Bridge, Periodontology and Oral & Maxillofacial Surgery, Conservative Dentistry & Endodontics, Orthodontics & Dentofacial Orthopedics and Pedodontics and Preventive Dentistry which is approved by the Ministry of Health and Family Welfare, Government of India and Dental Council of India.

In the year 2019 a new diploma course (Dental Operating Room Assistant – DORA) was started in the College with 10

seats. This course is approved by Dental Council of India, New Delhi.

GOVERNING BODY MEMBERS OF PUSHPAGIRI MEDICAL SOCIETY

Patron: **H. G. Most Rev. Dr. Thomas Mar Koorilos**
Metropolitan Archbishop of Tiruvalla.

President: **Rt. Rev. Msgr. Cherian Thazhamon**
Vicar General, Catholic Archdiocese of Tiruvalla.

Executive Director: **Shri Jacob Punnoose**
IPS (Retd.)

Vice President: **Dr. Abraham Varghese V.**

Secretary: **Rev. Fr. Jose Kallumalickal**
(Chief Executive Officer,
Pushpagiri Group of Institutions).

Members: **Rev. Dr. Mathew Mazhavancheril,**
Director, Academics and Research

Rev. Fr. Thomas Pariyarath,
Hospital Administrator & Director IT and
Marketing, Pushpagiri Medical College Hospital

Rev. Fr. John Padipurackal
Director Finance & Facilities

Mr. Varghese Alexander
Chartered Accountant, Alexander & Co., Tiruvalla

INSTITUTIONS UNDER PUSHPAGIRI MEDICAL SOCIETY

1. **Pushpagiri College of Dental Sciences**
   Pushpagiri Medicity, Perumthuruthy, Tiruvalla
   Tel. No. 0091 469 2645210; Fax 2645282
   www.collegeofdentalsciences.pushpagiri.in
   email: dentalcollege@pushpagiri.in

2. **Pushpagiri Institute of Medical Sciences & Research Centre**
   2.1.Pushpagiri Medical College Hospital
   Tel. No. 0091 469 2700755, Fax 2701045
   email: info@pushpagiri.in www.pushpagiri.in
   2.2. Pushpagiri Medical College
   Tel. No. 0091 469 2733761; Fax 2600020
   email: pcm@pushpagiri.in www.pimsrc.edu.in

3. **Pushpagiri College of Pharmacy** Pushpagiri Medicity, Perumthuruthy, Tivuvalla
   Tel. No. 0091 469 2645450; Fax 2645460
   email: pushpagiripharmacycollege@gmail.com
   www.collegeofpharmacy.pushpagiri.in

4. **Pushpagiri College of Nursing**
   Tel. No. 0091 469 2602441; Fax 2700168
   email: pcon@pushpagiri.in

5. **Pushpagiri College of Allied Health Sciences**
   Tel. No. 0091 469 2700755; Fax 2701044

6. **Pushpagiri School of Nursing**
   Tel. No. 0091 469 2700755; Fax 2701044

7. **Pushpagiri Centre for CGFNS & IELTS Training** Tel. No. 0091 469 2700755; Fax 2701044

8. **Pushpagiri Research Centre**
   Tel. No. 0091 469 2731005; Fax 2731005
   email: prc@pushpagiri.in www.prc.pushpagiri.in

9. **Pushpagiri Centre for Virology**
   Tel. No. 0091 469 2731005; Fax 2731005,

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Dr K. George Varghese
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Dr Benley George
Vice Principal (Administration)
Dr Aby Mathew T
HOD. Dept. of Prosthodontics
Dr Suja Joseph
Professor, Dept. of Prosthodontics
Dr Thomas George V.
HOD, Dept. of Periodontics
Dr Eapen Thomas
Professor, Dept. of Oral and Maxillofacial Surgery
Dr A Devadathan
HOD, Dept. of Conservative Dentistry and Endodontics
Dr Baby James
Professor, Dept. of Conservative Dentistry and Endodontics
Dr Biju Sebastian
Vice Principal (Academics) & HOD, Dept. of Orthodontics
Dr S. Sunil
HOD, Oral Pathology
Dr Elizabeth Joseph
HOD, Pedodontics
Dr Omal P.M.
HOD, Oral Medicine and Radiology

Academic Programmes in Dental College

Undergraduate course	
BDS	50 seats
Postgraduate courses	
MDS (Prosthodontics and Crown and Bridge)	3 seats
MDS (Oral and Maxillofacial Surgery)	2 seats
MDS (Periodontics)	2 seats
MDS (Orthodontics)	2 seats
MDS (Conservative Dentistry)	3 seats
MDS (Pedodontics and Preventive Dentistry)	2 seats
Diploma in Operating Room Assistant (DORA)	10 Seats

BDS COURSE

2.1. Aims & Objectives of BDS Course

A. Aims:

To create a graduate in Dental Science who has adequate knowledge, necessary skills and such attitudes which are required for carrying out all the activities appropriate to general dental practice involving the prevention, diagnosis and treatment of anomalies and diseases of the teeth, mouth, jaws and associated tissues. The graduate should also understand the concept of community oral health education and be able to participate in the rural health care delivery programmes existing in the country.

B. Objectives:

The objectives are dealt under three headings namely (a) knowledge and understanding (b) skills and (c) attitudes.

(a) Knowledge and understanding

The student should acquire the following during the period of training.

1. Adequate knowledge of the scientific foundations on which dentistry is based and good understanding of various relevant scientific methods and principles of biological functions.
2. Adequate knowledge to evaluate and analyse scientifically various established facts and data.
3. Adequate knowledge of the development, structure and function of teeth, mouth, jaws and associated tissues both in health and disease and their relationship and effect on general state of health and also their bearing on physical and social well- being of the patient.
4. Adequate knowledge of clinical disciplines and methods, which provide a coherent picture of anomalies, lesions and diseases of the teeth, mouth and jaws.
5. Adequate knowledge on the preventive, diagnostic and therapeutic aspects of dentistry.
6. Adequate knowledge on laboratory steps involved in dental treatment.
7. Adequate clinical experience required for general dental practice.

8. Adequate knowledge of biological function and behavior of persons in health and sickness as well as the influence of natural and social environment on the state of health so far as it affects dentistry.

Skills

A Graduate should be able to demonstrate the following skills necessary for practice of dentistry:

1. Able to diagnose and manage various common dental problems encountered in general dental practice, keeping in mind the expectations and the right of the society to receive the best available treatment wherever possible.
2. Acquire skill to prevent and manage complications if any encountered while carrying out various dental surgical and other procedures.
3. Possess skill to carry out required investigative procedures and ability to interpret laboratory findings.
4. Acquire skill in laboratory procedures involved in dental treatment.
5. Promote oral health and help to prevent oral diseases wherever possible.
6. Competent in control of pain and anxiety during dental treatment.

Attitudes

A graduate should develop during the training period the following attitudes.

1. Willing to apply current knowledge of dentistry in the best interest of the patients and the community.
2. Maintain a high standard of professional ethics and conduct and apply these in all aspects of professional life.
3. Seek to improve awareness and provide possible solutions for oral health problems and needs throughout the community.
4. Willingness to participate in the continuing education programmes to update knowledge and professional skills from time to time.
5. To help and to participate in the implementation of national health programmes.

C. Goals of BDS Curriculum

On completion of the undergraduate training program the graduates shall be competent in the following. –

General Skills

Apply knowledge & skills in day to day practice. Apply principles of ethics.

Analyze the outcome of treatment.

Evaluate the scientific literature and information to decide the treatment.

- Participate and involve in professional bodies.
- Be capable of self-assessment and be willing to update the knowledge & skills from time to time.
- Inclined to do simple research projects.
- Acquire minimum computer proficiency to enhance knowledge and skills.
- Be aware of one's limitations and know when to refer patients to specialists.
- Be familiar with basic Forensic Odontology techniques and manage Geriatric dental problems.
- Death certification

ii. Practice Management

- Evaluate practice location, population dynamics & reimbursement mechanism.
- Able to communicate freely, orally and in writing with all concerned.
- Maintain records.
- Implement & monitor infection control and environmental safety programs.
- Practice within the scope of one's competence Communication & Community Resources.
- Assess patient's goals, values and concerns to establish rapport and guide patient care.
- Co-ordinate & supervise the activities of allied dental health personnel.

- Participate in improving the oral health of the individuals through community activities.

iii. Patient Care – Diagnosis

- Obtaining patient's history in a methodical way.
- Performing thorough clinical examination.
- Selection and interpretation of clinical, radiological and other diagnostic information.
- Obtaining appropriate consultation.
- Arriving at provisional, differential and final diagnosis.

iv. Patient Care - Treatment Planning

- Integrate multiple disciplines into an individual comprehensive sequenced treatment plan using diagnostic and prognostic information.
- Be able to order appropriate investigations.

v. Patient Care – Treatment

- Recognition and initial management of medical emergencies that may occur during Dental treatment.
- Perform basic cardiac life support.
- Management of pain including post operative.
- Administration of all forms of local anesthesia.
- Administration of intra muscular and venous injections.
- Prescription of drugs, pre operative, prophylactic and therapeutic requirements.
- Uncomplicated extraction of teeth.
- Transalveolar extractions and removal of simple impacted teeth.
- Minor oral surgical procedures.
- Management of Oro-facial infections.
- Simple orthodontic appliance therapy.
- Taking, processing and interpretation of various types of intra oral radiographs.
- Various kinds of restorative procedures using different materials available.

- Simple endodontic procedures.
- Removable and basic fixed Prosthodontics.
- Various kinds of periodontal therapy.

D. Competencies Expected- Specialty wise

OR

ORAL MEDICINE & RADIOLOGY

- On completion of the undergraduate training programme the graduate should:
- Be able to identify the common dental problems like dental caries and periodontal disease and their sequelae
- Be able to differentiate the normal variations and oral mucosal lesions
- Be able to identify pre cancerous and cancerous lesions of the oral cavity and refer to the concerned specialty for their management.
- Have an adequate knowledge about common laboratory investigations and interpretation of their results.
- Have adequate knowledge about medical complications that can arise while treating systemically compromised patients and take prior precautions/ consent from the concerned medical specialist.
- To formulate a clinical diagnosis, order investigations, seek expert consultations to come to a final diagnosis and chart out a proper treatment plan for patients with oral lesions.
- Have adequate knowledge about radiation health hazards, radiation safety and protection.
- Be competent to take intra-oral radiographs and interpret the radiographic findings
- Gain adequate knowledge of various extra-oral radiographic procedures, TMJ radiography and sialography.
- Be aware of the importance of intra- and extra-oral radiographs in forensic identification and age estimation.
- Be familiar with jurisprudence, ethics and understand the significance of dental records with respect to law.

ORAL & MAXILLOFACIAL SURGERY

On completion of the undergraduate training programme the graduate should:

- Be able to apply the knowledge gained in the basic medical and clinical subjects in the management of patients with surgical problems.
- Be able to diagnose, manage and treat patients with basic oral surgical problem
- Have a broad knowledge of maxillofacial surgery and oral Implantology.
- Be familiar with legal, ethical and moral issues pertaining to patient care and communication skills.
- Have acquired the skill to examine any patient with an oral surgical problem in an orderly manner.
- Understand and practice the basic principles of asepsis and sterilization.
- Be competent in the extraction of the teeth under local anesthesia.
- Be Competent to carry out certain minor oral surgical procedures under Local Anesthesia like trans-alveolar extraction, frenectomy, Dentoalveolar procedures, simple impaction, biopsy, etc.
- Be Competent to assess, prevent and manage common complications that arise during and after minor oral surgery.
- Able to provide primary care and manage medical emergencies in the dental office.
- Be familiar with the management of major oral surgical problems and principles involved in the in-patient management.
- Be able to Certify Death

PERIODONTOLOGY

On completion of the undergraduate training programme the graduate should:

- Be able to diagnose the patient's periodontal problem, plan and perform appropriate periodontal treatment.
- Be Competent to educate and motivate the patient.

- Be Competent to perform thorough oral prophylaxis, subgingival scaling, root planning and minor periodontal surgical procedures.
- Give proper post treatment instructions and do periodic recall and evaluation.
- Be Familiar with concepts of osseointegration and basic surgical aspects of implantology.

CONSERVATIVE DENTISTRY AND ENDODONTICS

On completion of the undergraduate training programme the graduate should:

- Be Competent to diagnose all carious lesions.
- Be Competent to perform Class I and Class II cavities and their restoration with amalgam.
- Be able to restore class V and Class III cavities with glass ionomer cement.
- Be able to diagnose and appropriately treat pulpally involved teeth (pulp capping procedures).
- Be able to perform RCT for anterior teeth
- Be competent to carry out small composite restorations
- Understand the principles of aesthetic dental procedures

ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

On completion of the undergraduate training programme the graduate should:

- Understand about normal growth and development of facial skeleton and dentition.
- Be able to pinpoint aberrations in growth process both dental and skeletal and plan necessary treatment
- Be able to diagnose the various malocclusion categories
- Be able to motivate and explain to the patient and parent/guardian about the necessity of treatment
- Be able to plan and execute preventive orthodontics (space maintainers or space regainers)
- Be able to plan and execute interceptive orthodontics (habit breaking appliances)

- Be able to manage treatment of simple malocclusion such as anterior spacing using removable appliances
- Be able to handle delivery and activation of removable orthodontic/ myofacial appliances.
- Be able to diagnose and appropriately refer patients with complex malocclusion to the specialist.

PUBLIC HEALTH DENTISTRY

On completion of the undergraduate training programme the graduate should:

- Apply the principles of health promotion and disease prevention.
- Have knowledge of the organization and provision of health care in community and in the hospital service
- Have knowledge of the prevalence of common dental conditions in India
- Have knowledge of community based preventive measures
- Have knowledge of the social, cultural and environmental factors, which contribute to health or illness.
- Be able to administer hygiene instructions, topical fluoride therapy and fissure sealing.
- Be able to educate patients concerning the etiology and prevention of oral disease and encourage them to assure responsibility for their oral health.

PROSTHODONTICS AND CROWN & BRIDGE

On completion of the undergraduate training programme the graduate should:

- Be able to understand and use various dental materials.
- Be competent to carry out treatment of conventional Simple complete and partial removable dentures and anterior crowns.
- Be able to carry out Prosthodontic laboratory procedures.
- Be familiar with the concepts of osseointegration and the value of implant- supported Prosthodontic procedures.
- Be able to diagnose and appropriately refer patients requiring complex treatment procedures to the specialist

PAEDIATRIC AND PREVENTIVE DENTISTRY

On completion of the undergraduate training programme the graduate should:

- Be able to instill a positive attitude and behavior in children towards oral health and understand the principles of prevention and preventive dentistry right from birth to adolescence.

- Be able to guide and counsel the parents/guardian in regards to various treatment modalities including different facets of preventive dentistry.
- Be able to treat dental diseases occurring in child patient.
- Be able to manage the physically and mentally challenged / disabled children effectively and efficiently, tailored to the needs of individual requirement and conditions.

2.3 Medium of Instruction

The medium of Instruction and examinations of BDS course will be in English language.

2.4 General Outline of BDS Degree Course

1) The undergraduate course involves organisation of year-wise teaching program. However, this course, as a whole, should demonstrate integration of the basic sciences, clinical dentistry and practical or laboratory skills. The course should be designed and integrated in such a way as to permit smooth progression from pre-clinical to clinical phase. Collaboration should be encouraged between teachers of basic sciences, dental sciences and clinical subjects.

2) The undergraduate dental course consists of three main components. The first component consists subjects common to modern medicine and dentistry like anatomy, physiology, biochemistry and behavioral science, leading to pharmacology, pathology, microbiology and then on to general medicine and general surgery. The second component runs concurrently with the first and deals with special aspects of oral and dental tissues, oral biology and oral pathology. Finally, the third component based on the foundations of the first two, deals with the clinical and technical aspects of dentistry as is required for general dental practice.

3) The first component of the course is intended to provide initially, an appreciation of normal human structure, development, function and

behavior, leading to understanding of the diseases, its prevention and treatment.The main objective is to provide student with a broad knowledge of normal structures and functions of the body, the alterations which take place in disease with particular reference to those conditions in which medical and dental co- operation is essential for proper management. At this stage, the student should also be made aware of the social and psychological aspects of patient care with special reference to the relationship between dentist and patient.The behavioral sciences including both sociology and psychology should be introduced at the initial stages of the training program, much before the students actually deal with the patients.

4) The second component of dental undergraduate program includes instruction in the subjects dealing with dental and oral aspects to ensure a detailed knowledge of the structure and function of the dental and oral tissues.This enables the student to diagnose, prevent and treat the dental and oral diseases and disorders, which were not included in the first component. The subject of oral biology is to be introduced at this level to provide the students a comprehensive knowledge and application of oral physiology, microbiology, biochemistry and oral immunology. Students should be exposed to the basic aspects of forensic odontology at this stage of the course along with oral biology/oral pathology.

5) The third component of the course comprising the clinical and technical aspects of dentistry actually prepares the student to undertake total oral and dental health care of patients of all ages. The emphasis at this stage should be on the prevention of the various dental diseases and how to preserve natural teeth with their supporting structures. The importance of various preventive methods needs to be stressed. The significance of diagnosis of various dental and oral problems needs to be emphasized along with treatment planning before actual treatment procedures are undertaken. In addition to acquiring the knowledge, the students need to gain adequate clinical hands-on-experience in extractions and other minor oral surgical procedures, all aspects of Conservative Dentistry, Endodontics, Crown and Bridge, provision of partial and complete dentures, various periodontal therapeutic procedures and use of removable orthodontic appliances. Familiarity with various radiological techniques, particularly intra-oral methods and proper interpretation of the radiographs, is an essential part of this component of training and has application in clinical diagnosis, forensic identification and age estimation. Training in handling medico-legal cases including death certification should be imparted at this stage. Towards the final stage of the clinical training, each student should be involved in comprehensive oral health care or holistic approach to enable him or her to plan and treat patients as a whole, instead of piece-meal treatment provided in

each specialty.The aim of the undergraduate program should undoubtedly be to produce a graduate, competent in general dental practice.

6) The commitment towards the society as a whole needs to be stressed along with the knowledge and treatment skills gained. Instruction in public health dentistry should emphasise the sociological aspects of health care and palliative care particularly; oral health care, including the reasons for variation in oral and dental needs of different sections of the society. It is important to know the influence of social, behavioral, environmental and economic factors on oral and dental health. Students should be made aware of the National oral health Policy and the importance of being a member of the Health care team delivering medical and oral health care particularly among rural population. Students should also be encouraged to participate in simple research project work

7) The undergraduate curriculum stresses the significance of infection and cross infection control in dental practice. Aspects like sources of infection, measures to be adopted both general and specific for control, particularly the HIV and hepatitis is incorporated in the curriculum so that the graduates are aware of its significance and follow it in their practice.

8) The information technology has touched every aspect of an individual's personal and professional life.The University hence recommends that all undergraduates acquire minimum computer proficiency, which will enable them to enhance their professional knowledge and skills.

2.5 Duration & course of Study

1. The undergraduate dental training program leading to B.D.S. degree shall be of four and a half years duration in addition to one year compulsory paid rotating internship. During this period, the students shall be required to engage in full time study at a Dental college recognized or approved by the Dental Council of India. During the first four and a half years of undergraduate course, the instruction in clinical subjects should be at least for two and a half years.

2. Basic Medical & Dental Subjects

The basic medical and dental sciences comprise of Anatomy - Gross and Microscopic, Physiology, Biochemistry, Pharmacology, science of Dental Materials and Oral biology. Subjects like behavioral sciences, which would be useful to develop communication skills, should also be introduced in the first year itself and spread over the undergraduate course. An introduction to Public Health Dentistry also will be useful to develop the concept of commitment to community.The laboratory skills like pre-clinical Prosthodontics, Crown and Bridge, Conservative dentistry and Orthodontics is to be developed by the students.

Studying dental morphology also is a part of initial training. At the end of this period the student should be in a position to understand and comprehend in general the development, structure and function of the human body in both health and disease.

3. The instruction in basic dental sciences should include theoretical and practical aspects of oral anatomy and physiology, to provide a detailed knowledge of the form and structure of teeth, associated tissues and occlusal relationships. The study should also aim at development of a concept regarding physiological and biochemical processes relevant to oral cavity for better understanding of the changes that occur with the onset of disease in the oral cavity. The student should be made aware of the importance of various dental tissues in forensic investigation.

4. Clinical, Medical and Dental subjects:

The students should be introduced to clinics in the initial stage, preferably in the first year, as an observer to familiarize with clinical set-up and working. The period of instruction in the clinical subjects shall not be less than two and a half years full time. During this, the student shall attend a dental hospital, general hospital, community camps and satellite clinics, in order to obtain instruction and experience in the practice of dentistry. The main objective of training in clinical dental subjects is to produce a graduate, able and competent to recognize or diagnose various dental and oral diseases, to undertake general dental treatment, advice on the provision of specialized treatment available and finally advise the patient on prevention.The student should also understand the relationship between oral and systemic diseases.

5.The general medicine and surgery training should provide sufficient knowledge on human disease to enable the student to understand its manifestations as relevant to the practice of dentistry.This requires clinical teaching on patients and shall be carried out in inpatient and outpatient medical departments and specialist clinics.This clinical instruction should enable the student to understand and perhaps diagnose common systemic diseases, which have relevance to dental practice, by adopting a systematic approach of history taking and clinical examination. The student should also realize the significance of various general and special investigations in the diagnosis of diseases. The ability to recognize physical and mental illness, dealing with emergencies, effective communication with patients, and interaction with professional colleagues also become important aspects of this training.

6. All dental students should receive instruction in first-aid and principles of cardio-pulmonary resuscitation. The students should also attend to the accident and emergency department of a Medical hospital.

7. The purpose of the clinical training is to provide sufficient practical skill in all aspects of clinical dentistry. The instruction should also include patient management skills, treatment of patients of all ages with special reference to children (paediatric), very elderly (geriatric), medically compromised and disabled patients.

8. During the two and a half years of clinical course, the students should receive thorough instruction which involves history taking, diagnosis and treatment planning in all aspects of dentistry and should be competent on graduation to carry out all routine general procedures. In Oral & Maxillofacial Surgery, instruction should include the knowledge of various maxillofacial problems like injuries, infections and deformities of the jaws and associated structures. The clinical experience should include those procedures commonly undertaken in general practice like extraction of teeth, minor oral surgical procedure etc. In Conservative dentistry and Endodontics, Prosthodontics and Crown & Bridge and Periodontology students should be competent on graduation to carry out routine treatments like restorations of various types, endodontic procedures, removable Prosthodontics, and finally various kinds of periodontal therapy. In Orthodontics & Dentofacial Orthopaedics, students should carry out simple appliance therapy including myofacial appliances for patients. Students should also be able to appreciate the role of Dentofacial growth in the development and treatment of malocclusion. In addition, students should be aware of their limitations on graduation, need to refer patients for consultant opinion and/or treatment and also the need for postgraduate and continuous education programmes.

9. In Paediatric & Preventive Dentistry, the students should concentrate on effective management of the behavior of the child patient to instill a positive attitude, on efficacy of preventive measures and clinical management, including the treatment needs particularly for children with disabilities. In oral medicine and Radiology, the student should receive instruction in various common lesions, occurring in the oral cavity and its diagnosis with particular reference to oral cancer. All students should receive instructions and gain practical experience in taking various types of intra and extra oral radiographs and its processing and interpretation. They should be aware of the hazards of radiation and proper protective measures from radiation for the patient, operator and other staff. Since Paediatric dentistry involves the practice of various branches of clinical dentistry, training in Paediatric Dentistry is extended to Part II of the final year.

10.The successful control and management of pain is an integral part of dental practice. Upon graduation the students should be competent to administer all forms of local anesthesia. The value of behavioral methods of anxiety management should be emphasized. The students should also have the practical experience in the administration of intra-muscular and

intra-venous injections. Knowledge of pain mechanisms and strategies to control post- operative pain is essential for practice of dentistry.

11. Instruction should be given in dental jurisprudence, legal and ethical obligations of dental practitioners and the constitution and functions of Dental Council of India. Students should be made competent in the management of medico legal cases and death certification.

12. Infection and cross infection control assume significance in dental practice. The students should be made aware of the potential risk of transmission of various infectious diseases particularly HIV and hepatitis in the dental surgery. The students should be aware of their professional responsibility for the protection of the patients, themselves and their staff and the requirements of the health and safety regulations.

13. The subjects of Aesthetic dentistry, Oral Implantology, Behavioral sciences and Forensic Odontology have assumed great significance. Hence, these four specialties are incorporated into the undergraduate curriculum. The instruction and clinical training in aesthetic dentistry shall be carried out by the departments of Prosthodontics and Crown & Bridge and Conservative Dentistry & Endodontics. Similarly, the instruction and clinical training in Oral Implantology shall be done by the departments of Prosthodontics and Crown & Bridge, Oral & Maxillofacial Surgery, and Periodontology. The instruction in behavioral sciences should ideally commence before the students come in contact with the patients and shall be carried out by the departments of Public Health Dentistry and Paediatric and Preventive Dentistry. Forensic Odontology including procedures of death certification will be a part of Oral Pathology & Oral Microbiology, Oral Medicine & Radiology and Oral & Maxillofacial Surgery.

14. With increased life expectancy and treatment facilities, Palliative care has gained importance in the modern world. Palliative medicine is the branch of medicine involved in treatment of patients with advanced, progressive, life-threatening disease for whom the focus of care is maximising their quality of life through expert symptom management, psychological, social and spiritual support as part of a multi-professional team. Understanding the role of dental surgeon in the field of palliative care this subject is introduced in the syllabus to be handled by faculty under public health dentistry trained in palliative care.

SUBJECTS OF STUDY

1. General Human Anatomy including Embryology and Histology
2. General Human Physiology
3. Biochemistry, Nutrition and Dieteties
4. Dental Anatomy, Embryology and Oral Histology

I BDS SUBJECTS

1. GENERAL HUMAN ANOTMY INCLUDING EMBRYOLOGY AND HISTOLOGY

a) GOAL

The students should gain the knowledge and insight into, the functional anatomy of the normal human head and neck, functional histology and an appreciation of the genetic basis of inheritance and disease, and the embryological development of clinically important structures. So that relevant anatomical & scientific foundations are laid down for the clinical years of the BDS course.

b) OBJECTIVES:

i. Knowledge & understanding:

At the end of the 1st year BDS course in Anatomical Sciences the undergraduate student is expected to:

(1) Know the normal disposition of the structures in the body while clinically examining a patient and while conducting clinical procedures.

(2) Know the anatomical basis of disease and injury.

(3) Know the microscopic structure of the various tissues, a prerequisite for understanding of the disease processes.

(4) Know the nervous system to locate the site of lesions according to the sensory and or motor deficits encountered.

(5) Have an idea about the basis of abnormal development, critical stages of development, effects of teratogens, genetic mutations and environmental hazards.

(6) Know the sectional anatomy of head neck and brain to read the features in radiographs and pictures taken by modern imaging techniques.

(7) Know the anatomy of cardio-pulmonary resuscitation.

ii. Skills

1) To locate various structures of the body and to mark the topography of the living anatomy.

2) To identify various tissues under microscope.

3) To identify the features in radiographs and modern imaging techniques.

4) To detect various congenital abnormalities.

c) INTEGRATION

By emphasizing on the relevant information and avoiding unwanted details, the anatomy taught integrally with other basic sciences & clinical subjects not only keeps the curiosity alive in the learner but also lays down the scientific foundation for making a better doctor, a benefit to the society.

This insight is gained in a variety of ways:

i. Lectures & small group teaching

ii. Demonstrations

iii. Dissection of the human cadaver

iv. Study of dissected specimens

v. Osteology

vi. Surface anatomy on living individual

vii. Study of radiographs & other modern imaging techniques.

viii. Study of Histology slides.

ix. Study of embryology models

x. Audio-visual aids

Throughout the course, particular emphasis is placed on the functional correlation, clinical application & on integration with teaching in other bio dental disciplines.

d) AN OUTLINE OF THE COURSE CONTENT:

General anatomy: Introduction of anatomical terms and brief outline of various systems of the body.

i. Regional anatomy of head & neck with Osteology of bones of head & neck, with emphasis on topics of dental importance.

ii. General disposition of thoracic, abdominal & pelvic organs.

iii. The regional anatomy of the sites of intramuscular & intra vascular injections, & lumbar puncture.

iv. General embryology & systemic embryology with respect to development of head & neck.

v. Histology of basic tissues and of the organs of gastrointestinal, respiratory, Endocrine, excretory systems & gonads.

vi. Medical genetics

a) THEORY:100HOURS

THEORY

	TOPICS	HOURS
1	Introduction to anatomical terms, position, skin, superficial fascia and deep fascia	1
2	Simple epithelium, compound epithelium, Glandular epithelium	1
3	Scalp	1
4	Muscles of facial expression	1
5	Norma verticalis & Norma frontalis	1
6	Norma occiptalis & norma lateralis	1
7	Cervical vertebrae	1
8	Deep cervical fascia	1
9	Development of face	1
10	Brachial plexus	1
11	Classification of joints	1
12	Connective tissue	2
13	Cartilage	1
14	Bone	2
15	Muscle	1
16	Nervous tissue – Neurons, classification, regeneration, optic nerve, sciatic nerve, sensory & autonomic ganglia	2
17	Thyroid gland & development & developmental anomalies	1
18	Lymphatic drainage of head & neck.	1
19	Lacrimal apparatus & eyelid	1
20	Parotid gland & development	1
21	Dural venous sinuses – classification, cavernous sinus in detail	1
22	Pituitary gland and development & anomalies	1
23	Vascular tissue – Large artery, Medium sized artery, Large vein	1
24	Lymphatic tissue	2

	TOPICS	HOURS
25	Skin and its appendages – hair follicle – Sebaceous gland – sweat gland – nail	1
26	Anterior cranial fossa	1
27	Middle cranial fossa	1
28	Posterior cranial fossa	1
29	Parietal bone	1
30	Occipital bone	1
31	Frontal bone	1
32	Temporal bone	2
33	Norma basalis	2
34	General embryology – oogenesis	1
35	General embryology – spermatogenesis	1
36	General embryology – fertilization	1
37	General embryology – implantation bilaminar	1
38	General embryology – bilaminar germ disc	1
39	General embryology - Neural tube formation, trilaminar germ disc, neural crest, Intraembryonic mesoderm & its fate, Notochord	2
40	General embryology - Folding of embryo	1
41	General embryology - Placenta & foetal membranes	2
42	Pharyngeal pouches & cleft	1
43	Bony orbit	1
44	Muscles of mastication	1
45	Temporomandibular joint	1
46	Hyoglossus muscle and its relations	1
47	Mandible	2
48	Maxilla	2
49	Zygomatic & hyoid bones	1
50	Pharynx	2
51	Nasal cavity & its lateral wall	1
52	Larynx	2
53	Tongue and its development & developmental anomalies	1
54	Middle ear & development	1

	TOPICS	HOURS
55	Coats of the eye – uveal tract in detail	1
56	External features of spinal cord	1
57	Leptomeninges	1
58	Blood supply of brain	1
59	Medulla oblongata– external features	1
60	Pons – external features	1
61	Cerebellum	1
62	4th ventricle	1
63	Mid brain – external features	1
64	3rd ventricle	1
65	Cerebrum – Sulci, gyri and functional area	1
66	Lateral ventricle	1
67	Optic pathway	1
68	White matter of cerebrum and internal capsule	2
69	Basal ganglia	1
70	III Cranial Nerve & IV Cranial nerves	1
71	V Cranial nerve & VI cranial nerves	1
72	VII cranial nerve	1
73	VIII, IX cranial nerves	1
74	X, XI, XII cranial nerves	1
75	Gastrointestinal system	2
76	Respiratory system	2
77	Cardiovascular system	2
78	Excretory system	2
79	Reproductive system – male (1 hr), female (1 hr)	2
80	Medical genetics – Mitosis, Meiosis, Chromosomes and anomalies	1
81	Medical Genetics - Gene structure and genetic disorders	1
82	Medical Genetics - Mode of inheritance	1

Sl. No.	SEMINARS
1.	Submandibular gland
2.	Nasal septum
3.	Soft palate
4.	Auditory tube
5.	Otic ganglion
6.	Pterygopalatine ganglion
7.	Submandibular ganglion
8.	Ciliary ganglion
9.	Ansa cervicalis
10.	Internal and external jugular veins
11.	Subclavian artery
12.	Autonomic nervous system
13.	Paranasal air sinuses
14.	Lingual artery
15.	Circle of Willis
16.	Choroid plexuses of the ventricles

a) PRACTICAL :175HOURS

Sl. No.	PRACTICALS
	HISTOLOGY
1.	Simple epithelium
2.	Compound epithelium
3.	Glandular epithelium
4.	Connective tissue
5.	Cartilage
6.	Bone
7.	Muscle
8.	Neuron – Optic Nerve - Peripheral Nerve
9.	Ganglia
10.	Blood vessels
11.	Lymphatic tissue – Lymph node, - Spleen, - Thymus, - Tonsil
12.	Skin – Thin skin, Thick skin
13.	Placenta & Umbilical cord
14.	Trachea & lung
15.	Spinal cord, Cerebellum, Cerebrum
16.	Cornea & Retina
17.	Thyroid & Parathyroid gland
18.	Suprarenal & Pituitary glands
19.	Kidney, Ureter, Urinary bladder
20.	Ovary, Corpus luteum, Testis
21.	Tongue – filiform, fungiform, circumvallate papillae
22.	Salivary glands – Mucous – Serious – Mixed
23.	Liver, Pancreas
	DISSECTION
24.	Introduction to dissection
25.	Scalp
26.	Superficial dissection of face – muscles of face
27.	Side of the neck & Posterior triangle
28.	Back of the neck – suboccipital triangle

29. Anterior triangle
30. Deep dissection of the neck – Thyroid gland parathyroid gland trachea, oesophagus, Brachiocephalic trunk, Subclavian artery Bracheiocephalic vein Thoracic duct. Cervical pleura Neurovascular bundle of the neck, Sympathetic chain, Scalene muscles; Cervical fascia
31. Lymph nodes & lymph vessels of head & neck
32. Prevertebral region – Vertebral artery – Vertebral vein
33. Deep dissection of face – Facial artery – Other vessels -Nerves
34. Structures in the cheek & lips
35. Eyelid & lacrimal apparatus
36. Parotid region
37. Cranial cavity –meninges Dural folds, Venous sinuses
38. Anterior cranial fossa
39. Middle cranial fossa – Pituitary gland
40. Posterior cranial fossa
41. Orbit – structures in the orbit
42. Temporal and infratemporal regions
43. Submandibular region
44. Mouth and pharynx
45. Soft palate and Auditory tube
46. Cavity of the nose
47. Larynx
48. Tongue
49. Organs of hearing & equilibrium – External ear – Middle ear – Internal ear
50. Eye ball
51. Joints of the neck
52. Spinal Cord
53. Introduction to brain
54. Meninges of brain
55. Blood vessels of brain
56. Base of brain
57. Hind brain –Medulla

58. Hind brain – Pons
59. Hind brain – Cerebellum
60. 4_{th} ventricle
61. Midbrain
62. Cerebral hemispheres
63. White matter of cerebrum
64. 3rd ventricle
65. Lateral ventricle
66. Thalami – Optic tract
67. Deep dissection of cerebral hemisphere & Internal capsule
68. Deep nuclei and connections of thalamus

DEMONSTRATION OF SPECIMENS

69. Thoracic wall Chambers of heart Coronary arteries Pericardium
70. LungsPleural cavity Diaphragm
71. Abdomen – Peritoneal cavityOrgans in abdominal & pelvic cavities

CLINICAL PROCEDURES

72. Intramuscular injections Deltoid muscleGluteal region Quadriceps femoris
73. Intravenous injection Median cubital vein Cephalic veinBasilic veinLong saplenous vein Short saplenous vein
74. Arterial pulsations Superficial temporal FacialCarotid Brachial Radial Femoral Dorsalis pedisLumbar puncture

g) SCHEME OF EXAMINATION

Distribution of Topics and Type of Questions for University Written examination:

Contents	Types of Questions and Marks	Marks
Questions from any topic included in the theory syllabus	Structured Essays 2x 10 marks	20
Questions from any topic included in the theory syllabus Except from the topics from which the long essays have been set	Short Notes Essays 4 x 5 marks	20
	Brief Notes 10x3 marks	
	Total	30
		70

i. Theory

UniversityWritten	70 Marks
Internal Assessment	10 Marks
Viva Voce:	
Examiner 1-Gross Anatomy- Examiner 2-Osteology, Surface Marking & embryology	20 Marks

ii. Practicals:

University Practical Examination:	80 Marks
Gross Anatomy including osteology Spotters (2 mark each) 2x 15	30 Marks
Discussion on Dissected parts (2 Specimens) 2x15	30 Marks
Histology –spotters (10 slides) 2x10	20 Marks
Internal Assessment:	20 Marks
Grand Total	200Marks

2. GENERAL HUMAN

PHYSIOLOGY a) GOAL

The broad goal of the teaching undergraduate students in Physiology aims at providing the student comprehensive knowledge of the normal functions of the organ systems of the body to facilitate an understanding of the physiological basis of health and disease.

b) OBJECTIVES

i. Knowledge

At the end of the course, the student will be able to:

(1) Explain the normal functioning of all the organ systems and their interactions for well co-ordinated total body function.

(2) Assess the relative contribution of each organ system towards the maintenance of the milieu interior.

(3) List the physiological principles underlying the pathogenesis and treatment of disease.

ii. Skills

At the end of the course, the student shall be able to:

(1) Conduct experiments designed for the study of physiological phenomena.

(2) Interpret experimental and investigative data

(3) Distinguish between normal and abnormal data derived as a result of tests which he/she has performed and observed in the laboratory.

iii. Integration

At the end of the integrated teaching the student shall acquire an integrated knowledge of organ structure and function and its regulatory mechanisms.

c) THEORY: 120 Hours

	Hours
1. GENERAL PHYSIOLOGY	**4**
Homeostasis: Basic concept, Feedback mechanisms Structure of cell membrane, transport across cell membraneBody fluid Compartments: distribution of total body water, intracellular & extracellular compartments, major anions & cations in intra and extra cellular fluid. Membrane potentials. RMP & Action Potential.	

2. BLOOD: 15

Composition & functions of blood, Plasma proteins - Types, concen-tration, functions & variations, Erythrocyte: Morphology, functions & variations.Erythropoiesis & factors affecting erythropoiesis, ESR- factors affecting, variations & significance.Haemoglobin - Normal concentration, method of determination [P] & variation in concentration, functionsAnaemia - Definition, classification, life span of RBC's destruction of RBC's, formation & fate of bile pigments, Jaundice - types.Leucocytes: Classification, number, percentage, distribution morphology, proper-ties, functions & variation. Role of lymphocytes in immunity, life span &fate of leucocytes. [Mention Leukemia]Thromobocytes - Morphol-ogy, number, variations, function.Haemostatsis – Role of vasoconstric-tion, platelet plug formation in haemostasis, coagulation factors, intrinsic & extrinsic pathways of coagulation, clot retraction.Fibrinolytic system.Tests of haemostatic function, platelet count, clotting time, bleeding time, prothrombin time - normal values, method & variations. Anticoagulants - mechanism of action.Bleeding disorders.Blood groups: ABO & Rh system, method of determination, importance, indications & dangers of blood transfusion, blood substitutes.[mention only] Blood volume: Normal values, variations.Functions of reticulo-endothelial system. Specific gravity,Packed cell volume,Methods of estimation [in practicals]Blood Indices - MCV, MCH, MCHC - definition, normal values, variation. LeucopoiesisThrombopoiesis.

3.MUSCLE AND NERVE 8

Classification of nerves,Structure of skeletal muscle - Molecular mechanism of muscle contraction, Neuromuscular junction and NM transmission. Properties of skeletal muscle.Structure and properties of cardiac muscle & smooth muscle.

4. DIGESTIVE SYSTEM : 10

Introduction to digestion: General structure of G.I. tract, Innervation.

Salivary glands: Saliva: composition, regulation of secretion & functions of saliva.Stomach: Composition and functions of gastric juice, mechanism and regulation of gastric secretion. HCl secretion. Physiological basis of Peptic ulcer management [briefly]Exocrine Pancreas - Structure, composition of pancreatic juice, functions of each component, regulation of pancreatic secretion.Liver : structure , composition of bile, functions of bile Gall bladder: structure, functions.Small intestine - Composition, functions Large intestine

- Functions.Motor functions of GIT: Mastication, deglutition, gastric filling & emptying, movements of small and large intestine, defecation.

5. EXCRETORY SYSTEM : 8

Structure & functions of kidney, functional unit of kidney & functions of different parts. Juxta Glomerular apparatus. Special functional features of renal circulation.Formation of Urine: Glomerular filtration rate - definition, normal values, factors influencing G.F.R. Tubular reabsorption
- Reabsorption of sodium, glucose, water & other substances. Tubular secretion - secretion of urea, hydrogen and other substances. Countercurrent mechanisms.Micturition: anatomy & innervation of Urinary bladder, mechanism of micturition.Determination of GFR.Role of kidney in the regulation of pH of the blood. Urinary bladder: abnormalities.

6. SKIN AND TEMPERATURE REGULATION [basics only] 4

7. ENDOCRINOLOGY 14

General endocrinology - endocrine glands & hormones. Second messengers. Endocrine function of hypothalamus.Hormones of anterior pituitary & their actions, Disorders of secretion of anterior pituitary hormones.Posterior pituitary hormones: actionsThyroid: secretion & transport of hormones, actions of hormones, regulation. Adrenal cortex & Medulla- action,Other hormones - Angiotensin, local hormones Pancreatic HormonePTHEndocrine Disorders to be taught with each gland.

8. REPRODUCTION 6

Physiological anatomy of male and female sex organs, Gonadotropic hormones. Sex chromatin.Female reproductive system: Menstrual cycle, functions and hormones of ovary. Ovarian and uterine changes during menstrual cycle.Actions of oestrogen &Progesterone control of secretion of ovarian hormones, fertilization, implantation, maternal changes during pregnancy and parturition. Lactation, milk ejection reflex.Male reproductive system, spermatogenesis, hormones-testosterone. Semen. Contraception.

9. CARDIO VASCULAR SYSTEM 15

Functional anatomy and innervation of heart. Properties of cardiac muscle. Origin & propagation of cardiac impulse and Pacemaker potential. Action potential.Cardiac cycle - Phases, Pressure changes in atria, ventricles & aorta. Volume changes in ventricles. Heart sounds.Jugular venous pulse Arterial pulse.Electrocardiogram- Basic principles only. Normal electrocardiogram. Heart rate: Normal value, variation.Stroke volume

and Cardiac output: definition, normal values, variations, factors affecting.Arterial blood pressure: Definition, normal values, variations, determinants. Regulation of heart rate, stroke volume, blood pressure: integrated concept. Coronary circulation: special features. Cardiac murmursCardiac output: one method of determination Cardio vascular homeostasis in exercise & posture.

10. RESPIRATORY SYSTEM **12**

Physiology of Respiration: External & internal respiration. Functional anatomy of respiratory passage & lungs. Respiratory movements: Muscles of respiration, Mechanism of inflation & deflation of lungs. Intra pleural & intra pulmonary pressures & their changes during the phases of respiration. Mechanics of breathing - surfactant, compliance & work of breathing [basics only].Spirometry: Lung volumes & capacities definition, normal values, significance, factors affecting vital capacity, variations in vital capacity, Pulmonary ventilation- alveolar ventilation & dead space - ventilation.Pulmonary circulation: Functional features. Composition of inspired air, alveolar air and expired air.Exchange of gases: Diffusing capacity, factors affecting it.Transport of Oxygen & carbon dioxide in the blood. Regulation of respiration- neural & chemical.Hypoxia, cyanosis, dyspnoea, periodic breathing. Artificial respiration.FEV & its variations. Pulmonary function testsRespiratory changes during exercise.

11. CENTRAL NERVOUS SYSTEM **10**

Organisation of central nervous system Neuronal organisation at spinal cord level, Synapse: functional significance.Receptors, reflexes, sensations and sensory tracts, motor system Physiology of pain. Referred pain.Analgesia systems.Functions of thalamus, cerebellum. Vestibular apparatus [basics only] Cerebral cortex: Basics of higher functions.Formation and functions of CSF: clinical significance. Autonomic nervous system.

12. SPECIAL SENSES **14**

Fundamental knowledge of vision, hearing, taste and smell. Errors of refraction.Tests of auditory function.

d) PRACTICALS

The following list of practical is minimum and essential.The entire practical have been categorized as procedures and demonstrations.The procedures are to be performed by the students during practical classes to acquire skills. All the procedures are to be included in the University practical examination.Those categorized as demonstrations are to be shown to the

students during practical classes. However these demonstrations would not be included in the University examinations but question based on this would be given in the form of charts, graphs and calculations for interpretation by the students.

Practicals & demonstrations: 60 hours

Practicals	**Hours**
Study of Microscope and its uses	02
Collection of blood and study of haemocytometer	02
Haemoglobinometry	02
Determination of RB count	08
Determination of WBC count	04
Determination of blood groups	02
Leishman's staining and differential leucocyte count	10
Calculation of blood indices	02
Determination of bleeding time	01
Determination of clotting time	01
Blood pressure recording	03
Auscultation of Heart sounds	02
Demonstrations	
Determination of Erythrocyte Sedimentation rate(ESR)	02
Determination of packed cell volume(PCV)	02
Determination of specific gravity of blood	02
Fragility test for RBC	02
Clinical examination of Cardiovascular and Respiratory System	03
Determination of vital capacity	02
Artificial respiration	02
Demonstration of deep and superficial reflexes	02
Activity of frog's heart and effects of Acetylcholine, Atropine and	02
Electrocardiography: Demonstration of recording of normal Electro	02
Total	**60**

e) SCHEME OF EXAMINATION *Types of Questions for written examination*

Type of Questions	**Marks**
Structured Essays 1x 10 marks	10
Short Notes 2 x 5 marks	10
Brief Notes 5 x 3 marks	15
Total	**35**

i. *Theory:*

University written Examination:	**35Marks**
University Viva:	**10Marks**
Internal Assessment:	**5 Marks**
Total:	**50 Marks**

ii. Practicals:

Internal Assessment:	**10 Marks**
University Practicals:	**40Marks**
Total:	**50 Marks**
Grand Total	**100Marks**

Mark distribution for University practical examination

Major Experiments: **20Marks**

Any one of the Major Experiments: R.B.C. Count, W.B.C. Count, Differential Count, Blood Pressure Recording

Minor Experiments: **15Marks**

Any one of the minor Experiments: Determination of Blood Groups, Determination of Bleeding & Clotting time, Haemoglobin Estimation, Calculation of absolute Hematological Indices–MCH, MCV, MCHC

Practical Work record: **5 Marks**

3. BIOCHEMISTRY, NUTRITION AND DIETETICS a) AIMS AND SCOPE

The major aim is to provide a sound but crisp knowledge on the biochemical basis of the life processes relevant to the human system and to dental/medical practice.The contents should be organized to build on the already existing information available to the students in the pre-university stage and reorienting. A mere rehash should be avoided.

The chemistry portion should strive towards providing information on the functional groups, hydrophobic and hydrophilic moieties and weak valence forces that organise macromolecules. Details on structure need not be emphasised.

Discussion on metabolic processes should put emphasis on the overall change, interdependence and molecular turnover. While details of the steps may be given, the student should not be expected to memorise them. An introduction to biochemical genetics and molecular biology is a must but details should be avoided. The exposure to antivitamins, antimetabolites and enzyme inhibitors at this stage, will provide a basis for the future study of medical subjects.An overview of metabolic regulation is to be taught by covering hormonal action, second messengers and regulation of enzyme activities. Medical aspects of biochemistry should avoid describing innumerable functional tests, most of which are not in vogue. Cataloguing genetic disorders under each head of metabolism is unnecessary. A few examples which correlate genotype change to functional changes should be adequate.

At the end of the course the student would be able to acquire a useful core of information, which can be retained for a long time.

b) THEORY: 70 HOURS

No.	TOPIC	HOURS ALLOTTED
I	**CARBOHYDRATES**	**12 hours**
	Definition, biological importance and classification. Monosaccharide's –Glucose, fructose, galactose, mannose	1
	Reactions: reducing property, oxidation, osazone, Molisch test. Define anomerism, epimerism with examples.	1
	Disaccharides-lactose, maltose, sucrose, Glycosidic bond, amino sugars, deoxy sugars	1
	Polysaccharides. Structures of starch and glycogen, Muco polysaccharides (definition, name, components, biochemical	1
	significance. nature of linkages not required) Dietary fibers. Digestion and absorption of carbohydrates. associated disorders(in brief)	1
	Glycolysis, fates of pyruvate Gluconeogenesis.	2

Glycogenesis, glycogenolysis,	2
Significance of pentose phosphate pathway. Importance of glucuronic acid.	1
Regulation of blood glucose. Diabetes mellitus: impaired fasting glucose, impaired glucose tolerance, gestational diabetes mellitus. Evaluation of glycemic status.	2

2 LIPIDS **9 hours**

Definition, biological importance and classification. Fats and fatty acids. Essential fatty acids. Introduction to compound lipids.	
Cholesterol.	2
Digestion and absorption of lipids	1
Beta oxidation of fatty acids	1
Fatty acid synthesis, (in brief)	1
Ketone body formation and utilization	1
Outlines of cholesterol synthesis and compounds formed from cholesterol	1
Plasma lipoproteins: Formation, function and dyslipidemia, Atherosclerosis.	2

3 ENZYMES **6 hours**

Definition, classification, specificity and active site. Cofactors.	1
Factors affecting enzyme action	2
Enzyme inhibition	2
Clinical important enzymes- AST,ALT,ALP,PSA, LDH,CK,G6PD,GGT	1

4 PROTEINS **9 hours**

Amino acids: Classification. Introduction to peptides, peptide bond Proteins: Classification. Charge properties. Buffer action. Levels of protein organization Denaturation.	3
Digestion and absorption of proteins. Nitrogen balance. Essential amino acids. Protein quality and requirement (methods for evaluation of protein quality to be excluded). Protein-calorie malnutrition, Balanced diet.(in brief)	2
Formation of Ammonia and Urea cycle.	1
Reactions of amino acids-transamination, trans methylation, trans sulfuration (in brief)	1
Compounds formed from glycine	1
Biologic importance of aromatic amino acids, sulphur containing amino acids, Aminoacidurias (in brief)	1

5 INTEGRATION OF METABOLISM **2hours**

High energy compounds, Electron transport chain and oxidative phosphorylation.

6 VITAMINS **5 hours**

Fat soluble vitamins A,D,E,K, sources, functions, daily requirements, deficiency, Toxicity 2

Water soluble vitamins B, C, sources, functions, daily requirements, deficiency, Toxicity 3

7 ACID BASE BALANCE **4 hours**

Buffers, respiratory and renal regulation, disorders, analysis

8 MINERALS **6 hours**

Classification, daily requirement. Calcium and phosphorous: sources, uptake, excretion, function. Serum calcium regulation. 2

Iron: sources, uptake and transport. Heme and nonheme iron functions; deficiency 2

Iodine: Brief introduction to thyroxine synthesis. General functions of thyroxine.

Fluoride: function, deficiency and excess 1

Indications of role of other minerals 1

9 HAEMOGLOBIN **3 hours**

Structure, synthesis, degradation 1

Hemoglobinopathies 1

Jaundice 1

10 PLASMA PROTEINS **2 hours**

Classification and separation. Functions of albumin. immunoglobulins. Biochemistry of AIDS.

11. LIVER FUNCTION TESTS **1 hours**

12. KIDNEY FUNCTION TESTS **1 hours**

13. MOLECULAR BIOLOGY **8 hours**

Nucleic acids: Building units. Nucleotides. Outline structure of DNA and RNA. 2

Formation and degradation of nucleotides. (in brief) Gout. Lesch- nyhan syndrome 2

Replication. Transcription. (in brief) Antimetabolites

and antibiotics interfering in replication, transcription	2
Outline of translation process.	2

14. Techniques-colorimetry, ELISA, RIA **2 hours**

c) PRACTICALS,DEMONSTRATION& SEMINAR: 60 hours

i. Practical: 45 hours

Sl.No.	Procedure	Hours
1.	Introduction to lab procedures	1
2.	Normal & abnormal constituents of urine	12
3.	Introduction to clinical chemistry	2
4.	Estimation of blood urea	2
5.	Estimation of serum protein	2
6.	Estimation of blood sugar	2
7.	Estimation of serum creatinine	2
8	Estimation of serum albumin	2

ii. Demonstration: 20 hours

Sl.No.	Procedure	Hours
1.	Electrophoresis	2
2.	Chromatography	2
3.	GTT charts	2
4.	LFT charts	2
5.	Revision	3

iii. Seminars: 15 hours

SCHEMEOF EXAMINATION

Types of Questions for written examination

Type of Questions	**Marks**
Structured Essays 1x 10 marks	10
Short Notes 2 x 5 marks	10
Brief Notes 5 x 3 marks	15
Total	**35**

i. *Theory:*

University written Examination:	**35Marks**
University Viva:	**10Marks**
Internal Assessment:	**5 Marks**
Total:	**50 Marks**

ii. Practicals:

Internal Assessment:	**10 Marks**
University Practicals:	**40Marks**
Total:	**50 Marks**
Grand Total	**100Marks**

Mark distribution for University practical examination;

One procedure for quantitative estimation	15marks
One procedure for qualitative analysis	20marks
Practical Work record:	5 Marks

The following Procedures are suggested for University Practical Examination:
Quantitative Estimation (Any ONE estimation to be done)

Estimation of blood sugar/serum creatinine/blood urea/serum protein/ serum albumin

Qualitative Analysis (Any ONE analysis to be done)
Urine Analysis–normal constituents Report of abnormal urine

4. DENTALANATOMY, EMBRYOLOGY AND ORAL HISTOLOGY

a) INTRODUCTION:
The course includes instructions in the subject of Dental Morphology, Oral Embryology, Oral Histology and Oral Physiology. A composite study of basic Dental Sciences & their clinical applications.

b) SKILLS
e student should acquire basic skills in:
Carving of crowns of permanent teeth in wax. Microscopic study of Oral tissues.
Identification of Deciduous & Permanent teeth
Age estimation by patterns of teeth eruption from plaster casts of differ-ent age groups.

c) OBJECTIVES

r a course on Oral Biology,

The student is expected to appreciate the normal development, morphology, structure & functions of oral tissues & variations in different pathological/ non- pathological states. The student should understand the histological basis of various dental treatment procedures and physiologic ageing process in the dental tissues.

The students must know the basic knowledge of various research methodologies

d) COURSE CONTENT

i. Theory: 105 hours

DENTALANATOMY	**HOURS**
1. Introduction, Dental Anthropology & Comparative Dental Anatomy	
2. Function of teeth.	**3**
3. Nomenclature.	
4. Tooth numbering systems (Different system) (Dental formula).	
5. Chronology of deciduous and permanent teeth. (First evidence of calcification, crown completion, eruption and root completion).	**2**
6. Deciduous teeth - a) Nomenclature. b) Importance of deciduous teeth.c) Form & function, comparative dental anatomy, fundamental curvature	**4**
7. Gross morphology of deciduous teeth.	**5**
8. General differences between deciduous and permanent teeth.	**1**
9. Morphology of permanent teeth.Chronology, measurements, description of individual surface and variations of each tooth.	**12**
10. Morphological differences between incisors, premolars and molars of same arch.	**1**
11. Morphological differences between maxillary and mandibular. incisors, canines, premolars and molars of the opposite arch	**1**
12. Internal Anatomy of Pulp.	**1**
13. Occlusion: a. Development of occlusion. b. Dental arch form. c. Compensating curves of dental arches. d. Angulations of individual teeth in relation to various planes. e. Functional form of the teeth at their incisal and occlusal thirds. f. Facial relations of each tooth in one arch to its antagonist or antagonists in the opposing arch in centric occlusion.g. Occlusal contact and interscusp relations of all the teeth	

of one arch with those in the opposing arch in centric occlusion. h. Occlusal contact and intercusp relations of all the teeth during the various functional mandibular **8** movements. i. Neurobehavioral aspect of occlusion

14. Temporo Mandibular Joint (T.M.J.):Gross Anatomy and articulation.Muscles (Muscles of mastication). Mandibular position and movements.Histology.
Clinical considerations with special emphasis on Myofacial Pain Dysfunction Syndrome (MPDS) - (Desirable to Know) **2**

ORAL PHYSIOLOGY

1. Theories of calcification **1**
2. Mastication and deglutition **1**

Oral Embryology, Anatomy and Histology:

1. Development and growth of face and jaws. **1**
2. Development of tooth. **3**
3. Cranial nerves with more emphasis on V.VII and IX. **1**
4. Blood supply, nerve supply and lymphatic drainage of teeth and surrounding structures **1**
5. Cell - structure and function **1**
6. Maxillary sinus - Structure, Variations, Histology function and clinical considerations
7. Salivary Glands - Classification, structure, function, Histology, Clinical Considerations and age changes. **4**
8. Oral Mucous membrane:Definitions, General consideration. Functions and classifications. Structure and microscopic appearance of gingiva, palate, lips, alveolar mucosa, tongue, floor of mouth. Gingival sulcus and dentogingival junction. **8**

Clinical considerations and age changes.

9. ENAMEL:Physical characteristics, chemical properties structure. Development - Life cycle of ameloblasts, Amelogenesis and Mineralisation. Clinical considerations. Age changes. **8**

10. DENTIN:Physical characteristics, chemical properties, structure.Types of dentin. Dentin innervation and hypersensitivity. Development - Dentinogenesis and mineralisation. Clinical considerations. Age Changes. **6**

11. PULP:Anatomy, structural features, functions, pulp organs. Developments. Clinical considerationAge changes. **6**

12. CEMENIUM:Physical characteristics, chemical properties, structure. Cementogenesis. Clinical consideration Age changes. **4**

13. PERIODONTAL LIGAMENT:Cells and fibers, Functions, Development, Clinical Considerations., Age Changes **5**

14. ALVEOLAR BONE:Physical characteristics, chemical properties structure. Structure, Development., Internal reconstruction, Clinical consideration. **5**

Tissue processing & Histochemistry **4**

THEORIES OF ERUPTION AND SHEDDING. **4**
(Physiological tooth movement)

ii. Practical: 250 Hours

DENTAL ANATOMY: Carving on wax blocks:-a. Individual tooth - Only permanent teeth of both arches.- Central, Incisors, Lateral, Canines, Premolars and 1st and 2nd molars

HISTOLOGY: List of Histology slides:**Development of tooth:**

1. Bud stage of tooth development.
2. Cap stage of tooth development.
3. Early bell stage of tooth development.
4. Late Bell stage of tooth development.
5. Root formation.

ENAMEL:

1. Enamel rod.
2. Hunter-Schreger Bands
3. Tufts, Lamellae, Spindles.
4. Incremental lines of Retzius.
5. Neonatal line.
6. Gnarled Enamel.

DENTIN:

1. Dentino - Enamel junction.
2. Dentinal Tubules.
3. Incremental lines of Von Ebner.
4. Contour lines of Owen.
5. Neonatal line.
6. Tomes granular layer.
7. Interglobular Dentin.
8. Secondary Dentin.
9. Intratubular Dentin.
10. Intertubular Dentin.

CEMENTUM:

1. Cellular cementum.
2. Acellular cementum.
3. Cemento enamel junction
   - Type 1 - 60% type - Overlapping.
   - Type 2 - 30% type - Butt
   - Type 3 - 10% type - Cementum & Enamel do not meet.
4. Sharpey's fibers.
5. Hypercementosis.

PULP:

1. Zones of Pulp.
2. Pulp stones.

PERIODONTAL LIGAMENT:

01. Principle fibers of Periodontal ligament
- Apical, Horizontal, Oblique, Alveolar crest, Interradicular, Transeptal

ALVEOLAR BONE:

1. Haversian system.
2. Trabeculated bone.
3. Mature and immature bone.

SALIVARY GLANDS:

1. Mucous gland.
2. Serous gland.
3. Mixed gland.

MAXILLARY SINUS:
Sinus lining (Pseudostratified ciliated columnar) (Desirable to know)

ORAL MUCOUS MEMBRAIN:

1. Parakeratinised epithelium.
2. Orthokeratinised epithelium.
3. Palate - Anterolateral zone.
4. Palate - Posterolateral zone.
5. Alveolar mucosa.
6. Vermilion border of lip.
7. Tongue - Circumvallate Papillae.
- Fungiform Papillae
- Filiform Papillae

Preparationof Ground sections, haematoxylin & Eosin sections & decalcified section

iii. Lecture demonstration:
Identification of Individual teeth
(1) Deciduous
(2) Permanent
(3) Mixed dentition using study models
(4) Demonstration of preparation of ground section, Decalcification, Paraffin section and H & E Staining.

e) SCHEME OF EXAMINATION

Distribution of Topics and Type of Questions for University written examination

Contents	Type of Questions and Marks	Marks
Dental anatomy - one question - 10 marks Detailed morphology of Permanent teeth, Differences between Primary & Permanent teeth, Occlusion and Arrangement of teeth.	Structured Essays 2x 10marks	20 marks
B. Oral histology - one question - 10 marks Development of tooth, Enamel-structure & development, Dentin-structure& development, Cementum, Dental pulp - structure & histology,	Short notes 4 x 5marks Brief Notes	20 marks

Periodontal ligament, Alveolar bone -structure & histology, Oral mucosa-structure & histology, Eruption of teeth

A. Oral histology - two questions - 10 marks B. Dental anatomy - one question - 5 marks C. Oral physiology - one question - 5 marks	Short Notes 4x5 marks 20marks

A. Oral histology - five questions - 15 marks B. Dental anatomy - three questions - 9 marks C. Oral embryology - two questions - 6 marks	Brief notes 10x3marks 30marks *Total 70 marks*

i. *Theory*

University written Examination:	70Marks
University Viva:	20Marks
Internal **Assessment:**	**10 Marks**

ii. Practicals:

Internal Assessment:	**20 Marks**
University Practicals:	**80Marks**
Grand Total	**200 Marks**

Mark Distribution for University Practical Examination:

Tooth Carving:(Time allotted 75 Minutes)	25 Marks
Spotters: (15X3 marks)	45 Marks
Practical work Record:	10 marks

Type of Spotters:

8 Histology and Ground Section slides
5 Tooth identification
2 Casts for identification of teeth, numbering system and age assessment

2.3. No. of hours per subject

I. BDS

Sl. No.	Subjects	Lecture (hrs)	Practical (hrs)	Clinical (hrs)	Total (hrs)
1.	General Human Anatomy including Embryology and Histology	100	175	—	275
2.	General Human Physiology	120	60	—	180
3.	Biochemistry, Nutrition and Dietetics	70	60	—	130
4.	Dental Anatomy, Embryology and Oral histology	105	250	—	355
5.	Dental Materials	20	40	—	60
6.	Pre clinical Prostho-dontics and Crown & Bridge	—	100	—	100
7.	Pre clinical Conser-vative Dentistry	—	100	—	100
	Total	**415**	**785**	**—**	**1200**

1. EXAMINATIONS

3.1 Eligibility to appear for University examinations a) Preface:

i. Evaluation is a continuous process, which is based upon criteria developed by with certain objectives to assess the performance of the learner. This also indirectly helps in the measurement of effectiveness and quality of the concerned B.D.S. programme.

ii. Evaluation is achieved by two processes

1) Formative or internal assessment

2) Summative or university examinations.

Formative evaluation is done through a series of tests and examinations conducted periodically by the institution.

Summative evaluation is done by the university through examination conducted at the end of the specified course.

b) Methods of evaluation:

Evaluation may be achieved by the following tested methods:

i. Written test

ii. Practical examination

iii. Clinical examination

iv. Viva voce

c) Eligibility criteria:

For a candidate to be eligible to write the university examination of an year of study for the first time he/she should have minimum 80% attendance in all the subjects in which examination is being held for the year of study and a minimum of 70% in Lectures and Practical/ Clinical separately in all the non-exam subjects for the year (Refer Section 1.8). However candi- dates with such 80% attendance in all the subjects of study for which university examination is held for a particular year will be eligible to at -tempt the university examination only in those subjects in which he/she has secured the minimum requirement of 40% of internal assessment marks. A candidate can reappear for university examination in the failed subjects provided he/she has secured minimum 70% attendance (theory & practi-cal separately) and have scored minimum 40% marks in internal assess-ment conducted for the subject during the supplementary period.

Schedule of regular/Supplementary examinations

The University examination for a subject shall be conducted twice in a year as per the schedule approved by the Board of Examinations at an interval of not less than four to six months as notified by the university from time to time.

Scheme of examination Showing Maximum and Minimum Marks

The scheme of examination for B.D.S. Course shall be divided into 1st B.D.S. examination at the end of the first, 2nd B.D.S. examination at the end of second, 3rd B.D.S. examination at the end of third and Final BDS Part I examination at the end of fourth academic year. The Final

B.D.S part II examination will be held on completing six months of the fifth academic year. The examination shall be open to a candidate who satisfies the requirements of attendance, progress and other rules governing the institution and The University.

1. Distribution of Marks

i. For each paper in which written examination is held: Theory

University written examination	70	
University Viva Voce	20	
Internal assessment	10	
Total	100	
Practical/ clinical		
University Practical/ Clinical examination		80
Internal assessment		20
Total		100

Aggregate marks for each paper	200

ii. For Preclinical Examination in Prosthodontics/Conservative Dentistry & Orthodontics

University Practical examination	60
Viva voce	20
Internal assessment Practical	20
Total	100

preclinical examination in each subject is to be conducted separately.

Details of theory examination (written)

1. The written examination in each paper will be of three hours duration and shall have maximum marks of 70. Type of Questions and Distribution of marks for written examination should be as given in table I given below.
2. The paper of Physiology & Biochemistry will be divided into two Sections, Section A (Gen. Physiology) and Section B (Biochemistry) of equal marks. Type of Questions and Distribution of marks for written examination should be as given in table II below.
3. The paper of Pathology & Microbiology will be divided into two Sections, Section A (Gen. Pathology) and Section B (Microbiology) of equal marks. Type of Questions and Distribution of marks for written examination should be as given in table III below.
4. The paper of Dental Materials will be divided into two Sections, Section A (Prosthodontics) and Section B (Conservative Dentistry) of equal marks. Type of Questions and Distribution of marks for written examination should be as given in table IV below.
5. The question paper should contain different types of questions like essay, short note and brief note.
6. The nature of questions should be aimed to evaluate students of different standards ranging from average to excellent.
7. The questions should cover as broad an area of content of the course as possible. The essay questions should be properly structured and the marks specifically allotted.

Table I.

Type of Question	No. of Question	Marks / Question	Total Marks
Structured Essay	2	10	20
Short note	4	5	20
Brief note	10	3	30
Grand Total			**70**

Table II.

Physiology and Biochemistry

Subject	*Type of Questions*	*No. of Questions*	*Marks of Questions*	*Total Marks*
Section A *Physiology*	*Structured Essay*	*1*	*10*	*10*
	Short note	*2*	*5*	*10*
	Brief note	*5*	*3*	*15*
GrandTotal				***35***

Rules & Regulations

GENERAL RULES OF PUSHPAGIRI COLLEGE OF DENTAL SCIENCES

General Behaviour

a) All students are expected to conduct themselves with decorum and discipline at all times and in all places. Each one should maintain the highest moral standard always and refrain from using foul language.

b) Students should report for classes punctually at 8 am.They should not loiter around during class hours and should refrain from noisy unruly behavior in the college and class rooms.

c) Students are not permitted to use mobile phones at all in the college campus.

d) Students are not allowed to bring any vehicles into the college campus or the hostels.

e) All assignments and other works given by teachers should be regularly done and submitted in time.

f) Students are expected to be polite and courteous in their behavior at all times.

g) Students should not deface or dirty the walls, benches or other furniture. Classrooms and surroundings should be kept tidy and clean. Litter should be put in the waste bins only.

h) For irregular attendance, disobedience, malpractice at exams or any action not conducive to the moral tone and discipline of the institution, a student may incur punishment including suspension or dismissal.

i) Hostels are out of bounds to the day scholars.

j) Students are responsible for any valuables/ cash carried by them and the institution will not be responsible for any loss sustained. However this may be reported to the Principal's office.

k) Any damage done to the college property should be paid for.

l) Any serious breach of discipline including discourtesy and disrespect to the staff/management/wardens in any way will be taken seriously.

m) Parents staying abroad should give the contact details of a responsible guardian who can take the entire responsibility of the ward, in the absence of the parent.

n) Gambling, smoking, consumption of alcoholic drinks, reading/ browsing of pornographic material, keeping or using of dangerous drugs is prohibited.

o) Ragging in ANY FORM is STRICTLY prohibited and any indulgence in such activity will result in IMMEDIATE EXPULSION. Ragging,

whether physical or psychological, is a criminal offence before the Indian Law, as detailed in 'The Kerala Prohibition of Ragging Act-1998' , Act 10 of 1998 published in Kerala Gazette Extra No.1007 dated 24/6/1998. The Principal will notify the offence to the police if deemed necessary, after consultation with the management.

p) Students are prohibited in getting engaged in political agitations, strikes or demonstrations of any kind. They should not put up or circulate notices, hold meetings or collect subscriptions of any sort, under any circumstances, anywhere in the college or hostel premises, without prior permission from the Principal.

Dress Code

Students should wear clean, neat and presentable Uniform clothing. Boys should be clean shaved.

Dress Code for Boys

- Uniform
- Shoes and Socks
- Clean white apron with name tag

Dress Code for Girls

- Uniform
- Closed foot wear
- Hair (beyond shoulder length) to be tied up
- Clean white apron with nametag

In case of violation of the dress code, the student concerned will be asked to leave the academic session.

Fees structure

Tution Fee

All students should remit the tuition fees for the academic year within the stipulated time period. Late payment would result in fine.

College Caution Deposit

A onetime refundable caution deposit should be paid at the time of admission.

Hostel Fee

Hostel fees should be paid for one full year at the time of admission.

Late payment would result in fine.

Hostel Caution Deposit

A onetime refundable caution deposit should be paid at the time of admission. This shall be refunded once the student vacates the hostel.

Hostel Mess Fee

Hostel provides both vegetarian and non-vegetarian food for students. Students should pay the mess fee for 6 months in advance to the Mess Contractor. Students can avail reduction of mess fees if they are not in hostel for a minimum of 5 days.

Transportation Fee

Transportation is available for the students from Dental College to Medical College.

Mode of payment

Fees can be remitted as online transfer to the Pushpagiri College of Dental Sciences account or in the form of Demand Draft drawn in favour of Pushpagiri College of Dental Sciences payable at Thiruvalla.

CSB Bank Ltd

Account Name: Pushpagiri College of Dental Sciences

Account No: 024804176659190018

Branch: Railway station road, Chilanka Junction, Thiruvalla

IFSC Code: CSBK0000248

Details for DD

In favour of Pushpagiri College of Dental Sciences

Payable at Thiruvalla

Academics

The medium of instruction is English. All students must be in possession of the identity cards provided by the college. Any loss should be promptly reported to the Principal. The cards must not be mutilated, defaced or rendered ineffective for identification. The card must be returned at the termination of course/withdrawal from the institute.

Students would be assigned assignments, project works, seminars, practical exercises during their academic curriculum. **Students should have a minimum of 80% attendance and 40% of internal assessment marks which is mandatory for appearing in the University examination. Internal assessment marks for a student in a subject will be calculated as the average of the marks obtained in the model examination(compulsory) and the highest among all other internal examinations in the subject. Any student who fails to achieve the required criteria would be ineligible for University examinations.**

Regular PTA meeting would be arranged for the interaction of the parent with the teachers to discuss the performance of their ward. Parents are requested to attend the scheduled PTA meetings without fail.

Students are advised to make full use of the central library available which has a large collection of books and latest journals.The library also has internet facility. Students are responsible for any textbooks, library books, or any equipment loaned to or used by them. If misused or damaged, students will be responsible for charges to repair or replace. Students should maintain perfect silence in the library.

Interfering or tampering any of the office records of college/ university is a serious offence and will result in suspension/ rustication.

Students can avail leave on special grounds only with prior permission of the HODs concerned.

Any student involved in or encouraging the involvement of another student in fighting will be suspended. Persistent involvement will result in expulsion from the college.

Ragging

Ragging within or outside the institution is prohibited. Students who directly or indirectly commits, participates in, abets or instigates ragging inside or outside the institution shall be suspended, expelled or rusticated from the institution. The punishment includes rigorous imprisonment, cancellation of admission, suspension from attending classes, withholding/ withdrawing fellowship/scholarship and other financial benefits.

Ragging includes display of noisy, disorderly conduct, teasing, rough or rude treatment, indulging in rowdy, undisciplined and obscene activities which cause or are likely to cause annoyance, undue hardship, physical

or psychological harm or mental trauma or raise apprehension or fear in a fresher or other students, or forcing a student to do any act which such a student is not willing to do or which causes him/ her shame or embarrassment or danger to his/her life or indulging in eve teasing. The students are reminded that ragging in educational institutions in the state of Kerala is a crime and punishable by imprisonment upto 2 years and a fine upto Rs 10000/- according to the Kerala Prohibition of Ragging Act 1998(Act 10 of 1998) the offending students also invite expulsion from the college and are banned from admission to any college for a period of 3 years.

All students should file an online affidavit through the website www.antiragging.in or www.amanmovement.org.The online affidavit should be signed by the student and parent and submitted to the college office at the time of admission.

Information for Students

1. To become a good professional, the student should be very clear in his/her ambition and set appropriate goals for themselves.
2. The priorities for the day should be clear in the mind.
3. Proper time management is very essential (with proper time management a student can easily have 3 hours of relaxation per day and read for 5 hours per day).
4. Mind and body should be kept active. Priorities and ambition may be forgotten if relaxation is overdone.
5. Attendance and internal assessment are two valuable tools to monitor the academic progress of a student. To avoid anxiety and tension before exam one should maintain a good record of attendance and internal assessment. Though 100% attendance is essential, 20% absenteeism is permitted to cover ill health and family commitments.
6. It is advisable that students stay only in hostels. When in hostels, they are expected to abide by the hostel rules and regulations. It is mandatory for students to keep the warden informed of their visits to a friend or relative or if he or she is going to be away from the hostel for more than a day. Students should not keep costly and valuable items in the room.
7. The behaviour of the student in and around the campus should befit the noble profession they have opted for. Lab coats (apron) should be worn only inside the campus.
8. During clinical postings, should behave appropriately when dealing with patients.
9. Students are expected to strictly observe the dress code of the institution.

10. Indiscipline will be dealt with as per rules and the nature of punishment can vary from suspension to dismissal from the institution.
11. In case of ill health, students should report to the casualty at Pushpagiri Medical College Hospital.
12. Any student involved in criminal offences in the campus and any indiscipline outside the campus will be handled by the concerned authorities.
13. The following are banned and severely dealt with:
    - Drugs, drinking (liquor) and smoking
    - Ragging & eve teasing
    - Cheating, stealing, provocation, coercion, threats, pressure tactics & fights
14. Appropriate stringent action has been taken to prevent ragging. Anti-ragging Committee, Anti-ragging Squad, are the committees which will oversee and take appropriate steps to prevent ragging.
15. **Students are not permitted to use mobile handsets with camera in the college. The equipment shall be confiscated if the student is found to possess it.**

Mandatory Vaccination for all students

- **Hepatitis 'B' Vaccine:** 3 doses
- 0, 1, 6 months (Intra muscular)

Optional Vaccination for students

- **Chickenpox Vaccine:** 2 doses
- 0, 6 Weeks (Subcutaneous)
- **Typhoid Vaccine:** Single dose (Intramuscular)
  3 years immunity following vaccination **Hepatitis A Vaccine:** 2 doses 0, 6 months

LEAVE RULES FOR BDS STUDENTS

1. Application for leave **up to three days** need be submitted only to the concerned departments and approval must be obtained prior to availing the leave.
2. Other than for special circumstances, leave for **four days or more** shall be granted only on medical grounds.
3. The student availing medical leave should, as soon as possible, inform the class representative by telephone.The class representative should inform the concerned departments and the college office regarding the same.
4. Leave on medical grounds should be submitted to the college office on the day of rejoining along with the medical certificate.

5. Student staying in the hostel need to submit separate leave application approved by the Vice Principal to the Hostel Warden.
6. Separate application forms are available in the college office for:-
   a. Leave up to 3 days.
   b. Leave for 4 days or more.
   c. Leave from hostel

HOSTEL FACILITIES AVAILABLE

St. Thomas Hostel for Men

St. Alphonsa Hostel for Women

General information about hostels

Separate hostel accommodation is provided for men and women. All BDS students should stay in the hostel, except for those residing within a radius of three kilometers from the college campus.

Administration

The Principal will be in charge of the overall administration of the students' hostels. The day to day administration of the hostels will be done by the Warden in charge of the hostel. Wardens and assistant wardens will be appointed by the Chief Executive Officer as and when required with due information to the Principal.

The wardens shall be in contact with the Director- Medicity, who is also in charge of student welfare in all the hostels. He shall render spiritual and moral assistance to the students through personal counselling and guidance. He will be available in his office during fixed times and on appointment.

The Holy Mass is being celebrated in the Chapel every day at 6.00 am. All Christian students are expected to attend the Holy Mass and other prayer facilities available in the Chapel.

IMPORTANT CONTACT NUMBERS

Hostels:

St.Thomas Hostel (Boys)	-	0469 2623326
Warden - Mr Varghese	-	9495726214
Alphonsa Hostel (Girls)	-	0469 - 2645183
Chief Warden		0469 - 2645123
St. Theresitt F.D.S.H.J	-	9048700079

HOSTEL RULES AND REGULATIONS

1. It is mandatory for students to staying in the hostels to be a member of the mess of the hostel.
2. The Chief Warden reserves the right to break open rooms in case of any violation of hostel rules, suspected unlawful activities or on the basis of security risk perceived.
3. Students are requested to avoid shouting, playing loud music or making all types of noises which are likely to distract the attention of those who may be studying in their rooms.
4. Pets of all kinds are prohibited inside the hostel. Feeding stray dogs or cats in the hostel premises is not permitted.
5. All visitors including parents/ guardians must be entertained only in the visitors lounge and during visiting hours only. A visitors pass will be obtained from the office of the chief warden, well in advance by concerned student.
6. Cooking in hostel rooms is not permitted.
7. All instructions/ notices displayed on notice boards will be deemed to have been read by all residents and excuses for non-compliance of such instructions and notices will not be accepted. Residents are advised to look at the notice board everyday to acquaint themselves with latest information/orders.
8. Students must switch off all lights and fans, and electrical appliances if any before leaving their rooms. This is necessary to avoid an inadvertent fire.
9. In case of Fire: Residents must raise an alarm and call the hostel Warden. They should also alert the Security.
10. The Chief Warden/ Warden or his representative may enter any room for verification at any time of the day or night.
11. The management reserves the right to break open the rooms in case of violations of hostel rules, suspected unlawful activities and security risk cases or where the student is absent from his room for a long period without prior information or any valid reason.This will, however, be carried out by the security person in the presence of the hostel Warden. On such occasions, the items in the room will be listed by these officials and kept in the store room. A verbal report, followed by a written report will be sent to the higher authorities.
12. Proxy or dummy room-mates are forbidden. Strict action will be taken if accommodation is held as proxy. They are liable to be removed from the hostel. Residents are not permitted to allow their rooms to be used by others. All visitors and non-

residents including students from other hostels must leave the hostel/ other students rooms during nights. All residents are advised to extend their fullest co-operation to see that no unauthorised persons enter or stay in the hostel premises. If they happen to find any such person, they should demand the permit/ Identity Card and if it is not forthcoming, the matter should be brought to the notice of the Warden for further action.

13. RAGGING IN ANY FORM IS BANNED INSIDE AND OUTSIDE THE CAMPUS. STRICT ACTION WILL BE TAKEN AGAINST THE DEFAULTERS. NO LENIENCY WILL BE SHOWN TO THE OFFENDERS. SUSPENSION AND OR WITHDRAWAL FROM THE HOSTEL/ COLLEGE IS ONE OF THE ACTIONS TAKEN PROMPTLY. SUPREME COURT HAS ALSO DEFINED RAGGING AS A CRIMINAL OFFENCE.
14. All hostel inmates must report any disciplinary matter or problems concerning them or their room-mate/ neighbour(s) coming to their notice to the Warden/ Chief Warden. In case their room-mate is absent from the room or is sick / admitted in the hospital or is in any kind of physical/mental trouble or is indulging in any bad practices the same must be immediately brought to the notice of the Warden or the Chief Warden.
15. No televisions are permitted to be kept in the hostel rooms by the students. Students have to watch TV in the common TV room provided in the hostels.
16. Security of ATM/Debit cards: All residents must take care of their ATM/ Debit cards. They must not disclose their PIN to anybody-even to their best friends.
17. Water is an essential but scarce commodity. All residents are requested to use water judiciously and preserve it. Leakage etc. in the bathrooms should be immediately reported to the Warden.
18. All complaints regarding repairs/maintenance in the Hostels must be entered personally by the students in Complaint Registers maintained in all the Hostels. All complaints are also monitored regularly by the Warden/Chief Warden.
19. Residents of the hostels are not permitted to convene meetings of any sort in the Hostel premises without the prior permission of the Warden/Chief Warden. Disobedience of this rule will be severely dealt with.
20. There are Suggestion Boxes kept in all the hostels for suggestions if any from the residents. Residents may drop their suggestions and complaints if any, duly signed with their names and roll numbers in these Suggestion Boxes which are opened periodically. Appropriate action will be taken on all suggestions/ complaints and a feedback given to the student(s). No cognizance of anonymous suggestions/ complaints will be taken.

21. The Warden and Chief Warden are available round-the-clock on telephone, and may be contacted in case of any emergency.
22. If a resident falls sick, he/ she or room-mate/friend must immediately inform the caretakers/ person on duty who will make arrangements to shift/ evacuate the student to the hospital and look after him/ her.All cases of sickness must be immediately reported to the Medical Officer, at the Out-Patient/Emergency/ Trauma Department of Pushpagiri Medical College for necessary treatment. In case a resident is quite unable to leave the room and go to the Hospital, the matter must be reported to the Warden**.** Information regarding any resident falling sick or getting admitted in the hospital must be relayed to the hostel/ college authorities on priority.
23. The use of mobile phones in the hostels is permitted only during the stipulated time as informed by the hostel wardens.

Anti – Ragging Committee 2020-2021

The anti – ragging committee of the college for the academic year 2020-2021.

1. Chairman	:	Dr K. George Varghese Principal Mob: 9447021617
2. Civil Administration	:	Tahasildar, Thiruvalla Phone: 0469 2601302
3. Police Administration	:	Circle Inspector of Police, Thiruvalla Ph: 0469 2738100
4. Local Media	:	Saji Abraham, Deepika (Daily) Thiruvalla Mob: 9447263556
5. Non-Govt. Organisation	:	Shibu Puthukeril President, Malankara Catholic Youth Movement, Thiruvalla Mob: 9447059400
6. Representatives of faculty members	:	Dr Benley George, Vice Principal Administration Mob: 9745015511
	:	Dr Aby Mathew T, Prof and HOD Dept. of Prosthodontics Mob: 9447507164
	:	Dr Biju Sebastian, Vice Principal (Academics) Mob: 9446539062
	:	Dr Lisa Elizabeth Jacob, Senior Lecturer, Mob: 9446644648
7. Representatives of parents	:	Mr Saji M. Mathew Mob: 9497744080
	:	Mr Koshy. P. Koshy Mob: 9447261495
8.Representatives of students	:	Ms Kripa Mariyam Kurian IV BDS Part I
	:	Mr Ashik Thomas III BDS
	:	Mr Abhiram Valiyath Kurup II BDS
9. Non teaching staff	:	Fr Aby Vadakkumthala, Director Institutions Mob: 9745355517

STUDENT MENTORS 2020-2021

I BDS	:	Dr Sharlene Sara Babu Mob: 9495017067
II BDS	:	Dr Minimol K Johny Mob: 9048820602
III BDS	:	Dr Ravi Rajan Areekkal Mob:9207696406
IV BDS Part I	:	Dr Prameetha George Mob: 9495080021
IV BDS Part II	:	Dr Vinesh U Mob: 8281377603

BUS TIMINGS FROM MEDICITY TO MEDICAL COLLEGE AND RETURN

Monday	8.00 a.m	4.00 p.m
Wednesday	8.00 a.m	1.00 p.m
Friday	8.00 a.m	3.30 p.m
Saturday	8.30 p.m	3.00 p.m

I BDS Examination Schedule

1st Internal Assessment Examination - 2nd week of January 2021

2nd Internal Assessment Examination – 3rd week of March 2021

3rd Internal Assessment Examination – 2nd week of June 2021

University Examination – July 2021

FLOOR MAP

LEVEL 1

Office of the Principal
Administrative Office
Dept. of Oral Medicine and Radiology
Store
Medical Records Room
Haematology Lab
Priority Clinic
Chapel
Cafeteria

LEVEL 2

Dept. of Oral and Maxillofacial Surgery
Dept of Oral Implantology
Lecture Hall – 1
Lecture Hall - 2

LEVEL 3

Dept. of Public Health Dentistry
Dept. of Pedodontics
Auditorium
Lecture Hall - 3

LEVEL 4

Dept. of Orthodontics
Dept. of Periodontics
Laser Clinic

LEVEL 5

Dept. of Conservative Dentistry
Dept. of Prosthodontics

LEVEL 6

Dept. of Oral Pathology
Lecture Hall – 4
Preclinical Labs
Conservative Dentistry
Prosthodontics
TMJ Clinic
Orthodontics/Pedodontics

LEVEL 7

Library
Examination Hall – 1
Examination Hall - 2
Common Room – Boys
Common Room - Girls

FACULTY LIST

Designation & Dept. Name		Qualification
Principal	Dr. K George Varghese	MDS
Department of Prosthodontics		
	Prof & Head Dr.Aby Mathew T	MDS
	Professor Dr. Suja Joseph	MDS
	Professor Dr. Annie Susan Thomas	MDS
	Reader Dr. Haby Mathew Somson	MDS
	Senior Lecturer Dr. Rene Kuriakose	MDS
	Senior Lecturer Dr. Shibi Mathew V	MDS
	Senior Lecturer Dr. Joshy P Abraham	MDS
Department of Conservative Dentistry and Endodontics		
	Professor & Head Dr. A. Devadathan	MDS
	Professor Dr. Baby James	MDS
	Assoc Professor Dr. Jose Jacob	MDS
	Reader Dr. Manuja Nair	MDS
	Reader Dr. Minimol K Johny	MDS
	Senior Lecturer Dr Fathima Amal P	MDS
	Senior Lecturer Dr Naiza Elsa Geojan	MDS
Department of Oral Pathology		
	Professor & Head Dr. Sunil S	MDS
	Associate Professor Dr. Sharlene Sara Babu	MDS
	Sr. Lecturer Dr. Arjun Parameswar	MDS
	Reader Dr Tibin K Baby	MDS
Department of Oral & Maxillofacial Surgery		
	Professor and Head Dr K George Varghese	MDS
	Professor Dr. Eapen Thomas	MDS
	Reader Dr. Akhilesh Prathap	MDS
	Reader Dr. Vinesh U.	MDS
	Sr Lecturer Dr Nithin Pratap	MDS
	Sr Lecturer Dr Ravi Rajan Areekal	MDS
Department of Periodontics		
	Professor & Head Dr Thomas George	MDS
	Professor Dr Nebu George Thomas	MDS
	Prof. Dr Jacob George	MDS
	Prof Dr. Annie Kitty George	MDS
	Reader Dr. Soumya John	MDS
	Senior Lecturer Dr. Prameetha George	MDS

Department of Orthodontics

Professor & HOD Vice Principal Academics
Dr Biju Sebastian MDS
Professor Dr Jacob John MDS
Reader Dr. Navin Oommen Thomas MDS
Senior Lecturer Dr. Merin Elsa Abraham MDS

Department of Pediatric Dentistry

Professor and Head Dr Elizabeth Joseph MDS
Reader Dr. Subbalekshmi MDS
Reader Dr. John Philip MDS
Sr Lecturer Dr. Sherin Sara George MDS
Sr Lecturer Dr Miranda Ann George MDS

Department of Oral Medicine

Professor & Head Dr. Omal P.M. MDS
Assoc Prof Dr. Anuna Laila Mathew MDS
Senior Lecturer Dr. Lisa Elizabeth Jacob MDS
Senior Lecturer Dr. Anju Mathew MDS

Department of Public Health Dentistry

Associate Professor & HOD & Vice Principal (Administration) Dr. Benley George MDS
Reader Dr. Rino Roopak Soman MDS

Senior Lecturer
Dr. Vinod Mathew Mulamoottil BDS MPH

Lecturers

Dr. Anil Kurian BDS
Dr. Renjini V R BDS
Dr. Sherly Sajan Mathews BDS
Dr. Sheryl Elizabeth Kuriakose BDS
Dr. Renu Mathew BDS
`
Dr. Sunu Alice Cherian BDS
Dr. Thomas Abraham BDS
Dr. Ambil Sara Varghese BDS
Dr. Mahima James BDS
Dr. Denny Thomas BDS
Dr. Immanuel Mathew Kurian BDS

DEPARTMENT OF DENTISTRY - OP – PIMS & RC

Professor & HOD,
Department of Dentistry Dr Jacob George MDS
Dr Terin Boby BDS
Dr Maria Francis BDS

LIST OF HOLIDAYS FROM AUGUST 2020 TO JULY 2021

Independence Day: 15th August (Saturday)

Onam Holidays : 26 August to 03 August

Re-Union Day : 21st September (Monday)

Vijaya Dashami :

Gandhi Jayanti : 2nd October (Friday)

Deepavali : 14th November (Saturday)

Christmas Holidays :
22nd December to 29th December

Republic Day : 26th January (Tuesday)

Holy Week : 31st March to 03rd April

Wednesday to Easter Sunday

Dr. B. R. Ambedkar Jayanthi
: 14th April (Wednesday)
Vishu: 15th April (Thursday)

Eid-ul-fitr : 13th May (Thursday)

St. Thomas day : 3rd July (Saturday)

PARENTS' DECLARATION

I, ... hereby declare that I have gone through the rules and regulations for the BDS Pushpagiri College of Dental Sciences. I hereby agree that myself and my son/daughter ..... shall abide by all these rules and regulations. In case any Indiscipline / improper conduct occur from his / her side, he/she is liable to be punished. I fully understand such disciplinary actions shall not be revoked under any circumstance.

Date : Name

Signature

Details of the parent and / or guardian

Details	Parents	Local Guardian
Name	Father : Mother :	
Signature	Father : Mother :	
Permanent Address		
Address for communication		
Land Phone No.		
Mobile Phone No.	Father : Mother :	
E-mail Address	Father : Mother :	

Dr. K. George Varghese
Principal

TIME TABLE FOR I BDS (2016-2017) KUHS

MONDAY	8.30 -1.00			1 - 1.30	1.30 - 3.30	
	General Anatomy			**BREAK**	**Physiology**	
TUESDAY	8.00 - 10.00	10.00 - 1		1-1.30	1.30 - 3.30	
	Preclinical Prosthodontics	**Dental Anatomy Practicals**		**BREAK**	**Dental Anatomy Practicals**	
WEDNESDAY	8.00-10	10 - 1		1-1.30	1.30 - 3.30	
	Dental Anatomy / Oral Histology Theory	**Dental Anatomy / Oral Histology Practicals**		**BREAK**	**Preclinical Conservative Lab**	
THURSDAY	8.30 - 10.00	10.00 - 12.30		12.30-1.30	1.30 - 3.30	
	Biochemistry Lecture	**General Anatomy**		**BREAK**	**Dental Materials Lecture / Lab**	
FRIDAY	8.30-9.30	9.30-10.30	10.30-1.00	1.00-1.30	1.30 - 3.30	
	Anatomy Lecture	**Physiology Lecture**	**Physiology / Biochemistry Practicals/ Theory**	**BREAK**	**Physiology / Biochemistry Practicals/ Theory**	
SATURDAY	9-10	10 -1.00			1-1.30	1.30 - 3.00
	Physiology Lecture till December / Biochemistry	**General Anatomy**			**BREAK**	**Biochemistry Lecture**

PUSHPAGIRI COLLEGE OF DENTAL SCIENCES * PUSHPAGIRI MEDICITY * TIRUVALLA-T

GEORGE VARGHESE
PRINCIPAL
Pushpagiri College of Dental Sciences

TIME TABLE FOR II BDS (2016 - 2017) KUHS

MONDAY	8-9.15	10-11	11-12	12-1	1.15 - 3.15	
	Dental Materials Lecture	**Microbiology**	**Pharmacology**	**BREAK**	**Preclinical Conservative Lab**	
TUESDAY	8-9.15	10.00-12.30		12.30-1.15	1.15 - 3.15	
	Preclinical OrthodonticLab	**Pharmacology**		**BREAK**	**Preclinical Prosthodontics Lab**	
WEDNESDAY	8-9	9-10	10- 12	12-1	1-3	
	Radiology Lecture	**Oral Pathology Lecture**	**Dental Materials Lab**	**BREAK**	**Preclinical Orthodontics Lab**	
THURSDAY		9-12		12-1	1-3	
		General Pathology		**BREAK**	**Preclinical Conservative Lab**	
FRIDAY	8-9.15	10-12	12-1	1-2	2 - 4	
	Prosthodontics lecture	**Microbiology**	**Pharmacology**	**BREAK**	**Dental Materials Lab**	
SATURDAY	8-9.45	10.00 -12.00			12.00-1.00	1.30 - 3.30
	Preclinical Conservative Lab	**Preclinical Prosthodontics**			**BREAK**	**General Pathology**

Medical College Dental College

PUSHPAGIRI COLLEGE OF DENTAL SCIENCES

TIME TABLE FOR III BDS (2016-2017) KUHS

Day	8 a.m - 9 a.m	9 a.m -10 a.m	10.00 a.m - 12.30 p.m	12.30 p.m -1 p.m	1.00p.m-3.30 p.m
MONDAY	Pedodontics Lecture	Orthodontics Lecture	Clinics	BREAK	Oral Pathology Lab
TUESDAY	8 a.m - 9 a.m Public Health Lecture	9 a.m -10 a.m Oral Pathology Lecture	Clinics	BREAK	1.30 p.m - 2.30 p.m Oral Surgery Lecture
WEDNESDAY	8 a.m - 12.00 noon General Medicine / General Surgery Clinics		12.00 noon - 1.00 p.m General Medicine Lecture	1.00-1.30 p.m BREAK	1.30 p.m - 3.00 p.m Clinics
THURSDAY	8 a.m - 9 a.m Oral Pathology Lecture	9 a.m -10 a.m Oral Medicine Lecture	10.00 a.m - 12.30 p.m Preclincal Prosthodontics Lab	12.30-1.00 p.m BREAK	1.00 p.m - 3.30 p.m Oral Pathology Lab
FRIDAY	8 a.m - 12.00 noon General Medicine / General Surgery Clinics		12.00 noon - 1.00 p.m General Surgery Lecture	1.00-1.30 p.m BREAK	1.30 p.m - 3.00 p.m Clinics
SATURDAY*	8 a.m - 9 a.m Periodontics Lecture	9 a.m -10 a.m Conservative Lecture	10.00 a.m - 12.30 p.m Clinics	12.30-1.00 p.m BREAK	1.00-2.00 p.m Clinics / 2.00 p.m - 3.00 p.m Prosthodontics Lecture

* On Second Saturdays, the Prosthodontics lecture hour will be from 12.00 noon to 1.00 p.m. No Class/Clinics will be there after 1.00 p.m

PUSHPAGIRI COLLEGE OF DENTAL SCIENCES PUSHPAGIRI MEDICITY TIRUVALLA

PRINCIPAL
Pushpagiri College of Dental Sciences

TIME TABLE FOR IV BDS Part I (2016-2017)

Day	8 a.m - 9 a.m	9 a.m -10 a.m	10 a.m - 12.30 p.m	12.30 p.m -1 p.m	1 p.m - 3.00 p.m
MONDAY	Pedodontics Lecture	OMFS Lecture	Clinics	BREAK	Clinics
TUESDAY	Oral Medicine Lecture	Orthodontics Lecture	Clinics	BREAK	Clinics
WEDNESDAY	Orthodontics Lecture	Prosthodontics Lecture	Clinics	BREAK	1 p.m - 3 p.m Prosthodontic Lab
THURSDAY	Oral Medicine Lecture	Prosthodontics / Conservative Dentistry Lecture	Clinics	BREAK	Clinics
FRIDAY	Conservative Lecture	Periodontics Lecture	Clinics	BREAK	Clinics
SATURDAY	PHD Lecture	Periodontics Lecture	Clinics	BREAK	Clinics

TIME TABLE FOR IV BDS Part II (2016-2017)KUHS

Day	8 a.m - 9 a.m	9 a.m -10 a.m	10 a.m - 12.30 p.m	12.30 p.m -1 p.m	1 p.m - 3.00 p.m
MONDAY	O.M.F.S	Conservative Dentistry	Clinics	BREAK	Clinics
TUESDAY	Prosthodontics	Conservative Dentistry	Clinics	BREAK	Prosthodontic Lab
WEDNESDAY	Conservative Dentistry	O.M.F.S	Clinics	BREAK	Clinics
THURSDAY	Conservative Dentistry	Prosthodontics	Clinics	BREAK	Clinics
FRIDAY	O.M.F.S	Pedodontics	Clinics	BREAK	Clinics
SATURDAY	Prosthodontics	Pedodontics	Clinics	BREAK	Clinics

TIME TABLE FOR I BDS (2017-2018) KUHS

MONDAY	8.30 -1.00			1 - 1.30	1.30 - 3.30
	General Anatomy			**BREAK**	**Physiology**
TUESDAY	8.00 - 10.00	10.00 - 1		1-1.30	1.30 - 3.30
	Preclinical Prosthodontics	**Dental Anatomy Practicals**		**BREAK**	**Dental Anatomy Practicals**
WEDNESDAY	8.00-10	10 - 1		1-1.30	1.30 - 3.30
	Dental Anatomy / Oral Histology Theory	**Dental Anatomy / Oral Histology Practicals**		**BREAK**	**Preclinical Conservative Lab**
THURSDAY	8.30 - 10.00	10.00 - 12.30		12.30-1.30	1.30 - 3.30
	Biochemistry Lecture	**General Anatomy**		**BREAK**	**Dental Materials Lecture / Lab**
FRIDAY	8.30-9.30	9.30-10.30	10.30-1.00	1.00-1.30	1.30 - 3.30
	Anatomy Lecture	**Physiology Lecture**	**Physiology / Biochemistry Practicals/ Theory**	**BREAK**	**Physiology / Biochemistry Practicals/ Theory**
SATURDAY	9-10	10 -1.00		1-1.30	1.30 - 3.00
	Physiology Lecture till December / Biochemistry	**General Anatomy**		**BREAK**	**Biochemistry Lecture**

PRINCIPAL
Pushpagiri College of Dental Sciences

TIME TABLE FOR II BDS (2017 - 2018) KUHS

MONDAY	8-9.15		10-11	11-12	12-1	1.15 - 3.15			
	Dental Materials Lecture		**Microbiology**	**Pharmacology**	**BREAK**	**Preclinical Conservative Lab**			
TUESDAY	8-9.15		10.00-12.30		12.30-1.15	1.15 - 3.15			
	Preclinical OrthodonticLab		**Pharmacology**		**BREAK**	**Preclinical Prosthodontics Lab**			
WEDNESDAY	8-9	9-10	10- 12		12-1	1-3			
	Radiology Lecture	**Oral Pathology Lecture**	**Dental Materials Lab**		**BREAK**	**Preclinical Orthodontics Lab**			
THURSDAY		9-12			12-1	1-3			
		General Pathology			**BREAK**	**Preclinical Conservative Lab**			
FRIDAY	8-9.15		10-12		12-1	1-2	2 - 4		
	Prosthodontics lecture		**Microbiology**		**Pharmacology**	**BREAK**	**Dental Materials Lab**		
SATURDAY	8-9.45		10.00 -12.00				12.00-1.00	1.30 - 3.30	
	Preclinical Conservative Lab		**Preclinical Prosthodontics**				**BREAK**	**General Pathology**	

Medical College Dental College

PUSHPAGIRI COLLEGE OF DENTAL SCIENCES

TIME TABLE FOR III BDS (2017-2018) KUHS

Day	8 a.m - 9 a.m	9 a.m -10 a.m	10.00 a.m - 12.30 p.m	12.30 p.m -1 p.m	1.00p.m-3.30 p.m
MONDAY	Pedodontics Lecture	Orthodontics Lecture	Clinics	BREAK	Oral Pathology Lab
TUESDAY	8 a.m - 9 a.m Public Health Lecture	9 a.m -10 a.m Oral Pathology Lecture	Clinics	BREAK	1.30 p.m - 2.30 p.m Oral Surgery Lecture
WEDNESDAY	8 a.m - 12.00 noon General Medicine / General Surgery Clinics		12.00 noon - 1.00 p.m General Medicine Lecture	1.00-1.30 p.m BREAK	1.30 p.m - 3.00 p.m Clinics
THURSDAY	8 a.m - 9 a.m Oral Pathology Lecture	9 a.m -10 a.m Oral Medicine Lecture	10.00 a.m - 12.30 p.m Preclincal Prosthodontics Lab	12.30-1.00 p.m BREAK	1.00 p.m - 3.30 p.m Oral Pathology Lab
FRIDAY	8 a.m - 12.00 noon General Medicine / General Surgery Clinics		12.00 noon - 1.00 p.m General Surgery Lecture	1.00-1.30 p.m BREAK	1.30 p.m - 3.00 p.m Clinics
SATURDAY*	8 a.m - 9 a.m Periodontics Lecture	9 a.m -10 a.m Conservative Lecture	10.00 a.m - 12.30 p.m Clinics	12.30-1.00 p.m BREAK	1.00-2.00 p.m Clinics	2.00 p.m - 3.00 p.m Prosthodontics Lecture

*On Second Saturdays, the Prosthodontics lecture hour will be from 12.00 noon to 1.00 p.m. No Class/Clinics will be there after 1.00 p.m

PRINCIPAL
Pushpagiri College of Dental Sciences

TIME TABLE FOR IV BDS Part I (2017-2018)

Day	8 a.m - 9 a.m	9 a.m -10 a.m	10 a.m - 12.30 p.m	12.30 p.m -1 p.m	1 p.m - 3.00 p.m
MONDAY	Pedodontics Lecture	OMFS Lecture	Clinics	BREAK	Clinics
TUESDAY	Oral Medicine Lecture	Orthodontics Lecture	Clinics	BREAK	Clinics
WEDNESDAY	Orthodontics Lecture	Prosthodontics Lecture	Clinics	BREAK	1 p.m - 3 p.m Prosthodontic Lab
THURSDAY	Oral Medicine Lecture	Prosthodontics / Conservative Dentistry Lecture	Clinics	BREAK	Clinics
FRIDAY	Conservative Lecture	Periodontics Lecture	Clinics	BREAK	Clinics
SATURDAY	PHD Lecture	Periodontics Lecture	Clinics	BREAK	Clinics

TIME TABLE FOR IV BDS Part II (2017-2018)KUHS

Day	8 a.m - 9 a.m	9 a.m -10 a.m	10 a.m - 12.30 p.m	12.30 p.m -1 p.m	1 p.m - 3.00 p.m
MONDAY	O.M.F.S	Conservative Dentistry	Clinics	BREAK	Clinics
TUESDAY	Prosthodontics	Conservative Dentistry	Clinics	BREAK	Prosthodontic Lab
WEDNESDAY	Conservative Dentistry	O.M.F.S	Clinics	BREAK	Clinics
THURSDAY	Conservative Dentistry	Prosthodontics	Clinics	BREAK	Clinics
FRIDAY	O.M.F.S	Pedodontics	Clinics	BREAK	Clinics
SATURDAY	Prosthodontics	Pedodontics	Clinics	BREAK	Clinics

TIME TABLE FOR I BDS (2018-2019) KUHS

MONDAY	8.30 -1.00			1 - 1.30	1.30 - 3.30
	General Anatomy			**BREAK**	**Physiology**
TUESDAY	8.00 - 10.00	10.00 - 1		1-1.30	1.30 - 3.30
	Preclinical Prosthodontics	**Dental Anatomy Practicals**		**BREAK**	**Dental Anatomy Practicals**
WEDNESDAY	8.00-10	10 - 1		1-1.30	1.30 - 3.30
	Dental Anatomy / Oral Histology Theory	**Dental Anatomy / Oral Histology Practicals**		**BREAK**	**Preclinical Conservative Lab**
THURSDAY	8.30 - 10.00	10.00 - 12.30		12.30-1.30	1.30 - 3.30
	Biochemistry Lecture	**General Anatomy**		**BREAK**	**Dental Materials Lecture / Lab**
FRIDAY	8.30-9.30	9.30-10.30	10.30-1.00	1.00-1.30	1.30 - 3.30
	Anatomy Lecture	**Physiology Lecture**	**Physiology / Biochemistry Practicals/ Theory**	**BREAK**	**Physiology / Biochemistry Practicals/ Theory**
SATURDAY	9-10	10 -1.00		1-1.30	1.30 - 3.00
	Physiology Lecture till December / Biochemistry	**General Anatomy**		**BREAK**	**Biochemistry Lecture**

PUSHPAGIRI COLLEGE OF DENTAL SCIENCES MEDICITY TIRUVALLA

Dr. V. GEORGE VARGHESE PRINCIPAL

Pushpagiri College of Dental Sciences

TIME TABLE FOR II BDS (2018 - 2019) KUHS

MONDAY	8-9.15		10-11	11-12	12-1	1.15 - 3.15	
	Dental Materials Lecture		**Microbiology**	**Pharmacology**	**BREAK**	**Preclinical Conservative Lab**	
TUESDAY	8-9.15		10.00-12.30		12.30-1.15	1.15 - 3.15	
	Preclinical OrthodonticLab		**Pharmacology**		**BREAK**	**Preclinical Prosthodontics Lab**	
WEDNESDAY	8-9	9-10	10- 12		12-1	1-3	
	Radiology Lecture	**Oral Pathology Lecture**	**Dental Materials Lab**		**BREAK**	**Preclinical Orthodontics Lab**	
THURSDAY		9-12			12-1	1-3	
		General Pathology			**BREAK**	**Preclinical Conservative Lab**	
FRIDAY	8-9.15	10-12		12-1	1-2	2 - 4	
	Prosthodontics lecture	**Microbiology**		**Pharmacology**	**BREAK**	**Dental Materials Lab**	
SATURDAY	8-9.45	10.00 -12.00			12.00-1.00	1.30 - 3.30	
	Preclinical Conservative Lab	**Preclinical Prosthodontics**			**BREAK**	**General Pathology**	

Medical College Dental College

PUSHPAGIRI COLLEGE OF DENTAL SCIENCES

TIME TABLE FOR III BDS (2018-2019) KUHS

Day	8 a.m - 9 a.m	9 a.m -10 a.m	10.00 a.m - 12.30 p.m	12.30 p.m -1 p.m	1.00p.m-3.30 p.m
MONDAY	Pedodontics Lecture	Orthodontics Lecture	Clinics	BREAK	Oral Pathology Lab
TUESDAY	8 a.m - 9 a.m Public Health Lecture	9 a.m -10 a.m Oral Pathology Lecture	Clinics	BREAK	1.30 p.m - 2.30 p.m Oral Surgery Lecture
WEDNESDAY	8 a.m - 12.00 noon General Medicine / General Surgery Clinics		12.00 noon - 1.00 p.m General Medicine Lecture	1.00-1.30 p.m BREAK	1.30 p.m - 3.00 p.m Clinics
THURSDAY	8 a.m - 9 a.m Oral Pathology Lecture	9 a.m -10 a.m Oral Medicine Lecture	10.00 a.m - 12.30 p.m Preclincal Prosthodontics Lab	12.30-1.00 p.m BREAK	1.00 p.m - 3.30 p.m Oral Pathology Lab
FRIDAY	8 a.m - 12.00 noon General Medicine / General Surgery Clinics		12.00 noon - 1.00 p.m General Surgery Lecture	1.00-1.30 p.m BREAK	1.30 p.m - 3.00 p.m Clinics
SATURDAY*	8 a.m - 9 a.m Periodontics Lecture	9 a.m -10 a.m Conservative Lecture	10.00 a.m - 12.30 p.m Clinics	12.30-1.00 p.m BREAK	1.00-2.00 p.m Clinics 2.00 p.m - 3.00 p.m Prosthodontics Lecture

* On Second Saturdays, the Prosthodontics lecture hour will be from 12.00 noon to 1.00 p.m. No Class/Clinics will be there after 1.00 p.m

PUSHPAGIRI DENTAL COLLEGE TIRUVALLA
PRINCIPAL
Pushpagiri College of Dental Sciences

TIME TABLE FOR IV BDS Part I (2018-2019)

Day	8 a.m - 9 a.m	9 a.m -10 a.m	10 a.m - 12.30 p.m	12.30 p.m -1 p.m	1 p.m - 3.00 p.m
MONDAY	Pedodontics Lecture	OMFS Lecture	Clinics	BREAK	Clinics
TUESDAY	Oral Medicine Lecture	Orthodontics Lecture	Clinics	BREAK	Clinics
WEDNESDAY	Orthodontics Lecture	Prosthodontics Lecture	Clinics	BREAK	1 p.m - 3 p.m Prosthodontic Lab
THURSDAY	Oral Medicine Lecture	Prosthodontics / Conservative Dentistry Lecture	Clinics	BREAK	Clinics
FRIDAY	Conservative Lecture	Periodontics Lecture	Clinics	BREAK	Clinics
SATURDAY	PHD Lecture	Periodontics Lecture	Clinics	BREAK	Clinics

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Pushpagiri College of Dental Sciences

TIME TABLE FOR IV BDS Part II (2018-2019)KUHS

Day	8 a.m - 9 a.m	9 a.m -10 a.m	10 a.m - 12.30 p.m	12.30 p.m -1 p.m	1 p.m - 3.00 p.m
MONDAY	O.M.F.S	Conservative Dentistry	Clinics	BREAK	Clinics
TUESDAY	Prosthodontics	Conservative Dentistry	Clinics	BREAK	Prosthodontic Lab
WEDNESDAY	Conservative Dentistry	O.M.F.S	Clinics	BREAK	Clinics
THURSDAY	Conservative Dentistry	Prosthodontics	Clinics	BREAK	Clinics
FRIDAY	O.M.F.S	Pedodontics	Clinics	BREAK	Clinics
SATURDAY	Prosthodontics	Pedodontics	Clinics	BREAK	Clinics

PUSHPAGIRI COLLEGE OF DENTAL SCIENCES TIRUVALLA

DR. GEORGE VARGHESE
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TIME TABLE FOR I BDS (2019-2020) KUHS

MONDAY	8.30 -1.00			1 - 1.30	1.30 - 3.30
	General Anatomy			**BREAK**	**Physiology**
TUESDAY	8.00 - 10.00	10.00 - 1		1-1.30	1.30 - 3.30
	Preclinical Prosthodontics	**Dental Anatomy Practicals**		**BREAK**	**Dental Anatomy Practicals**
WEDNESDAY	8.00-10	10 - 1		1-1.30	1.30 - 3.30
	Dental Anatomy / Oral Histology Theory	**Dental Anatomy / Oral Histology Practicals**		**BREAK**	**Preclinical Conservative Lab**
THURSDAY	8.30 - 10.00	10.00 - 12.30		12.30-1.30	1.30 - 3.30
	Biochemistry Lecture	**General Anatomy**		**BREAK**	**Dental Materials Lecture / Lab**
FRIDAY	8.30-9.30	9.30-10.30	10.30-1.00	1.00-1.30	1.30 - 3.30
	Anatomy Lecture	**Physiology Lecture**	**Physiology / Biochemistry Practicals/ Theory**	**BREAK**	**Physiology / Biochemistry Practicals/ Theory**
SATURDAY	9-10	10 -1.00		1-1.30	1.30 - 3.00
	Physiology Lecture till December / Biochemistry	**General Anatomy**		**BREAK**	**Biochemistry Lecture**

PUSHPAGIRI COLLEGE OF DENTAL SCIENCES MEDICITY TIRUVALLA

Pushpagiri College of Dental Sciences
PRINCIPAL

TIME TABLE FOR II BDS (2019 - 2020) KUHS

MONDAY	8-9.15		10-11	11-12	12-1		1.15 - 3.15		
	Dental Materials Lecture		**Microbiology**	**Pharmacology**	**BREAK**		**Preclinical Conservative Lab**		
TUESDAY	8-9.15		10.00-12.30		12.30-1.15		1.15 - 3.15		
	Preclinical OrthodonticLab		**Pharmacology**		**BREAK**		**Preclinical Prosthodontics Lab**		
WEDNESDAY	8-9	9-10	10- 12		12-1		1-3		
	Radiology Lecture	**Oral Pathology Lecture**	**Dental Materials Lab**		**BREAK**		**Preclinical Orthodontics Lab**		
THURSDAY		9-12			12-1		1-3		
		General Pathology			**BREAK**		**Preclinical Conservative Lab**		
FRIDAY	8-9.15		10-12	12-1	1-2		2 - 4		
	Prosthodontics lecture		**Microbiology**	**Pharmacology**	**BREAK**		**Dental Materials Lab**		
SATURDAY	8-9.45		10.00 -12.00				12.00-1.00	1.30 - 3.30	
	Preclinical Conservative Lab		**Preclinical Prosthodontics**				**BREAK**	**General Pathology**	

Medical College Dental College

PUSHPAGIRI COLLEGE OF DENTAL SCIENCES

TIME TABLE FOR III BDS (2019-2020) KUHS

Day	8 a.m - 9 a.m	9 a.m -10 a.m	10.00 a.m - 12.30 p.m	12.30 p.m -1 p.m	1.00p.m-3.30 p.m	
MONDAY	Pedodontics Lecture	Orthodontics Lecture	Clinics	BREAK	Oral Pathology Lab	
TUESDAY	8 a.m - 9 a.m Public Health Lecture	9 a.m -10 a.m Oral Pathology Lecture	Clinics	BREAK	1.30 p.m - 2.30 p.m Oral Surgery Lecture	
WEDNESDAY	8 a.m - 12.00 noon General Medicine / General Surgery Clinics		12.00 noon - 1.00 p.m General Medicine Lecture	1.00-1.30 p.m BREAK	1.30 p.m - 3.00 p.m Clinics	
THURSDAY	8 a.m - 9 a.m Oral Pathology Lecture	9 a.m -10 a.m Oral Medicine Lecture	10.00 a.m - 12.30 p.m Preclincal Prosthodontics Lab	12.30-1.00 p.m BREAK	1.00 p.m - 3.30 p.m Oral Pathology Lab	
FRIDAY	8 a.m - 12.00 noon General Medicine / General Surgery Clinics		12.00 noon - 1.00 p.m General Surgery Lecture	1.00-1.30 p.m BREAK	1.30 p.m - 3.00 p.m Clinics	
SATURDAY*	8 a.m - 9 a.m Periodontics Lecture	9 a.m -10 a.m Conservative Lecture	10.00 a.m - 12.30 p.m Clinics	12.30-1.00 p.m BREAK	1.00-2.00 p.m Clinics	2.00 p.m - 3.00 p.m Prosthodontics Lecture

* On Second Saturdays, the Prosthodontics lecture hour will be from 12.00 noon to 1.00 p.m. No Class/Clinics will be there after 1.00 p.m

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Pushpagiri College of Dental Sciences

TIME TABLE FOR IV BDS Part I (2019-2020)

Day	8 a.m - 9 a.m	9 a.m -10 a.m	10 a.m - 12.30 p.m	12.30 p.m -1 p.m	1 p.m - 3.00 p.m
MONDAY	Pedodontics Lecture	OMFS Lecture	Clinics	BREAK	Clinics
TUESDAY	Oral Medicine Lecture	Orthodontics Lecture	Clinics	BREAK	Clinics
WEDNESDAY	Orthodontics Lecture	Prosthodontics Lecture	Clinics	BREAK	1 p.m - 3 p.m Prosthodontic Lab
THURSDAY	Oral Medicine Lecture	Prosthodontics / Conservative Dentistry Lecture	Clinics	BREAK	Clinics
FRIDAY	Conservative Lecture	Periodontics Lecture	Clinics	BREAK	Clinics
SATURDAY	PHD Lecture	Periodontics Lecture	Clinics	BREAK	Clinics

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TIME TABLE FOR IV BDS Part II (2019-2020)KUHS

Day	8 a.m - 9 a.m	9 a.m -10 a.m	10 a.m - 12.30 p.m	12.30 p.m -1 p.m	1 p.m - 3.00 p.m
MONDAY	O.M.F.S	Conservative Dentistry	Clinics	BREAK	Clinics
TUESDAY	Prosthodontics	Conservative Dentistry	Clinics	BREAK	Prosthodontic Lab
WEDNESDAY	Conservative Dentistry	O.M.F.S	Clinics	BREAK	Clinics
THURSDAY	Conservative Dentistry	Prosthodontics	Clinics	BREAK	Clinics
FRIDAY	O.M.F.S	Pedodontics	Clinics	BREAK	Clinics
SATURDAY	Prosthodontics	Pedodontics	Clinics	BREAK	Clinics

PUSHPAGIRI COLLEGE OF DENTAL SCIENCES TRIVANDRUM MEDICITY

GEORGE VARGHESE PRINCIPAL

TIME TABLE FOR I BDS (2020-2021) KUHS

MONDAY	8.30 -1.00			1 - 1.30	1.30 - 3.30
	General Anatomy			**BREAK**	**Physiology**
TUESDAY	8.00 - 10.00	10.00 - 1		1-1.30	1.30 - 3.30
	Preclinical Prosthodontics	**Dental Anatomy Practicals**		**BREAK**	**Dental Anatomy Practicals**
WEDNESDAY	8.00-10	10 - 1		1-1.30	1.30 - 3.30
	Dental Anatomy / Oral Histology Theory	**Dental Anatomy / Oral Histology Practicals**		**BREAK**	**Preclinical Conservative Lab**
THURSDAY	8.30 - 10.00	10.00 - 12.30		12.30-1.30	1.30 - 3.30
	Biochemistry Lecture	**General Anatomy**		**BREAK**	**Dental Materials Lecture / Lab**
FRIDAY	8.30-9.30	9.30-10.30	10.30-1.00	1.00-1.30	1.30 - 3.30
	Anatomy Lecture	**Physiology Lecture**	**Physiology / Biochemistry Practicals/ Theory**	**BREAK**	**Physiology / Biochemistry Practicals/ Theory**
SATURDAY	9-10	10 -1.00		1-1.30	1.30 - 3.00
	Physiology Lecture till December / Biochemistry	**General Anatomy**		**BREAK**	**Biochemistry Lecture**

TIME TABLE FOR II BDS (2020 - 2021) KUHS

MONDAY	8-9.15	10-11	11-12	12-1	1.15 - 3.15	
	Dental Materials Lecture	**Microbiology**	**Pharmacology**	**BREAK**	**Preclinical Conservative Lab**	
TUESDAY	8-9.15	10.00-12.30		12.30-1.15	1.15 - 3.15	
	Preclinical OrthodonticLab	**Pharmacology**		**BREAK**	**Preclinical Prosthodontics Lab**	
WEDNESDAY	8-9	9-10	10- 12	12-1	1-3	
	Radiology Lecture	**Oral Pathology Lecture**	**Dental Materials Lab**	**BREAK**	**Preclinical Orthodontics Lab**	
THURSDAY		9-12		12-1	1-3	
		General Pathology		**BREAK**	**Preclinical Conservative Lab**	
FRIDAY	8-9.15	10-12	12-1	1-2	2 - 4	
	Prosthodontics lecture	**Microbiology**	**Pharmacology**	**BREAK**	**Dental Materials Lab**	
SATURDAY	8-9.45	10.00 -12.00			12.00-1.00	1.30 - 3.30
	Preclinical Conservative Lab	**Preclinical Prosthodontics**			**BREAK**	**General Pathology**

Medical College Dental College

PUSHPAGIRI COLLEGE OF DENTAL SCIENCES

TIME TABLE FOR III BDS (2020-2021) KUHS w.e.f 18.01.2021

Day	8 a.m - 9 a.m	9 a.m -10 a.m	10.00 a.m - 12.30 p.m	12.30 p.m -1 p.m	1.00p.m-3.30 p.m
MONDAY	Pedodontics Lecture	Orthodontics Lecture	Clinics	BREAK	Oral Pathology Lab
TUESDAY	8 a.m - 9 a.m Public Health Lecture	9 a.m -10 a.m Oral Pathology Lecture	Clinics	BREAK	1.30 p.m - 2.30 p.m Oral Surgery Lecture
WEDNESDAY	8 a.m - 12.00 noon General Medicine / General Surgery Clinics		12.00 noon - 1.00 p.m General Medicine Lecture	1.00-1.30 p.m BREAK	1.30 p.m - 3.00 p.m Clinics
THURSDAY	8 a.m - 9 a.m Oral Pathology Lecture	9 a.m -10 a.m Oral Medicine Lecture	10.00 a.m - 12.30 p.m Preclincal Prosthodontics Lab	12.30-1.00 p.m BREAK	1.00 p.m - 3.30 p.m Oral Pathology Lab
FRIDAY	8 a.m - 12.00 noon General Medicine / General Surgery Clinics		12.00 noon - 1.00 p.m General Surgery Lecture	1.00-1.30 p.m BREAK	1.30 p.m - 3.00 p.m Clinics
SATURDAY*	8 a.m - 9 a.m Periodontics Lecture	9 a.m -10 a.m Conservative Lecture	10.00 a.m - 12.30 p.m Clinics	12.30-1.00 p.m BREAK	1.00-2.00 p.m Clinics 2.00 p.m - 3.00 p.m Prosthodontics Lecture

*On Second Saturdays, the Prosthodontics lecture hour will be from 12.00 noon to 1.00 p.m. No Class/Clinics will be there after 1.00 p.m

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TIME TABLE FOR IV BDS Part I (2020-2021)

Day	8 a.m - 9 a.m	9 a.m -10 a.m	10 a.m - 12.30 p.m	12.30 p.m -1 p.m	1 p.m - 3.00 p.m
MONDAY	Pedodontics Lecture	OMFS Lecture	Clinics	BREAK	Clinics
TUESDAY	Oral Medicine Lecture	Orthodontics Lecture	Clinics	BREAK	Clinics
WEDNESDAY	Orthodontics Lecture	Prosthodontics Lecture	Clinics	BREAK	1 p.m - 3 p.m Prosthodontic Lab
THURSDAY	Oral Medicine Lecture	Prosthodontics / Conservative Dentistry Lecture	Clinics	BREAK	Clinics
FRIDAY	Conservative Lecture	Periodontics Lecture	Clinics	BREAK	Clinics
SATURDAY	PHD Lecture	Periodontics Lecture	Clinics	BREAK	Clinics

PUSHPAGIRI COLLEGE OF DENTAL SCIENCES * TRIVALLA * MEDICINE

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Pushpagiri College of Dental Sciences

TIME TABLE FOR IV BDS Part II (2020-2021)KUHS

Day	8 a.m - 9 a.m	9 a.m -10 a.m	10 a.m - 12.30 p.m	12.30 p.m -1 p.m	1 p.m - 3.00 p.m
MONDAY	O.M.F.S	Conservative Dentistry	Clinics	BREAK	Clinics
TUESDAY	Prosthodontics	Conservative Dentistry	Clinics	BREAK	Prosthodontic Lab
WEDNESDAY	Conservative Dentistry	O.M.F.S	Clinics	BREAK	Clinics
THURSDAY	Conservative Dentistry	Prosthodontics	Clinics	BREAK	Clinics
FRIDAY	O.M.F.S	Pedodontics	Clinics	BREAK	Clinics
SATURDAY	Prosthodontics	Pedodontics	Clinics	BREAK	Clinics

PUSHPAGIRI COLLEGE OF DENTAL SCIENCES

Dr. GEORGE VARGHESE
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DEPARTMENT OF ORAL MEDICINE AND RADIOLOGY

CLINICAL POSTING TIMETABLE

IV BDS PART I

Day of the Week	10:00am – 12:30pm	12:30pm – 1:30pm	1:30pm – 2:00pm	2:00pm - 3:00pm
Monday	OP cases and case discussion with Concerned faculty	Short group discussion	Lunch Break	Seminar
Tuesday	OP cases and case discussion with Concerned faculty	Short group discussion	Lunch Break	Seminar
Wednesday	OP cases and case discussion with Concerned faculty	Short group discussion	Lunch Break	
Thursday	OP cases and case discussion with Concerned faculty	Short group discussion	Lunch Break	Seminar
Friday	OP cases and case discussion with Concerned faculty	Short group discussion	Lunch Break	Seminar
Saturday	OP cases and case discussion with Concerned faculty	Short group discussion	Lunch Break	Seminar

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DEPARTMENT OF ORAL MEDICINE AND RADIOLOGY

CLINICAL POSTING TIMETABLE

III BDS

Day of the Week	10:00am – 12:30pm	12:30pm – 1:30pm	1:30pm – 2:00pm	2:00pm - 3:00pm
Monday	OP cases and case discussion with Concerned faculty		Lunch Break	
Tuesday	OP cases and case discussion with Concerned faculty		Lunch Break	
Wednesday	Medical College	Medical College	OP cases and case discussion with Concerned faculty	Short group discussion
Thursday				
Friday	Medical College	Medical College	OP cases and case discussion with Concerned faculty	Short group discussion
Saturday	OP cases and case discussion with Concerned faculty		Lunch Break	

PUSHPAGIRI COLLEGE OF DENTAL SCIENCES * PUSHPAGIRI * MEDICITY * TIRUVALLA-7

Dr. K. GEORGE VARGHESE
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DEPARTMENT OF ORAL MEDICINE AND RADIOLOGY

LECTURE SCHEDULE

Day of the Week	IV BDS Part 1	III BDS
Monday		
Tuesday	8:00am -9:00am	
Wednesday		
Thursday	8:00am -9:00am	9:00am – 10:00am
Friday		
Saturday		

PUSHPAGIRI COLLEGE OF DENTAL SCIENCES PUSHPAGIRI MEDICITY TIRUVALLA

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PHD

PUSHPAGIRI COLLEGE OF DENTAL SCIENCES

TIME TABLE FOR III BDS (2020-2021) KUHS w.e.f 18.01.2021

Day	8 a.m - 9 a.m	9 a.m -10 a.m	10.00 a.m - 12.30 p.m	12.30 p.m -1 p.m	1.00p.m-3.30 p.m
MONDAY	Pedodontics Lecture	Orthodontics Lecture	Clinics	BREAK	Oral Pathology Lab
TUESDAY	8 a.m - 9 a.m Public Health Lecture	9 a.m -10 a.m Oral Pathology Lecture	Clinics	BREAK	1.30 p.m - 2.30 p.m Oral Surgery Lecture
WEDNESDAY	8 a.m - 12.00 noon General Medicine / General Surgery Clinics		12.00 noon - 1.00 p.m General Medicine Lecture	1.00-1.30 p.m BREAK	1.30 p.m - 3.00 p.m Clinics
THURSDAY	8 a.m - 9 a.m Oral Pathology Lecture	9 a.m -10 a.m Oral Medicine Lecture	10.00 a.m - 12.30 p.m Preclincal Prosthodontics Lab	12.30-1.00 p.m BREAK	1.00 p.m - 3.30 p.m Oral Pathology Lab
FRIDAY	8 a.m - 12.00 noon General Medicine / General Surgery Clinics		12.00 noon - 1.00 p.m General Surgery Lecture	1.00-1.30 p.m BREAK	1.30 p.m - 3.00 p.m Clinics
SATURDAY*	8 a.m - 9 a.m Periodontics Lecture	9 a.m -10 a.m Conservative Lecture	10.00 a.m - 12.30 p.m Clinics	12.30-1.00 p.m BREAK	1.00-2.00 p.m Clinics	2.00 p.m - 3.00 p.m Prosthodontics Lecture

* On Second Saturdays, the Prosthodontics lecture hour will be from 12.00 noon to 1.00 p.m. No Class/Clinics will be there after 1.00 p.m

PUSHPAGIRI COLLEGE OF DENTAL SCIENCES TIRUVALLA PRINCIPAL

Pushpagiri College of Dental Sciences

TIME TABLE FOR IV BDS Part I (2020-2021)

Day	8 a.m - 9 a.m	9 a.m -10 a.m	10 a.m - 12.30 p.m	12.30 p.m -1 p.m	1 p.m - 3.00 p.m
MONDAY	Pedodontics Lecture	OMFS Lecture	Clinics	BREAK	Clinics
TUESDAY	Oral Medicine Lecture	Orthodontics Lecture	Clinics	BREAK	Clinics
WEDNESDAY	Orthodontics Lecture	Prosthodontics Lecture	Clinics	BREAK	1 p.m - 3 p.m Prosthodontic Lab
THURSDAY	Oral Medicine Lecture	Prosthodontics / Conservative Dentistry Lecture	Clinics	BREAK	Clinics
FRIDAY	Conservative Lecture	Periodontics Lecture	Clinics	BREAK	Clinics
SATURDAY	PHD Lecture	Periodontics Lecture	Clinics	BREAK	Clinics

PRINCIPAL

Department of Periodontics			
UG Clinical Time table			
Day	10:00 -12.30pm	12.30- 1:00 pm	1:00-3 pm
Monday	III BDS IV BDS Part 1	Lunch Break	IV BDS Part 1
Tuesday	III BDS IV BDS Part 1	Lunch Break	IV BDS Part 1
Wednesday	IV BDS Part 1	Lunch Break	III BDS IV BDS Part 1
Thursday	IV BDS Part 1	Lunch Break	IV BDS Part 1
Friday	IV BDS Part 1	Lunch Break	III BDS IV BDS Part 1
Saturday	III BDS IV BDS Part 1	Lunch Break	

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Department Periodontics Time Table		
Day	Time	Batch
Thursday	8.30-10.00	PG Seminar
Saturday	8.30-9.30	Journal club
	8.00-9.00	III BDS lecture
	9.00-10.00	IV BDS Part 1 lecture

PUSHPAGIRI COLLEGE OF DENTAL SCIENCES * PUSHPAGIRI * MEDICITY * TIRUVALLA-7

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PUSHPAGIRI COLLEGE OF DENTAL SCIENCES

DEPT. OF PROSTHODONTICS- I MDS TIME TABLE

DAY	8 AM-9 AM	9 AM-10 AM	10 AM- 11 AM	11 AM -12 PM	12 PM -1 PM	1 PM -2 PM	2 PM – 3 PM	3 PM – 4 PM
MONDAY	Journal club/ inter-departmental discussion	Clinicals	Clinicals	Clinicals	Weekly report	BREAK	DM discussion	Clinicals
TUESDAY	Seminar	Clinicals	Clinicals	Clinicals	LD discussion	BREAK	Preclinical exercises	
WEDNESDAY	Journal club	Clinicals	Clinicals	Clinicals	Thesis discussion	BREAK	CD discussion	Clinicals
THURSDAY	Seminar	Clinicals	Clinicals	Clinicals	Clinicals	BREAK	RPD discussion	Clinicals
FRIDAY	Journal club	Clinicals	Clinicals	Clinicals	Clinicals	BREAK	Library – for articles collection	
SATURDAY	Seminar	Clinicals	Clinicals	Clinicals	Clinicals	BREAK	Preclinical exercises/ Clinicals	

Pushpagiri College of Dental Sciences

PUSHPAGIRI COLLEGE OF DENTAL SCIENCES

DEPT. OF PROSTHODONTICS- II MDS TIME TABLE

DAY	8 AM-9 AM	9 AM-10 AM	10 AM- 11 AM	11 AM -12 PM	12 PM -1 PM	1 PM -2 PM	2 PM – 3 PM	3 PM – 4 PM
MONDAY	Journal club/ inter-departmental discussion	Clinicals	Clinicals	Clinicals	Weekly report submission and assessment	BREAK	CD discussion/Clinicals	
TUESDAY	Seminar	Clinicals	Clinicals	Clinicals	LD discussion	BREAK	Clinicals	Demonstration
WEDNESDAY	Journal club	Clinicals	Clinicals	Clinicals	Clinicals	BREAK	RPD discussion	Clinicals
THURSDAY	Seminar	Clinicals	Clinicals	Clinicals	Thesis discussion	BREAK	FPD discussion /Clinicals	
FRIDAY	Journal club	Clinicals	Clinicals	Clinicals	Clinicals	BREAK	Fpd discussion	Clinicals
SATURDAY	Seminar	Clinicals	Clinicals	Clinicals	Clinicals	BREAK	Clinicals	Implant/ MFP discussion

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PUSHPAGIRI COLLEGE OF DENTAL SCIENCES

DEPT. OF PROSTHODONTICS- III MDS TIME TABLE

DAY	8 AM-9 AM	9 AM-10 AM	10 AM- 11 AM	11 AM -12 PM	12 PM -1 PM	1 PM -2 PM	2 PM – 3 PM	3 PM – 4 PM
MONDAY	Journal club/ inter-departmental discussion	Clinicals	Clinicals	Clinicals	Weekly report submission and assessment	BREAK	Thesis discussion	
TUESDAY	Seminar	Clinicals	Clinicals	Clinicals	Exam oriented viva	BREAK	Clinicals	
WEDNESDAY	Journal club	Clinicals	Clinicals	Clinicals	Clinicals	BREAK	Thesis discussion	
THURSDAY	Seminar	Clinicals	Clinicals	Clinicals	Thesis discussion	BREAK	Clinicals	
FRIDAY	Journal club	Clinicals	Clinicals	Clinicals	Clinicals	BREAK	Topic wise discussion	
SATURDAY	Seminar	Clinicals	Clinicals	Clinicals	Clinicals	BREAK	Clinicals	Flow chart preparation for questions

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PUSHPAGIRI COLLEGE OF DENTAL SCIENCE

DEPT. OF PROSTHODONTICS- UG Clinical TIME TABLE

DAY	10 am to 12.30 pm	12.30 PM -1 PM	1 PM – 2.30 PM
MONDAY	III BDS IV BDS PART 1 IV BDS PART 2	BREAK	IV BDS PART 1 IV BDS PART 2
TUESDAY	III BDS IV BDS PART 1 IV BDS PART 2	BREAK	IV BDS PART 1 IV BDS PART 2
WEDNESDAY	III BDS IV BDS PART 1 IV BDS PART 2	BREAK	III BDS IV BDS PART 1 IV BDS PART 2
THURSDAY	IV BDS PART 1 IV BDS PART 2	BREAK	IV BDS PART 1 IV BDS PART 2
FRIDAY	III BDS IV BDS PART 1 IV BDS PART 2	BREAK	III BDS IV BDS PART 1 IV BDS PART 2
SATURDAY	IV BDS PART 1 IV BDS PART 2	BREAK	III BDS (1pm to 2 pm) IV BDS PART 1 IV BDS PART 2

Dr. K. GEORGE VARGHESE
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DEPARTMENT OF CONSERVATIVE DENTISTRY & ENDODONTICS

UG CLINICAL TIMETABLE FROM 2019

DAY	10.00 – 12.30	12.30 – 1.00	1.00 – 3.00
MONDAY	III BDS IV BDS PART 1 IV BDS PART 2	LUNCH BREAK	IV BDS PART 1 IV BDS PART 2
TUESDAY	III BDS IV BDS PART 1 IV BDS PART 2	LUNCH BREAK	IV BDS PART 1 IV BDS PART 2
WEDNESDAY	IV BDS PART 1 IV BDS PART 2	LUNCH BREAK	III BDS IV BDS PART 1 IV BDS PART 2
THRUSDAY	IV BDS PART 1 IV BDS PART 2	LUNCH BREAK	IV BDS PART 1 IV BDS PART 2
FRIDAY	IV BDS PART 1 IV BDS PART 2	LUNCH BREAK	III BDS IV BDS PART 1 IV BDS PART 2
SATURDAY	III BDS IV BDS PART 1 IV BDS PART 2	LUNCH BREAK	III BDS IV BDS PART 1 IV BDS PART 2

PUSHPAGIRI COLLEGE OF DENTAL SCIENCES (DEEMED TO BE UNIVERSITY) MEDICITY TIRUVALLA

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DEPARTMENT OF CONSERVATIVE DENTISTRY & ENDODONTICS Time Table		
DAY	TIME	BATCH
MONDAY	8.00 – 9.30 A.M 8.00 – 9.30 A.M 9.00 – 10.00 A.M 1.15 – 3.15 P.M	III MDS SEMINAR II BDS LECTURE IV BDS PART 2 LECTURE II BDS PRECLINICAL LAB
TUESDAY	8.00 – 9.30 A.M 9.00 – 10.00 A.M	I MDS JOURNAL CLUB IV BDS PART 2 LECTURE
WEDNESDAY	8.00 – 9.30 A.M 8.00 -9.00 A.M 1.00 – 3.00 P.M	II MDS SEMINAR IV BDS PART 2 LECTURE I BDS PRECLINICAL LAB
THURSDAY	8.00 – 9.30 A.M 8.00 – 9.00 A.M 9.00 – 10.00 A.M 1.00 – 3.00 P.M	III MDS JOURNAL CLUB IV BDS PART 2 LECTURE IV BDS PART 1 LECTURE II BDS PRECLINICAL LAB
FRIDAY	8.00 – 9.30 A.M 8.00 – 9.00 A.M	I MDS SEMINAR IV BDS PART 1 LECTURE
SATURDAY	8.00 – 9.30 A.M 8.00 – 10.00 A.M	II MDS JOURNAL CLUB II BDS PRECLINICAL LAB
	9.00 – 10.00 A.M.	III BDS LECTURE

DEPARTMENT OF CONSERVATIVE DENTISTRY & ENDODONTICS

UG CLINICAL TIMETABLE

DAY	10.00 – 12.30	12.30 – 1.00	1.00 – 2.30
MONDAY	III BDS IV BDS PART 1 IV BDS PART 2	LUNCH BREAK	IV BDS PART 1 IV BDS PART 2
TUESDAY	III BDS IV BDS PART 1 IV BDS PART 2	LUNCH BREAK	IV BDS PART 1 IV BDS PART 2
WEDNESDAY	III BDS IV BDS PART 1 IV BDS PART 2	LUNCH BREAK	IV BDS PART 1 IV BDS PART 2
THRUSDAY	IV BDS PART 1 IV BDS PART 2	LUNCH BREAK	IV BDS PART 1 IV BDS PART 2
FRIDAY	III BDS IV BDS PART 1 IV BDS PART 2	LUNCH BREAK	III BDS IV BDS PART 1 IV BDS PART 2
SATURDAY	IV BDS PART 1 IV BDS PART 2	LUNCH BREAK	IV BDS PART 1 IV BDS PART 2

PUSHPAGIRI COLLEGE OF DENTAL SCIENCES
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TIRUVALLA

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DEPARTMENT OF CONSERVATIVE DENTISTRY & ENDODONTICS

I MDS TIME TABLE

DAY	8am-9am	9am-10am	10am-11am	11am-12pm	12pm-1pm	1pm-2pm	2pm-3pm	3pm-4pm
MONDAY	Conservative Dentistry Discussion	Preclinicals	Preclinicals	Preclinicals	Preclinicals	BREAK	Pathology	Biostatistics
TUESDAY	Dental Materials Discussion	Preclinicals	Preclinicals	Preclinicals	Preclinicals	BREAK	Pharmacology	Anatomy
WEDNESDAY	Journal Club	Preclinicals	Preclinicals	Preclinicals	LD Discussion	BREAK	Preclinicals	Preclinicals
THURSDAY	Endodntics Discussion	Preclinicals	Preclinicals	Preclinicals	Thesis Discussion	BREAK	Preclinicals	Preclinicals
FRIDAY	Seminar	Seminar	Preclinicals	Preclinicals	Weekly ReportAssessment	BREAK	Microbiology	Physiology
SATURDAY	Preclinicals	Preclinicals	Preclinicals	Preclinicals	Preclinicals	BREAK	Preclinicals	Preclinicals

DEPARTMENT OF CONSERVATIVE DENTISTRY & ENDODONTICS - I MDS TIME TABLE								
DAY	8am-9am	9am-10am	10am-11am	11am-12pm	12pm-1pm	1pm-2pm	2pm-3pm	3pm-4pm
MONDAY	Seminar IIIMDS	Clinicals	Clinicals	Clinicals	Clinicals	BREAK	Conservative Dentistry Discussion	Clinicals
TUESDAY	Journal club IMDS	Clinicals	Clinicals	Clinicals	Clinicals	BREAK	Dental Materials Discussion	Clinicals
WEDNESDAY	Seminar IIMDS	Clinicals	Clinicals	Clinicals	LD Discussion	BREAK	Clinicals	Clinicals
THURSDAY	Journal Club IIIMDS	Clinicals	Clinicals	Clinicals	Thesis/LD Discussion	BREAK	Clinicals	Clinicals
FRIDAY	Seminar IMDS	Clinicals	Clinicals	Clinicals	Weekly Assessment	BREAK	Endodontics Discussion	Clinicals
SATURDAY	Journal Club IIMDS	Clinicals	Clinicals	Clinicals	Clinicals	BREAK	Clinicals	Cinicals

PUSHPAGIRI COLLEGE OF DENTAL SCIENCES MEDICITY TIRUVALLA

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II MDS TIME TABLE							
DAY	**8am-10am**	**10am-11am**	**11am-12pm**	**12pm-1pm**	**1pm-2pm**	**2pm-3pm**	**3pm-4pm**
MONDAY	Seminar	Clinics	Clinics	Clinics	BREAK	Thesis Discussion	
TUESDAY	**8am-9am**	**9am-10am**	**10am-11am**	**11am-1pm**	**1pm-2pm**	**2pm-3pm**	**3pm-4pm**
	DM Discussion	Clinics	Clinics	Clinics	BREAK	Clinics	
WEDNESDAY	**8am-9am**	**9am-10am**	**10am-11am**	**11am-1pm**	**1pm-2pm**	**2pm-3pm**	**3pm-4pm**
	Journal Club	Clinics	Clinics	Clinics	BREAK	Thesis Discussion	
THURSDAY	**8am-9am**	**9am-10am**	**10am-11am**	**11am-1pm**	**1pm-2pm**	**2pm-3pm**	**3pm-4pm**
	Journal Club	Clinics	Clinics	Clinics	BREAK	Clinics	
FRIDAY	**8am-10am**	**10am-11am**	**11am-12pm**	**12pm-1pm**	**1pm-2pm**	**2pm-3pm**	**3pm-4pm**
	Seminar	Clinics	Clinics	Weekly Assessment	BREAK	Clinics	
SATURDAY	**8am-9am**	**9am-10am**	**10am-11am**	**11am-1pm**	**1pm-2pm**	**2pm-3pm**	**3pm-4pm**
	Conservative Dentistry Discussion	Clinics	Clinics	Clinics	BREAK	Library	

III MDS TIME TABLE							
DAY	**8am-10am**	**10am-11am**	**11am-12pm**	**12pm-1pm**	**1pm-2pm**	**2pm-3pm**	**3pm-4pm**
MONDAY	Seminar (II MDS)	Clinics	Clinics	Clinics	BREAK	Thesis Discussion	
TUESDAY	**8am-9am**	**9am-10am**	**10am-11am**	**11am-1pm**	**1pm-2pm**	**2pm-3pm**	**3pm-4pm**
	Seminar(III MDS)	Clinics	Clinics	Clinics	BREAK	Clinics	
WEDNESDAY	**8am-9am**	**9am-10am**	**10am-11am**	**11am-1pm**	**1pm-2pm**	**2pm-3pm**	**3pm-4pm**
	Journal Club(I MDS)	Clinics	Clinics	Clinics	BREAK	Thesis Discussion	
THURSDAY	**8am-9am**	**9am-10am**	**10am-11am**	**11am-1pm**	**1pm-2pm**	**2pm-3pm**	**3pm-4pm**
	Journal Club (II MDS)	Clinics	Clinics	Clinics	BREAK	Clinics	
FRIDAY	**8am-10am**	**10am-11am**	**11am-12pm**	**12pm-1pm**	**1pm-2pm**	**2pm-3pm**	**3pm-4pm**
	Seminar (I MDS)	Clinics	Clinics	Weekly report/Assessment	BREAK	Clinics	
SATURDAY	**8am-9am**	**9am-10am**	**10am-11am**	**11am-1pm**	**1pm-2pm**	**2pm-3pm**	**3pm-4pm**
	Journal Club (III MDS)	Clinics	Clinics	Clinics	BREAK	Thesis Discussion	

PUSHPAGIRI COLLEGE OF DENTAL SCIENCES
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I MDS Time Table

Department of Pediatric and Preventive Dentistry

DAY	8am- 10 am	10am-11am	11am-12.30 pm	12.30pm -1pm	1.10pm-01.30pm	1.30pm-3.00 pm	3pm – 4pm
MONDAY	Academic work (Pending)	Basic Science Discussion	Preclinicals	BREAK	Department Pending work	Preclinicals	Preclinical / Library Hour
TUESDAY	Academic Session 2nd year	Basic Science Discussion	Preclinicals			Preclinicals	Preclinical / Library Hour
WEDNESDAY	Academic Session 1st year	Basic Science Discussion	Preclinicals			Preclinicals	Preclinical / Library Hour
THURSDAY	Academic Session 1st year	LD/ Thesis Discussion	Preclinicals			Preclinicals	Preclinical / Library Hour
FRIDAY	Academic Session 2nd year	LD/ Thesis Discussion	Preclinicals			Preclinicals	Preclinical / Library Hour
SATURDAY	Preclinicals	Basic Science Discussion	Preclinicals			Preclinicals	Preclinical / Library Hour

PUSHPAGIRI COLLEGE OF DENTAL SCIENCES

Dr. K. GEORGE VARGHESE
Pushpagiri College of Dental Sciences
PRINCIPAL

II MDS Time Table

DAY	8am- 10 am	10am-11.30am	11am-12.30 pm	12.30pm -1pm	1.00pm-01.30pm	1.30pm-3.00 pm	3pm – 4pm
MONDAY	Academic work (Pending)	Clinicals	Clinicals	BREAK	Department Pending work	Clinicals	Lab / Library Hour
TUESDAY	Academic Session 2nd year	Clinicals	Thesis Discussion	BREAK		clinicals	Lab / Library Hour
WEDNESDAY	Academic Session 1st year	Clinicals	Clinicals	BREAK		clinicals	Lab / Library Hour
THURSDAY	Academic Session 1st year	Clinicals	Clinicals	BREAK		clinicals	Lab / Library Hour
FRIDAY	Academic Session 2nd year	Clinicals	Thesis Discussion	BREAK		clinicals	Lab / Library Hour
SATURDAY	Pending Academic Work	Clinicals	Clinicals	BREAK		clinicals	Lab / Library Hour

PUSHPAGIRI COLLEGE OF DENTAL SCIENCES MEDICITY TRIVALLA

DR. K. GEORGE VARGHESE

Department of Pediatric and Preventive Dentistry

Master Time Table UG

DAY	8am- 9.00 am	9.00am-10 am	10 am-12.30 pm	12.30pm -1pm	1.30pm-3.00 pm
MONDAY	Third BDS Lecture Part I Lecture		Clinicals	BREAK	Clinicals
TUESDAY			Clinicals		clinicals
WEDNESDAY			Clinicals		clinicals
THURSDAY			Clinicals		clinicals
FRIDAY		Part II Lecture	Clinicals		clinicals
SATURDAY		Part II Lecture	Clinicals		clinicals

PUSHPAGIRI COLLEGE OF MEDICAL SCIENCES TIRUVALLA-7

Dr. K. GEORGE VARGHESE
PRINCIPAL
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oral patho

DEPARTMENT OF ORAL & MAXILLOFACIAL PATHOLOGY

TIME TABLE

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
I BDS		10-4PM	8- 1 PM			
II BDS			9-10 AM			
III BDS	1-3 PM	9-10 AM		8-9 AM 1-3PM		
INTERNS	8.30-3 PM	8.30-3 PM	8.30-3 PM	8.30-3 PM	8.30-3 PM	8.30-3 PM
DORA					9-10 AM	
PEDO PG ELECTIVE POSTING						

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Oral Surgery

PUSHPAGIRI

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Department of Oral and Maxillofacial Surgery
Time table

Day	Time	Batch
Monday	8-9am	Part 2
Tuesday	1:30- 2:30 pm	3rd year
Wednesday	9- 10 am	Part 2
Friday	8-9 am	Part 2
Saturday	8-9am	Part 1

PUSHPAGIRI COLLEGE OF DENTAL SCIENCES MEDICITY TIRUVALLA-7

Dr. K. GEORGE VARGHESE
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Department of Periodontics			
UG Clinical Time table			
Day	10:00 -12.30pm	12.30- 1:00 pm	1:00-3 pm
Monday	III BDS IV BDS Part 1	Lunch Break	IV BDS Part 1
Tuesday	III BDS IV BDS Part 1	Lunch Break	IV BDS Part 1
Wednesday	IV BDS Part 1	Lunch Break	III BDS IV BDS Part 1
Thursday	IV BDS Part 1	Lunch Break	IV BDS Part 1
Friday	IV BDS Part 1	Lunch Break	III BDS IV BDS Part 1
Saturday	III BDS IV BDS Part 1	Lunch Break	

PUSHPAGIRI COLLEGE OF DENTAL SCIENCES PUSHPAGIRI MEDICITY TIRUVALLA

Dr. K. GEORGE VARGHESE

Department Periodontics Time Table		
Day	Time	Batch
Thursday	8.30-10.00	PG Seminar
Saturday	8.30-9.30	Journal club
	8.00-9.00	III BDS lecture
	9.00-10.00	IV BDS Part 1 lecture

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UG CLINICAL TIMETABLE			
DAY	10.00 – 12.30	12.30 – 1.00	1.00 – 2.30
MONDAY	III BDS IV BDS PART 1 IV BDS PART 2	LUNCH BREAK	IV BDS PART 1 IV BDS PART 2
TUESDAY	III BDS IV BDS PART 1 IV BDS PART 2	LUNCH BREAK	IV BDS PART 1 IV BDS PART 2
WEDNESDAY	III BDS IV BDS PART 1 IV BDS PART 2	LUNCH BREAK	IV BDS PART 1 IV BDS PART 2
THRUSDAY	IV BDS PART 1 IV BDS PART 2	LUNCH BREAK	IV BDS PART 1 IV BDS PART 2
FRIDAY	III BDS IV BDS PART 1 IV BDS PART 2	LUNCH BREAK	III BDS IV BDS PART 1 IV BDS PART 2
SATURDAY	IV BDS PART 1 IV BDS PART 2	LUNCH BREAK	IV BDS PART 1 IV BDS PART 2

PUSHPAGIRI COLLEGE OF DENTAL SCIENCES
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Dr. K. GEORGE VARGHESE
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TIMETABLE		
DAY	TIME	BATCH
MONDAY	8.00 – 10.30 A.M 8.00 – 9.00 A.M	MDS WEEKLY ASSESSMENT / CASE DISCUSSION III BDS LECTURE
TUESDAY	8.00 – 9.30 A.M 8.00 -- 9.00AM 9.00—10.00AM	MDS CASE DISCUSSION IV BDS LECTURE II BDS PRE-CLINICAL
WEDNESDAY	8.00 – 9.00 A.M 9.00 – 10.00 A.M	MDS CASE DISCUSSION IV BDS LECTURE
THURSDAY	8.00 – 9.30 A.M	MDS JOURNAL CLUB
FRIDAY	8.00 – 9.30 A.M	MDS SEMINAR
SATURDAY	8.00 – 9.30 A.M	MDS CHAPTER DISCUSSION

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PUSHPAGIRI COLLEGE OF DENTAL SCIENCES

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DEPARTMENT OF ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

I MDS TIME TABLE 2020-2021

DAY	8am-9am	9am-10am	10am-11am	11am-12pm	12pm-1pm	1pm-2pm	2pm-3pm	3pm-4pm
MONDAY	Weekly report assessment	Preclinicals	Preclinicals	Preclinicals	Preclinicals	BREAK	Pathology	Biostatistics
TUESDAY	Discussion	Discussion	Preclinicals	Preclinicals	Preclinicals	BREAK	Pharmacology	Anatomy
WEDNESDAY	Discussion	Discussion	Preclinicals	Preclinicals	Preclinicals	BREAK	Preclinicals	Preclinicals
THURSDAY	Journal club	Discussion	Preclinicals	Preclinicals	Preclinicals	BREAK	Preclinicals	Preclinicals
FRIDAY	Seminar	Seminar	Preclinicals	Preclinicals	Preclinicals	BREAK	Microbiology	Physiology
SATURDAY	Chapter Discussion	Preclinicals	Preclinicals	Preclinicals	Preclinicals	BREAK	Preclinicals	Preclinicals

PUSHPAGIRI COLLEGE OF DENTAL SCIENCES TIRUVALLA

Pushpagiri College of Dental Sciences

DEPARTMENT OF ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

II MDS TIME TABLE 2020-2021

DAY	8am-10am	10am-11am	11am-12pm	12pm-1pm	1pm-2pm	2pm-3pm	3pm-4pm
MONDAY	Weekly report assessment	Case discussion	Clinics	Clinics	BREAK	Clinics	
TUESDAY	**8am-9am**	**9am-10am**	**10am-11am**	**11am-1pm**	**1pm-2pm**	**2pm-3pm**	**3pm-4pm**
	Case Discussion	Case Discussion	Clinics	Clinics	BREAK	Clinics	
WEDNESDAY	**8am-9am**	**9am-10am**	**10am-11am**	**11am-1pm**	**1pm-2pm**	**2pm-3pm**	**3pm-4pm**
	Case Discussion	Case Discussion	Clinics	Clinics	BREAK	Clinics	
THURSDAY	**8am-9am**	**9am-10am**	**10am-11am**	**11am-1pm**	**1pm-2pm**	**2pm-3pm**	**3pm-4pm**
	Journal Club	Case Discussion	Clinics	Clinics	BREAK	Clinics	
FRIDAY	**8am-10am**	**10am-11am**	**11am-12pm**	**12pm-1pm**	**1pm-2pm**	**2pm-3pm**	**3pm-4pm**
	Seminar	Seminar	Clinics	Clinics	BREAK	Clinics	
SATURDAY	**8am-9am**	**9am-10am**	**10am-11am**	**11am-1pm**	**1pm-2pm**	**2pm-3pm**	**3pm-4pm**
	Chapter Discussion	Clinics	Clinics	Clinics	BREAK	Clinics	

Pushpagiri College of Dental Sciences

III MDS TIME TABLE							
DAY	**8am-10am**	**10am-11am**	**11am-12pm**	**12pm-1pm**	**1pm-2pm**	**2pm-3pm**	**3pm-4pm**
MONDAY	Weekly report assessment	Case discussion	Clinics	Clinics	BREAK	Clinics	
TUESDAY	**8am-9am**	**9am-10am**	**10am-11am**	**11am-1pm**	**1pm-2pm**	**2pm-3pm**	**3pm-4pm**
	Case Discussion	Case Discussion	Clinics	Clinics	BREAK	Clinics	
WEDNESDAY	**8am-9am**	**9am-10am**	**10am-11am**	**11am-1pm**	**1pm-2pm**	**2pm-3pm**	**3pm-4pm**
	Case Discussion	Case Discussion	Clinics	Clinics	BREAK	Clinics	
THURSDAY	**8am-9am**	**9am-10am**	**10am-11am**	**11am-1pm**	**1pm-2pm**	**2pm-3pm**	**3pm-4pm**
	Journal Club	Case Discussion	Clinics	Clinics	BREAK	Clinics	
FRIDAY	**8am-10am**	**10am-11am**	**11am-12pm**	**12pm-1pm**	**1pm-2pm**	**2pm-3pm**	**3pm-4pm**
	Seminar	Seminar	Clinics	Clinics	BREAK	Clinics	
SATURDAY	**8am-9am**	**9am-10am**	**10am-11am**	**11am-1pm**	**1pm-2pm**	**2pm-3pm**	**3pm-4pm**
	Chapter Discussion	Clinics	Clinics	Clinics	BREAK	Clinics	

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