



Bharati Vidyapeeth (Deemed To Be University), Pune
Faculty of Dentistry

Master of Dental Surgery (MDS): Specific Program Outcomes

Subject: Oral & Maxillofacial Surgery

Sr. No.	Specific Program Outcome
	At the end of the MDS Program, the Post graduate student would be able to:
SPO1.	Apply the knowledge of basic medical and dental sciences to solve simple, complex, or unique clinical problems in Oral & Maxillofacial Surgery.
SPO2.	Demonstrate a systematic approach to diagnose, plan, and manage simple, complex, and unique problems of the specialty of Oral & Maxillofacial Surgery.
SPO3.	Provide surgical care to a diverse population in a safe, ethical, legal, and socially acceptable manner.
SPO4.	Formulate and execute oral and maxillofacial surgical procedures and strategies to address the unique needs of vulnerable and special care patients (with medical, physical, cognitive, emotional or developmental challenges)
SPO5.	Communicate effectively with patients, caregivers, healthcare professionals, and support personnel as required for simple or complex surgical clinical cases as well as interdisciplinary cases.
SPO6.	Integrate biomedical knowledge, best quality research, clinical expertise, and values to provide evidence-based surgical care comprising modern treatments and ICT-enabled approaches.
SPO7.	Lead oral healthcare teams, collaborate with other healthcare providers to effectively provide advanced surgical care.
SPO8.	Advocate measures for promotion and improvement of community health with respect to oral surgery, including trauma and oral cancer
SPO9.	Possess lifelong commitment to learning and professional development.
SPO10.	Plan, execute, and disseminate research in Oral and maxillofacial surgery that aims to fulfill needs of the community.
SPO11.	Possess educational skills and techniques necessary to teach students.


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Master of Dental Surgery (MDS): Specific Program Outcomes

Subject: Prosthodontics and Crown and Bridge

Sr. No.	Specific Program Outcome
	At the end of the MDS Program, the Post graduate student would be able to:
SPO1.	Provide Prosthodontic therapy to patients, with competence and knowledge, with understanding of applied basic medical, behavioral, and clinical science.
SPO2.	Demonstrate a systematic approach to diagnosing, planning, and managing all types of simple to complex prosthodontic cases.
SPO3.	Provide Prosthodontic care to a diverse population in a safe, ethical, legal, and socially acceptable manner.
SPO4.	Be proficient in laboratory skills sufficient to evaluate technical work, and communicate efficiently with dental technicians.
SPO5.	Be effectively interfaced with other specialties and disciplines in the care of patients requiring interdisciplinary therapy, and for vulnerable patients or patients requiring special care, especially geriatric patients
SPO6.	Communicate effectively with patients, caregivers, and healthcare and support professionals, as required for all clinical and interdisciplinary cases.
SPO7.	Demonstrate the understanding and knowledge regarding basic Research methodology, apply recent knowledge and evidence-based information and dental technology for comprehensive patient care as well as prosthodontic research.
SPO8.	Advocate the specialty for the promotion and development of the specialty and for the improvement of the overall community health.
SPO9.	Possess lifelong commitment to learning and professional development.
SPO10.	Lead oral health care teams, collaborate with other health care providers, and actively contribute to community outreach.
SPO11.	Demonstrate educational techniques in teaching the specialty to students.

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Master of Dental Surgery (MDS): Specific Program Outcomes

Subject: Oral Medicine and Radiology

Sr. No.	Specific Program Outcome
	At the end of the MDS Program, the Post graduate student would be able to:
SPO1.	Apply comprehensive knowledge of the anatomy of the face and oral cavity, the basic physiologic processes, pathologic processes, and the basics of pharmacology during patient assessment and diagnosis.
SPO2.	Demonstrate competency and skills to diagnose common and uncommon diseases affecting the oral and para-oral structures by thorough patient evaluation and investigations, in a safe, ethical, legal, and socially acceptable manner.
SPO3.	Demonstrate a systematic approach in managing diseases/ disorders of the oral and para-oral structures, through thorough examination and radiographic investigations, with an interdisciplinary approach.
SPO4.	Understand the oral health-systemic health link, diagnose oral and radiographic changes due to systemic disorders, and formulate comprehensive dental treatment for medically complex patients under the purview of Oral Medicine, in collaboration with other specialities.
SPO5.	Apply the knowledge of radiation physics, radiation biology and principles of ALARA and Radiation Protection in making high-quality radiographs.
SPO6.	Demonstrate effective communication skills with patients, caregivers, and other health professionals for all reporting and managing all clinical cases, including breaking bad news.
SPO7.	Apply the principles of an evidence-based approach to learning, clinical practice, and decision making. Integrate biomedical knowledge, best quality research, clinical expertise, and values to provide evidence-based oral healthcare comprising of modern treatments and ICT-enabled approaches
SPO8.	Advocate the specialty for the promotion and improvement of community health, especially tobacco cessation counseling
SPO9.	Demonstrate effective communication with patients on tobacco and its harmful effects on oral and systemic health, including various methods of counselling to stop the habit.
SPO10.	Understand basic research methodology, biostatistics, and principles of ethics as applied to clinical dentistry and research, in order to carry out research in the specialty for the benefit of the community.
SPO11.	Possess a lifelong commitment to learning and professional development
SPO 12.	Demonstrate educational strategies and techniques to teach students and juniors.


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Master of Dental Surgery (MDS): Specific Program Outcomes

Subject: Pediatric and Preventive Dentistry

Sr. No.	Specific Program Outcome
	At the end of the MDS Program, the Post graduate student would be able to:
SPO 1	Apply comprehensive knowledge of basic medical and dental sciences and apply them to solve simple, complex, or unique Paediatric clinical cases.
SPO 2	Diagnose, plan, and execute both primary and comprehensive, preventive and therapeutic treatments for dental and orofacial conditions affecting children from infancy through adolescence, including those of complex nature.
SPO3.	Perform basic and advanced procedures for the management of dental and orofacial conditions affecting children either independently or working with other specialists, in a safe, ethical, legal and socially acceptable manner.
SPO4.	Evince care in the counselling of parents and children for behaviour guidance pertaining to children's dental care, including preventive measures.
SPO5.	Create and execute treatment strategies to address the unique needs of vulnerable and special care paediatric patients (with medical/ physical/ cognitive/cognitive/ emotional or developmental challenges)
SPO 6	Effectively communicate with caregivers, patients, other healthcare professionals, and auxiliary staff with responsibility and empathy, and exhibit teamwork and professionalism.
SPO6.	Practice evidence-based dentistry considering the current best evidence, their own professional judgment, and patients' preference for providing optimal paediatric dental and oral care.
SPO7.	Lead oral healthcare teams, collaborate with other healthcare providers, and actively participate in professional and community organizations for the development of the specialty.
SPO8.	Advocate the specialty for the promotion and improvement of community health.
SPO9.	Show commitment to self-directed lifelong learning and update their knowledge and skills.
SPO10.	Possess a basic understanding of research methodology for developing research protocols in the specialty to fulfill community needs.
SPO11.	Demonstrate educational skills and techniques for teaching students.


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Master of Dental Surgery (MDS): Specific Program Outcomes

Subject: Periodontology

Sr. No.	Specific Program Outcome
	At the end of the MDS Program, the Post graduate student would be able to:
SPO1.	Apply the knowledge of basic medical and dental sciences to solve simple, complex or unique clinical problems in Periodontics.
SPO2.	Proficiently demonstrate a systematic clinical approach to diagnose periodontal clinical cases.
SPO3.	Provide periodontal care to a diverse population in a safe, ethical, legal, and socially acceptable manner.
SPO4.	Formulate and execute periodontal treatment strategies to address the unique needs of vulnerable and special care patients (with medical, physical, cognitive, emotional, or developmental challenges)
SPO5.	Communicate effectively with patients, caregivers, healthcare professionals, and support personnel as required for simple or complex periodontal clinical cases as well as interdisciplinary cases.
SPO6.	Integrate biomedical knowledge, best quality research, clinical expertise, and values to provide evidence-based periodontal healthcare comprising of modern treatments and ICT-enabled approaches.
SPO7.	Lead oral healthcare teams, collaborate with other healthcare providers for effectively providing advanced periodontal health care.
SPO8.	Promote periodontics for the improvement of community periodontal and oral health.
SPO9.	Possess lifelong commitment to learning and professional development.
SPO10.	Plan, execute, and disseminate research in Periodontology that aims to fulfill periodontal needs of the community.
SPO11.	Demonstrate educational skills and techniques for teaching students.


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Master of Dental Surgery (MDS): Specific Program Outcomes

Subject: Conservative Dentistry and Endodontics

Sr. No.	Specific Program Outcome
	At the end of the MDS Program, the Post graduate student would be able to:
SPO1.	Apply understanding of basic sciences relevant to the specialty of conservative dentistry and endodontics.
SPO2.	Demonstrate a systematic clinical approach to diagnose simple and complex clinical cases of the specialty of conservative dentistry and endodontics.
SPO3.	Demonstrate clinical proficiency to perform all levels of endodontic and restorative work, including Root canal treatments, retreatments, and complex procedures like endodontic surgeries and interdisciplinary cases.
SPO4.	Formulate and execute treatment strategies to address the unique needs of vulnerable and special care patients (with medical, physical, cognitive, emotional or developmental challenges)
SPO5.	Communicate effectively with patients, caregivers, and other health professionals for the clinical care of patients, including interdisciplinary cases.
SPO6.	Integrate biomedical knowledge, best quality research, clinical expertise, and values to provide evidence-based periodontal healthcare comprising modern treatments and ICT-enabled approaches.
SPO7.	Lead oral healthcare teams and collaborate with other healthcare providers for effectively providing patient care.
SPO8.	Advocate and promote the specialty for the improvement of community oral health.
SPO9.	Possess lifelong commitment to learning and professional development.
SPO10.	Possess a basic understanding of research methodology and biostatistics for developing and executing research in the specialty to fulfill community needs.
SPO 11	Demonstrate educational skills and techniques for teaching students.


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Master of Dental Surgery (MDS): Specific Program Outcomes

Subject: Oral and Maxillofacial Pathology

Sr. No.	Specific Program Outcome
	At the end of the MDS Program, the Post graduate student would be able to:
SPO1.	Demonstrate a thorough understanding of basic dental and medical sciences of oral and para-oral structures and tissues to solve simple to complex oral and maxillofacial pathological conditions.
SPO2.	Demonstrate competency and knowledge in analyzing etiopathogenesis, histopathology, clinical features, laboratory tests, and differential diagnosis of pathology affecting the oral and para-oral regions
SPO3.	Demonstrate knowledge of microbiological concepts relevant to oral health, including the identification of pathogenic microorganisms.
SPO4.	Foster critical thinking to assess and analyze complex clinical cases, applying evidence-based approaches to diagnose and manage simple to complex cases of oral and maxillofacial diseases/ pathologies.
SPO5.	Apply principles of Forensic odontology to estimate an individual's age based on dentition for forensic studies
SPO6.	Communicate effectively with patients, caregivers, and other health care professionals for reporting and managing the cases of oral and maxillofacial diseases/ pathologies.
SPO7.	Demonstrate skill in conducting original research independently, exploring contemporary oral pathology and microbiology, in a way that benefits the community.
SPO8.	Lead oral healthcare teams, collaborate with other healthcare providers to effectively diagnose a case, and aid in providing effective patient care.
SPO9.	Advocate and promote the specialty for the improvement of community oral health.
SPO10.	Possess lifelong commitment to learning and professional development.
SPO11.	Demonstrate educational skills and techniques for teaching students.


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Master of Dental Surgery (MDS): Specific Program Outcomes

Subject: Orthodontics and Dentofacial Orthopaedics

Sr. No.	Specific Program Outcome
	At the end of the MDS Program, the Post graduate student would be able to:
SPO1.	Apply the Knowledge of basic medical sciences relevant to the practice of Orthodontics and dentofacial orthopaedics.
SPO2.	Demonstrate knowledge and understanding of the effect of biologic processes and mechanical forces on the Stomatognathic system, required for undertaking orthodontic treatment.
SPO3.	Use appropriate basic and advanced orthodontic diagnostic aids in arriving at a confirmatory diagnosis through meticulous record and interpretation of the findings with the use of digital technology.
SPO4.	Identify various forms of Orthodontic and Dentofacial abnormalities and develop treatment options with possible solutions using best evidence-based approaches to provide holistic care in safe, ethical, legal, and socially acceptable manners.
SPO5.	Communicate effectively with patients, caregivers, healthcare professionals, and support personnel as required for simple or complex clinical cases as well as interdisciplinary cases.
SPO6.	Integrate biomedical knowledge, best quality research, clinical expertise, and values to provide evidence-based orthodontic care comprising modern treatments and ICT-enabled approaches.
SPO7.	Lead oral healthcare teams, collaborate with other healthcare providers for effectively providing complex orthodontic care.
SPO8.	Promote Orthodontics for the improvement of community oral health.
SPO 9.	Possess lifelong commitment to learning and professional development.
SPO 10	Plan, execute, and disseminate research in Orthodontics that aims to fulfill needs of the community.
SPO 11	Demonstrate educational skills and techniques for teaching students.


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