



MANSAROVAR DENTAL COLLEGE

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

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

Tel: +91-9111777225, 761158888. Website: www.mansarovardentalcollege.com

2.6.3 Programme-specific learning outcomes



MANSAROVAR DENTAL COLLEGE

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

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

Tel: +91-9111777225, 761158888. Website: www.mansarovardentalcollege.com

LEARNING OUTCOME : BDS (Bachelor of Dental Surgery) – UG

PROGRAMME SPECIFIC OUTCOME

1- Knowledge And Understanding: (KU)

The graduate should acquire the following during the period of training.

KU.1 : Adequate knowledge of the scientific foundations on which dentistry is based and good understanding of various relevant scientific methods, principles of biological functions and be able to evaluate and analyse scientifically various established facts and data.

KU.2 : Adequate knowledge of the development, structure and function of the teeth, mouth and jaws and associated tissues both in health and disease and their relationship and effect on general state of health and also bearing on physical and social well being of the patient.

KU.3 : Adequate knowledge of clinical disciplines and methods which provide a coherent picture of anomalies, lesions and diseases of the teeth, mouth and jaws and preventive diagnostic and therapeutic aspects of dentistry.

KU.4 : Adequate clinical experience required for general dental practice.

KU.5 : Adequate knowledge of 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.

2- Skills: (S)

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

S.1 : Able to diagnose and manage various common dental problems encountered in general dental practice keeping in mind the expectations and the right of the society to receive the best possible treatment available wherever possible.

S.2 : Acquire the skill to prevent and manage complications if encountered while carrying out various surgical and other procedures.

S.3 : Possess skill to carry out certain investigative procedures and ability to interpret laboratory findings.

S.4 : Promote oral health and help prevent oral diseases where possible.

S.5 : Competent in the control of pain and anxiety among the patients during dental treatment.



MANSAROVAR DENTAL COLLEGE

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

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

Tel: +91-9111777225, 761158888. Website: www.mansarovardentalcollege.com

3- Attitudes and Values: (AV)

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

AV 1 : Willing to apply the current knowledge of dentistry in the best interest of the patients and the community.

AV 2 : Maintain a high standard of professional ethics and conduct and apply these in all aspects of professional life.

AV 3 : Seek to improve awareness and provide possible solutions for oral health problems and needs through out the community.

AV 4 : Willingness to participate in the CDE Programmes to update the knowledge and professional skill from time to time.

AV 5 : To help and participate in the implementation of the national oral health policy.



MANSAROVAR DENTAL COLLEGE

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

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

Tel: +91-9111777225, 761158888. Website: www.mansarovardentalcollege.com

2 PROGRAMME SPECIFIC OUTCOME – POST GRADVATE (MDS)

2.1 POST GRADUATE (MDS) – PERIODONTOLOGY

Programme Specific outcome and Assessment

PROGRAMME SPECIFIC OUTCOME	DOMAIN	LEVEL	ASSESSMENT METHODS
Etiology, pathogenesis, diagnosis and management of common periodontal diseases with emphasis on Indian population	KU	MK	Written exam/Viva Voce
Familiarize with the biochemical, microbiologic and immunologic genetic aspects of periodontal pathology	KU	MK	Written exam/Viva Voce
Various preventive periodontal measures	KU	MK	Written exam/Viva Voce
Treatment modalities of periodontal disease from historical aspect to currently available ones	KU	MK	Written exam/Viva Voce
Interrelationship between periodontal disease and various systemic conditions	KU	MK	Written exam/Viva Voce
Periodontal hazards due to estrogenic causes and deleterious habits and prevention of it	KU	MK	Written exam/Viva Voce
Rarities in periodontal disease and environmental/Emotional determinates in a given case	KU	MK	Written exam/Viva Voce
Recognize conditions that may be outside the area of his/her Speciality/competence and refer them to an appropriate Specialist	KU	K	Written exam/Viva Voce
Decide regarding non-surgical or surgical management of the case	KU	MK	Written exam/Viva Voce
Update the student by attending courses, conferences and seminars relevant to periodontics or by self-learning process.	KU	K	Written exam/Viva Voce



MANSAROVAR DENTAL COLLEGE

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

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

Tel: +91-9111777225, 761158888. Website: www.mansarovardentalcollege.com

Plan out/ carry out research activity both basic and clinical aspects with the aim of publishing his/her work in scientific journals	KU	MK	Written exam/Viva Voce
Reach to the public to motivate and educate regarding periodontal disease, its prevention and consequences if not treated	KU	E	Written exam/Viva Voce
Plan out epidemiological survey to assess prevalence and incidence of early onset periodontitis and adult periodontitis in Indian population (Region wise)	KU	K	Written exam/Viva Voce
Oral Implantology	KU/S	K	Written exam/Viva Voce
Principles of Surgery and Medical Emergencies.	KU	MK	Written exam/Viva Voce
Inter disciplinary approach towards the soft tissues of the oral cavity with the help of specialist from other departments.	KU	MK	Written exam/Viva Voce
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	S	E	OSPE/Viva Voce
Effective motivation and education regarding periodontal disease maintenance after the treatment	S	MK	OSPE
Perform both non-surgical & education regarding periodontal disease, maintenance after the treatment	S	E	Practical Exam/Viva Voce/OSPE/OSCE
Perform both non-surgical and surgical procedures independently	S	E	Practical Exam/Viva Voce/OSPE/OSCE
Provide Basic Life Support Service (BLS) recognizes the need for advance life support and does the immediate need for that.	S	MK	Viva Voce
Human values, ethical practice to communication abilities	KU/S	K	Viva Voce



MANSAROVAR DENTAL COLLEGE

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

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

Tel: +91-9111777225, 761158888. Website: www.mansarovardentalcollege.com

Adopt ethical principles in all aspects of treatment modalities	S	MK	Viva Voce
To learn the principal of lip repositioning and perio estheticssurgeries.		E	Practical Exam/Viva Voce/OSPE/OSCE



MANSAROVAR DENTAL COLLEGE

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

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

Tel: +91-9111777225, 761158888. Website: www.mansarovardentalcollege.com

2.2 POST GRADUATE (MDS) – PROSTHODONTICS AND CROWN & BRIDGE

Programme Specific outcome and Assessment

PROGRAMME SPECIFIC OUTCOME	DOMAIN	LEVEL	ASSESSMENT METHODS
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	KU	K	Written Exam
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.	KU	MK	Written Exam
Knowledge and practice of history taking, Diagnosis, treatment planning, prognosis, record maintenance of oral, craniofacial and systemic region.	KU	MK	Written Exam/Practical Exam(OSCE)/ Viva Voce
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	KU	E	Written Exam/Practical Exam(OSCE)/ Viva Voce
Instructions for patients in after care and preventive Prosthodontics and management of failed restorations shall be possessed by the students.	KU	E	Written Exam/Viva Voce



MANSAROVAR DENTAL COLLEGE

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

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

Tel: +91-9111777225, 761158888. Website: www.mansarovardentalcollege.com

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.	KU	MK	Written Exam/Viva Voce
Ability to diagnose and plan treatment for patients requiring Prosthodontic therapy	KU	MK	Written Exam/Practical Exam/ Viva Voce
Ability to read and interpret radiographs, and other investigations for the purpose of diagnosis and treatment planning.	KU	MK	Practical Exam(OSPE/ OSCE)
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	KU	MK	Written Exam/Viva Voce
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.	KU	MK	Written Exam / Viva Voce
Should have knowledge of age changes, geriatric psychology, nutritional considerations and prosthodontic therapy in the aged population.	KU	MK	Written Exam / Viva Voce
Should have ability to diagnose failed restoration and provide prosthodontic therapy and after care.	KU	E	DOPS
Should have essential knowledge onethics, laws, and Jurisprudence and Forensic Odontology in Prosthodontics.	KU	MK	Written Exam / Viva Voce



MANSAROVAR DENTAL COLLEGE

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

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

Tel: +91-9111777225, 761158888. Website: www.mansarovardentalcollege.com

Should know general health conditions and emergency as related to prosthodontics treatment like allergy of various materials and firstline management of aspiration of prosthesis	KU	MK	Viva Voce
Should identify social, cultural, economic, environmental, educational and emotional determinants of the patient and consider them in planning the treatment.	KU	K	DOPS/VivaVoce
Should identify cases, which are outside the area of his specialty / competence, refer them to appropriate specialists and perform interdisciplinary case management.	KU	MK	DOPS
To advice regarding case management involving surgical and interim treatment	KU	K	Written Exam / Viva Voce
Should be competent in specialization of team management in craniofacial prosthesis design.	KU	K	Written Exam / Viva Voce
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.	KU	K	Written Exam
Should attend continuing education programmes, seminars and conferences related to Prosthodontics.	KU	MK	DOPS
To teach and guide his/her team, colleagues and other students.	KU	K	DOPS
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.	KU	MK	DOPS



MANSAROVAR DENTAL COLLEGE

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

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

Tel: +91-9111777225, 761158888. Website: www.mansarovardentalcollege.com

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.	KU	MK	Written Exam/Viva Voce
Should have an ability to plan and establish Prosthodontics clinic/hospital teaching department and practice management.	KU	K	
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.	KU	K	Written Exam
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.	S/C	MK	Written Exam
To understand the prevalence and prevention of diseases of craniomandibular system related to prosthetic dentistry.	S	K	Written Exam
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.	S	E	OSCE
Demonstrate good interpersonal, communication skills and team approach in interdisciplinary care by interacting with other specialties including medical specialty for	S	MK	Practical Exam (OSPE/OSCE)



MANSAROVAR DENTAL COLLEGE

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

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

Tel: +91-9111777225, 761158888. Website: www.mansarovardentalcollege.com

planned team management of patients for craniofacial & oral acquired and congenital defects, temporomandibular joint syndromes, esthetics, Implant supported Prosthetics and problems of Psychogenic origins.			
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.	S	MK	Practical Exam (OSPE/OSCE)
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	S	MK	Written Exam/Viva Voce
Should be able to critically appraise articles published.	S	MK	DOPS
To identify target diseases and create awareness amongst the population regarding Prosthodontic therapy.	S	K	DOPS
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 Prosthodontics.	S	E	Practical Exam (OSPE/OSCE)



MANSAROVAR DENTAL COLLEGE

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

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

Tel: +91-9111777225, 761158888. Website: www.mansarovardentalcollege.com

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	S	MK	Practical Exam (OSPE/OSCE)/ Viva Voce
To understand demographic distribution and target diseases of Cranio mandibular region related to Prosthodontics.	S	K	Viva Voce
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.	A	K	DOPS
Should be willing to share the knowledge and clinical experience with professional colleagues.	A	MK	DOPS
Should develop an attitude towards quality, excellence, non-compromising in treatment.	A	MK	DOPS
Should be able to self-evaluate, reflect and improve on their own.	A	K	DOPS
Should pursue research in a goal to contribute significant, relevant and useful information, concept or methodology to the scientific fraternity.	A	K	Viva Voce/DOPS



MANSAROVAR DENTAL COLLEGE

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

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

Tel: +91-9111777225, 761158888. Website: www.mansarovardentalcollege.com

Should be able to demonstrate evidence-based practice while handling cases	A	K	DOPS
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.	A	K	DOPS
Should respect patient's rights and privileges, including patient's right to information and right to seek second opinion.	A	MK	DOPS
To develop communication skills, in particular and to explain treatment options available in the management.	C	MK	DOPS
To provide leadership and get the best out of his / her group in a congenial working atmosphere.	C	K	DOPS
Should be able to communicate in simple understandable language with the patient and explain the principles of prosthodontics to the patient.	C	MK	DOPS
To develop the ability to communicate with professional colleagues through various media like Internet, e-mails, videoconferences etc. to render the best possible treatment.	C	MK	DOPS
Should demonstrate good explanatory and demonstrating ability as a teacher in order to facilitate learning among students	C	K	DOPS



MANSAROVAR DENTAL COLLEGE

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

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

Tel: +91-9111777225, 761158888. Website: www.mansarovardentalcollege.com

2.3 Post Graduate (MDS) – Conservative Dentistry & Endodontics

Programme Specific outcome and Assessment

PROGRAMME SPECIFIC OUTCOME	DOMAIN	LEVEL	ASSESSMENT METHODS
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.	KU	E	Written Exam / Viva Voce
Demonstrate understanding of basic sciences as relevant to conservative /restorative dentistry and Endodontics.	KU	E	Written Exam / Viva Voce
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.	KU	MK	Written Exam / Viva Voce
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.	KU	E	Written Exam / Viva Voce
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.	KU	E	Viva Voce/DOPS
Ability to teach/guide, colleagues and other students.	KU	E	DOPS
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	S	E	Practical OSPE/OSCE



MANSAROVAR DENTAL COLLEGE

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

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

Tel: +91-9111777225, 761158888. Website: www.mansarovardentalcollege.com

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.			
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.	S	E	Practical Exam OSPE/OSCE
Provide basic life saving support in emergency situations.	S	MK	Problem Solving
Manage acute pulpal and pulpo periodontal situations.	S	E	Practical Exam OSPE/OSCE
Have a thorough knowledge of infection control measures in the dental clinical environment and laboratories.	S	E	Practical Exam / Viva Voce
Should have proper knowledge of sterilization procedures	S	E	Practical Exam / Viva Voce
Adopt ethical principles in all aspects of restorative and contemporary Endodontics including non-surgical and surgical Endodontics.	V/C	E	DOPS/Viva Voce
Professional honesty and integrity should be the top priority.	V/C	E	DOPS
Dental care has to be provided regardless of social status, caste, creed or religion of the patient.	V/C	E	DOPS
Develop communication skills in particular to explain various options available for management and to obtain a true informed consent from the patient.	V/C	E	DOPS
Apply high moral and ethical standards while carrying on human or animal research.	V/C	MK	DOPS
He/She shall not carry out any heroic procedures and must know his limitations in performing all aspects of restorative dentistry including Endodontics.	V/C	MK	DOPS
Respect patient's rights and privileges including patients right to information.	V/C	E	DOPS



MANSAROVAR DENTAL COLLEGE

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

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

Tel: +91-9111777225, 761158888. Website: www.mansarovardentalcollege.com

2.4 Post Graduate (MDS) – Orthodontics & Dentofacial Orthopedics

Programme Specific outcome and Assessment

PROGRAMME SPECIFIC OUTCOME	DOMAIN	LEVEL	ASSESSMENT METHODS
The dynamic interaction of biologic processes and mechanical forces acting on the stomatognathic system during orthodontic treatment	KU	E	Written Exam / Viva Voce
The etiology, pathophysiology, diagnosis and treatment planning of various common Orthodontic problems	KU	E	Written Exam / Viva Voce
Various treatment modalities in Orthodontics – preventive, interceptive and corrective.	KU	E	Written Exam / Viva Voce
Basic sciences relevant to the practice of Orthodontics	KU	MK	Written Exam / Viva Voce
Interaction of social, cultural, economic, genetic and environmental factors and their relevance to management of oro – facial deformities	KU	MK	Written Exam / Viva Voce
Factors affecting the long-range stability of orthodontic correction and their management	KU	E	Written Exam / Viva Voce
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.	KU	E	Written Exam / Viva Voce
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.	S	E	Practical Exam (OSCE/OSPE)
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.	S	E	Practical Exam (OSCE/OSPE)



MANSAROVAR DENTAL COLLEGE

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

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

Tel: +91-9111777225, 761158888. Website: www.mansarovardentalcollege.com

Develop an attitude to adopt ethical principles in all aspects of Orthodontic practice.	A	MK	DOPS/Viva Voce
Professional honesty and integrity are to be fostered	A	E	DOPS/Viva Voce
Treatment care is to be delivered irrespective of the social status, cast, creed and religion of the patients.	A	E	DOPS/Viva Voce
Willingness to share the knowledge and clinical experience with professional colleagues	A	E	DOPS/Viva Voce
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	A	E	DOPS/Viva Voce
Respect patients' rights and privileges, including patients right to information and right to seek a second opinion	A	E	DOPS
Develop attitude to seek opinion from allied medical and dental specialists as and when required	A	E	DOPS
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.	C	E	DOPS
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.	C	E	DOPS