

**PROGRAM OUTCOME, PROGRAM SPECIFIC OUTCOME AND COURSE
OUTCOME IN MASTER OF DENTAL SURGERY PROGRAM**

PROGRAM	BRANCH	COURSE OUTCOME
Master Of Dental Surgery	Branch – I Prosthodontics And Crown And Bridge	<p>(A) KNOWLEDGE</p> <ol style="list-style-type: none"> 1. demonstrate understanding of basic sciences relevant to speciality; 2. describe etiology, pathophysiology, principles of diagnosis and management of common problems within the speciality in adults and children; 3. identify social, economic, environmental and emotional determinants in a given case and take them into account for planned treatment; 4. recognise conditions that may be outside the area of speciality or competence and to refer them to the concerned specialist; 5. update knowledge by self study and by attending courses, conferences and seminars pertaining to speciality; 6. undertake audit, use information technology and carry out research in both basic and clinical with the aim of publishing or presenting the work at various scientific gathering; <p>(B) ATTITUDE</p> <ol style="list-style-type: none"> 1. Adopt ethical principles in all Prosthodontic practice, Professional honesty and integrity are to be fostered. Treatment to be delivered irrespective of social status, caste, creed or religion of patient 2. Willing to share the knowledge and clinical experience with professional colleagues 3. Willing to adopt new methods and techniques in prosthodontics from time to time based on scientific research, which is in patient's best interest 4. Respect patient's rights and privileges including patient's right to information and right to seek second opinion <p>(C) SKILLS</p> <ol style="list-style-type: none"> 1. The candidate should be able to examine the patients requiring Prosthodontic therapy, investigate the patient systematically, analyse the investigation results, radiography, diagnose the ailment, plan a treatment, communicate it with the patient and execute it. 2. Understand the prevalence and prevention of diseases of craniomandibular system related to Prosthetic dentistry

		<ol style="list-style-type: none"> 2.The candidate should be able to restore lost functions of stomatognathic system namely mastication, speech, appearance and psychological comforts. 3.By understanding biological, biomedical, bioengineering principles and systemic condition of the patient to provide a quality health-care of the craniofacial region 4.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 speciality area 5.Identify target diseases and awareness amongst the population for Prosthodontic therapy. 6.Perform clinical and laboratory procedure with understanding of biomaterials, tissue conditions related to prosthesis and have competent dexterity and skill for performing clinical and laboratory procedures in fixed, removable, implant and maxillofacial TMJ, esthetics Prosthodontics 7.Laboratory technique management based on skills and knowledge of Dental Materials and dental equipment and instruments, management 8.To understand demographic distribution and target diseases of Cranio mandibular region related to Prosthodontic including crown & bridge and implantology.
--	--	---

Master Of Dental Surgery	Branch II - Periodontology	<p>(A) KNOWLEDGE</p> <p>Demonstrate understanding of basic sciences relevant to speciality. Update knowledge by self study and by attending courses, conference, seminars relevant to speciality.</p> <p>(B) ATTITUDE</p> <p>To develop the right attitude to share his knowledge and the willingness to learn the newer concepts so as to keep pace with current technology and development.</p> <p>(C) SKILLS</p> <ol style="list-style-type: none"> 1. Take a proper clinical history, examine the patient, perform essential diagnostic procedures and other relevant tests and interpret them to come to a reasonable diagnosis about the condition. 2. Acquire adequate skills and competence in performing various procedure required in the speciality. 3. Perform both non-surgical and surgical procedures independently 4. Provide Basic Life Support Service (BLS) recognizes the need for and advance life support and does the immediate need for that.
--------------------------------	-------------------------------	---

Master of Dental Surgery	Branch III – ORAL AND MAXILLOFACIAL SURGERY	<p>Knowledge</p> <p>To have acquired adequate knowledge and understanding of the etiology, pathophysiology and diagnosis, treatment planning of various common oral and Maxillofacial surgical problems, both minor and major in nature. To have understood the general surgical principles like pre-and post-surgical management, particularly evaluation, post-surgical care, fluid and electrolyte management, blood transfusion and post-surgical pain management. Understanding of basic sciences relevant to practice or oral and maxillofacial surgery. Able to identify social, cultural, economic, genetic and environmental factors and their relevance to disease process management in the oral and Maxillofacial region. Essential knowledge of personal hygiene and infection control, prevention and cross infection and safe disposal of hospital waste keeping in view the high prevalence of hepatitis and HIV.</p> <p>Skills</p> <p>To obtain proper clinical history, methodical examination of the patient, perform essential diagnostic procedures and order relevant laboratory tests and interpret them and to arrive at a reasonable diagnosis about the surgical condition. To perform with competence minor oral surgical procedures and common maxillofacial surgery. To treat both surgically and medically (or by other means of the oral and Maxillofacial and the related area). Capable of providing care for maxillofacial surgery patients.</p> <p>Attitude</p> <p>Develop attitude to adopt ethical principles in all aspect of surgical practice, professional honesty and integrity are to be fostered. Surgical care is to be delivered irrespective of the social status, caste,</p>
--------------------------	---	---

		<p>creed or religion of the patient. Willing to share the knowledge and clinical experience with professional colleagues. Willing to adopt new and techniques of surgical management developed from time to time based on scientific research which are in the best interest of the patient. Respect patient right and privileges, including patients right to information and right to seek a second opinion. Develop attitude to seek opinion from an allied medical and dental specialists as and when required.</p> <p>Communication skills</p> <p>Develop adequate communication skills particularly with the patients giving them the various options available to manage a particular surgical problem and obtain a true informed consent from them for the most appropriate treatment available at that point of time. Develop the ability to communicate with professional colleagues. Develop ability to teach undergraduates.</p>
--	--	---

Master of Dental Surgery	Branch IV – Conservative Dentistry and Endodontics	<p>(A) KNOWLEDGE</p> <ol style="list-style-type: none"> 1. To train the postgraduate student to master the chosen specialty in all disciplines and inculcate a quest for research and updation. 2. To acquire adequate knowledge, necessary skills and attitudes which are required for carrying out all the activities appropriate to general dental practice involving the prevention, diagnosis and treatment of anomalies and diseases of the teeth, mouth, jaws and associated tissues. 3. To provide critical knowledge and understanding of conservative dentistry and endodontics. 4. To train the students and equip with knowledge, attitude and skills necessary to carry out procedures in conservative dentistry and endodontics. 5. Learn the scientific and clinical basis of endodontics. 6. Establish a foundation of lifelong learning. <p>(B) ATTITUDE</p> <ol style="list-style-type: none"> 1. Attitude of empathy and concern for the well being of the patient. 2. To fine tune the necessary skills <p>(C) SKILLS</p>
--------------------------	--	---

	Branch V – Orthodontics and Dentofacial Orthopaedics	<p>KNOWLEDGE :</p> <ol style="list-style-type: none"> 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, economic, genetic and environmental factors and their relevance to management of oro-facial deformities
--	--	--

		<ol style="list-style-type: none"> 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. <p>ATTITUDES:</p> <ol style="list-style-type: none"> 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, or colleagues 4. 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 best interest of the patient 5. Respect patients rights and privileges, including patient right to information and right to seek a second opinion 6. Develop attitude to seek opinion from allied medical and dental specialities as and when required <p>SKILLS:</p> <ol style="list-style-type: none"> A. 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 Dentofacial deformities B. 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 orofacial deformities
--	--	---

Master of Dental Surgery	Branch VI - Oral And Maxillofacial Pathology And Oral Microbiology	<p>(A) KNOWLEDGE</p> <ol style="list-style-type: none"> 1. To demonstrate understanding of basic sciences relevant to speciality; 2. To describe aetiology, pathophysiology, 3. To identify social, economic, environmental and emotional determinants in a given case and take them into account for planned treatment; 4. To recognise conditions that may be outside the area of speciality or competence and to refer them to the concerned specialist; 5. update knowledge by self-study and by attending courses, conferences and seminars pertaining to speciality; 6. To undertake audit, use information technology and carry out research in both basic and clinical with the aim of publishing or presenting the work at various scientific gathering. <p>(B) ATTITUDE</p> <ol style="list-style-type: none"> 1. To adopt ethical principles while practicing Oral Pathology. 2. To inculcate professional honesty and exhibit integrity. 3. To treat patients regardless of social status, caste, creed or religion. 4. To share knowledge and clinical experience with professional colleagues. 5. To adopt new scientific methods and techniques in Oral Pathology while delivering patient care. 6. To respect patients right and privileges including patients right to information. 7. To render all possible help if the patient wish to seek second opinion. <p>(C) SKILLS</p> <ol style="list-style-type: none"> 1. Take 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. 2. Acquire adequate skills and competence in performing various procedures as required in the speciality.
--------------------------	--	--

Master of Dental Surgery	Branch VIII – Pediatric Dentistry	<p>(A) KNOWLEDGE</p> <ol style="list-style-type: none"> 1. demonstrate understanding of basic sciences relevant to speciality; 2. describe etiology, pathophysiology, principles of diagnosis and management of common problems within the speciality in adults and children 3. identify social, economic, environmental and emotional determinants in a given case and take them into account for planned treatment; 4. recognise conditions that may be outside the area of speciality or competence and to refer them to the concerned specialist; 5. update knowledge by self-study and by attending courses, conferences and seminars Pertaining to speciality; 6. undertake audit, use information technology and carry out research in both basic and Clinical with the aim of publishing or presenting the work at various scientific gathering; <p>(B) SKILLS</p> <ol style="list-style-type: none"> 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. <p>(C) HUMAN VALUES, ETHICAL PRACTICE AND COMMUNICATION ABILITIES.</p> <ol style="list-style-type: none"> 1. Develop an attitude to adopt ethical principles in all aspects of Paediatric dental practice.
--------------------------	-----------------------------------	--

		<ol style="list-style-type: none"> 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 patient's 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
--	--	--

Master of Dental Surgery	Branch IX - Oral Medicine And Radiology	<p>(A) KNOWLEDGE</p> <ol style="list-style-type: none"> 1. demonstrate understanding of basic sciences relevant to speciality. 2. describe etiology, pathophysiology, principles of diagnosis and management of common problems within the speciality in adults and children; 3. identify social, economic, environmental and emotional determinants in a given case and take them into account for planned treatment; 4. recognise conditions that may be outside the area of speciality or competence and to refer them to the concerned specialist; 5. update knowledge by self study and by attending courses, conferences and seminars pertaining to speciality; 6. undertake audit, use information technology and carry out research in both basic and clinical with the aim of publishing or presenting the work at various scientific gathering; <p>(B) ATTITUDE</p> <ol style="list-style-type: none"> 1. adopt ethical principles in all aspects of practice; 2. Foster professional honesty and integrity; 3. Deliver patient care irrespective of social status, caste, creed, or religion of the patient; 4. Develop communication skills, to explain various options available and obtain a true informed consent from the patient; 5. Provide leadership and get the best out of his team in a congenial working atmosphere; 6. Apply high moral and ethical standards while carrying out human or animal 7. Be humble and accept the limitations in his knowledge
--------------------------	---	---

		<p>and skill and to ask for help from colleagues when needed;</p> <p>8. Respect patient's rights and privileges including patient's right to information and right to seek a second opinion</p> <p>(C) SKILLS</p> <p>1. take a proper clinical history, examine the patient, perform essential diagnostic procedures and order relevant tests and interpret them to come to a reasonable diagnosis about the condition;</p> <p>2. acquire adequate skills and competence in performing various procedures as required in the speciality.</p>
--	--	---