



MANSAROVAR DENTAL COLLEGE

Mansarovar Campus, Rani Avanti Bai Marg, Village- Hinotia Aalam,

Ward No. 84, Kolar Road, Bhopal (M.P) 462042

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2.6.1 Upload Course Outcomes for all courses (exemplars from Glossary)



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COURSE OUTCOMES FOR BDS DEGREE

BDS COURSE AND YEAR	COURSE OUTCOME
FIRST YEAR BDS	
1. ANATOMY	a) KNOWLEDGE & UNDERSTANDING At the end of the 1 st year BDS course in Anatomical Sciences the undergraduate students is expected to : <ol style="list-style-type: none">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 pre-requisite 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. b) SKILLS <ol style="list-style-type: none">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.
2. HUMAN PHYSIOLOGY	KNOWLEDGE At the end of the course, the student will be able to : <ol style="list-style-type: none">1. Explain the normal functioning of all the organ systems and their interactions for well co ordinate total body function.



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	<ol style="list-style-type: none">2. Assess the relative contribution of each organ system towards the maintenance of the milieu interior.3. List of the physiological principles underlying the pathogenesis and treatment of disease. <p>b) SKILLS</p> <p>At the end of the course, the student shall be able to :</p> <ol style="list-style-type: none">1. Conduct experiments designed for the study of physiological phenomena.2. Interpret experimental and investigative data3. Distinguish between normal and abnormal data derived as a result of tests which he/ she has performed and observed in the laboratory. <p>c) INTEGRATION</p> <p>At the end of the integrated teaching the student shall acquire an integrated knowledge of organ structure and function and its regulatory mechanisms.</p>
BIOCHEMISTRY	<p>KNOWLEDGE AND UNDERSTANDING</p> <p>At the end of the course, the student should be able to:</p> <ol style="list-style-type: none">1. Describe the molecular and functional organization of a cell and lists its subcellular components; delineate structure, function and inter- relationships of biomolecules and consequences of deviation from normal;2. Summarize the fundamental aspects of enzymology and clinical application wherein regulation of enzymatic activity is altered:3. Describe digestion and assimilation of nutrients and consequences of malnutrition; integrate the various aspects of metabolism and their regulatory pathways;4. Explain the biochemical basis of inherited disorders with their associated sequel;5. Describe mechanisms involved in maintenance of body fluid and pH homeostasis;6. Outline the molecular mechanisms of gene expression and regulation, the principles of genetic engineering and their application in dentistry;7. Summarize the molecular concepts of body defense and their application in dentistry.



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	<ol style="list-style-type: none">8. Outline the biochemical basis of environmental health hazards, biochemical basis of cancer and carcinogenesis.9. Explain the principles of various conventional and specialized laboratory investigations and instrumentation analysis and interpretation of a given data relevant to dentistry.10. Suggest experiments to support theoretical concepts and clinical diagnosis. <p>SKILLS: 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. ATTITUDE:4. At the end of the course, the student should be able to understand the biochemical basis of the health and diseases. <p>INTEGRATION: The knowledge acquired in biochemistry should help the students to integrate molecular events with structure and function of the human body.</p>
DENTAL ANATOMY, EMBRYOLOGY AND ORAL HISTOLOGY	<p>SKILLS The student should acquire basic skills in :</p> <ol style="list-style-type: none">1. Carving of crowns of permanent teeth in wax.2. Microscopic study of Oral tissues.3. Identification of Deciduous & Permanent teeth.4. As estimation by patterns of teeth eruption from plaster casts of different age groups. <p>OBJECTIVES After course on Dental Anatomy including Embryology and Oral Histology.</p> <ol style="list-style-type: none">1. The student is expected to appreciate the normal development, morphology, structure & functions of2. Oral tissues & variations in different pathological/ non-pathological states.



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| | <ol style="list-style-type: none">3. The student should understand the histological basis of various dental treatment procedures and physiological ageing process in the dental tissues.4. The students must know the basic knowledge of various research methodologies. |
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SECOND YEAR BDS

GENERAL PATHOLOGY

AIM:

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

OBJECTIVES:

Enabling the student

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

MICROBIOLOGY

OBJECTIVES:

A. KNOWLEDGE AND UNDERSTANDING

At the end of Microbiology course the student is expected to

1. Understand the basics of various branches of microbiology and able to apply the knowledge relevantly.
2. Apply the knowledge gained in related medical subjects like General Medicine and
3. General Surgery and Dental subjects like Oral Pathology, Community Dentistry, Periodontics.
4. Oral Surgery, Pedodontics, Conservative Dentistry and Oral



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	<p>Medicine in higher classes.</p> <ol style="list-style-type: none">5. Understand and practice various methods of sterilization and disinfection in dental clinics.6. Have a sound understanding of various infectious disease and lesions in the oral cavity. <p>B. SKILLS</p> <ol style="list-style-type: none">1. Students should have acquired the skill to diagnose, differentiate various oral lesions.2. Should be able to select, collect and transport clinical specimens to the laboratory.3. Should be able carry out proper aseptic procedures in the dental clinic.
<p>GENERAL AND DENTAL PHARMACOLOGY AND THERAPEUTICS</p>	<p>OBJECTIVES:</p> <p>And the end of the course the student shall be able to:</p> <ol style="list-style-type: none">1. Describe the pharmacokinetics and pharmacodynamics of essential and commonly used drugs in general and in dentistry in particular.2. List of the indications, contraindications: interactions, and adverse reactions of commonly used drugs with reason.3. Tailor the use 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 c damage and patients.5. Integrate the rational drug therapy in clinical pharmacology.6. Indicate the principles underlying the concepts of “ Essential drugs”. <p>SKILLS:</p> <p>At the end of the course the student shall be able to:</p> <ol style="list-style-type: none">1. Prescribe drugs for common dental and medical ailments.2. To appreciate adverse reactions and drug interactions of commonly used drugs.3. Observe experiments designed for study of effects of



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	<p>drugs.</p> <p>4. Critically evaluate drug formulations and be able to interpret the clinical pharmacology of marketed preparations commonly used in dentistry.</p> <p>INTEGRATION: Practical knowledge of use of drugs in clinical practice will be acquired through integrated teaching with clinical departments.</p>
DENTAL MATERIALS	<p>a. KNOWLEDGE AND UNDERSTANDING</p> <p>The graduate should acquire the following during the period of training-</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 and should be able to methods evaluate and analyze scientifically various established facts and data.2) To understand the evolution and development of science of dental materials.3) To know about the manipulation technique of various restorative materials. <p>b. SKILLS</p> <p>A graduate should be able to demonstrate the following skills necessary for practice of dentistry.</p> <p>To develop skills in the management of various materials in dentistry.</p> <p>Students should know about the physical and chemical properties of the dental materials.</p> <p>c. ATTITUDE</p> <p>A graduate should develop during the training period the following attitudes.</p> <ol style="list-style-type: none">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



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	<p>time to time.</p> <p>5) To help and the participate in the implementation of National Health Programmes.</p>
<p>PRE CLINICAL CONSERVATIVE DENTISTRY</p>	<p>a. KNOWLEDGE AND UNDERSTANDING:</p> <p>1) Knowledge of the scientific foundation of conservative dentistry is based and good understanding of various relevant scientific methods, principles of biological functions, ability to evaluate and analyse scientifically various established facts and deals.</p> <p>2) Adequate knowledge of the developments, structure and function of the teeth, mouth and jaws and associated tissues both in health and disease and the relationship and effect on general state of health and also bearing on physical and social wellbeing of the patient.</p> <p>3) Adequate knowledge of clinical disciplines and methods which provide a coherent picture of anomalies, lesions and disease of the teeth, mouth and jaws and preventive diagnostic and therapeutic aspects of dentistry.</p> <p>4) Adequate clinical experience required for the general dental practice.</p> <p>5) Adequate knowledge of the constitution, biological functions 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 affects dentistry.</p> <p>b. ATTITUDE</p> <p>A graduate should develop during the training period the following attitudes.</p> <p>1) Willingness to apply the current knowledge of dentistry in the best interest of the patient and community.</p> <p>2) Maintain a high standard of professional ethics and conduct and apply these in all aspects of professional life.</p> <p>3) Seek to improve awareness and provide possible solutions for oral health problems and needs throughout the community.</p> <p>4) Willingness to participate in the CPED programmes to update</p>



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	<p>knowledge and professional skill time to time.</p> <p>5) Help and participate in the implementation of the national oral health policy.</p> <p>c. SKILLS</p> <p>A graduate should be able to demonstrate the following skills necessary from practice in dentistry.</p> <ol style="list-style-type: none">1) Diagnose and manage various common dental problem 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 disease where possible.5) Control pain and anxiety among the patients during dental treatments. <p>d. INTEGRATION</p> <p>Integrated knowledge about all the divisions in Prosthodontics (CD, RDP, FPD, IMPLANTS etc.</p>
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THIRD YEAR BDS	
ORAL PATHOLOGY & ORAL MICROBIOLOGY	<p>OBJECTIVES:</p> <p>At the end of Oral pathology & Oral Microbiology course, the students should be able to comprehend.</p> <ol style="list-style-type: none">1. The different types of pathological processes that involves the oral cavity.2. The manifestations of common disease, their diagnosis & correlation with clinical pathological processes.3. An understanding of the oral manifestation of systemic diseases should help in correlating with the systemic physical signs & laboratory findings.4. The student should understand the underlying biological principles governing treatment of oral disease.5. The principles of certain basic aspects of Forensic



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	<p>odontology.</p> <p>SKILLS:</p> <ol style="list-style-type: none"> 1. Microscopic study of common lesions affecting oral tissues through microscopic slides & projection slides. 2. Study of the disease process by surgical specimens. 3. Study of teeth anomalies/polymorphisms through tooth specimens & plaster casts. 4. Microscopic study of plaque pathogens. 5. Study of hematological preparations (blood films) of anaemias & leukemias. 6. Basic exercises in Forensic Odontology such as histological methods of age estimation and appearance of teeth in injuries.
<p>GENERAL MEDICINE</p>	<p>a. KNOWLEDGE AND UNDERSTANDING:</p> <p>At the end of the course the student shall be able to:</p> <ol style="list-style-type: none"> 1. Describe the etiology, pathogenesis, clinical signs and symptoms and complications of various disease processes. 2. Know of the various pre-requisite settings for the various diseases to occur including a knowledge of the various co-morbidities especially lifestyle disease such as Hypertension, Diabetes Mellitus. 3. Awareness of the oral manifestations of various systemic disorders. 4. Knowledge of the medical conditions requiring screening and evaluation prior to dental procedures. 5. To be aware of BLS steps in cases of medical emergencies while undergoing dental procedures. <p>b. SKILLS</p> <p>At the end of the course the student shall be able to:</p> <ol style="list-style-type: none"> 1. Take a proper history from the patients. 2. Do a complete general physical examination including build and nourishment. 3. Assess the vitals-recording the details of pulse, recording the BP, temperature, checking capillary blood glucose and oxygen saturation. 4. Look for cyanosis, clubbing, pallor, Icterus, pedal edema. 5. Able to examine the CVS, RS, abdomen and the facial



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	<p>nerve.</p> <ol style="list-style-type: none"> 6. Interpret the elicited signs and symptoms of various systemic disease processes. 7. Interpreting lab reports such as importance of CBC, RFT, ECG BT, CT, PT INRetc 8. To be trained in simple procedures such as giving intramuscular, intravenous injection as well as starting an IVline. 9. To be trained in basic life support 10. Writing prescriptions <p>c. ATTITUDE:</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. <p>d. INTEGRATION:</p> <p>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 in common with basic science departments, and vertical integration can be done with clinical departments. For example, horizontal integration can be the interpretation of lab results with Biochemistry and biopsy reports the Pathology and vertical integration can be the study of oropharyngeal pathology of along with ENT and oral surgical procedures with General Surgery.</p>
<p>GENERAL SURGERY</p>	<p>KNOWLEDGE AND UNDERSTANDING</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 the common surgical conditions of Head & Neck. 4. Know eliciting History and to do Clinical examination and to arrive at a provisional diagnosis.



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5. Know about Radiological and blood investigations to arrive at a diagnosis.

SKILLS

1. Know the interpretation of Radiological films of Head and Neck.
2. Know the Operative procedures, Post operative complications and Post operative management.
3. To Differentiate between Benign and Malignant diseases of Head & Neck.
4. Know to perform minor surgical procedures such as
5. Draining an Abscess and taking a Biopsy.

ATTITUDE

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.

INTEGRATION

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 analyse the history and be able to do a thorough clinical examination of the patient.

FOURTH YEAR BDS

ORAL MEDICINE AND RADIOLOGY

a. Knowledge and Understanding

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



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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. 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:

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 skills to prevent and manage complications if encountered while carrying out various dental surgical and other procedures.
3. Possess skills to carry out required investigative procedures including clinical and radiological investigations and ability to interpret laboratory findings.
4. Promote oral health and help to prevent oral diseases wherever possible.
5. Accurate planning of treatment
6. Competent in control of pain and anxiety during dental treatment.

c. Attitude:

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.



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	<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 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. <p>d. Integration :</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.
<p>PEDODONTICS AND PREVENTIVE DENTISTRY</p>	<p>a. Knowledge and understanding:</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.2. Ability to evaluate and analyze scientifically various established facts and data.3. Adequate knowledge of the development, structure and function of the teeth, mouth and jaws and associated tissues both in health and disease and then relationship and effect on general state of health and also 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 and preventive diagnostic and therapeutic aspects of dentistry.5. Adequate clinical experience required for general dental practice.6. 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.



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	<p>b. Skills:</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. <p>Control pain and anxiety among the patients during dental treatment.</p> <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 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 programmes to update knowledge and professional skills from time to time.5. Help and participate in the implementation of the national oral health policy. <p>d. Integration:</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 patients as a whole.
ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS	<p>a. KNOWLEDGE:</p> <ol style="list-style-type: none">1. Demonstrate understanding of basic sciences relevant to specialty.2. Describe aetiology, pathophysiology, principles of diagnosis



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and management of common problems within the specialty in adults and children.

3. Identify social, economic, environmental and emotional determinants in a given case and take the 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.

b. SKILLS:

1. Take a proper clinical history, examine the patient.
2. Perform essential diagnostic procedures and order relevant tests and interpret them to come to a reasonable diagnosis about the condition
3. Acquire adequate skills and competence in performing various procedures as required in the speciality.

c. ATTITUDE:

HUMAN VALUES, ETHICAL PRACTICE AND COMMUNICATION ABILITES.

1. Adopt ethical principles in all aspects of practice;
2. Foster professional honesty and integrity.
3. Deliver patient care irrespective of social status,
4. Case, creed, or religion of the patient
5. Develop communication skills, to explain various options
6. Available and obtain a true informed consent from the patient.
7. Provide leadership and get the best out of his team in congenial working atmosphere.
8. Apply high moral and ethical standards while carrying out human or animal research be humble and accept the limitations in his knowledge and skill to ask for help from colleagues when needed;
9. Respect patient's rights and privileges including patient's



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	<p>right to information and right to seek a second opinion.</p> <p>d. INTEGRATION</p> <p>Student 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 opinion/ further management.</p>
<p>PERIDONTOLOGY</p>	<p>a. Knowledge and Understanding</p> <p>To have adequate knowledge and understanding of the basic periodontal tissues, etiology, pathophysiology, diagnosis and treatment planning for various periodontal disease/ problem.</p> <p>b. Skill</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. Attitude:</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 an allied Medical Dental speciality and when required.</p> <p>d. Integration :</p> <p>From the integrated teaching of other clinical sciences, the students shall able to describe the various signs, and symptoms and interpret the clinical manifestations of disease processes.</p>
<p>PROSTHODONTICS AND CROWN AND BRIDGE</p>	<p>a. KNOWLEDGE</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 deals. 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 bearing on physical and social



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well being of the patient.

3. Adequate knowledge of clinical disciplines and methods which provide a coherent picture of anomalies, lesions and disease 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 natural and social environment on the state of health in so far as it affects dentistry.

b. ATTITUDE

During the training period, a graduate should develop the following attitudes.

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 programmes to update knowledge and professional skill time to time.
5. Help and participate in the implementation of the National Oral Health Policy.

c. SKILLS

A graduate should be able to demonstrate the following skills necessary for practice in dentistry.

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 disease where possible.



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	<p>5. Control pain and anxiety among the patients during dental treatment.</p> <p>d. INTEGRATION: Integrated knowledge about all the divisions in Prosthodontics (CD, RPD, FPD, IMPLANTS etc.)</p>
<p>CONSERVATIVE DENTISTRY AND ENDODONTICS</p>	<p>a. KNOWLEDGE AND UNDERSTANDING: 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 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. 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 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. A graduate should be able to demonstrate the following skills necessary for practice of dentistry. 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



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	<p>other procedures.</p> <ol style="list-style-type: none"> 3. Possess skill to carry out required investigative procedures and ability to interpret laboratory finding. Promote oral health and help to prevent oral diseases wherever possible. 4. Competent in control of pain and anxiety during dental treatment. <p>c. ATTITUDE:</p> <p>A graduate should develop during the training period the following attitudes.</p> <ol style="list-style-type: none"> 1. Have empathy for the patient and do the best possible as situation demands. 2. Willing to apply current knowledge of dentistry in the best interest of the patients and the 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 continuing education programmes to update knowledge and professional skills from time to time. 6. To help and to participate in the implementation of national health programmes. <p>d. INTEGRATION :</p> <ol style="list-style-type: none"> 1. At the conclusion of the course the student should be able to diagnose and treat the disease efficiently. 2. Should integrate interdisciplinary approach and management.
<p>ORAL AND MAXILLOFACIAL SURGERY</p>	<p>a. Knowledge and understanding</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



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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.

b. Skills:

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 both local and general anesthesia.
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.

c. Attitude:

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

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 CDE programmes to update knowledge and professional skill from time to time.
5. Help and participate in the implementation of the national oral health policy.



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	<p>d. Integration :</p> <p>Horizontal integration- Provision of learning within the structure where individual departments / subject areas contribute to the development and delivery of learning in a meaningful, holistic manner, Links are made between the different subject areas and that learning is enriched by the connections and interrelationships being made explicit by this process.</p> <p>Vertical integration- combination of basic and clinical sciences in such a way that the traditional divide between preclinical and clinical studies are broken down. Basic science is represented explicitly in the curriculum within the clinical environments during all the years of undergraduate education and beyond into postgraduate training and continuing professional development.</p>
<p>PUBLIC HEALTH DENTISTRY</p>	<p>a. KNOWLEDGE</p> <ol style="list-style-type: none">1. Apply basic science knowledge regarding etiology, diagnosis and management of all the oral conditions at the individual and community level identify social, economic, environmental and emotional determinants in a given individual patient or a community for the purpose of planning and execution of community oral health programme.2. Ability to conduct oral health surveys in order to identify all the oral health problems affecting the community and find solutions using multi disciplinary approach.3. Ability to act consultant in community oral Health and take part in research (both basic and clinical), present and publish the outcome at various scientific conferences and journals, both national and international. <p>b. SKILLS:</p> <ol style="list-style-type: none">1. Take history, conduct clinical examination including all diagnostic procedures to arrive at diagnosis at the individual level and conduct survey of the community at a state and national level of all conditions related to oral health to arrive at community diagnosis.2. Plan and perform all necessary treatment, prevention, and promotion of Oral Health at the individual and community



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level. Plan appropriate community Oral Health Programme, conduct the programme and evaluate, at the community level.

3. Ability to make use of knowledge of epidemiology to identify causes and plan appropriate preventive and control measures. Develop appropriate person power at various levels and their effective utilization.
4. Conduct survey and use appropriate methods to impart Oral Health Education Develop ways of helping the community towards easy payment plan, followed by evaluation of their oral health care needs.
5. Develop the planning, implementation, evaluation and administrative skills to carry out successful community oral health programmes.

c. ATTITUDE :

1. Adopt ethical principles in all aspects of Community Oral Health activities.
2. To apply ethical and moral standards while carrying out epidemiological research. Develop communication skills, in particular to explain the causes and prevention of oral health disease to the patient.
3. Be humble and accept the limitations in his knowledge and skill and to ask for help from colleagues when needed and promote teamwork approach.
4. Respect patient's rights and privileges including patient's right to information and right to seek a second opinion.

d. INTEGRATION :

At the conclusions of the course the student should be able to communicate the needs of the community efficiently, inform the society of all the recent methodologies in preventing oral disease.