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i) Recognized by the Government of India
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2390-B, K.B. Hidayatullah Road, Azam Campus, Camp, Pune-411001 (Maharashtra)
E-mail: mardcinfo@gmail.com Website : www.mardentalcollege.org

Name of the Degree programme :- B.D.S

Course Outcomes (COs)

Name of the Course (Subject)	Anatomy
At the end of the course, students will be able to:	
CO1	• Describe the different terms used in human anatomy
CO2	• Explain the anatomy of the human body, with specific reference to the regional anatomy of head and neck, thorax and abdomen
CO3	• Determine the locations and relate the topography of anatomical structures in the living human body, in theory and during clinical examination
CO4	• Discriminate using histopathological microscopic examination, the different tissues(Bone, cartilage, muscles, gland, Urinary tract organs, etc)
CO5	• Weigh radiographs of healthy and diseased tissue using modern imaging techniques
CO6	• Write the stages of normal embryonal development

Name of the Course (Subject)	Physiology
At the end of the course, students will be able to:	
CO1	• Describe the basic principles, mechanism of homeostatic control, normal functions of all organ systems, regulatory mechanisms, interactions of various organs, development of membrane potentials due to various transport mechanisms for well co-ordinated total body function.

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CO2	• Discuss the functions of blood, blood groups, dangers of blood transfusion, stages of erythropoiesis, functions of WBC & Platelets, steps in Haemostasis.
CO3	• Explain composition, functions of all digestive juices, liver, gall bladder, mastication, deglutition, gastric filling & emptying, movements of small and large intestine, defecation.
CO4	• Summarize the various phases of menstrual cycle, maternal changes during pregnancy, actions of Oestrogen, Progesterone and Testosterone.
CO5	• Analyze the co-relation of the cardiac cycle events, heart sounds with the waves in ECG, filling of the coronaries. changes in blood pressure & heart rate with changes in cardiac output during exercise.
CO6	• Justify the metabolic and systemic actions of anterior, posterior pituitary hormones with emphasis on their role in diseased states.

Name of the Course (Subject)	Biochemistry
At the end of the course, students will be able to:	
CO1	• Describe the chemistry of functional groups, hydrophobic and hydrophilic moieties and weak valence forces that organize macromolecules
CO2	• Discuss the metabolic processes in detail, including the overall change, interdependence and molecular turnover, along with details of the steps involved and the fundamentals of biochemical genetics.
CO3	• Illustrate the biochemical basis of the life processes relevant to the human system and to dental / medical practice
CO4	• Correlate genotype changes to functional changes in some genetic disorders.
CO5	• Assess anti-vitamins, antimetabolites and enzyme inhibitors for future study of medical/dental subjects.

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Name of the Course (Subject)	Dental Anatomy ,Histology and Embryology
At the end of the course, students will be able to:	
CO1	• Describe anatomy of deciduous and permanent dentition
CO2	• Identification of normal histology of oral and paraoral tissues
CO3	• Carving in wax to simulate ideal anatomy of teeth
CO4	• Distinguish different tooth numbering system for communication and clinical record maintaining during treatment
CO5	• Compare clinical significance of oral and para oral tissues to their normal development

Name of the Course (Subject)	General Pathology
At the end of the course, students will be able to:	
CO1	• Describe inflammation , Causes , types , and circulatory disturbances
CO2	• Define neoplasm, types of necrosis, organs that can undergo gangrene and its types
CO3	• Describe healing by primary and secondary intention, role of growth factors in healing
CO4	• Explain Types of cell injury, outcomes of the same, chemical and physical nature of amyloid, diagnosis of amyloidosis
CO5	• Discuss distribution of atherosclerosis, risk factors in its development and morphological features
CO6	• Classify Clinical and morphological features of primary, secondary, tertiary,congenital syphilis and tuberculosis

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Name of the Course (Subject)	Microbiology
At the end of the course, students will be able to:	
CO1	• Describe the morphology, Physiology of bacterial cell, techniques of sterilization , bacterial genetics & drug resistance
CO2	• Memorize the antigen, antibodies , Ag- Ab reactions , hypersensitivity reactions, immune system, immune response & complement
CO3	• Identify various fungi, parasites & viruses causing infections in human beings
CO4	• Observe various bacteria by using important staining in bacteriology
CO5	• Give examples of bacteria causing diseases in human beings and nosocomial (hospital acquired) infections
CO6	• Discuss the concept of Biomedical waste management

Name of the Course (Subject)	Pharmacology
At the end of the course, students will be able to:	
CO1	• Define the pharmacokinetics, pharmacodynamics and clinical pharmacology of essential and commonly used drugs in general and in dentistry in particular
CO2	• Describe adverse reactions and drug interactions of commonly used drugs
CO3	• Cite indications, contraindications and interactions of commonly used drugs in general and dentistry in particular.
CO4	• Apply the use of emergency drugs in various clinical departments
CO5	• Criticise prescriptions for their suitability to specific medical conditions.
CO6	• Formulate a prescription for common dental and medical ailments.

Name of the Course (Subject)	Dental Material Sciences
At the end of the course, students will be able to:	
CO1	• Memorize in detail different impression materials used in dentistry.
CO2	• Describe casting process, casting defects and hazards of base metal

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	alloys
CO3	• Distinguish between types of acrylic resins, physical properties, composition & their polymerisation reaction.
CO4	• Categorize the types of dental ceramics, their clinical application and advancements.
CO5	• Evaluate types of gypsum products, their working time, setting time disinfection and storage.
CO6	• Simulation of different impression materials.

Name of the Course (Subject)	Preclinical Prosthodontics
At the end of the course, students will be able to:	
CO1	• Identify the anatomical landmarks and their significance.
CO2	• Enumerate different abrasive and polishing agents, their process and clinical uses for denture fabrication.
CO3	• Construct custom trays, denture base and ideal occlusal rims
CO4	• Prepare ideal teeth arrangement
CO5	• Designing of ideal complete denture

Name of the Course (Subject)	Preclinical Conservative Dentistry
At the end of the course, students will be able to:	
CO1	• Reproduce the original anatomic form of teeth with the help of plaster models and ivorine teeth
CO2	• Identify various hand cutting and rotary cutting instruments used in operative dentistry.
CO3	• Prepare Cavity designs for dental amalgam restorations and inlays
CO4	• Correlate the concept of pulp protection and agents used for the same
CO5	• Summarize various indirect restorations and design inlay cavities and wax patterns.

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Name of the Course (Subject)	General Medicine
At the end of the course, students will be able to:	
CO1	• Define aims of medicine definitions of signs, symptoms, diagnosis, differential diagnosis treatment, prognosis and various bacterial, viral, parasitic infections
CO2	• Describe various types of Gastro Intestinal Tract infections, includes Hepatitis & liver cirrhosis
CO3	• Discuss various types of Central Vascular System infections including heart diseases & congestive cardiac failure
CO4	• Explain haematology disorders, bleeding clotting disorders renal system disorders, Central Nervous System disorders, & endocrines disorders
CO5	• Differentiate respiratory system infections including COPD, pulmonary TB & lung cancers
CO6	• Illustrate critical care management includes Syncope, cardiac arrest, CPR, & shock

Name of the Course (Subject)	General Surgery
At the end of the course, students will be able to:	
CO1	• Define the development of surgery , general principles of surgery as related to orodental diseases & classification of diseases in general
CO2	• Identify inflammation, wound healing, repair, medico-legal aspects of accidental wounds and complications of wounds.
CO3	• Enumerate bacterial viral acute and chronic abscess producing infections
CO4	• Classify various types of shock, haemorrhage, tumours, ulcer ,sinus ,& fistulae
CO5	• Discuss diseases of lymphatic system, oral cavity larynx, nervous system ,thyroid & parathyroid
CO6	• Illustrate types of biopsies, anomalies of face & management swelling of the jaw

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Name of the Course (Subject)	Oral Pathology And Microbiology
At the end of the course, students will be able to:	
CO1	• Describe the etiopathogenesis, clinical, radiological, histopathological features of various oral pathologies.
CO2	• Identification of developmental disturbances affecting the oral and paraoral tissues
CO3	• Determine the species based on dentition
CO4	• Analysing the uniqueness of the lip prints of an individual
CO5	• Summarize the various pathologies from their clinical and radiographic presentations and relate the various carcinogenic agents causing premalignant and malignant disorders

Name of the Course (Subject)	Prosthodontics and Crown and Bridge
At the end of the course, students will be able to:	
CO1	• Define impression and impression techniques.
CO2	• Classify the principles of fixed prosthodontics, including tooth preparation, design, and materials used for FPDs
CO3	• Explain the concepts of complete and partial edentulism.
CO4	• Analyse the design of removable partial dentures, considering factors like aesthetics, function, and patient comfort.
CO5	• Construct complete dentures and fixed partial dentures for the patients.

Name of the Course (Subject)	Orthodontics & Dentofacial Orthopedics
At the end of the course, students will be able to:	
CO1	• Describe the key orthodontic terminologies and concepts in orthodontics
CO2	• Explain the principles behind common orthodontic procedures
CO3	• Demonstrate the application of orthodontic techniques in simulation
CO4	• Analyse the different treatment option for specific orthodontic

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	cases
CO5	• Appraise the effectiveness of specific orthodontic intervention based on available evidence
CO6	• Design a comprehensive orthodontic treatment plan for a patient

Name of the Course (Subject)	Conservative Dentistry And Endodontics
At the end of the course, students will be able to:	
CO1	• Describe the biological, mechanical, physical properties of dental materials and the role of dental materials in clinical application.
CO2	• Discuss various cavity liners, bases and cavity varnish and their clinical applications.
CO3	• Develop skills to manipulate dental cements, silver amalgam and inlay wax.
CO4	• Categorize cements used in conservative dentistry, its application, composition, manipulation, indications and contraindications.
CO5	• Summarize dental amalgam & dental waxes, its application,classification, composition, properties, advantages & disadvantages.

Name of the Course (Subject)	Periodontology
At the end of the course, students will be able to:	
CO1	• Describe microscopic and macroscopic structures, functions, blood supply nerve supply and lymphatic supply and applied aspects/significance with respect to periodontal diseases
CO2	• Explain 1999 classifications with merits and demerits and Current classification 2017
CO3	• Illustrate the role of micro-organisms, Composition of plaque, stages of plaque formation and classification of plaque, different plaque hypothesis, calculus: composition, classification and theories of formation, host microbial interaction, defence mechanism of gingiva (saliva, GCF)
CO4	• Interpret gingivitis & periodontitis, stages of gingival inflammation, clinical and radiographical features of periodontitis
CO5	• Analyse the role of trauma from occlusion, phases of trauma from occlusion, clinical and radiographic features and management.

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CO6	• Choose the treatment of various periodontal therapies including scaling and root planing, Flap surgeries, Periodontal plastic and aesthetic surgeries interdisciplinary periodontics, resective and regenerative periodontal surgeries, lasers, implants, Host modulation therapy, SPT

Name of the Course (Subject)	Oral & Maxillofacial Surgery
At the end of the course, students will be able to:	
CO1	• Record case history, demonstrate clinical examination, advise and interpret radiological and laboratory investigations to arrive at a specific diagnosis.
CO2	• Identify the tooth for extraction
CO3	• Pratice exodontia and minor surgical procedures like suturing and alveoloplasty under Local Anesthesia following the standard sterilization protocols.
CO4	• Distinguish (Impacted 3rd molar, Cysts, Tumors, and Fractures etc.) and refer cases beyond their expertise to Oral and Maxillofacial Surgeon.
CO5	• Manage medical emergencies on dental chair and minor oral surgical complications intraoperatively and postoperatively

Name of the Course (Subject)	Paedodontics and Preventive Dentistry
At the end of the course, students will be able to:	
CO1	• Identify the differences between primary and permanent dentition.
CO2	• Associate the chronology of eruption of teeth to clinical situations.
CO3	• Prepare a diet chart for caries prevention and management.
CO4	• Categorize the different treatment modalities for children with special health care needs.
CO5	• Summarize different behaviour management techniques, pulp therapies, traumatic injuries and oral habits.
CO6	• Construct a comprehensive treatment plan for patients.

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Name of the Course (Subject)	Oral Medicine & Radiology
At the end of the course, students will be able to:	
CO1	• Enumerate various medical complications while treating systemically compromised patients.
CO2	• Describe forensic identification tools in age estimation and laboratory investigations.
CO3	• Application of radiation health hazards, radiation protection for operator and patient & community.
CO4	• Analyse various infections, mucosal lesions inclusive of Cysts, inflammatory conditions, benign & malignant tumours etc. in oral & maxillofacial region.
CO5	• Evaluate case history, examination of normal & diseased oral structures of patient for diagnosis
CO6	• Create intra & extra oral radiographs, digital radiographs and other imaging methods with interpretation.

Name of the Course (Subject)	Public Health Dentistry
At the end of the course, students will be able to:	
CO1	• Describe the Concept of Health, Disease, Health Education, Health Promotion and Epidemiology in relation to Dental and Public Health.
CO2	• Summarize the Epidemiology of Dental caries, Periodontal diseases, Malocclusion, Dental fluorosis and Oral cancer.
CO3	• Practice levels of prevention in individual and Community by various Preventive, School Oral Health and Plaque control programmes.
CO4	• Distinguish State and Centre healthcare system, Oral health policy, Primary health care, National programmes and Voluntary health organizations.
CO5	• Evaluate an Oral Health Survey using various dental indices and Biostatistical methods.
CO6	• Design a research protocol with the knowledge of various sampling techniques, test of significance, methods of data collection and presentation.

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Progaramme Outcomes of BDS

At the end of the Programme, students will be able to:

PO1 : Knowledge Acquisition: Acquire in depth knowledge, understand fundamental concepts and skills pertaining to principles of clinical disciplines towards diagnostic and therapeutic aspects of dentistry in health and sickness as well as the influence of the natural and social environment on the state of health.

PO2 : Skill Development: Develop skill of applying fundamentals, concepts and techniques to control pain and anxiety amongst the patients during dental treatment, to promote oral health and help prevent oral diseases, carry out certain investigative procedures and ability to interpret laboratory findings as well as prevent and manage complications if encountered while carrying out various dental procedures,thereby providing the services complying to the expectations and the rights of the society to receive the best possible treatment available.

PO3 : Clinical knowledge: Create awareness about clinical skills for providing complete satisfactory dental care to their patients as well as confidence to establish their independent setup comprising with latest equipments and state of the art and infrastructure.In addition, possess efficient communication skills with their peers and auxiliary staffs to run a successful dental venture.

PO4 : Professional Dental Practices: Provide ethical professional dental practice including compassion, empathy, honesty, responsibility and endurance. Provide comprehensive dental care and practice management encompassing patient assessments, maintain patient's confidentiality.

PO5 : Communication and leadership skills: Communicate effectively to possess minimum standards of communication skills and soft skills for interaction with peers and acquire competence to assume leadership in order to achieve combined targets and capacity of effectively communicating and catering to

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a larger audience.

PO6 : Analytical Skills: Acquire knowledge and skills to diagnose and analyze health and oral disease and develop ability to formulate appropriate treatment plan as well as predict treatment outcome and prognosis.

PO7 : Use of Tools and Technology: Acquire knowledge of various dental equipment and their mode of application including the latest advances including digital dentistry and use of Artificial Intelligence and also have knowledge about various e-learning resources.

PO8: Environment and Sustainability: Delivers high quality care with minimal invasive procedures and utility of advanced imaging modalities like digital dentistry without damaging environment that are affordable and delivers positive social and environmental impact.

PO9 : Ethics: Reflects the evolution of morals and ethics into a socially and professionally accepted domain and ability to develop ethical responsibility to healthcare as well as to the professions; equipped with personal code of conduct inclusive of being generous, patient, well versed with ideals of honesty, integrity, respect and loyalty.

PO10 : Lifelong Learning and Collaborative Skills : Ability to implement a holistic and most advanced approach of treatment by developing lifelong learning process by participating in various courses and programmes to keep updated with the latest advances and following evidence – based treatment approaches.

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Progaramme Outcomes of MDS

At the end of the Programme, students will be able to:

PO1 : Knowledge Acquisition: Acquire in depth knowledge, understand fundamental concepts and skills pertaining to principles of clinical disciplines towards diagnostic and therapeutic aspects of dentistry in health and sickness as well as the influence of the natural and social environment on the state of health.

PO2 : Skill Development: Develop skill of applying fundamentals, concepts and techniques to control pain and anxiety amongst the patients during dental treatment, to promote oral health and help prevent oral diseases, carry out certain investigative procedures and ability to interpret laboratory findings as well as prevent and manage complications if encountered while carrying out various dental procedures,thereby providing the services complying to the expectations and the rights of the society to receive the best possible treatment available.

PO3 : Clinical knowledge: Create awareness about clinical skills for providing complete satisfactory dental care to their patients as well as confidence to establish their independent setup comprising with latest equipments and state of the art and infrastructure.In addition, possess efficient communication skills with their peers and auxiliary staffs to run a successful dental venture.

PO4 : Professional Dental Practices: Provide ethical professional dental practice including compassion, empathy, honesty, responsibility and endurance. Provide comprehensive dental care and practice management encompassing patient assessments, maintain patient's confidentiality.

PO5 : Communication and leadership skills: Communicate effectively to possess minimum standards of

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communication skills and soft skills for interaction with peers and acquire competence to assume leadership in order to achieve combined targets and capacity of effectively communicating and catering to a larger audience.

PO6 : Analytical Skills: Acquire knowledge and skills to diagnose and analyze health and oral disease and develop ability to formulate appropriate treatment plan as well as predict treatment outcome and prognosis.

PO7 : Use of Tools and Technology: Acquire knowledge of various dental equipment and their mode of application including the latest advances including digital dentistry and use of Artificial Intelligence and also have knowledge about various e-learning resources.

PO8: Research – skill : Familiarize with clinical research methodology and capability of recognizing and conducting relevant research individually pertaining to their respective disciplines.

PO9 : Ethics: Reflects the evolution of morals and ethics into a socially and professionally accepted domain and ability to develop ethical responsibility to healthcare as well as to the professions; equipped with personal code of conduct inclusive of being generous, patient, well versed with ideals of honesty, integrity, respect and loyalty.

PO10 : Lifelong Learning and Collaborative Skills : Ability to implement a holistic and most advanced approach of treatment by developing lifelong learning process by participating in various courses and programmes to keep updated with the latest advances and following evidence – based treatment approaches.

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Name of the Degree programme :- MDS

Programme Specific Outcomes (PSOs)

Name of the Course (Subject)	Oral Pathology & Microbiology
At the end of the course, students will be able to:	
PSO1	• Demonstrate and apply basic skills in diagnosing various oral pathologies and its report writing
PSO2	• Demonstrate progressive affective domain development of values the role of communication skills in giving the definitive diagnosis that will enable the proper treatment by specialist
PSO3	• Practice ethical standards while carrying out research related to Oral Pathology

Name of the Course (Subject)	Prosthodontics and Crown & Bridge
At the end of the course, students will be able to:	
PSO1	• Demonstrate and apply basic skills in diagnosis and execution of various prosthodontic procedures, including fixed and removable prosthodontics, implant prosthodontics, and maxillofacial prosthetics.
PSO2	• Demonstrate high ethical standards in their professional practice, demonstrating integrity, and empathy.
PSO3	• Practice effective communication with patients, assess their oral health needs, and develop comprehensive treatment plans.

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Name of the Course (Subject)	Orthodontics & Dentofacial Orthopedics
At the end of the course, students will be able to:	
PSO1	• Demonstrate proficiency in conducting orthodontic examination and diagnosis, develop the treatment plan for different type of malocclusion.Apply the basic skill to master the use of orthodontic appliances and techniques and application of appropriate orthodontic intervention for different types of cases.
PSO2	• Demonstrate ethical and professional conduct in patient care and exhibit professionalism in interactions with patients and colleagues .
PSO3	• Collaborate effectively with other healthcare professionals, participate in interdisciplinary approach to patient care and pursue ongoing professional development and lifelong learning in orthodontics and stay informed about advancement in orthodontic technology.

Name of the Course (Subject)	Conservative Dentistry & Endodontics
At the end of the course, students will be able to:	
PSO1	• Demonstration and apply basic skills in conservative dentistry and endodontics through precise diagnosis, treatment planning and execution of various restorative and endodontic procedures.
PSO2	• Demonstrate progressive affective domain development of values, communication skills and patient management and ensuring patients confidentiality.
PSO3	• Practice and continue lifelong learning by staying updated on the latest advancements in conservative dentistry and endodontics, participating in continuing education and contributing to professional development.

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Name of the Course (Subject)	Periodontolgy
At the end of the course, students will be able to:	
PSO1	• Describe various skills in Non-Surgical Periodontal Therapy procedures.
PSO2	• Demonstrate progressive affective domain development of values and the role of communication skills in management of periodontal diseases.
PSO3	• Compare Practice of Conventional Implantology Versus Digital Workflow in Implantology.

Name of the Course (Subject)	Oral & Maxillofacial Surgery
At the end of the course, students will be able to:	
PSO1	• Obtain basics of diagnostic procedures with relevant laboratory investigations and perform appropriate oral surgeries.
PSO2	• Develop an attitude to adopt ethical principles irrespective of the social status, caste, greed and religion of the patient and demonstrate professional honesty and integrity.
PSO3	• Practice Major and minor oral surgical procedures and common maxillofacial surgery.

Name of the Course (Subject)	Paedodontics and Preventive Dentistry
At the end of the course, students will be able to:	
PSO1	• Demonstrate and apply basic skills in child patient management including those with special heath care needs.

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PSO2	• Demonstrate progressive affective domain development of values,the role of pediatric dentist in association with the family as well as the society.
PSO3	• Practice efficiently to treat dental diseases pertaining to patients including children, adolescents and those with special health care needs.

Name of the Course (Subject)	Oral Medicine & Radiology
At the end of the course, students will be able to:	
PSO1	• Apply basic skills in clinical examination in inclusive of diagnosis lab. Investigations, Imaging and treatment planning of orofacial lesions.
PSO2	• Demonstrate Ethical & professional conduct irrespective of color, cast, race, etc of patients and exhibit professional conduct with patients and colleagues with high morals of the society.
PSO3	• Practice, participate effectively with other professionals towards inter disciplinary approach to patients care and their welfare with life long learning and imbuing advanced technologies for better patient care outcome .

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