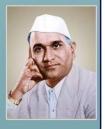


Mahatma Gandhi Vidyamandir's Karmaveer Bhausaheb Hiray Dental College & Hospital Panchavati Nashik, 422003





SELF STUDY REPORT CYCLE - 1





Criterion 2- Teaching- Learning and Evaluation

Key Indicator – 2.6 Student Performance and Learning Outcome

- 2.6.3 The teaching learning and assessment processes of the
- **QIM** Institution are aligned with the stated learning outcomes.



Karmaveer Bhausaheb Hiray Dental College &

Hospital, Panchavati, Nashik-422003

Index for Program Specific Learning Outcomes

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Karmaveer Bhausaheb Hiray Dental College & Hospital

Panchavati, Nashik-422003

PROGRAM OUTCOMES FOR BDS PROGRAM

The Program Outcomes given by the institution are formulated as per BDS Course regulations 2007 given by DCI and are based on 'Bloom's Taxonomy'. These learning outcomes are in accordance with 3 domains Knowledge, Skills and Attitude. At the end of the Program, a student should be able to

PO	PROGRAM OUTCOMES
PO1	Recognise, remember and possess adequate knowledge of the scientific foundations on which dentistry is based related to development, structure and function of the teeth, mouth and jaws and associated tissues both in health and disease and its effect on general state of health along with physical and social well being of the patient.
PO2	Understand 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.
PO3	Understand the constitution, biological function and behaviour 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.
PO4	Apply the knowledge acquired to diagnose and manage various common dental problems encountered in general dental practice .and to apply the current knowledge of dentistry in the best interest of the patients and the community.
PO5	Acquire the skill to prevent and manage complications if encountered while carrying out various surgical and other procedures as well as to possess skill to carry out certain investigative procedures, develop skill to control pain and anxiety among patients during detail treatment
PO6	Analyse and explain scientifically various established facts and data and should be able to
PO7	Evaluate effectiveness of patients treatment and gain adequate clinical experience required
PO8	Maintain a high standard of professional ethics and conduct and apply these in all aspects of professional life and to help and participate in the implementation of the national oral
PO9	Create awareness and provide possible solutions for oral health problems and needs throughout the community, willingness to participate in various programmes, research activities and studies to update the knowledge and professional skill from time to time

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COURSE OUTCOMES

CO-PO MAPPING		
NAME OF PROGRAM	BDS	
NAME OF COURSE	HUMAN ANATOMY, EMBRYOLOGY, HISTOLOGY AND MEDICAL GENETICS	

COURSE OUTCOME	TOPICS	PROGRAM OUTCOME
(CO)		(PO)
CO1	Knowledge and understanding of the general anatomy and general embryology, scalp,face, salivary glands, cervical region, triangles of neck in head and neck	PO1
CO2	Knowledge and understanding of the anterior midline structures of neck, thyroid and parathyroid gland, deep cervical fascia, supra hyoid and infra hyoid muscles, back of neck, cranio-vertebral joints, cranial nerves, blood vessels and lymphatic drainage of neck, pharynx and larynx in head and neck.	PO1
CO3	Knowledge and understanding of the temporal and infra temporal regions, teeth, oral cavity, palate, tongue, nose and paranasal air sinuses, orbital cavity and ear in head and neck region	PO1
CO4	Knowledge and understanding of the cranial cavity, neuroanatomy, thorax and abdomen, development of head & neck region of the human body	PO1
CO5	Competent in identifying the anatomical structures in osteology related to head & neckand its clinical applications	PO2
CO6	Competent in identifying the normal anatomical structures in cadaver specimens related to head & neck, thorax & abdomen and its clinical applications	PO2
CO7	Competent in identifying the developmental, structural and function correlation of the microscopic anatomy of cells and tissues forming organ systems.	PO1,PO2, PO6

CO8	Consolidate all above-mentioned major competencies acquired during the course and integrate newer evidence based knowledge to display expertise in the anatomy of head & neck.	PO5,PO6,PO7
CO9	Ability to critically appraise their own performance across multiple formative assessment completed during the course	PO9

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CO-PO MAPPING

NAME OF PROGRAM	BDS
NAME OF COURSE	HUMAN PHYSIOLOGY AND
	BIOCHEMISTRY, NUTRITION & DIETICS

COURSE	Topics	Program
OUTCOME (CO)		outcomes (PO)
CO1	Knowledge and understanding of basics of cell physiology, transport mechanisms, blood cells, their functions, and their applied aspects	PO1,PO2
CO2	Knowledge and understanding of neurons, degeneration and regeneration changes in neurons, neuromuscular transmission, molecular basis of muscle contraction, organization of central nervous system, functions of sensory and motor systems, physiology of special senses and applied aspects.	PO1,PO2
CO3	Knowledge and understanding about the physiology of heart and blood vessels, body fluids, formation of urine, countercurrent mechanism, physiology of respiratory system, exercise and high altitude physiology, applied aspects, integrated and clinical physiology	PO1,PO2, PO3,PO4
CO4	Knowledge and understanding about the secretion, functions and regulation of digestive juices, gastro-intestinal motility and applied aspects, general endocrinology, physiological actions, regulation and altered secretion of endocrine hormones, physiology of male and female reproductive system.	PO1
CO5	Should be competent in interpretation of test results of hematology and recording of blood pressure and pulse rate.	PO4,PO6
CO6	Should be competent in clinical examination and vital signs, basic life supporttechniques.	PO3,PO4 ,PO7,PO8
CO7	Consolidate all above-mentioned major competencies acquired during thecourse and integrate newer evidence- based knowledge to display expertise inphysiology.	PO7,PO8
CO8	Ability to critically appraise their own performance across multiple formative assessments completed during the course	PO9

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CO-PO MAPPING

NAME OF PROGRAM	BDS
NAME OF COURSE	BIOCHEMISTRY, NUTRITION AND
	DIETICS

COURSE OUTCOME (CO)	Topics	PROGRAM OUTCOME (PO)
CO1	Knowledge and understanding of basic structure of cell and Chemistry ofBiomolecules, Enzymes, Salivary biomarkers and biotransformation ofmetabolites . Biochemistry of Teeth and Dental Caries	PO1
CO2	Knowledge on Metabolism of Carbohydrates, Lipids, HemoglobinProteins, its energetics and associated disorders	PO1,PO2
CO3	Knowledge and understanding of Dietary requirement, Biochemicalfunctions, Deficiency manifestations of Vitamins and Minerals, Assimilation of Nutrients, Obesity and Malnutrition	PO1
CO4	Knowledge about Nucleic acid, Nucleotides, Central Dogma, Replication, Transcription, Translation and Genetic code. Disorders of nucleotidemetabolism.	PO1,PO2
CO5	Qualitative and Quantitative Analysis of Normal and Abnormal constituents in Blood and Urine	PO6
CO6	Diagnostic tests related to Liver ,Renal function and Analysis of Electrolytes	PO4,PO6
CO7	Consolidate all above-mentioned major competencies acquired during the course and integrate newer evidence based knowledge to display knowledge about the concepts in Biochemistry	PO7,PO9
CO8	Ability to critically appraise their own performance across multiple formative assessment completed during the course	PO9

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CO-PO MAPPING

NAME OF PROGRAM	BDS
NAME OF COURSE	DENTAL ANATOMY, ORAL PHYSIOLOGY,
	ORAL EMBRYOLOGY, DENTAL HISTOLOGY

COURSE	Topics	PROGRAM
OUTCOME	Topies	OUTCOME
(CO)		(PO)
CO1	A sound understanding of nomenclature, development and eruption	PO1
	ofteeth, topographic anatomy of primary and secondary dentition,	
	anatomy of pulp chambers & canals and comparative anatomy	
	including form & function.	
CO2	An in-depth knowledge of concepts of occlusion, mineral	
	metabolism, theories of mineralization, oral sensation, mastication,	PO1
	deglutition and speech.	
CO3	A thorough understanding of general embryology, embryology of	PO1,PO2
	head, face and oral cavity in particular with applied aspects	
CO4	Understanding of histological features of hard tissues of the oral	
	andmaxillofacial region with emphasis on histochemical	PO1,PO2,
	techniques, agechanges, eruption and shedding	PO6
CO5	Knowledgeably awareness and understanding of the anatomy,	
	functions and histological features and applied aspects of soft	PO1,PO2
	tissues of oral andmaxillofacial region	
CO6	Capability to observe and identify the provided cast (type of arch,	PO1,PO2
	dentition, number and age) and tooth specimen	
CO7	Display adequate dexterity in carving various types of teeth.	PO5
CO8	Skills in identification of microscopic features of dental laming	
0.08	Skills in identification of microscopic features of dental lamina, stagesof tooth development, hard and soft tissues of oral and	
	maxillofacialregion; in particular the named cells and different	PO6
	types of tissues	100
CO9	Skills to conduct basic Oral Physiology experiments - Salivary	
	pH,Taste Mapping, Saliva Flow Rate	PO4,PO6
		107,100

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PO4,PO7, CO10 Consolidate all above mentioned major competencies acquired during the course and integrate newer evidence based knowledge in PO9 displaying expertise in the science of dental anatomy Ability to critically appraise their own performance across multiple CO11 formative assessments completed during the course PO9 1 Gul Dr. Meenal Gulve PRINCIPAL MGV's KBH Dental College & Hospital Panchavati, Nashik-422 003

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CO-PO MAPPING

NAME OF PROGRAM	BDS	
NAME OF COURSE	GENERAL PATHOLOGY	

COURSE	Topics	PROGRAM
OUTCOME		OUTCOME
(CO)		(PO)
CO1	Knowledge and Understanding of Basic cell injury,	PO1,PO2
	itsmorphological changes and functional	
	abnormalities, Inflammation, healing and hemodynamic disorders	
CO2	Knowledge and understanding of classification and pathogenesis to	PO1,PO2
	analyze the Congenital, Environmental, Nutritional and	
	Autoimmune diseases and Neoplasia	
CO3	Knowledge and understanding of pathogenesis of Hematological	PO1
	diseases and systemic pathology.	
CO4	Should be capable of reading and understanding pathologicalslides	PO2,PO4,
	as well as be proficient in disease grading, staging, anddiagnosis.	PO6
CO5	Should be capable of understanding and executing fundamental	PO6
	Laboratory techniques such as tissue processing, staining, blood	
	sample handling and reporting.	
CO6	Should be capable of communicating with other health	PO4,PO7,
	professionals, laboratories, and technical experts in order	PO8
	tocomprehend and interpret the subsequent treatment	
CO7	Consolidating and applying newly acquired knowledge inevidence-	PO3,PO5,
	based practices for pathological conditions and diseaseprocesses.	PO8,
		PO9
CO8	Ability to critically appraise their own performance across multiple	PO9
in a second state of the	formative assessment completed during the course	
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CO-PO MAPPING

Name of Program	BDS	
Name of Course	GENERAL MICROBIOLOGY	

COURSE	Topics	PROGRAM
OUTCOME		OUTCOME
(CO)		(PO)
CO1	Knowledge and understanding of the general aspects of microbiology, infection and immunity with the ability to apply the knowledge relevantly and practically in dental practice.	PO1,PO2
CO2	Should be able to understand the virulence, pathogenesis and laboratory diagnosis of gram positive bacteria, gram negative bacteria anaerobic bacteria, spirochetes and acid-fast bacilli	PO1,PO2,PO6
CO3	Should imbibe the knowledge on the mechanistic pathways behind the pathogenesis and virulence pertained to viral, mycotic and parasitic infections	PO6,PO7
CO4	Should be able to follow the aseptic procedures, should be able to demonstrate the proper infection control measures/PPE, hand hygiene measures and bio-medical waste management.	PO4,PO7,PO8
CO5	Should be able to perform staining methods, proper collection of specimens, selection of appropriate culture medium and specific identification of the pathogens.	PO6
CO6	Competent in acquiring patient consent and to interpret the microbiological case reports, serological tests and antimicrobial susceptibility tests	PO6,PO7, PO8
CO7	Consolidate all above-mentioned major competencies acquired during the course and integrate newer evidence based knowledge to display expertise in the science of Microbiology	PO9
CO8	Ability to critically appraise their own performance across multipleformative assessments completed during the course	PO9

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CO-PO MAPPING

Name of Program Name of Course

BDS GENERAL AND DENTAL PHARMACOLOGY AND THERAPEUTICS

	TOPICS	PROGRAM
COURSE OUTCOME (CO)		OUTCOME (PO)
CO1	Knowledge and understanding on General Principles of Pharmacology – Different dosage forms, various routes of administration, pharmacokinetics, pharmacodynamics and adverse effects of drugs in general and dental practice	PO1,PO2
CO2	Knowledge and understanding Systemic Pharmacology (Drugs acting on CNS,PNS, ANS, and CVS	PO1
CO3	Knowledge and understanding Systemic Pharmacology (Drugs acting on renal, respiratory, GIT, endocrine system and blood	PO1
CO4	Knowledge on drugs used for Chemotherapy of Infections (bacterial, fungal, viral),immunomodulators, cancer therapy and chelating agents and Dental Pharmacology	PO1
CO5	Process of making solutions for sterilizing root canals, plaque disclosing solutions, paste for pulp mummification, styptic dusting powder.	PO4,PO6
CO6	Preparations of saline and potassium permanganate mouthwashes, gum paint. Demonstrating the process of making paste for pulp capping, pulp mummification, and dental caries. Demonstrating the process of making powders to reduce hypersalivation, denture cleaning powder, analgesic powder to have a strong foundation on dental pharmacology	PO1,PO2, PO6
CO7	Pharmacology to Practice in Dental Clinic - To inculcate the knowledge of prescription writing for oral candidiasis, pericoronitis, apical periodontitis, post-extraction medication, xerostomia, and oral ulcers	PO2,PO3, PO4,PO5,PO 7
CO8	Consolidate all above-mentioned major competencies acquired during the course and integrate newer evidence-based knowledge to treat patients with appropriate drugs without any side effects for various dental diseases.	PO7,PO9

CO9 Ability to critically appraise their own performance across multiple formative PO9 assessments completed during the course Dr. Meenal Geive PRINCIPAL MGV's KBH Dental College & Hospital Panchavati, Nashik-42: 3

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CO-PO MAPPING

NAME OF PROGRAM	BDS
NAME OF COURSE	DENTAL MATERIALS

COURSE	Topics	PROGRAM
OUTCOME		OUTCOME
(CO)		(PO)
CO1	Should have knowledge and understanding about basic	PO1
	properties of dental materials and Indications, Composition,	
	Chemistry, Properties and use of auxiliary dental materials	and the second second second
	(Impression materials, Gypsum products, Waxes, Casting	
	investment and casting procedures, materials for finishing	
	and polishing	
CO2	Should have knowledge on the Indications, Composition,	PO1
	Chemistry, Properties and use of direct restorative materials	
	(Bonding, Composites, Cements Direct filling gold and	
	amalgam	
CO3	Should have knowledge on the Indications, Composition,	PO1
	Chemistry, Properties and use of indirect restorative materials	
	(Ceramics, Casting alloys, Wrought alloys), denture base	
	resins and oral and maxillofacial prosthetic materials	
CO4	Knowledge of scope and use of preventive materials-	PO1,PO2
	fluorides, pit and fissure. Sealants, dentifrices, mouthwashes,	
	obtundants and desensitizing agents	
CO5	Ability to manipulate and utilize restorative dental materials	
	for clinical procedures	PO5
CO6	Ability to manipulate impression materials and gypsum	PO5
	products for diagnostic and laboratory purposes in dentistry	
CO7	Consolidate all above-mentioned major competencies	PO6,PO7
	acquired during the course and integrate newer evidence	
	based knowledge to display expertise in the application of	
	various dental materials into clinical practice	
CO8	Consolidate all above-mentioned major competencies	PO9
	acquired during the course and integrate newer evidence	
	based knowledge to display expertise in the application of	•
	various dental materials into clinical practice	L

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CO-PO MAPPING

NAME OF PROGRAM	BDS
NAME OF COURSE	PRE CLINICAL CONSERVATIVE DENTISTRY

COURSE	Topics	PROGRAM
OUTCOME		OUTCOME
(CO)		(PO)
CO1	Demonstrate knowledge and understanding of operative	PO1,PO5
	dentistry, dental anatomy, histology and occlusion.	
CO2	Demonstrate knowledge and understanding of various concepts in cariology and explain the etiology and formulate of treatment plan	PO2
CO3	Demonstrate knowledge and understanding of restorative materials, hand and rotary cutting instruments and principles	PO1,PO2,PO5
CO4	Understanding the fundamentals of tooth preparation, isolation techniques andidentification of basic endodontic instruments	PO1
CO5	Demonstrate class I, class I extended, class II,III, V cavity preparations including various methods of tooth separation, pulpal protection and restoration (amalgam, composite, glass ionomer) on plaster models, natural teeth, typodont on phantom heads, including selection of armamentarium for conservative treatment	PO1,PO5
CO6	Ability to identify various restorative and endodontic instruments anddemonstrate their use. Demonstrate rubber dam isolation	PO1,PO2
CO7		
CO8	Consolidate all above-mentioned major competencies acquired during thecourse and integrate newer evidence based knowledge in displaying expertise in the science of preclinical conservative dentistry	PO5,PO7
CO9	Ability to critically appraise their own performance across multiple formative assessments completed during the course	PO9



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CO-PO MAPPING

NAME OF PROGRAM	BDS
NAME OF COURSE	PRE CLINICAL PROSTHODONTICS

COURSE	Topics	PROGRAM OUTCOME
OUTCOME (CO)		(PO)
CO1	knowledge and understanding of the anatomy of denture bearing areas, materials used, armamentarium and the process of complete denture fabrication	PO1
CO2	Demonstrate knowledge and understanding of various classifications of partialedentulism, surveying, components and the process of removable partial denturefabrication.	PO1,PO2
CO3	Demonstrate knowledge and understanding of parts of fixed partials dentures, implants and various types of maxillofacial prosthesis including materials used.	PO1,PO2
CO4	Demonstrate instrument handling and laboratory skills of complete denturefabrication.	PO1,PO2,PO6
CO5	Demonstrate surveying and laboratory skills of removable	PO2, PO6
CO6	Demonstrate skills in identification of various parts of fixed partial denture, Principles of tooth preparation, implants and various maxillofacial prosthesis including the materials used. Demonstrate skill in performing tooth preparation on typhodont model	PO5
C07	Consolidate all above-mentioned major competencies acquired during thecourse and integrate newer evidence based knowledge in displaying expertisein the science of preclinical prosthodontics	PO5,PO7,PO9
CO8	Ability to critically appraise their own performance across multiple formative assessments completed during the course	PO9

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CO-PO MAPPING

NAME OF PROGRAM	BDS
NAME OF COURSE	GENERAL MEDICINE

COURSE	Topics	PROGRAM
OUTCOME		OUTCOME
(CO)		(PO)
CO1 A sound understanding ofpathophysiology, clinical features, radiographic characteristics(wherever applicable) andTreatment of the viral infections, parasitic infections, bacterial infections with special emphasis on oral manifestations, including dental infections, gingival hyperplasia and stomatitis.		PO1,PO2,
CO2	In-depth knowledge of pathophysiology, clinical features, radiographic characteristics(wherever applicable) and treatment of dysphagia, peptic ulcer, jaundice, cirrhosis, GERD, malabsorption and inflammatory bowel disease, nephrotic syndrome and renal failure	PO1,PO2
CO3	Proficiency in understanding and identification of the clinical features, radiographic characteristics (whereverapplicable) and treatment of facial palsy, facial pains, headaches, cerebrovascular accidents, movement and mood disorders, syncope, short trauma, pneumonia, COPD, asthma, sleep disorders, pulmonary diseases and cardiovascular disorders	PO1,PO2
CO4	Sensitisation to the basics of blood disorders, nutrition, endocrine disorders with special emphasis on oral manifestations and treatment aspects.	PO2,PO4,PO5
CO5	Ability to perform history taking and general examination of all systems and reach a diagnosis with special emphasis on oral manifestations of systemic disorders	PO3,PO4,PO5
CO6	Ability to identify various emergencies during dental procedures and perform basic life support procedures and referral.	PO3,PO4,PO5, PO7
CO7 Consolidate all above mentioned major competencies acquired during the course and integrate newer evidence based knowledge in displaying expertise in the science of general medicine.		PO9
CO8	Ability to critically appraise their own performance across multiple formative assessments completed during the course	PO9

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CO-PO MAPPING

NAME OF PROGRAMBDSNAME OF COURSEGENERAL SURGERY

COURSE	Topics	PROGRAM
OUTCOME	Topics	OUTCOME
(CO)		(PO)
CO1	A sound understanding of basic human anatomy,	PO1,PO2
001	principles of general surgery and various types of	101,102
	orodental diseases and knowledge about the normal	
	woundhealing, various types of wounds and its	
	management, complications of woundhealing, infectious	
	diseases and its management.	
CO2	Understanding the pathophysiology of various types of	PO1,PO2,
	shock, hemorrhage and their management	
CO3	Proficiency in understanding the clinical features,	PO1,PO2,PO4,PO5,
	investigations and management of various types of ulcers,	PO7
	tumors, cyst, diseases of the lymphatic and nervous system	
	and salivary gland disorders	
CO4	Knowledge about clinical features, investigations and	PO1,PO2,PO4,PO5,
	treatment of various fractures affecting the head and neck,	PO7
	diseases of oral cavity, larynx, nasopharynx, thyroid	
	disorders	
CO5	Ability to elicit history, perform clinical examination and	PO2,PO4,PO5,
	diagnose the variouspathologies.	PO7
CO6	Skills in interpreting the radiographic and histologic	PO6,PO7
	findings and correlating with clinical findings.	
CO7	Identify various instruments used in general surgical	
	procedures, and demonstrate first aid steps and correct	PO1,PO6,PO4
	infection control practices	
		<u> </u>

CO9 Ability to critically appraise their own performance across multiple formative PO9 assessments completed during the course Dr. Meenal Geive PRINCIPAL MGV's KBH Dental College & Hospital Panchavati, Nashik-421 3



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CO-PO MAPPING

NAME OF PROGRAMBDSNAME OF COURSEORAL & MAXILLOFACIAL PATHOLOGYAND ORAL MICROBIOLOGY

COURSE OUTCOME	Topics	PROGRAM OUTCOME
(CO)		(PO)
CO1	A sound understanding of pathophysiology, clinical features,	PO1,PO2
	radiographic characteristics (wherever applicable), histological features	
	and treatment of the preneoplastic and neoplastic lesions affecting the	
	oral and maxillofacial regions with special emphasis on the recent	
	concepts in the pathogenesis of neoplasia	
CO2	In-depth knowledge of pathophysiology, clinical features, radiographic	PO,PO2
	characteristics(wherever applicable), histologicalfeatures and treatment	
	ofdevelopmental disorders and andnon neoplastic conditions	
	includinginfectious diseases, injuries and cysts affecting the head and	
	neckregion.	
CO3	Proficiency in understanding and identification of the clinical features,	PO1,PO2
	radiographiccharacteristics (whereverapplicable), histological	
	featuresand treatment of oralmanifestations of systemic diseases.	
CO4	Ability to identify and interpret theanomalies in the provided	PO1,PO6
	toothspecimen and casts	
CO5	Skills in identification of microscopic features of all the diseases and	PO1,PO6
	cytological smearspertaining to the craniofacial regionalong with	
	drawinghistopathological features withlegible labeled diagrams.	DOZDOO
CO6	Consolidate all above mentionedmajor competencies acquiredduring	PO7,PO9
	the course and integratenewer evidence based knowledgein displaying	
	expertise in thescience of oral pathology and microbiology.	
CO7	Ability to critically appraise theirown performance across multiple	PO9
	formative assessments completedduring the course.	

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CO-PO MAPPING

NAME OF PROGRAM	BDS	
NAME OF COURSE	FORENSIC ODONTOLOGY	

COURSE OUTCOME	Topics	PROGRAM OUTCOME
(CO)		
CO1	Obtain comprehensive knowledge aboutForensic Odontology and its implementation inpractice of dentistry.	PO1,PO2
CO2	Ability to apply knowledge of facial reconstruction techniques using manual methods and recent softwares.	PO1,PO6
CO3	Thorough knowledge on identifying the age and gender of an individual using recent forensicidentification methods.	PO3,PO4, PO6
CO4	Knowledge about the molecular analyses of blood, saliva and pulpal tissue for post mortemidentification	PO6
CO5	Ability to assist and solve cases of forensic sciences with specific requirements of dentalaids	PO3,PO4, PO6
CO6	Ability to identify cases of domestic violence including child abuse, elderly abuse and spousal abuse using the knowledge of oral clinical signsincluding bite marks and behavioural changes.	PO3,PO4, PO6 PO8
CO7	Consolidating and applying newly acquired knowledge in evidence- based practices inForensic Dental Investigation and Medico LegalCases.	PO8,PO9
C08	Ability to critically appraise their own performance across multiple formative assessments completed during the course.	PO9

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CO-PO MAPPING

NAME OF PROGRAM	BDS
NAME OF COURSE	PUBLIC HEALTH DENTISTRY

COURSE	Topics	PROGR
OUTCOME		AM
(CO)		OUTCO
		ME
		(PO)
CO1	Demonstrate knowledge on Health, disease and its psychosocial and ecological dimensions, epidemiology, Health care delivery system andadministration	PO1,PO2
CO2	Demonstrate knowledge on Epidemiology of oral diseases, dental health care delivery, Finance and practice management, biostatistics	PO2,PO3, PO4
CO3	and research methodology pertainingto dental public health. Demonstrate knowledge on prevention of oral diseases and also to be competent enough to interpret signs and symptoms and also to investigate and diagnose common oral diseases	PO1,PO2, PO4,PO6
CO4	Demonstrate segregation of Biomedical waste and its management and related regulations, Preparedness to be part of disaster relief team	PO3,PO8, PO9
CO5	Demonstrate skills for recording indices for oral diseases formulating surveys, analyzing and publishing research, recording a comprehensive case history and formulate treatment plan at individual level and community.	PO3,PO4,P 06,PO8
CO6	Demonstrate skills for performing preventive dentistry procedures like pit and fissure sealant, PRR, Topical Fluoride and also to carry out counseling sessions	PO5,PO7, PO9
CO7	Integrate the knowledge acquired in the entire program and apply it towards newer modifications as evidence based concepts in practicing principles of public health dentistry and preventive care.	РО9,
C08	Ability to critically appraise their own performance across multiple formative assessments completed during the course.	PO9
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CO-PO MAPPING

NAME OF PROGRAM	BDS	
NAME OF COURSE	PERIODONTOLOGY	

COURSE	Topics	PROGRAM
OUTCOME	•	OUTCOME
(CO)		(PO)
CO1	Knowledge and understanding of basic tissues of periodontium, age changes and defense mechanisms.	PO1
CO2	Knowledge and understanding of diseases of periodontium, etiopathogenesis, risk factors associated with periodontal disease and various diagnostic aids for diagnosis of periodontal disease.	PO1,PO2
CO3	Knowledge about the treatment plan, various modes of periodontal therapy(including laser therapy) and implant therapy.	PO1
CO4	Should be competent in periodontal charting, interpretation of radiographs and other investigations	PO6
CO5	Should be competent in correct diagnosis, prognosis and framing a comprehensive treatment plan for various periodontal and peri- implant diseases. Also should be able toconvince patients of the need fortherapy and obtain consent.	PO2,PO3,PO5
CO6	Competent in acquiring patient consent and executing nonsurgical periodontal therapy and minor surgical procedures (including laser assisted procedures)	PO3,PO4,PO5
CO7	Able to educate patients regarding oral hygiene maintenance and successful followup to maintain and improve periodontal health.	PO3,PO4
C08	Consolidate all above-mentioned major competencies acquired during the course and integrate newer evidence based knowledge to display expertise in the science of Periodontology.	PO7,PO8,PO9
CO9	Ability to critically appraise their own performance across multiple formative assessments completed during the course.	PO9



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CO-PO MAPPING

NAME OF PROGRAMBDSNAME OF COURSEORTHODONTICS AND DENTOFACIAL
ORTHOPAEDICS

COURSE OUTCOME	Topics	PROGRAM OUTCOME
(CO)		(PO)
CO1	Knowledge and understanding of Instruments & Materials used in Orthodontics.	PO1
CO2	Understand the impact of Growth &development of cranio facial structures, dental arches / occlusion and predict their impact on malocclusion.	PO1
CO3	Etiology of various malocclusions, diagnostic aids used and the principles used in the treatment planning of the malocclusions.	PO1
CO4	Knowledge about the biology and biomechanics behind the orthodontic tooth movement.	PO1
CO5	Able to communicate with patients, in diagnosing various skeletal and dental malocclusions, self correcting anomalies, TMJ conditions, deforming Habits and other craniofacial deformities.	PO3,PO4
CO6	Should be competent in interpreting an OPG, cephalograms for diagnosis of malocclusions, assess the growth status and dental eruptive status,	PO6
CO7	Should be competent in different procedures performed in preventive, interceptive and corrective orthodontics and be able to create awareness and convince patient for treatment with their consent.	PO4,PO6,PO7
CO8	Should demonstrate skills for wire bending and fabrication of removable appliances. Independently perform procedures like impression making, fabrication and clinical management of removable appliances, bonded and removable retainers and orthodontic emergencies	PO5,PO6
CO9	Consolidate all above-mentioned majorcompetencies acquired during thecourse and integrate newer evidence based knowledge to display expertise in the science of Orthodontics	PO7,PO8, PO9
CO10	Ability to critically appraise their own performance across multiple informative assessments completed during the course.	PO9
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CO-PO MAPPING

NAME OF PROGRAM	BDS
NAME OF COURSE	ORAL AND MAXILLOFACIAL SURGERY

COURSE	Topics	PROGRAM
OUTCOME		OUTCOME
(CO)		(PO)
CO1	Knowledge and understanding basic concepts of sterilization and asepsis and its clinical implications; pathophysiology, management and prevention of medical emergencies; neurophysiology, pharmacology, applied anatomy, armamentarium, techniques and complications of local anesthesia, conscious sedation and general anesthesia, Emergency management.	PO1,PO2
CO2	Knowledge and understanding of principles and techniques of extractions and transalveolar extractions, pathophysiology and management of odontogenic infections, maxillofacial space infections, pathophysiology of maxillary sinus diseases and management, basics of dental implantology, basics of preprosthetic surgery, biopsy techniques.	PO1,PO2
CO3	Understanding clinical features, radiological diagnosis and management of maxillofacial trauma; Understanding treatment planning and procedures performed in orthognathic surgery; diagnosis and management of Temporomandibular Disorders	PO1,PO2
CO4	Understanding and describing the theories, classification and management of cleft lip, alveolus and palate, clinical features and management of cysts of jaws, benign tumors, salivary gland pathologies, precancerous conditions and lesions, Oral cancer, neurological disorders and head and neck pain	PO1
CO5	Should be competent in oral and maxillofacial surgery case history taking, interpretation of radiographs and other investigations, diagnosing and formulating appropriate treatment plan.	PO2,PO4,PO5, PO6
CO6	Should be competent in identification of basic	PO2,PO7

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	surgicalarmamentarium, perform suturing, incision, flap elevation, local anesthesia, basic dental wiring techniques.	
CO7	Competent in executing minor oral surgical procedures - atraumatic dental extraction	PO5,PO7
C08	Consolidate all above-mentioned major competencies acquired during the course and integrate newer evidence based knowledge in displaying expertise in the science of Oral and Maxillofacial Surgery.	PO7,PO8,PO9
CO9	Ability to critically appraise their own performance across multiple formative assessments completed during the course.	PO9

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CO-PO MAPPING					
NAME OF PROGRAM	NAME OF PROGRAM BDS				
NAME OF COURSE	NAME OF COURSE CONSERVATIVE DENTISTRY AND				
	ENDODONTICS				

COURSE OUTCOME (CO)	Topics	PROGRAM OUTCOME (PO)
CO1	Knowledge and understanding of aetiopathogenesis, risk assessment, minimally invasive management and prevention of dental caries. Deep caries management. Understanding the importance of infection control in the operating area and the instruments used. Knowledge about the isolation protocols and gingival tissue management during restorative procedures.	PO1
CO2	Knowledge and understanding of the use of tooth colored restorative materials for anterior teeth (glass ionomer restoration or composite restoration). Knowledge and understanding of the use of restorative materials for posterior teeth (amalgam, pin-retained amalgam, composite, direct filling gold and indirect restoration). Non carious disfigurement of teeth and dentin hypersensitivity.	PO1,PO2
CO3	Knowledge and understanding about pulpal and periapical diseases, diagnosis, patient management for root canal procedure. Materials, instruments and equipment used for endodontic procedures. Knowledge and understanding about the mishaps, re-treatment procedures and the surgical endodontic management of teeth.	PO1,PO2
CO4	Knowledge and understanding about the diagnosis and the treatment planning for post endodontic restoration. Management of teeth with open apex, root resorption, endodontic emergencies, traumatic injuries and management of discolored teeth. Knowledge about management of medically compromised patients, pediatric, geriatric endodontics, use of lasers, financial management and ethics in endodontics	PO1,PO2
CO5	Skill development on the risk assessment and diagnosis of dental caries. Performdirect/indirect pulp capping for deep caries management	PO5,PO7
CO6	Demonstrate the skill in the restoration of anterior teeth with tooth coloredrestorative materials like glass ionomer or composite	PO5,PO7

CO7	Demonstrate the skill in the restoration of posterior teeth with amalgam or composite or indirect restoration including hypersensitivity.	PO5,PO7
CO8	Skill development in diagnosis, access cavity preparation, working length determination, biomechanical preparation and obturation of root canal system.	PO5,PO6,PO7
CO9	Skill development in the restoration of endodontically treated teeth.	PO5,PO7
CO10	Consolidate all above-mentioned major competencies acquired during the course and integrate newer evidence based knowledge to display expertise in the science of Conservative Dentistry &Endodontics.	PO7,PO8,PO9
CO11	Ability to critically appraise their own performance across multiple formative assessments completed during the course.	PO9

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CO-PO MAPPING				
NAME OF PROGRAM	BDS			
NAME OF COURSE	NAME OF COURSE ORAL AND MAXILLOFACIAL			
	PROSTHODONTICS			

COURSE	Topics	PROGRAM
OUTCOME		OUTCOME
(CO)		(PO)
CO1	Knowledge and understanding of orofacial applied anatomy, pathophysiology &biomechanics of stomatognathic system, patient's mental attitude, diagnosis, treatmentplanning and rehabilitation of various completely edentulous clinical scenarios including the materials and armamentarium prescribed.	PO1,PO2
CO2	Knowledge and understanding of various classifications of partial edentulism, surveying, types of removable partial dentures, components of cast partial dentures, diagnosis, treatment planning and rehabilitation of partial edentulous state including the laboratory procedures. Demonstrate knowledge of various maxillary and mandibular defects and its rehabilitation.	PO1,PO2
CO3	Knowledge and understanding of various terminologies, components of fixed partialdentures, principles of tooth preparation of various clinical scenarios including thematerials and armamentarium used. Demonstrate knowledge on implant biomaterials, implant designs and treatment options of various clinical scenarios. Knowledge and understanding of principles of digital dentistry and its uses in prosthodontics.	PO1,PO2
CO4	Able to communicate with patients and acquire informed consent, record case history,treatment plan, perform clinical skills like Impression making, Jaw relation, Trial or Insertion skills in the rehabilitation of completely edentulous state including the troubleshoot management.	PO3,PO4,PO5
CO5	Patient evaluation, clinical diagnosis, treatment planning and perform clinical and laboratory procedures for the fabrication of removable partial dentures including surveying and designing of the prosthesis.	PO2,PO5, PO7
CO6	Able to perform clinical examination, diagnosis, treatment planning,	PO5,P07

	clinical and laboratory procedures for the fabrication of fixed partial denture including shade selection and luting agents. Demonstrate skill on identification of various implant superstructure components and able to assist in implant prosthetic restoration.	
CO7	Consolidate all above-mentioned major competencies acquired during the course and integrate newer evidence based knowledge in displaying expertise in the science of prosthodontics.	PO7,PO8, PO9
CO8	Ability to critically appraise their own performance across multiple formative assessments completed during the course.	PO9

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	CO-PO MAPPING		
NAME OF PROGRAM BDS			
NAME OF COURSE	PAEDIATRIC AND PREVENTIVE DENTISTRY		

COURSE OUTCOME (CO)	Topics	PROGRAM OUTCOME (PO)
CO1	Demonstrate knowledge on essentials of Pediatric Dentistry, theoretical basis of Child Psychology and Behaviour management	PO1,PO3
CO2	Demonstrate knowledge on growth and development, preventive and interceptive orthodontics, trauma management and surgical pediatric dentistry	PO1,PO2
CO3	Demonstrate knowledge on diagnosis, management and prevention of dental caries	PO2
CO4	Demonstrate skills on diagnosing dental problems in children, fabricating comprehensive treatment plan, assessing the attitude of child's behaviour towards dental practice, judge the required behaviour management protocol and obtain consent.	PO4,PO5
C.O5	Demonstrate skills on assessinggrowth & development and providepreventive & interceptiveorthodontics, management of dentaltrauma & surgical pedodontics.	PO5
CO6	Demonstrate skills on diagnosis, management and prevention of dental caries.	PO5
CO7	Consolidate all above-mentionedmajor competencies acquired duringthe course and integrate newerevidence based knowledge indisplaying expertise in the science of Pedodontics.	PO7,PO8, PO9
CO8	Ability to critically appraise their ownperformance across multiple formative assessments completedduring the course.	PO9

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PROGRAM OUTCOMES FOR M.D.S.

The Program Outcomes for M.D.S given by the institution are formulated as per MDS Course regulations 2017 given by D.C.I and are based on" Bloom's Taxonomy". These outcomes are in accordance with 3 domains Knowledge, Skills and Human values, ethical practice and communication skills. At the end of the Program, a Post-graduate student should be able to

PO	PROGRAM OUTCOMES
PO1	Remember and describe etiology, pathophysiology, principles of diagnosis and management of common problems within the speciality in adults and children; as well as identify social, economic, environmental and emotional determinants in a given case and take them into account for planned treatment
PO2	Recognise conditions that may be outside the area of speciality or competence and to refer them to the concerned specialist and update knowledge by self study and by attending courses, conferences and seminars pertaining to speciality.
PO3	Demonstrate understanding of basic sciences relevant to speciality.
PO4	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 and acquire adequate skills and competence in performing various procedures as required in the speciality.
PO5	Adopt ethical principles in all aspects of practice; foster professional honesty and integrity; deliver patient care irrespective of social status, caste, creed, or religion of the patient; develop communication skills, to explain various options available and obtain a true informed consent from the patient
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	Provide leadership and get the best out of his team in a congenial working atmosphere; apply high moral and ethical standards while carrying out human or animal research; be humble and accept the limitations in his knowledge and skill and to ask for help from colleagues when needed; respect patient's rights and privileges including patient's right to information and right to seek a second opinion.

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PROGRAM OUTCOME FOR M.D.S CONSERVATIVE DENTISTRY AND ENDODONTICS

The following outcomes are laid out to achieve the goals of the course. These are to be achieved by the time the candidate completes the course.

These outcomes may be considered under the following subtitles.

PO1- Knowledge:

At the end of the program, a postgraduate should be able to:

- 1.Describe etiology, pathophysiology, periapical diagnosis and management of common restorative situations, endodontic situations that will include contemporary management of dental caries, management of trauma and pulpal pathosis including periodontal situations.
- 2.Demonstrate understanding of basic sciences as relevant to conservative / restorative dentistry and Endodontics.
- 3. Identify social, economic, environmental and emotional determinants in a given case or community and take them into account for planning and execution at individual and community level.
- 4. Ability to master differential diagnosis and recognize conditions that may require multi disciplinary approach or a clinical situation outside the realm of the specialty, which he or she should be able to recognize and refer to appropriate specialist.
- 5.Update himself by self-study and by attending basic and advanced courses, conferences, seminars, and workshops in the specialty of Conservative Dentistry-Endodontics-Dental Materials and Restorative Dentistry.
- 6. Ability to teach/guide, colleagues and other students.
- 7.Use information technology tools and carry out research both basic and clinical with the aim of his publishing his work and presenting the same at scientific platform.

PO2- Skills:

- Take proper chair side history, examine the patient and perform medical and dental diagnostic procedures as well as perform relevant tests and interpret to them to come to a reasonable diagnosis about the dental condition in general and Conservative Dentistry – Endodontics in particular. And undertake complete patient monitoring including preoperative as well as post operative care of the patient.
- 2. Perform all levels of restorative work, surgical and non-surgical Endodontics as well as endodontic-periodontal surgical procedures as part of multidisciplinary approach to clinical condition.
- 3. Provide basic life saving support in emergency situations.
- 4. Manage acute pulpal and pulpo periodontal situations.
- 5. Have a thorough knowledge of infection control measures in the dental clinical environment and laboratories.
- 6. Should have proper knowledge of sterilization procedures

PO3- Human Values, Ethical Practice and Communication Abilities –

- 1. Adopt ethical principles in all aspects of restorative and contemporary Endodontics including non-surgical and surgical Endodontics.
- 2. Professional honesty and integrity should be the top priority.
- 3.Dental care has to be provided regardless of social status, caste, creed or religion of the patient.
- 4.Develop communication skills in particular to explain various options available for management and to obtain a true informed consent from the patient.
- 5. Apply high moral and ethical standards while carrying on human or animal research.
- 6.He/She shall not carry out any heroic procedures and must know his limitations in performing all aspects of restorative dentistry including Endodontics. Ask for help from colleagues or seniors when required without hesitation.
- 7. Respect patient's rights and privileges including patients right to information.

COURSE OUTCOMES- PART I

Course Outcome (CO)	DESCRIPTION
CO1	Demonstrate understanding of basic sciences as relevant to conservative / restorative dentistry and Endodontic
CO2	Should have proper knowledge of sterilization procedures
CO3	Provide basic life saving support in emergency situations

PART I- Applied Basic Sciences:

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CO-PO MAPPING				
Name Of Program	MDS Conservative Dentistry And Endodontics			
Name Of Course	Part 1- Applied Basic Sciences			

	PO1	PO2	PO3
CO1			
CO2			
CO3			\checkmark

COURSE OUTCOMES- PART II

COURSE	DESCRIPTION
OUTCOMES	
(CO)	
CO1	Describe etiology, pathophysiology, periapical diagnosis and management
	of common restorative situations, endodontic situations that will include
	contemporary management of dental caries, management of trauma and
	pulpal pathosis including periodontal situations
CO2	Perform all levels of restorative work, surgical and non-surgical Endodontics as well as endodontic-periodontal surgical procedures as part of multidisciplinary

	approach to clinical condition			
CO3	Manage acute pulpal and pulpo periodontal situations.			
CO4	Ability to master differential diagnosis and recognize conditions that may require multi disciplinary approach or a clinical situation outside the realm of the specialty, which he or she should be able to recognize and refer to appropriate specialist.			
C05	Take proper chair side history, examine the patient and perform medical and dental diagnostic procedures as well as perform relevant tests and interpret to them to come to a reasonable diagnosis about the dental condition in general and Conservative Dentistry – Endodontics in particular. And undertake complete patient monitoring including preoperative as well as post operative care of the patient			
CO6	Adopt ethical principles in all aspects of restorative and contemporary Endodontics including non-surgical and surgical Endodontics. Professional honesty and integrity should be the top priority. Apply high moral and ethical standards while carrying on human or animal research			
C07	Develop communication skills in particular to explain various options available for management and to obtain a true informed consent from the patient.			

CO-PO MAPPING				
Name Of Program	MDS Conservative Dentistry And Endodontics			
Name Of Course	Part II			
	Paper I- Conservative Dentistry			
	Paper II -Endodontics			
	Paper III -Descriptive & Analysing Type Question			

	PO1	PO2	PO3
C01 .			
CO2		\checkmark	
CO3	. 🗸	\checkmark	
CO4		\checkmark	
C05		\checkmark	
CO6		\checkmark	√
C07		\checkmark	
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PROGRAM OUTCOME FOR M.D.S PROSTHODONTICS & CROWN AND BRIDGE

Training program for the dental graduates in Prosthetic dentistry– removable dental prosthodontics, fixed dental prosthodontics (Crown & Bridge), implantology, maxillofacial prosthodontics and esthetic dentistry and Crown & Bridge including Implantology is structured to achieve knowledge and skill in theoretical and clinical laboratory, attitude, communicative skills and ability to perform research with a good understanding of social, cultural, educational and environmental background of the society.

- 1. To have adequate acquired knowledge and understanding of applied basic and systemic medical sciences, both in general and in particularly of head and neck region.
- 2. The postgraduates should be able to provide Prosthodontic therapy for patients with competence and working knowledge with understanding of applied medical, behavioral and clinical science, that are beyond the treatment skills of the general BDS graduates and MDS graduates of other specialties,
- 3. To demonstrate evaluative and judgment skills in making appropriate decisions regarding prevention, treatment, after care and referrals to deliver comprehensive care to patients.

PO1- KNOWLEDGE:

The candidate should possess knowledge of applied basic and systemic medical sciences.

 On human anatomy, embryology, histology, applied in general and particularly to head and neck, Physiology & Biochemistry, Pathology Microbiology & virology; health and diseases of various systems of the body (systemic) principles in surgery and medicine, pharmacology, nutrition, behavioral science, age changes, genetics, Immunology, Congenital defects & syndromes and Anthropology, Bioengineering, Bio-medical & Biological PrincipleS

- 2. The student shall acquire knowledge of various Dental Materials used in the specialty and be able to provide appropriate indication, understand the manipulation characteristics, compare with other materials available, be adept with recent advancements of the same.
- 3. Students shall acquire knowledge and practice of history taking, Diagnosis, treatment planning, prognosis, record maintenance of oral, craniofacial and systemic region.
- 4. Ability for comprehensive rehabilitation concept with pre prosthetic treatment plan including surgical re-evaluation and prosthodontic treatment planning, impressions, jaw relations, utility of face bows, articulators, selection and positioning of teeth, teeth arrangement for retention, stability, esthetics, phonation, psychological comfort, fit and insertion. Instructions for patients in after care and preventive Prosthodontics and management of failed restorations shall be possessed by the students.
- 5. Understanding of all the applied aspects of achieving physical, psychological well-being of the patients for control of diseases and / or treatment related syndromes with the patient satisfaction and restoring function of Cranio mandibular system for a quality life of a patient.
- 6. Ability to diagnose and plan treatment for patients requiring Prosthodontic therapy.
- 7. Ability to read and interpret radiographs, and other investigations for the purpose of diagnosis and treatment planning.
- 8. The theoretical knowledge and clinical practice shall include principles involved for support, retention, stability, esthetics, phonation, mastication, occlusion, behavioral, psychological, preventive and social aspects of Prosthodontics science of Oral and Maxillofacial Prosthodontics and Implantology.
- 9. Tooth and tooth surface restorations, Complete denture Prosthodontics, removable partial denture Prosthodontics, fixed prosthodontics and maxillofacial and Craniofacial Prosthodontics, implants and implant supported Prosthodontics, T.M.J. and occlusion, craniofacial esthetics, and biomaterials, craniofacial disorders, problems of psychogenic origin.
- 10. Should have knowledge of age changes, geriatric psychology, nutritional considerations and prosthodontic therapy in the aged population.
- Should have ability to diagnose failed restoration and provide prosthodontic therapy and after care. Should have essential knowledge on ethics, laws, and Jurisprudence and Forensic Odontology in Prosthodontics.
- 12. Should know general health conditions and emergency as related to prosthodontics treatment like allergy of various materials and first line management of aspiration of prosthesis.

- 13. Should identify social, cultural, economic, environmental, educational and emotional determinants of the patient and consider them in planning the treatment.
- 14. Should identify cases, which are outside the area of his specialty / competence, refer them to appropriate specialists and perform interdisciplinary case management.
- 15. To advice regarding case management involving surgical and interim treatment. Should be competent in specialization of team management in craniofacial prosthesis design.
- 16. To have adequate acquired knowledge, and understanding of applied basic, and systemic medical science knowledge in general and in particular to head and neck regions.
- Should attend continuing education programmes, seminars and conferences related to Prosthodontics, thus updating himself/herself. To teach and guide his/her team, colleagues and other students.
- 18. Should be able to use information technology tools and carry out research both in basic and clinical areas, with the aim of publishing his/ her work and presenting his/her work at various scientific forums.
- 19. Should have an essential knowledge of personal hygiene, infection control, prevention of cross infection and safe disposal of waste, keeping in view the risk of transmission of potential communicable and transmissible infections like Hepatitis and HIV.
- 20. Should have an ability to plan and establish Prosthodontics clinic/hospital teaching department and practice management.
- 21. Should have a sound knowledge (of the applications in pharmacology, effects of drugs on oral tissues and systems of body and in medically compromised patients.

PO2- SKILLS:

- The candidate should be able to examine the patients requiring Prosthodontic therapy, investigate the patient systemically, analyze the investigation results, radiographs, diagnose the ailment, plan the treatment, communicate it with the patient and execute it.
- 2. To understand the prevalence and prevention of diseases of craniomandibular system related to prosthetic dentistry.
- 3. The candidate should be able to restore lost functions of stomatognathic system like mastication, speech, appearance and psychological comforts by understanding biological, biomedical, bioengineering principles and systemic conditions of the patients to provide quality health care in the craniofacial regions.
- 4. The candidate should be able to demonstrate good interpersonal, communication skills *and* team approach in interdisciplinary care by interacting with other specialties including medical specialty for planned team management of patients for craniofacial & oral acquired and

congenital defects, temporomandibular joint syndromes, esthetics, Implant supported Prosthetics and problems of Psychogenic origins.

- 5. Should be able to demonstrate the clinical competence necessary to carry out appropriate treatment at higher level of knowledge, training and practice skills currently available in their specialty area with a patient centered approach.
- 6. Should be able to interpret various radiographs like IOPA, OPG, CBCT and CT. Should and be able to plan and modify treatment plan based on radiographic findings
- 7. Should be able to critically appraise articles published and understand various components of different types of articles and be able to gather the weight of evidence from the same.
- To identify target diseases and create awareness amongst the population regarding Prosthodontic therapy.
- 9. To perform Clinical and Laboratory procedures with a clear understanding of biomaterials, tissue conditions related to prosthesis and have required dexterity & skill for performing clinical and laboratory all procedures in fixed, removable, implant, maxillofacial, TMJ and esthetics
- 10. To carry out necessary adjunctive procedures to prepare the patient before prosthesis like tissue preparation and preprosthetic surgery and to prepare the patient before prosthesis / prosthetic procedures .
- 11. To understand demographic distribution and target diseases of Cranio mandibular region related to Prosthodontics.

PO3- ATTITUDES:

1. To adopt ethical principles in Prosthodontic practice, Professional honesty, credibility and integrity are to be fostered. Treatment to be delivered irrespective of social status, caste, creed or religion of patient.

2. Should be willing to share the knowledge and clinical experience with professional colleagues.

- 3. Should develop an attitude towards quality, excellence, *non-compromising* in treatment.
- 4. Should be able to self-evaluate, reflect and improve on their own.

5. Should pursue research in a goal to contribute significant, relevant and useful information, concept or methodology to the scientific fraternity.

6. Should be able to demonstrate *evidence-based* practice while handling cases.

7. Should be willing to adopt new methods and techniques in prosthodontics from time to time based on scientific research, which are in patient's best interest.

8. Should respect patient's rights and privileges, including patient's right to information and right to seek second opinion.

PO4- COMMUNICATIVE ABILITIES:

1. To develop communication skills, in particular *and* to explain treatment options available in the management.

2. To provide leadership and get the best out of his / her group in a congenial working atmosphere.

3. Should be able to communicate in simple understandable language with the patient and explain the principles of prosthodontics to the patient. He/She should be able to guide and counsel the patient with regard to various treatment modalities available.

4. To develop the ability to communicate with professional colleagues through various media like Internet, e-mails, videoconferences etc. to render the best possible treatment.

5. Should demonstrate good explanatory and demonstrating ability as a teacher in order to facilitate learning among students

COURSE OUTCOMES- PART I

COURSE OUTCOMES	DESCRIPTION
(CO)	
CO1	 Should possess knowledge of applied basic and systemic medical sciences. On human anatomy, embryology, histology, applied in general and particularly to head and neck, Physiology & Biochemistry, Pathology Microbiology & virology; health and diseases of various systems of the body (systemic) principles in surgery and medicine, pharmacology, nutrition, behavioral science, age changes, genetics, Immunology, Congenital defects & syndromes and Anthropology, Bioengineering, Biomedical & Biological PrincipleS
CO2	To have adequate acquired knowledge, and understanding of applied basic, and systemic medical science knowledge in general and in particular to head and neck regions.
CO3	The student shall acquire knowledge of various Dental Materials used in the specialty and be able to provide appropriate indication, understand the

	manipulation characteristics, compare with other materials available, be adept with recent advancements of the same
CO4	To adopt ethical principles in Prosthodontic practice, Professional honesty, credibility and integrity are to be fostered. Treatment to be delivered irrespective of social status, caste, creed or religion of patient
CO5	Should have an essential knowledge of personal hygiene, infection control, prevention of cross infection and safe disposal of waste, keeping in view the risk of transmission of potential communicable and transmissible infections like Hepatitis and HIVand apply the knowledge in day to day practice
CO6	To develop the ability to communicate with professional colleagues through various media like Internet, e-mails, videoconferences etc. to render the best possible treatment

CO-POMAPPING		
Name Of ProgramMDS PROSTHODONTICS & CROWN AND		
	BRIDGE	
Name Of Course	PART I- APPLIED BASIC SCIENCES	

	PO1	PO2	PO3	PO4
C01				
CO2				
CO3	\checkmark			
CO4	\checkmark		\checkmark	
CO5				
CO6				

COURSE	DESCRIPTION
OUTCOMES	
(CO) CO1	Should have the ability for comprehensive rehabilitation concept with pre prosthetic treatment plan including surgical re-evaluation and prosthodontic treatment planning, impressions, jaw relations, utility of face bows, articulators, selection and positioning of teeth, teeth arrangement for retention, stability, esthetics, phonation, psychological comfort, fit and insertion. Instructions for patients in after care and preventive Prosthodontics and management of failed restorations shall be possessed by the students.
CO2	Should have knowledge of Tooth and tooth surface restorations, Complete denture Prosthodontics, removable partial denture Prosthodontics, fixed prosthodontics and maxillofacial and Craniofacial Prosthodontics, implants and implant supported Prosthodontics, T.M.J. and occlusion, craniofacial esthetics, and biomaterials, craniofacial disorders, problems of psychogenic origin.
CO3	Should identify cases, which are outside the area of his specialty / competence, refer them to appropriate specialists and perform interdisciplinary case management
CO4	To identify target diseases and create awareness amongst the population regarding Prosthodontic therapy
CO5	The candidate should be able to examine the patients requiring Prosthodontic therapy, investigate the patient systemically, analyze the investigation results, radiographs, diagnose the ailment, plan the treatment, communicate it with the patient and execute it .
CO6	The candidate should be able to demonstrate good interpersonal, communication skills <i>and</i> team approach in interdisciplinary care by interacting with other specialties including medical specialty for planned team management of patients for craniofacial & oral acquired and congenital defects, temporomandibular joint syndromes, esthetics, Implant supported Prosthetics and problems of Psychogenic origins.
CO7	Should be able to demonstrate the clinical competence necessary to carry out appropriate treatment at higher level of knowledge, training and practice skills currently available in their specialty area with a patient centered approach.

CO8	Should be willing to adopt new methods and techniques in prosthodontics
	from time to time based on scientific research, which are in patient's best
	interest. And Should respect patient's rights and privileges, including
	patient's right to information and right to seek second opinion.
CO 9	Should be able to communicate in simple understandable language with
	the patient and explain the principles of prosthodontics to the patient.
	He/She should be able to guide and counsel the patient with regard to
	various treatment modalities available

CO-POMAPPING		
Name Of Program	MDS PROSTHODONTICS & CROWN AND	
	BRIDGE	
Name Of Course	Part II	
	Paper 1-Removable Prosthodontics And Implant	
	Supported Prosthosis(Implantology), Geriatric	
	Dentistry And Cranio FacialProsthodontics	
Paper II-Fixed Prosthodontics, Occlusion,		
	Esthetics	
Paper III-Descriptive & Analysing Type Question		

	PO1	PO2	PO3	PO4
C01				
CO2		\checkmark		
CO3	\checkmark			
CO4			\checkmark	\checkmark
C05		\checkmark		
CO6			\checkmark	\checkmark
C07		\checkmark	\checkmark	
CO8			\checkmark	\checkmark
CO9				vl
			Dr. Me	enal Gulv



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PROGRAM OUTCOME FOR MDS ORAL MEDICINE AND RADIOLOGY

At the end of 3 years of training the candidate should be able to acquire following outcomes-

PO1 - KNOWLEDGE:

Theoretical, Clinical and practical knowledge of all oral mucosal lesions, skeletal involvement of maxillofacial region, diagnostic procedures pertaining to them and latest information of imaging modules.

PO2- SKILLS:

Three important skills need to be imparted in maxillofacial diseases

- 1. Diagnostic skill in recognition of oral diseases with radiographic diagnosis and their management.
- 2. Research skills in handling scientific problems pertaining to oral treatment.
- 3. Clinical and Didactic skills in encouraging younger doctors to attain learning objectives.

PO3- ATTITUDES:

The positive mental attitude and the persistence of continued learning need to be inculcated.

COURSE OUTCOMES- PART 1

COURSE OUTCOMES (CO)	DESCRIPTION	
CO1	Should possess Theoretical, Clinical and practical knowledge of all oral mucosal lesions, skeletal involvement of maxillofacial region	

CO2	The positive mental attitude and the persistence of continued learning need
	to be inculcated

CO-POMAPPING		
Name Of Program	MDS ORAL MEDICINE AND RADIOLOGY	
Name Of Course	PART I- APPLIED BASIC SCIENCES	

	PO1	PO2	PO3
C01			
CO2			

COURSE OUTCOMES (CO)	DESCRIPTION
CO1	Should possess diagnostic skill in recognition of oral diseases with radiographic diagnosis and their management.
CO2	Research skills in handling scientific problems pertaining to oral treatment.
CO3	The positive mental attitude and the persistence of continued learning need to be inculcated

	CO-POMAPPING
Name Of Program	MDS ORAL MEDICINE AND RADIOLOGY
Name Of Course	PART II Paper I- Oral and Maxillofacial Radiology Paper II-Oral Medicine, therapeutics and laboratory investigations Paper III-Descriptive and analysing type question

	PO1	PO2	PO3
C01	\checkmark	√	
CO2			
CO3			

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PROGRAM OUTCOME FOR MDS ORAL & MAXILLOFACIAL PATHOLOGY AND ORAL MICROBIOLOGY

At the end of the program, a postgraduate student should be able to achieve the following outcomes.

PO1- Ensure higher competence in both general and special pathology dealing with the nature of oral diseases, their causes, processes and effects.

PO2- An oral pathologist is expected to perform routine histopathological evaluation of specimens relating to oral and perioral tissues, to carry out routine diagnostic procedures including hematological, cytological, microbiological, Immunological and ultra structural investigations.

PO3- He/she is expected to have an understanding of current research methodology, collection and interpretation of data, ability to carry out research projects on clinical and or epidemiological aspects, a working knowledge on current databases, automated data retrieval systems, referencing and skill in writing scientific papers.

PO4- He/she is expected to present scientific data pertaining to the field, in conferences both as poster and verbal presentations and to take part in group discussions.

COURSE OUTCOMES- PART 1

COURSE
OUTCOMES
(CO)DESCRIPTIONCO1Understanding of histological features of hard tissues of the oral and
maxillofacial region with emphasis on histochemical techniques.CO2Knowledgeably awareness and understanding of the anatomy, functions
and histological features and applied aspects of soft tissues of oral and
maxillofacial region

CO-POMAPPING			
Name Of Program	MDS ORAL & MAXILLOFACIAL PATHOLOGY AND		
	ORAL MICROBIOLOGY		
Name Of Course	PART I- APPLIED BASIC SCIENCE		

	PO1	PO2	PO3	PO4
C01				
CO2				

COURSE OUTCOMES (CO)	DESCRIPTION
CO1	A sound understanding of pathophysiology, clinical features, radiographic characteristics (wherever applicable), histological features and treatment of the preneoplastic and neoplastic lesions affecting the oral and maxillofacial regions with special emphasis on the recent concepts in the pathogenesis of neoplasia
CO2	Proficiency in understanding and identification of the clinical features, radiographic characteristics (wherever applicable), histological features and treatment of oral manifestations of systemic diseases
CO3	Skills in identification of microscopic features of all the diseases and cytological smears pertaining to the craniofacial region along with drawing histopathological features with legible labeled diagrams
CO4	An oral pathologist is expected to perform routine histopathological evaluation of specimens relating to oral and perioral tissues, to carry out routine diagnostic procedures including hematological, cytological, microbiological, Immunological and ultra structural investigations.
CO5	Is expected to have an understanding of current research methodology, collection and interpretation of data, ability to carry out research projects on clinical and or epidemiological aspects

Name Of Program	MDS ORAL & MAXILLOFACIAL PATHOLOGY AND		
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	ORAL MICROBIOLOGY		
Name Of Course	PART II		
	PAPER I- Oral pathology, Oral Microbiology and		
	Immunology and Forensic Odontology		
	PAPER II-Laboratory techniques and Diagnosis and		
	Oral Oncology		
	PAPER III-Descriptive and analysing type question		

	PO1	PO2	PO3	PO4
C01				
CO2	\checkmark			
CO3	. √			
CO4				•
C05			\checkmark	

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PROGRAM OUTCOMES FOR MDS ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS

At the end of the Program, a postgraduate student should be able to achieve following outcomes

PO1- KNOWLEDGE:

1. The dynamic interaction of biologic processes and mechanical forces acting on the stomatognathic system during orthodontic treatment

2. The etiology, pathophysiology, diagnosis and treatment planning of various common Orthodontic problems.

- 3. Various treatment modalities in Orthodontics preventive, interceptive and corrective.
- 4. Basic sciences relevant to the practice of Orthodontics.

5. Interaction of social, cultural, economic, genetic and environmental factors and their relevance to management of oro – facial deformities.

6. Factors affecting the long-range stability of orthodontic correction and their management

7. Personal hygiene and infection control, prevention of cross infection and safe disposal of hospital waste, keeping in view the high prevalence of Hepatitis and HIV and other highly contagious diseases.

PO3- SKILLS:

1. To obtain proper clinical history, methodical examination of the patient, perform essential diagnostic procedures, and interpret them and arrive at a reasonable diagnosis about the Dento-facial deformities.

2. To be competent to fabricate and manage the most appropriate appliance – intra or extra oral, removable or fixed mechanical or functional, and active or passive – for the treatment of any orthodontic problem to be treated singly or as a part of multidisciplinary treatment of oro-facial deformities.

PO4- ATTITUDE:

1. Develop an attitude to adopt ethical principles in all aspects of Orthodontic practice.

2. Professional honesty and integrity are to be fostered

3. Treatment care is to be delivered irrespective of the social status, cast, creed and religion of the patients.

4. Willingness to share the knowledge and clinical experience with professional colleagues

5. Willingness to adopt, after a critical assessment, new methods and techniques of orthodontic management developed from time to time based on scientific research, which are in the best interest of the patient

6. Respect patients' rights and privileges, including patients right to information and right to seek a second opinion

7. Develop attitude to seek opinion from allied medical and dental specialists as and when required

PO5- COMMUNICATION SKILLS:

1. Develop adequate communication skills particularly with the patients giving them the various options available to manage a particular Dento-facial problem and to obtain a true informed consent from them for the most appropriate treatment available at that point of time.

2. Develop the ability to communicate with professional colleagues, in Orthodontics or other specialties through various media like correspondence, Internet, e-video, conference, etc. to render the best possible treatment .

COURSE OUTCOMES- PART 1

COURSE OUTCOMES (CO)	DESCRIPTION
CO1	Knowledge of . Basic sciences relevant to the practice of Orthodontics
CO2	Basic knowledge of Personal hygiene and infection control, prevention of cross infection and safe disposal of hospital waste, keeping in view the high prevalence of Hepatitis and HIV and other highly contagious diseases
CO3	Develop an attitude to adopt ethical principles in all aspects of Orthodontic practice

CO4	Develop attitude to seek opinion from allied medical and dental specialists as
	and when required

CO-POMAPPING			
Name Of Program	MDS ORTHODONTICS AND DENTOFACIAL		
Name Of Course	ORTHOPEDICS PART I- APPLIED BASIC SCIENCE		

	PO1	PO2	PO3	PO4	PO5
C01					
CO2		\checkmark			
CO3					
CO4					

COURSE OUTCOMES (CO)	DESCRIPTION
CO1	Knowledge of the dynamic interaction of biologic processes and mechanical forces acting on the stomatognathic system during orthodontic treatment The etiology, pathophysiology, diagnosis and treatment planning of various common Orthodontic problem
CO2	Various treatment modalities in Orthodontics – preventive, interceptive and corrective.
CO3	Factors affecting the long-range stability of orthodontic correction and their management
CO4	To be competent to fabricate and manage the most appropriate appliance – intra or extra oral, removable or fixed mechanical or functional, and active or passive – for the treatment of any orthodontic problem to be treated singly or as a part of multidisciplinary treatment of oro-facial deformities.

CO5	Willingness to adopt, after a critical assessment, new methods and techniques
	of orthodontic management developed from time to time based on scientific
	research, which are in the best interest of the patient
CO6	Develop adequate communication skills particularly with the patients giving
	them the various options available to manage a particular Dento-facial
	problem and to obtain a true informed consent from them for the most
	appropriate treatment available at that point of time.

CO-POMAPPING		
MDS ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS		
PART II		
PAPER I Orthodontic history, Concepts ofocclusion and		
esthetics, Child and Adult Psychology, Etiology and		
classification of maloclusion, Dentofacial Anomalies,		
Diagnostic procedures and treatment planning in		
Orthodontics, Practice management in Orthodontic		
PAPER II-Clinical Orthodontics		
PAPER III-Descriptive and analysing type question		

	PO1	PO2	PO3	PO4
C01	\checkmark	\checkmark		
CO2	\checkmark	\checkmark		
CO3	\checkmark		\checkmark	
CO4			\checkmark	
CO5				\checkmark

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PROGRAM OUTCOME FOR MDS PEDIATRIC AND PREVENTIVE DENTISTRY

At the end of 3 years of training the candidate should be able to posses the following outcomes

PO1- KNOWLEDGE-

1. Create not only a good oral health in the child but also a good citizen tomorrow.

2. Instill a positive attitude and behavior in children

3. Understand the principles of prevention and preventive dentistry right from birth to adolescence

4. Guide and counsel the parents in regards to various treatment modalities including different facets of preventive dentistry

5. Prevent and intercept developing malocclusion

PO2- SKILLS

1. Obtain proper clinical history, methodological examination of the child patient, perform essential diagnostic procedures and interpret them. and arrive at a reasonable diagnosis and treat appropriately

2. Be competent to treat dental diseases which are occurring in child patient.

3. Manage to repair and restore the lost / tooth structure to maintain harmony between both hard and soft tissues of the oral cavity.

4. Manage the disabled children effectively and efficiently, tailored to the needs of individual requirement and conditions.

5. To acquire skills in managing efficiently life threatening conditions with emphasis on basic life support measures.

PO3- ATTITUDES

1. Develop an attitude to adopt ethical principles in all aspects of Pedodontic practice.

2. Professional honesty and integrity are to be fostered

3. Treatment care is to be delivered irrespective of the social status, cast, creed, and religion of the patients.

4. Willingness to share the knowledge and clinical experience with professional colleagues.

5. Willingness to adopt, after a critical assessment, new methods and techniques of Pedodontic management developed from time to time, based on scientific research, which are in the best interest of the child patient.

6. Respect child patient's rights and privileges, including child patients right to information and right to seek a second opinion.

7. Develop an attitude to seek opinion from allied medical and dental specialities, as and when required.

COURSE OUTCOMES- PART 1

COURSE OUTCOMES (CO)	DESCRIPTION
CO1	Knowledge of Basic science related to the practice of paediatric dentistry
CO2	Create not only a good oral health in the child but also a good citizen tomorrow.

CO-POMAPPING		
Name Of ProgramMDS PAEDIATRIC AND PREVENTIC DENTISTRY		
Name Of CoursePART I- APPLIED BASIC SCIENCE		

	PO1	PO2	PO3
C01			
CO2			

COURSE OUTCOMES	DESCRIPTION
(CO)	
CO1	Understand the principles of prevention and preventive dentistry right from
	birth to adolescence
CO2	Be competent to treat dental diseases which are occurring in child patient.
CO3	Manage to repair and restore the lost / tooth structure to maintain harmony between both hard and soft tissues of the oral cavity
CO4	To acquire skills in managing efficiently life threatening conditions with emphasis on basic life support measures managing disabled children efficiently.
CO5	Respect child patient's rights and privileges, including child patients right to information and right to seek a second opinion.
CO6	Willingness to adopt, after a critical assessment, new methods and techniques of Pedodontic management developed from time to time, based on scientific research, which are in the best interest of the child patient.

CO-POMAPPING			
Name Of	MDS PAEDIATRIC AND PREVENTIVE DENTISTRY		
Program			
Name Of Course	PART II		
	PAPER I -Clinical Pedodontics		
	PAPER II- Preventive and Community Dentistry as applied to pediatric dentistry PAPER III-Descriptive and analysing type question		

	PO1	PO2	PO3
CO1			
CO2			

CO3 $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ CO4 $\sqrt{}$ C05 $\sqrt{}$ CO6 V Dr. Meenal Guive PRINCIPAL MGV's KBH Dental College & Hospital Panchavati, Nashik-422 003 57



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PROGRAM OUTCOME FOR M.D.S PERIODONTOLOGY

On completion of the Program, a Post-graduate student should be able to possess the following outcomes

PO1- KNOWLEDGE:

Discuss historical perspective to advancement in the subject proper and related topics.

- 1. Describe etiology, pathogenesis, diagnosis and management of common periodontal diseases with emphasis on Indian population
- 2. Familiarize with the biochemical, microbiologic and immunologic genetic aspects of periodontal pathology.
- 3. Describe various preventive periodontal measures.
- 4. Describe various treatment modalities of periodontal disease from historical aspect to currently available ones.
- 5. Describe interrelationship between periodontal disease and various systemic conditions.
- 6. Describe periodontal hazards due to estrogenic causes and deleterious habits and prevention of it.
- 7. Identify rarities in periodontal disease and environmental/Emotional determinates in a given case.
- 8. Recognize conditions that may be outside the area of his/her Speciality/ competence and refer them to an appropriate Specialist.
- 9. Decide regarding non-surgical or surgical management of the case.
- 10. Update the student by attending courses, conferences and seminars relevant to periodontics or by self-learning process.
- 11. Plan out/ carry out research activity both basic and clinical aspects with the aim of publishing his/her work in scientific journals.
- 12. Reach to the public to motivate and educate regarding periodontal disease, its prevention and consequences if not treated.

- 13. Plan out epidemiological survey to assess prevalence and incidence of early onset periodontitis and adult periodontitis in Indian population (Region wise).
- 14. Shall develop knowledge, skill in the science and practice of Oral Implantology.
- 15. Shall develop teaching skill in the field of Periodontology and Oral Implantology.
- 16. Principals of Surgery and Medical Emergencies.
- 17. To sensitize students about inter disciplinary approach towards the soft tissues of the oral cavity with the help of specialist from other departments.

PO2- SKILLS:

- Take a proper clinical history, thorough examination of intra oral, extra oral, medical history evaluation, advice essential diagnostic procedures and interpret them to come to a reasonable diagnosis.
- 2. Effective motivation and education regarding periodontal disease maintenance after the treatment.
- 3. Perform both non-surgical & education regarding periodontal disease, maintenance after the treatment.
- 4. Perform both non-surgical and surgical procedures independently.
- 5. Provide Basic Life Support Service (BLS) recognizes the need for advance life support and does the immediate need for that.

PO3- HUMAN VALUES, ETHICAL PRACTICE TO COMMUNICATION ABILITIES

- 1. .Adopt ethical principles in all aspects of treatment modalities; Professional honesty & integrity are to be fostered. Develop Communication skills to make awareness regarding periodontal disease Apply high moral and ethical standards while carrying out human or animal research, Be humble, accept the limitations in his/her knowledge and skill, and ask for help from colleagues when needed, Respect patients rights and privileges, including patients right to information and right to seek a second opinion.
- 2. To learn the principal of lip repositioning and perio esthetics surgeries.

COURSE OUTCOMES (CO)	DESCRIPTION
CO1	Knowledge of . Basic sciences relevant to the practice of periodontics
CO2	Basic knowledge of Personal hygiene and infection control, prevention of cross infection and safe disposal of hospital waste, keeping in view the high prevalence of Hepatitis and HIV and other highly contagious diseases
CO3	Develop an attitude to adopt ethical principles in all aspects of periodontic practice
CO4	Develop attitude to seek opinion from allied medical and dental specialists as and when required

CO-POMAPPING		
Name Of ProgramMDS PERIODONTICS		
Name Of Course	PART I- APPLIED BASIC SCIENCE	

	PO1	PO2	PO3
C01			
CO2		\checkmark	
CO3			
CO4			

At the end of the course the postgraduate student should be able to

COURSE	DESCRIPTION
OUTCOMES (CO)	
CO1	Familiarize with the biochemical, microbiologic and immunologic genetic aspects of periodontal pathology.
CO2	Describe etiology, pathogenesis, diagnosis and management of common periodontal diseases with emphasis on Indian population
CO3	Describe various treatment modalities of periodontal disease from historical aspect to currently available ones.
CO4	Describe interrelationship between periodontal disease and various systemic conditions
CO5	Perform both non-surgical & education regarding periodontal disease, maintenance after the treatment. Perform both non-surgical and surgical procedures independently
CO6	Develop Communication skills to make awareness regarding periodontal disease Apply high moral and ethical standards while carrying out human or animal research, Be humble, accept the limitations in his/her knowledge and skill, and ask for help from colleagues when needed,
CO7	Provide Basic Life Support Service (BLS) recognizes the need for advance life support and do the immediate need for that.

CO-POMAPPING		
Name Of Program	MDS PERIODONTICS	
Name Of Course	PART II	
	PAPER I Normal Periodontal structure, Etiology and Pathogenesis of Periodontal diseases, epidemiology as related to Periodontics	
	PAPER II-Periodontal diagnosis, therapy and Oral implantology PAPER III-Descriptive and analysing type question	

PO1 PO2 PO3 **CO1** V $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ **CO2** $\sqrt{}$ $\sqrt{}$ **CO3** $\sqrt{}$ V $\sqrt{}$ **CO4** $\sqrt{}$ CO5 $\sqrt{}$ $\sqrt{}$ CO6 $\sqrt{}$ $\sqrt{}$ **CO7**

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