



BDS REGULATION 2018-2019

PROGRAM OUTCOMES

- PO1** Adequate knowledge of the scientific foundations on which dentistry is based and good understanding of various relevant scientific methods, principles of biological functions and be able to evaluate and analyze scientifically various established facts and data.
- PO2** 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 bearing on physical and social well being of the patient.
- PO3** 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.
- PO4** Adequate clinical experience required for general dental practice.
- PO5** Adequate knowledge of the constitution, 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 in so far as it affect dentistry.
- PO6** 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.

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PRINCIPAL
Sri Venkateshwaraa Dental College,
Ariyur, Puducherry - 605 102.



- PO7** Acquire the skill to prevent and manage complications if encountered while carrying out various surgical and other procedures.
- PO8** Possess skill to carry out certain investigative procedures and ability to interpret laboratory findings.
- PO9** Promote oral health and help prevent oral diseases where possible.
- PO10** Competent in the control of pain and anxiety among the patients during dental treatment.
- PO11** Willing to apply the current knowledge of dentistry in the best interest of the patients and the community.
- PO12** Maintain a high standard of professional ethics and conduct and apply these in all aspects of professional life.
- PO13** Seek to improve awareness and provide possible solutions for oral health problems and needs throughout the community.
- PO14** Willingness to participate in the CPED Programs to update the knowledge and professional skill from time to time.
- PO15** To help and participate in the implementation of the national oral health policy.

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PRINCIPAL
Sri Venkateshwaraa Dental College,
Ariyur, Puducherry - 605 102.



COURSE OUTCOMES

HUMAN ANATOMY, EMBRYOLOGY, HISTOLOGY & MEDICAL GENETICS

- CO1** Know the normal disposition of the structures in the body while clinically examining a patient and while conducting the clinical procedures
- CO2** Know the anatomical basis of disease and injury
- CO3** Know the microscopic structure of the various tissues, a prerequisite for understanding the disease process.
- CO4** Know the nervous system to locate the site of lesion according to the sensory and or the motor deficits encountered
- CO5** Have an idea about the basis of the abnormal development, critical stages of development, effects of teratogens, genetic mutations and environmental hazards
- CO6** Know the sectional anatomy of the head and neck and brain to read the features in the Radiographs and the picture taken by modern technique
- CO7** Know the anatomy of cardiopulmonary resuscitation
- CO8** To locate various structure of the body and to mark the topography of the living anatomy
- CO9** To identify various tissues under microscope
- CO10** To identify the features in radiography and modern imaging techniques.
- CO11** To detect various congenital abnormalities.

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PRINCIPAL
Sri Venkateshwaraa Dental College,
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HUMAN PHYSIOLOGY

- CO 1** Explain the normal functioning of all the organ systems and their interactions for well coordinated total body function.
- CO 2** Assess the relative contribution of each organ system towards the maintenance of the milieu interior.
- CO 3** List the physiological principles underlying the pathogenesis and treatment of disease.
- CO 4** Conduct experiments designed for the study of physiological phenomena
- CO 5** Interpret experimental and investigative data.
- CO 6** Distinguish between normal and abnormal data derived as a result of tests which he/she has performed and observed in the laboratory.
- CO 7** At the end of the integrated teaching the student shall acquire an integrated knowledge of organ structure and function and its regulatory mechanisms.

BIOCHEMISTRY

- CO1** 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.

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Ariyur, Puducherry - 605 102.



DENTAL ANATOMY, EMBRYOLOGY AND ORAL HISTOLOGY

- CO 1 Carving of crowns of permanent teeth in wax.
- CO 2 Microscopic study of Oral tissues.
- CO 3 Identification of Deciduous & Permanent teeth.
- CO 4 Age estimation by patterns of teeth eruption from plaster casts of different age groups
- CO 5 The student is expected to appreciate the normal development, morphology, structure & functions of oral tissues & variations in different pathological/non-pathological states.
- CO 6 The student should understand the histological basis of various dental treatment procedures and physiologic ageing process in the dental tissues.
- CO 7 The students must know the basic knowledge of various research methodologies.

GENERAL PATHOLOGY

- CO1 To demonstrate and apply basic facts, concepts and theories in the field of pathology
- CO2 To recognize and analyze pathological changes at macroscopic and microscopical levels and explain their observations in terms of disease processes.
- CO3 To integrate knowledge from the basic sciences, clinical medicine and dentistry in the study of pathology.
- CO4 To demonstrate understanding of the capabilities and limitations of morphological pathology in its contribution to medicine, dentistry and biological research.
- CO5 To demonstrate ability to consult resource materials outside lectures, laboratory and tutorial classes.

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PRINCIPAL
Sri Venkateshwaraa Dental College,
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MICROBIOLOGY

- CO1** Understand the basics of various branches of microbiology and be able to apply the knowledge relevantly.
- CO2** Apply the knowledge gained in related medical subjects like General Medicine and General Surgery and dental subjects like Oral Pathology, Community Dentistry, Periodontics, Oral Surgery, Paedodontics, Conservative Dentistry and Oral Medicine in higher classes.
- CO3** Understand and practice various methods of sterilization and disinfection in dental clinics.
- CO4** Have a sound understanding of various infectious disease and lesions in the oral cavity.
- CO5** Student should have acquired the skill to diagnose and differentiate various oral lesions.
- CO6** Should be able to select, collect and transport clinical specimens to the laboratory.
- CO7** Should be able to carry out proper aseptic procedures in the dental clinic.

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Prof. Dr. S. SENTHILNATHAN, MDS.,
PRINCIPAL
Sri Venkateshwaraa Dental College,
Ariyur, Puducherry - 605 102.



GENERAL AND DENTAL PHARMACOLOGY AND THERAPEUTICS

- CO1** Describe the pharmacokinetics and pharmacodynamics of essential and commonly used drugs in general and in dentistry in particular.
- CO2** List the indications, contraindications; interactions, and adverse reactions of commonly used drugs with reason.
- CO3** Tailor the use of appropriate drugs in disease with consideration to its cost, efficacy, safety for individual and mass therapy needs.
- CO4** Indicate special care in prescribing common and essential drugs in special medical situations such as pregnancy, lactation, old age, renal, hepatic damage and immunocompromised patients.
- CO5** Integrate the rational drug therapy in clinical pharmacology.
- CO6** Indicate the principles underlying the concepts of “Essential drugs”.
- CO7** Prescribe drugs for common dental and medical ailments.
- CO8** To appreciate adverse reactions and drug interactions of commonly used drugs.
- CO9** Observe experiments designed for study of effects of drugs.
- CO10** Critically evaluate drug formulations and be able to interpret the clinical pharmacology of marketed preparations commonly used in dentistry.
- CO11** Practical knowledge of use of drugs in clinical practice will be acquired through integrated teaching with clinical departments.

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PRINCIPAL
Sri Venkateshwaraa Dental College,
Ariyur, Puducherry - 605 102.



DENTAL MATERIALS

- CO1** To understand the evolution and development of science of dental material.
- CO2** To explain purpose of course in dental materials to personnel concerned with the profession of the dentistry.
- CO3** Knowledge of physical and chemical properties.
- CO4** Knowledge of biomechanical requirements of particular restorative procedure.
- CO5** An intelligent compromise of the conflicting as well as co-ordinating factors into the desired Ernest.
- CO6** Laying down standards or specifications of various materials to guide to manufacturers as well as to help professionals.

GENERAL MEDICINE

- CO1** Special precautions/ contraindication of anaesthesia and various dental procedures in different systemic diseases, oral manifestations of systemic diseases and medical emergencies in dental practice.

GENERAL SURGERY

- CO1** To acquaint the student with various diseases, which may require surgical expertise and to train the student to analyze the history and be able to do a thorough physical examination of the patient.

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Ariyur, Puducherry - 605 102.



ORAL PATHOLOGY & ORAL MICROBIOLOGY

- CO1** The different types of pathological processes that involve the oral cavity
- CO2** The manifestation of common diseases, their diagnosis and correlation with clinical pathological processes
- CO3** The oral manifestation of systemic diseases to help in correlating with systemic, physical signs and laboratory findings
- CO4** The underlying biological principles governing treatment of oral diseases
- CO5** The principles of certain basic aspects of Forensic Odontology
- CO6** Microscopic study of common lesions affecting oral tissues through microscopic slides and projection slides
- CO7** Study of the disease process by surgical specimens
- CO8** Study of teeth anomalies/polymorphisms through tooth specimens and plaster casts
- CO9** Microscopic study of plaque pathogens
- CO10** Study of hematological preparations (blood films) of anemias & leukoplakias
- CO11** Basic exercise in Forensic odontology such as histological methods of age estimation and appearance of teeth in injuries

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PRINCIPAL
Sri Venkateshwaraa Dental College,
Ariyur, Puducherry - 605 102.



CONSERVATIVE DENTISTRY AND ENDODONTICS

- CO 1 To diagnose and treat simple restorative work for teeth.
- CO 2 To gain knowledge about aesthetic restorative material and to translate the same to patients needs.
- CO 3 To gain the knowledge about endodontic treatment on the basis of scientific foundation.
- CO 4 To carry out simple endodontic treatment.
- CO 5 To carry out simple luxation of tooth and its treatment and to provide emergency endodontic treatment
- CO 6 To use medium and high speed hand pieces to carry out restorative work.
- CO 7 Poses the skills to use and familiarize endodontic instruments and materials needed for carrying out simple endodontic treatment.
- CO 8 To achieve the skills to translate patients esthetic needs along with function
- CO 9 Maintain a high standard of professional ethics and conduct and apply these in all aspects of professional life.
- CO 10 Willingness to participate in CDE programme to update the knowledge and professional skill from time to time.
- CO 11 To help and participate in the implementation of the national oral health policy.
- CO 12 He should be able to motivate the patient for proper dental treatment at the same time proper maintenance of oral hygiene should be emphasise which will help to maintain the restorative work and prevent future damage.

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Sri Venkateshwaraa Dental College,
Ariyur, Puducherry - 605 102.



ORAL & MAXILLOFACIAL SURGERY

- CO1** Able to apply the knowledge gained in the related medical subjects like pathology, microbiology and general medicine in the management of patients with oral surgical problem.
- CO2** Able to diagnose, manage and treat (understand the principles of treatment of) patients with oral surgical problems.
- CO3** Knowledge of range of surgical treatments.
- CO4** Ability to decide the requirement of a patient to have oral surgical specialist opinion or treatment.
- CO5** Understand the principles of in-patient management.
- CO6** Understanding of the management of major oral surgical procedures and principles involved in patient management.
- CO7** Should know ethical issues and communication ability.
- CO8** A graduate should have acquired the skill to examine any patient with an oral surgical problem in an orderly manner. Be able to understand requisition of various clinical and laboratory investigations and is capable of formulating differential diagnosis.
- CO9** Should be competent in the extraction of teeth under both local and general anaesthesia.
- CO10** Should be able to carry out certain minor oral surgical procedures under L.A. like frenectomy, alveolar procedures & biopsy etc.
- CO11** Ability to assess, prevent and manage various complications during and after surgery.
- CO12** Able to provide primary care and manage medical emergencies in the dental office.
- CO13** Understanding of the management of major oral surgical problems and principles involved in inpatient management.

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PRINCIPAL
Sri Venkateshwaraa Dental College,
Ariyur, Puducherry - 605 102.



ORAL MEDICINE AND RADIOLOGY

- CO1** To train the students to diagnose the common disorders of Orofacial region by clinical examination and with the help of such investigations as may be required and medical management of oro-facial disorders with drugs and physical agents.
- CO2** To train the students about the importance, role, use and techniques of radiographs/digital radiograph and other imaging methods in diagnosis.
- CO3** The principles of the clinical and radiographic aspects of Forensic Odontology.

ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS

- CO1** To enable the qualifying dental surgeon to diagnose, analyse and treat common orthodontic problems by preventive, interceptive and corrective orthodontic procedures.

PUBLIC HEALTH DENTISTRY

- CO1** The student shall have a knowledge of the basis of public health, preventive dentistry, public health problem in India, nutrition, environment and their role in health, basis of dental statistics, epidemiological methods, national oral health policy.
- CO2** The students shall acquire the skill of identifying health problems affecting the society, conducting health surveys, conducting health education classes and deciding the health strategies.
- CO3** The students should develop positive attitude towards the problems of the society and must take responsibilities in providing health.

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PRINCIPAL
Sri Venkateshwaraa Dental College,
Ariyur, Puducherry - 605 102.



PERIODONTOLOGY

- CO1** The student shall acquire the skill to perform dental scaling ,diagnostic tests of periodontal diseases; to use the instruments for periodontal therapy and maintenance of the same.
- CO2** The student shall develop attitude to impart the preventive measures namely, the prevention of periodontal diseases and prevention of the progress of the disease.
- CO3** The student shall also develop an attitude to perform the treatment with full aseptic precautions; shall develop an attitude to prevent iatrogenic diseases; to conserve the tooth to the maximum possible time by maintaining periodontal health and to refer the patients who require specialist's care.

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Prof. Dr. S. SENTHILNATHAN, MDS.,
PRINCIPAL
Sri Venkateshwaraa Dental College,
Ariyur, Puducherry - 605 102.



MDS – REGULATION 2018-2019

PROGRAM OUTCOMES

- PO1** Demonstrate understanding of basic sciences relevant to specialty.
- PO2** Describe etiology, patho physiology, principles of diagnosis and management of common problems within the specialty in adults and children.
- PO3** Identify social, economic, environmental and emotional determinants in a given case and take them in to account for planned treatment.
- PO4** Recognize conditions that may be outside the area of specialty or competence and to refer them to the concerned specialist.
- PO5** Update knowledge by self-study and by attending courses, conferences and seminars pertaining to specialty.
- PO6** Undertake audit, use information technology and carry out research in both basic and clinical with the aim of publishing or presenting the work at various scientific gathering;
- PO7** Take a proper clinical history, examine the patient, perform essential diagnostic procedures and order relevant tests and interpret them to come to a reasonable diagnosis about the condition.
- PO8** Acquire adequate skills and competence in performing various procedures as required in the specialty.
- PO9** Adopt ethical principles in all aspects of practice.
- PO10** Foster professional honesty and integrity.


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Prof. Dr. S. SENTHILNATHAN, MDS
PRINCIPAL
Sri Venkateshwaraa Dental College,
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- PO11** Deliver patient care irrespective of social status, caste, creed, or religion of the patient.
- PO12** Develop communication skills, to explain various options available and obtain a true informed consent from the patient.
- PO13** Provide leadership and get the best out of his team in a congenial working atmosphere.
- PO14** Apply high moral and ethical standards while carrying out human or animal research.
- PO15** Be humble and accept the limitations in his knowledge and skill and to ask for help from colleagues when needed.
- PO16** Respect patient's rights and privileges including patient's right to information and right to seek a second opinion.

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Prof. Dr. S. SENTHILNATHAM MDS.,
PRINCIPAL
Sri Venkateshwaraa Dental College
Ariyur, Puducherry - 605102.



COURSE OUTCOMES

OPERATIVE DENTISTRY AND ENDODONTICS

- CO1** Applied Basic Sciences: Applied Anatomy, Physiology, Pathology including Oral Microbiology, Pharmacology, Biostatistics and Research Methodology and Applied Dental Materials.
- CO2** Conservative Dentistry
- CO3** Endodontics
- CO4** Descriptive and analyzing type question

ORAL AND MAXILLOFACIAL SURGERY

- CO1** Applied Basic Sciences: Applied Anatomy, Physiology, & Biochemistry, Pathology, Microbiology, Pharmacology, Research Methodology and Biostatistics
- CO2** Minor Oral Surgery and Trauma
- CO3** Maxillo-facial Surgery
- CO4** Descriptive and analyzing type question

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PRINCIPAL
Sri Venkateshwaraa Dental College,
Ariyur, Puducherry - 605 102.



PROSTHODONTICS

- CO1** Applied Basic Sciences: Applied anatomy, embryology, growth and development Genetics, Immunology, anthropology, Physiology, nutrition and Biochemistry, Pathology and Microbiology, virology, Applied pharmacology, Research Methodology and bio statistics,. Applied Dental anatomy and histology, Oral pathology & oral Microbiology, Adult and geriatric psychology. Applied dental materials.
- CO2** Removable Prosthodontics and Implant supported prosthesis (Implantology), Geriatric dentistry and Cranio facial Prosthodontics
- CO3** Fixed Prosthodontics, occlusion, TMJ and esthetics.
- CO4** Descriptive and analyzing type questions

PERIODONTICS

- CO1** Applied Basic Sciences: Applied Anatomy, Physiology, and Biochemistry, Pathology, Microbiology, Pharmacology, Research Methodology and Biostatistics.
- CO2** Normal Periodontal structure, Etiology and Pathogenesis of Periodontal diseases, epidemiology as related to Periodontics
- CO3** Periodontal diagnosis, therapy and Oral implantology
- CO4** Descriptive and analyzing type question

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PRINCIPAL
Sri Venkateshwaraa Dental College,
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