



MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

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Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)

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2.6 .1 COURSE OUTCOME

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2.6.1 STATED LEARNING OUTCOMES

PROGRAM OUTCOME, PROGRAM SPECIFIC OUTCOME AND COURSE OUTCOME IN BACHELOR OF DENTAL SURGERY PROGRAM

COURSE	SUBJECT	COURSE OUTCOME
FIRST YEAR BDS	ANATOMICAL SCIENCE	<p>a. <u>Knowledge and understanding</u></p> <p>1. Be aware of the typical positioning of the body's structures when performing clinical procedures and clinical examinations on a patient.</p> <p>b. <u>SKILLS:</u></p> <p>1. To mark the topography of living anatomy and locate various body structures.</p> <p>2. To use a microscope to identify various tissues</p> <p>3. To identify the characteristics of modern imaging methods and radiography</p> <p>c. <u>ATTITUDE:</u></p> <p>1. Willingness to apply the current knowledge of dentistry in the best interest of the patient and community</p> <p>2. willingness to put the most recent dental knowledge to use for the benefit of the patient and the community</p>
FIRST YEAR BDS	PHYSIOLOGY	<p>a. <u>KNOWLEDGE AND UNDERSTANDING</u></p> <p>1. Give an explanation of how each organ system functions normally and how they interact with one another for coordinated total body function</p>

		<p>2. Determine the proportion of each organ system's contribution to the milieu interview's upkeep.</p> <p>3. Make a list of the physiological mechanisms that underlie disease pathogenesis and treatment.</p> <p>b. <u>SKILLS</u> At the end of the course, the student shall be able to</p> <ol style="list-style-type: none"> 1. Carry out experiments that are meant to investigate physiological phenomena. 2. Interpret the results of experiments and investigations. 3. Differentiate between data that are normal and data that are abnormal based on tests that he or she has performed and observed in the laboratory.. <p>c. <u>ATTITUDE</u> To cultivate a mindset of service to the rural community</p> <p>d. <u>INTEGRATION</u> The student will have a comprehensive understanding of organ structure and function, as well as its regulatory mechanisms, at the conclusion of the integrated instruction.</p> <p>a. <u>KNOWLEDGE AND UNDERSTANDING</u> At the end of the course, the student should be able to: List the subcellular components of a cell and describe its molecular and functional organization</p> <ol style="list-style-type: none"> 1.
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<p>FIRST YEAR BDS</p>	<p>BIOCHEMISTRY</p>	<ol style="list-style-type: none"> 2. Identify biomolecules' structure, function, and interrelationships, as well as the effects of deviation from normal 3. Summarize the fundamental enzymatic activity regulation-related aspects of enzymology and clinical application 4. Give a description of the digestion and absorption of nutrients 5. Integrate the various parts of metabolism and the pathways that control them. 6. Make sense of the biochemical premise of acquired messes with their related spin-off 7. Describe the mechanisms that are involved in maintaining the homeostatic pH of body fluids. 8. Outline the principles of genetic engineering and how they can be used in dentistry, as well as the molecular mechanisms of gene expression and regulation. 9. Sum up the atomic ideas of body protection and their application in dentistry 10. Outline the biochemical determinants of cancer, carcinogenesis, and environmental health risks. 11. Describe the fundamentals of a variety of conventional and specialized laboratory investigations, as well as the instrumentation, analysis, and interpretation of specific dental-related data. 12. Provide evidence for theoretical concepts and clinical diagnosis by
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<p>FIRST BDS</p>	<p>DENTAL ANATOMY, EMBRYOLOGY AND ORAL HISTOLOGY</p>	<p>suggesting experiments.</p> <p>b. <u>SKILLS</u> At the end of the course, the student should be able to</p> <ol style="list-style-type: none"> 1. Make use of conventional techniques/instruments to perform biochemical analysis relevant to clinical screening and diagnosis 2. Analyze and interpret investigative data 3. Demonstrate the skills of solving scientific and clinical problems and decision making in dentistry <p>c. <u>ATTITUDE</u></p> <ol style="list-style-type: none"> 1. At the end of the course, the student should be able to understand the biochemical basis of the health and diseases <p>d. <u>INTEGRATION</u></p> <ol style="list-style-type: none"> 1. The knowledge acquired in biochemistry should help the students to integrate molecular events with structure and function of the human body <p>a. <u>KNOWLEDGE AND UNDERSTANDING</u></p> <ol style="list-style-type: none"> 1. To acquire an understanding of how cells, tissues, and organs develop and function in order to gain a clear perspective of these structures as a basis for understanding oral biology/ecology 2. To develop a comprehension of the principles of embryogenesis and human development with emphasis on the face and structures of the oral cavity
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		<ol style="list-style-type: none"> 3. To understand, comprehend, describe, compare, and illustrate the histologic characteristics of oral complex, and the health and diseased states 4. To develop a professional vocabulary of terminology related to the head and neck, the oral complex, and the teeth so as to apply in clinical scenarios 5. To identify, locate, and relate the gross anatomical structures of the head and neck to include various teeth, the bones of the skull, musculature, major nerves, glands and the circulatory and lymphatic systems 6. To identify the histologic and anatomic features of the extra-oral and intraoral structures 7. To compare and contrast the human dentition in relationship to location, function and morphology 8. To identify, comprehend, describe the sequence and eruption patterns of primary and permanent teeth and their implications on future oral and overall health 9. To understand the oral physiology, unique biochemical basis behind of oral musculature, glands and movements 10. To be able to clinically apply and incorporate knowledge of tooth morphology, dental occlusion, head and neck anatomy, histology, and embryology into patient assessment, preventive management, treatment planning, and patient education in future <p>b. <u>SKILLS</u></p>
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		<ol style="list-style-type: none"> 1. Able to carve and reproduce the morphology of human permanent teeth in wax blocks 2. Able to identify different oral hard tissues in clinical situations 3. Able to differentiate normal from abnormal and diseased states 4. Able to identify various types of human teeth based in their morphology 5. Able to appreciate the influence of age, gender and race on oral and para-oral structures 6. Able to locate the different areas/surfaces of the teeth 7. Able to understand the implications of the disease process and ageing on normal oral structures 8. Able to appreciate the eruption and shedding pattern of human teeth 9. Able to appreciate and integrate the concept of occlusion, range of human jaw movements in preclinical and clinical situations 10. Able to use effectively the terminologies and anatomical terms for clinical and patient communication <p><u>Competencies specific to the subject</u></p> <ol style="list-style-type: none"> 1. To gain knowledge about the microscope configuration of normal histological structure of both soft and hard tissue <p>a. <u>KNOWLEGDE AND UNDERSTANDING</u></p> <ol style="list-style-type: none"> 1. To demonstrate and analyze
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<p style="text-align: center;">SECOND YEAR BDS</p>	<p style="text-align: center;">GENERAL PATHOLOGY</p>	<p>pathological changes microscopic and macroscopic levels and explain their observations in terms of disease processes</p> <ol style="list-style-type: none"> 2. To integrate knowledge from the basic sciences, clinical medicine and dentistry in the study of pathology 3. To demonstrate understanding of the capabilities and limitations of morphological pathology in its contribution to medicine, dentistry and biological research 4. To demonstrate ability to consult resource materials outside lectures, laboratory and tutorial classes <p>b. <u>SKILLS</u></p> <ol style="list-style-type: none"> 1. A dental graduate should be able to identify the abnormal diseases like tumour, non tumours and also to arrive what are the investigations needed for the diagnosis of the diseases 2. Carry out certain investigations and ability to interpret lab findings <p>c. <u>ATTITUDE</u></p> <ol style="list-style-type: none"> 1. A dental student must be willing to apply the knowledge gained in pathology in the best interest of the patient and the community 2. Maintain a high standard of professional ethics in patient care and also in carrying out the diagnostic modalities 3. Willing to update knowledge in pathological conditions and diagnostic investigations from time to time <p>d. <u>INTEGRATION</u></p> <p>The dental students must be able to integrate the pathological aspects with the diseases so that it helps to understand the disease nature and</p>
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<p style="text-align: center;">SECOND YEAR BDS</p>	<p style="text-align: center;">MICROBIOLOGY</p>	<p>management of the disease</p> <p>a. <u>KNOWLEDGE AND UNDERSTANDING</u></p> <p>At the end of the Microbiology course the student is expected to</p> <ol style="list-style-type: none"> 1. Understand the basics of various branches of Microbiology and able to apply the knowledge relevantly 2. Apply the knowledge gain in related medical subjects like General Medicine and general surgery and dental subjects like oral pathology, community dentistry, periodontics, oral surgery, Pedodontics, conservative dentistry and oral medicine in higher classes 3. Understand and practice various methods of sterilization and disinfection in dental clinics 4. Have a sound understanding of various infectious diseases and lesions in the oral cavity 5. Awareness of health care associated infections and their prevention in dental practice <p>b. <u>SKILLS</u></p> <ol style="list-style-type: none"> 1. Student should have acquired the skill to diagnose, differentiate various oral lesions 2. Should be able to select, collect and transport clinical specimens to the laboratory
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		<p>3. Should be able to carry out proper aseptic procedures in the dental clinic</p> <p>4. Interpretation of antimicrobial susceptibility testes and to make right choice of antibiotic based on spectrum and ensure appropriate use to avoid antibiotic resistance</p> <p>c. <u>ATTITUDE</u></p> <p>i. To apply knowledge in the interest of the individual patient and community</p> <p>ii. Maintain high standards of professional ethics in patient care and in carrying out diagnostic tests</p> <p>iii. To update know ledge from time to time with regard to diagnostics and immunoprophylaxis</p> <p>d. <u>INTEGRATION</u></p> <p>1. At the end of integrated teaching the student shall acquire integrated knowledge from different disciplines which includes etiology, morphology, prevention and control of infectious diseases</p> <p>a) <u>KNOWLEDGE AND UNDERSTANDING</u></p> <p>At the end of the course the student shall be able to</p> <p>1. Describe the pharmacokinetics and pharmacodynamics of essential and commonly</p>
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<p style="text-align: center;">SECOND YEAR BDS</p>	<p style="text-align: center;">GENERAL PHARMACOLOGY</p>	<p>used drugs in general and in dentistry in particular</p> <ol style="list-style-type: none"> 2. List the indications, contraindications, interactions and adverse reactions of commonly used drugs with reason 3. Tailor the use of appropriate drugs in disease with consideration to its cost, efficacy, safety for individual and mass therapy needs 4. 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 5. Integrate the rational drug therapy in clinical pharmacology 6. Indicate principles underlying the concepts of 'Essential drugs <p>b) <u>SKILLS:</u></p> <ol style="list-style-type: none"> 1. Prescribe drugs for common medical and dental ailments 2. Appreciate adverse reactions and drug interactions of commonly used drugs 3. Observe evaluate drug formulations and be able to interpret the clinical pharmacology of marketed preparations commonly used in dentistry <p>c) <u>ATTITUDE</u></p> <ol style="list-style-type: none"> 1. To develop the attitude to serve the rural community <p>d) <u>INTERACTION</u></p> <ol style="list-style-type: none"> 1. Practical knowledge of use of drugs in clinical practice will be acquired through integrated teaching with clinical departments
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<p>SECOND YEAR BDS</p>	<p>DENTAL MATERIALS</p>	<p>a) <u>KNOWLEDGE AND UNDERSTANDING</u></p> <p>The graduate should acquire the following during the period of training</p> <p>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. To understand the evolution and development of science of dental materials. To know about the manipulation technique of various restorative materials</p> <p>b. <u>SKILLS</u></p> <p>A graduate should be able to demonstrate the following skills necessary for practice of dentistry. Students should know about the physical and chemical properties of the dental materials</p> <p><u>ATTITUDE</u></p> <p>A graduate should develop during the training during the training periods the following attitudes. Willing to apply current knowledge of dentistry in the best interest of the patients and the community. Maintain a high standard of professional ethics and conduct and apply these in all aspects of professional life. Seek to</p>
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<p>SECOND YEAR BDS</p>	<p>PRE CLINICAL CONSERVATIVE DENTISTRY</p>	<p>improve awareness and provide possible situations for oral health problems and needs throughout the community. Willingness to participate in the skills from time to time. To help and to participate in the implementation of National Health Programmes</p> <p>a. <u>KNOWLEDGE AND UNDERSTANDING</u></p> <p>The students should acquire adequate knowledge during this period of training. Knowledge of the scientific foundation of conservative dentistry and understanding of various treatment procedures carried out in conservative dentistry with emphasize on biological principal to be followed during these treatment procedures and to acquire knowledge of various instruments and material used in restorative procedures. They should also be aware of various manipulative techniques techniques of restorative material</p> <p>b. <u>SKILLS</u></p> <p>The students should be able to demonstrate the following skills which are necessary for practice in conservative dentistry. To develop skills in manipulation of various skills in preparation of various cavities and to perform various restorative procedures</p> <p>c. <u>ATTITUDE</u></p> <p>The students should be able to</p>
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		<p>apply the current knowledge of various materials used in dentistry in the interest of patients and community in general. To be aware of recent developments in instruments and materials used in conservative dentistry and update his/her knowledge by attaining various contributing education programmes. Should be aware of both benefits and health hazards of various restorative materials used in conservative dentistry. Should maintain high standard of professional ethics and apply those in all aspects of professional life</p> <p>d. <u>INTEGRATION:</u></p> <p>The dental student must be able to identify the healthy and diseased state of the teeth, thereby enabling them to better understand the diseased state and to plan an ideal treatment protocol for the same</p> <p>a. <u>KNOWLEDGE</u></p> <p>i) Adequate comprehension of the scientific theories and methodologies that form the basis of dentistry, as well as numerous known scientific facts and concepts.</p> <p>ii) Appropriate understanding of the growth, structure, and function of the teeth, mouth, jaws, and associated tissues in health and disease, as well as their relationship to and influence on general state of health</p>
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<p>SECOND YEAR BDS</p>	<p>PRE CLINICAL PROSTHODONTICS & CROWN & BRIDGE</p>	<p>and patient's physical and social well-being.</p> <p>iii) Adequate clinical discipline and procedure knowledge that gives a comprehensive picture of abnormalities, lesions, and diseases of the teeth, mouth, and jaws as well as dental prevention, diagnostics, and treatment.</p> <p>iv) Adequate understanding of the human constitution, biological processes, and behaviour is necessary for general dentistry practise.</p> <p>b. ATTITUDE</p> <ol style="list-style-type: none"> 1. A graduate should cultivate the following attitudes during the training phase. 2. Willingness to use contemporary dental knowledge in the patient's and the community's best interests. 3. Uphold a high standard of professional ethics and behaviour and adhere to it in all facets of professional life. 4. Work to raise community awareness of oral health issues and needs and to offer solutions where possible. 5. Willingness to participate in CPED programmes to periodically refresh knowledge and professional skills. 6. Help and participation in the implementation of the
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		<p style="text-align: right;">national oral health policy</p> <p>c. <u>SKILLS</u></p> <p>A graduate should be able to demonstrate the following the following skills necessary for practice in dentistry</p> <ol style="list-style-type: none"> 1. Diagnose and treat a variety of typical dental issues that arise in general dentistry practise while keeping in mind the needs and expectations of society and its right to the best available treatment whenever possible. 2. Avoid and treat complications when performing various surgical and other procedures. 3. Execute certain research techniques and have the ability to decipher lab results 4. Encourage good dental hygiene and, where possible, work to prevent oral disease. <p>d. <u>INTEGRATION</u></p> <ol style="list-style-type: none"> 1. Comprehensive knowledge of all Prosthodontic subspecialties (CD,RPD,FPD,IMPLANTS etc) <p>a. <u>KNOWLEDGE AND UNDERSTANDING</u></p> <p>At the end of the course the student shall be able to:</p> <ol style="list-style-type: none"> 1. Describe the pathophysiology, clinical manifestations, and consequences of numerous disease processes, as well as
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<p>THIRD YEAR BDS</p>	<p>GENERAL MEDICINE</p>	<p>their aetiology.</p> <ol style="list-style-type: none"> 2. Be aware of the many pre-requisite environments for the occurrence of various diseases, as well as the various co-morbidities, particularly lifestyle diseases like hypertension and diabetes mellitus. 3. Knowledge of the oral symptoms of several systemic illnesses 4. Knowledge of the medical conditions requiring screening and evaluation prior to dental procedures 5. Recognize BLS procedures in the event of a medical emergency while undergoing dental operations. <p>a. <u>SKILLS</u></p> <p>At the end of the course the student shall be able to:</p> <ol style="list-style-type: none"> 1. Make sure the patient gives a complete history. 2. Conduct a comprehensive general physical examination, taking into account your build and diet 3. Assess the patient's vitals by taking detailed pulse, blood pressure, temperature, and capillary blood glucose and oxygen saturation readings. 4. Cyanosis, pallor, clubbing, icterus, pedal edema, lymphadenopathy, rashes, and echymosis should be looked for 5. Able to examine the facial
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		<p>nerve, CVS, RS, and abdomen</p> <ol style="list-style-type: none"> 6. Interpret the systemic disease processes that are elicited signs and symptoms 7. Interpreting laboratory reports, such as the significance of CBC, RFT, ECG, BT, CT, PT, and INR, among others 8. Prescriptions are written. <p>b. <u>ATTITUDE</u></p> <ol style="list-style-type: none"> c. willingness to put the most recent dental knowledge to use for the benefit of the patient and the community <p>d. <u>INTEGRATIONS:</u></p> <ol style="list-style-type: none"> 1. From the integrated teaching of other clinical sciences, the student shall be able to describe the various signs and symptoms and interpret the clinical manifestation of disease processes. Horizontal integration can be done with basic science departments. For example, horizontal integration can be the interpretation of lab results with Biochemistry and biopsy reports with Pathology; and vertical integration can be the study of oropharyngeal pathology of along with ENT and oral surgical procedures with General surgery <p>a. <u>KNOWLEDGE AND UNDERSTANDING</u></p>
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<p>THIRD YEAR BDS</p>	<p>GENERAL SURGERY</p>	<p>At the end of the third BDS in general surgery the undergraduate student is expected to</p> <ol style="list-style-type: none"> 1. Know the surgical anatomy, physiology and pathological basis of diseases of head and neck 2. Know the basic surgical principles 3. Know eliciting history and to do clinical examination and to arrive at a provisional diagnosis <p>b. <u>SKILLS</u></p> <ol style="list-style-type: none"> 1. Know the interpretation of radiological films of head and neck 2. Know the operative procedures, post operative operative complications and post operative management 3. To differentiate between benign and malignant diseases of head and neck 4. Know to perform minor surgical procedures such as draining an abscess and taking a biopsy <p>c. <u>ATTITUDE</u></p> <ol style="list-style-type: none"> 1. Willingness to apply the current knowledge of dentistry in the best interest of the patient and community 2. Seek to improve awareness and provide possible solutions for oral health problems and needs throughout the community
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		<p>d. <u>INTEGRATION</u></p> <p>1. By emphasizing on the relevant information and sound knowledge of basic science, 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 clinical examination of the patient</p> <p>a. <u>KNOWLEDGE AND UNDERSTANDING</u></p> <p>1. Adequate knowledge of the scientific foundations on which dentistry is based and good understanding of various relevant scientific methods, principles of biological functions: ability to evaluate and analyze scientifically various established facts and data</p> <p>2. Adequate knowledge of the development, structure and function of the teeth, mouth and jaws and associated tissues both in health and also bearing on physical and social well-being of the patient</p> <p>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</p>
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<p>THIRD YEAR BDS</p>	<p>ORAL PATHOLOGY AND ORAL MICROBIOLOGY</p>	<p>and therapeutic aspects of dentistry</p> <ol style="list-style-type: none"> 4. Adequate clinical experience required for general dental practice 5. 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 environmental on the state of health in so far as it affect dentistry <p>b. <u>SKILLS</u></p> <p>A graduate should be able to demonstrate the following skills necessary for practice of dentistry</p> <ol style="list-style-type: none"> 1. Diagnosis 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. Prevent and manage complications if encountered while carrying out various surgical and other procedures 3. Carry out certain investigate procedures and ability to interpret laboratory findings 4. Promote oral health and help prevent oral diseases where possible 5. Control pain and anxiety among the patients during dental treatment
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		<p>c. <u>ATTITUDE</u></p> <ol style="list-style-type: none"> 1. Willingness to apply the current knowledge of dentistry in the best interest of the patient and 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 CPED programs to update knowledge and professional skill from time to time 5. Help and participate in the implementation of the national oral health policy <p>d. <u>INTEGRATION:</u></p> <p>The knowledge gained from learning core basic and clinical science in medicine and dentistry are applied in the context of oral pathology for the following purpose:-</p> <ol style="list-style-type: none"> 1. To understand the process of disease mechanism and consequential outcome 2. To interpret radiological and/or laboratory features to make reliable pathological diagnosis, and thereby, to manage human health and
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		<p>disease</p> <p>3. In addition by integration of sound basic knowledge into clinical practice will enable students of sound basic knowledge into clinical practice will enable students to develop and advance their skills for the betterment of patient care by applying scientific method either for critical appraisal of evidence based medicine or to pursue independent research relevant to medical/dental practice</p> <p>a. <u>KNOWLEDGE AND UNDERSTANDING</u></p> <p>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 analyze scientifically various established facts and data</p> <p>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</p>
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Pratibha

<p>FOURTH YEAR BDS</p>	<p>ORAL MEDICINE AND RADIOLOGY</p>	<ol style="list-style-type: none"> 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 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 as it affects dentistry <p>b. <u>SKILLS</u></p> <ol style="list-style-type: none"> 1. able to diagnose and treat a variety of common dental issues that arise in general dental practice while adhering to society's expectations and the right to receive the best treatment possible wherever possible how to avoid and deal with complications during a variety of dental surgical and other procedures 2. how to avoid and deal with complications during a variety of dental surgical and other procedures 3. Promote oral health and prevent oral disease wherever possible
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		<p>4. Precise treatment planning</p> <p>5. Good control of pain and anxiety during dental treatment</p> <p>c. <u>ATTITUDE</u></p> <p>A graduate should develop during the training period the following attitudes</p> <ol style="list-style-type: none"> 1. Willingness to apply current knowledge in dentistry in the best interests of the patient and community 2. Maintain high standards of professional ethics and behavior and apply them to all aspects of professional life 3. Raise awareness of community-wide oral health problems and needs and seek to provide possible solutions 4. Willingness to participate in continuing education programs to continually update knowledge and professional skills <p>d. <u>INTEGRATION</u></p> <ol style="list-style-type: none"> 1. From the integrated teaching, the student shall be able to describe the various signs and symptoms and interpret the clinical manifestation of disease processes 2. Horizontal integration can be done in common with basic science departments, and vertical integration can be done with clinical departments
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<p>FINAL YEAR BDS</p>	<p>PEDODONTICS AND PREVENTIVE DENTISTRY</p>	<p>a. <u>KNOWLEDGE AND UNDERSTANDING</u></p> <ol style="list-style-type: none"> 1. Adequate knowledge of the scientific foundations on which dentistry is based and good understanding of various relevant scientific methods, principles of biological functions, ability to evaluate and analyze 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 also 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
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		<p>5. 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</p> <p>b. <u>SKILLS</u></p> <p>A graduate should be able to demonstrate the following skills necessary for practice of dentistry</p> <ol style="list-style-type: none"> 1. 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. Prevent and manage complications if encountered while carrying out various surgical and other procedures 3. Carry out certain investigative procedures and ability to interpret laboratory findings 4. Promote oral health and help prevent oral diseases where possible 5. Control pain and anxiety among the patients during dental treatment <p>c. <u>ATTITUDE</u></p>
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		<p>A graduate should develop during the training period the following attitudes</p> <ol style="list-style-type: none"> 1. Willingness to apply the current knowledge of dentistry in the best interest of the patient and 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 CPED programs to update knowledge and professional skill from time to time 5. Help and participate in the implementation of the national oral health policy <p>d. <u>INTEGRATION</u></p> <ol style="list-style-type: none"> 1. A graduate should have good knowledge and should be able to apply the different concepts and manage the patient as a whole <p>a. <u>KNOWLEDGE</u></p> <ol style="list-style-type: none"> 1. Demonstrate understanding of basic sciences relevant to speciality 2. Describe aetiology, pathophysiology, principles of diagnosis and
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<p>FOURTH YEAR BDS</p>	<p>ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS</p>	<p>management of common problems within the speciality in adults and children</p> <ol style="list-style-type: none"> 3. Identify social, economic , environmental and emotional determinants in a given case and take them into account for planned treatment 4. Recognize conditions that may be outside the area of speciality or competence and to refer them to the concerned specialist 5. Knowledge by self study and by attending courses, conferences and seminars pertaining to speciality 6. 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 <p>b. <u>SKILLS</u></p> <ol style="list-style-type: none"> 1. 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 conditions 2. Acquire adequate skills and competence in performing various procedures as required in the speciality <p>c. <u>ATTITUDE</u></p> <p>HUMAN VALUES, ETHICAL PRACTICE AND COMMUNICATION ABILITIES</p>
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		<ol style="list-style-type: none"> 1. Adopt ethical principles in all aspects of practice 2. Foster professional honesty and integrity 3. Deliver patient care irrespective of social, caste, creed, or religion of the patient 4. Develop communication skills, to explain various options available and obtain a true informed consent from the patient 5. Provide leadership and get the best out of his team in a congenial working atmosphere 6. Apply high moral and ethical standards while carrying out human or animal research 7. Be humble and accept the limitations in his knowledge and skill and to ask for help from colleagues when needed 8. Respect patients rights and privileges including patients right to information and right to seek a second opinion <p>d. <u>INTEGRATION</u></p> <ol style="list-style-type: none"> 1. Students should have a holistic understanding of each of the pathological situation and be able to frame a comprehensive treatment plan and deliver treatment to the limitations of what she/he is trained and efficient and at the same time refer to the concerned specialists thereafter for
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<p style="text-align: center;">FOURTH YEAR BDS</p>	<p style="text-align: center;">PERIODONTOLGY</p>	<p style="text-align: right;">opinion/further management</p> <p>a. <u>KNOWLEDGE AND UNDERSTANDING</u></p> <p>To have adequate knowledge and understanding of the basic periodontology tissues, etiology, pathophysiology, diagnosis and treatment planning for various periodontal disease/problem</p> <p>b. <u>SKILL</u></p> <p>To chart a proper clinical history after thorough examination of the patient able to perform, diagnostic procedure, able to interpret laboratory investigation, arrive at a provisional/ definitive diagnosis regarding the periodontal problem in question</p> <p>c. <u>ATTITUDE</u></p> <p>To develop the right attitude to store his knowledge and the willingness to learn newer concept so as to keep pace with current technology and development; also to seek opinion from a allied medical dental specialist as and when required</p> <p>d. <u>INTEGRATION</u></p> <p>From the integrated teaching of other clinical sciences, the students shall be able to describe the various signs, and symptoms and interpret the clinical manifestations of disease processes</p> <p>a. <u>KNOWLEDGE AND UNDERSTANDING</u></p> <p>1. Adequate knowledge of the scientific foundations on which dentistry is</p>
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<p>FOURTH YEAR BDS</p>	<p>PROSTHODONTICS AND CROWN AND BRIDGE</p>	<p>based and good understanding of various relevant scientific methods, principles of biological functions, ability to evaluate and analyze scientifically various established facts and deals</p> <ol style="list-style-type: none"> 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 in general state of health and also hearing 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 the general dental practice 5. Adequate knowledge of the constitution, biological functions and behavior of persons in health and sickness as well as the influence of the of the natural and social environment on the state of health in so far as it affects dentistry <p>b. ATTITUDE</p>
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		<ol style="list-style-type: none"> 1. During the training period, a graduate should develop the following attitudes 2. Willingness to apply the current knowledge of dentistry in the best interest of the patient and community 3. Maintain a high standard of professional ethics and conduct and apply these in all aspects of professional life 4. Seek to improve awareness and provide possible solutions for oral health problems and needs throughout the community 5. Willingness to participate in the CPED programs to update knowledge and professional skill time to time 6. Help and participate in the implementation of the national oral health policy <p>c. <u>SKILLS</u></p> <p>A graduate should be able to demonstrate the following skills necessary for practice in dentistry</p> <ol style="list-style-type: none"> 1. 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. Prevent and manage complications if encountered
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		<p>while carrying out various surgical and other procedures</p> <ol style="list-style-type: none"> 3. Carry out certain investigate procedures and ability to interpret laboratory findings 4. Promote oral health and help prevent oral disease where possible 5. Control pain and anxiety among the patients during dental treatment <p>d. <u>INTEGRATION</u></p> <p>Integrated knowledge about all the divisions in Prosthodontics (CD, RPD, FPD, IMPLANTS etc)</p> <p>a. <u>KNOWLEDGE AND UNDERSTANDING</u></p> <p>The graduate should acquire the following during the period of training</p> <ol style="list-style-type: none"> 1. Adequate knowledge and understanding of etiology, diagnosis and treatment procedures 2. 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 analyze scientifically various established facts and data 3. Adequate knowledge of the development, structure and function of the teeth, mouth
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<p>FOURTH YEAR BDS</p>	<p>CONSERVATIVE DENTISTRY AND ENDODONTICS</p>	<p>and jaws and associated tissues both in health and diseases and their relationship and effect on general-state of health and also the bearing on physical and social well-being of the patient</p> <ol style="list-style-type: none"> 4. 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 5. Adequate clinical experience required for general dental practice 6. 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 <p>b. SKILLS</p> <ol style="list-style-type: none"> 1. The following abilities are necessary for the practice of dentistry and should be demonstrated by a graduate. 2. able to diagnose and treat a variety of common dental issues that arise in general practice while adhering to society's expectations and the right to receive the best treatment possible wherever possible 3. Develop the ability to manage and prevent complications that may arise
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		<p>during a variety of dental surgical and other procedures.</p> <ol style="list-style-type: none"> 4. Be able to interpret laboratory results and perform the necessary investigation procedures Whenever possible, support oral health and aid in the prevention of oral diseases. 5. able to manage anxiety and pain during dental treatment <p>c. <u>ATTITUDE</u></p> <p>A graduate should develop during the training period the following attitudes</p> <ol style="list-style-type: none"> 1. Be compassionate toward the patient and do your best in the circumstances 2. willing to apply current dental knowledge for the benefit of the community and patients 3. Apply and uphold a high standard of professional ethics and behavior in all aspects of your professional life. 4. Attempt to raise community awareness of oral health issues and needs and offer potential solutions 5. willingness to attend periodic continuing education programs to update professional knowledge and skills 6. to assist in the implementation of national health programs and to participate
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		<p>d. <u>INTEGRATION</u></p> <ol style="list-style-type: none"> 1. The student should be able to effectively diagnose and treat the disease at the end of the course. 2. should incorporate management and an interdisciplinary approach <p>a. <u>KNOWLEDGE AND UNDERSTANDING</u></p> <p>At the end of the course and clinical training the graduate is expected to</p> <ol style="list-style-type: none"> 1. Apply the knowledge gained in the related medical subjects like pathology, microbiology and general medicine in the management of patients with oral surgical problems 2. Diagnose, manage and treat (understand the principles of treatment) patients with oral surgical problems 3. Gain knowledge of a range of surgical treatments 4. Be able to decide the requirement of a patient to have oral surgical specialist opinion or treatment 5. Understand the principles of in-patient management 6. Understand the management of major oral surgical procedures and principles involved in patient management 7. Know the ethical issues and have communication ability <p>b. <u>SKILLS</u></p>
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<p>FOURTH YEAR BDS</p>	<p>ORAL AND MAXILLOFACIAL SURGERY</p>	<ol style="list-style-type: none"> 1. 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 2. Should be competent in the extraction of teeth under local and general anaesthesia 3. Should be able to carry out certain minor oral surgical procedures under LA like frenectomy, alveolar procedures & biopsy etc 4. Ability to assess, prevent and manage various complications during and after surgery 5. Able to provide/ primary care and manage medical emergencies in the dental office 6. Understand the management of major oral surgical problems and principles involved, in inpatient management <p>c. ATTITUDE</p> <p>A graduate should develop during the training period the following attitudes</p> <ol style="list-style-type: none"> 1. Willingness to apply the current knowledge of dentistry in the best interest of the patient and community 2. Maintain a high standard
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		<p>of professional ethics and conduct and apply these in all aspects of professional life</p> <ol style="list-style-type: none"> 3. Seek to improve awareness and provide possible solutions for oral health problems and needs throughout the community 4. Willingness to participate in the CDE programs to update knowledge and professional skill from time to time 5. Help and participate in the implementation of the national oral health policy <p><u>d. INTEGRATION</u></p> <p>Horizontal integration is the process of providing education within a structure in which each department or subject area makes a meaningful, all-encompassing contribution to the creation and delivery of education. Learning is enhanced by the explicit connections and interrelationships made between the various subject areas through this process.</p> <p>Vertical integration is the process of bringing together the basic and clinical sciences in such a way that the traditional divide between preclinical and clinical studies is dissolved. Throughout undergraduate education, as well as into postgraduate training and continuing professional development, fundamental science is explicitly represented in the clinical settings of the curriculum.</p>
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<p>FOURTH YEAR</p>	<p>PUBLIC HEALTH DENTISTRY</p>	<p>community on a state, national, and local level to determine a diagnosis for the community. At the individual and community levels, plan and carry out all necessary oral health treatment, prevention, and promotion measures. At the community level, plan, implement, and evaluate an appropriate oral health program. ability to identify causes and plan appropriate preventative and control measures using knowledge of epidemiology. Establish appropriate individual power at various levels and make efficient use of it. Conduct a survey, employ appropriate methods for oral health education, devise strategies for assisting the community in establishing an easy payment plan, and then assess the community's oral health care requirements. Develop administrative, planning, and implementation skills for successful community oral health programs.</p> <p>d. <u>ATTITUDE</u></p> <p>In all aspects of community oral health activities, adhere to ethical principles. to conduct epidemiological research in accordance with moral and ethical standards. Improve your</p>
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		<p>communication skills, especially in order to explain to the patient the causes of oral health problems and how to prevent them. Accept the limitations of his knowledge and skills, be humble, and encourage teamwork by asking colleagues for assistance when necessary. Respect the rights and privileges of the patient, such as their right to information and to a second opinion.</p> <p>e. <u>INTEGRATION</u></p> <p>At the end of the course, the student should be able to effectively communicate the community's needs and all of the most recent methods for preventing oral disease.</p>
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