


2.6.1

Methods of the assessment of learning outcomes and graduate attributes


DEPARTMENT OF ORAL MEDICINE AND RADIOLOGY:

The following are the questions that reveal the objectives of the course outcome of the subject of oral medicine and radiology. It is essential that every student should possess, acquire and develop the knowledge, skill and attitude in the areas that will be reflected by the questions given hereunder. Each area of requirements will be evaluated using specific assessment tools.

CODE	LEARNING OUTCOMES	GRADUATE ATTRIBUTES
CO1	Able to interpret diagnostic information from case histories, extra and intra oral examination.	Based on chair side discussion and viva voce
CO2	Identify the oral manifestation of systemic diseases.	Based on theory exams and assignments.
CO3	Formulate treatment strategies of common disorders of oral and paraoral structures.	Based on clinical assessment of case history taking and OSCE
CO4	Restate the observed information and findings to explain the disease process to patient effectively.	Based on Role play
CO5	Ability to suggest dental management for medically compromised patients	Based on chair side discussion
CO6	Have a knowledge of the basics of forensic odontology	Based on terminal exams , group discussion
CO7	To understand the basics of radiation physics, effects of radiation on living tissues and proper radiation safety measures	Based on MCQ's and viva voice


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CO8	Perform various intraoral radiographic techniques to produce quality intra oral radiographs	Based on DOPS, Role play
CO9	Identify the normal anatomic radiographic landmarks and interpret pathologies on an intraoral radiographs	Based on X-ray test, Group discussion
CO10	Identify and understand the indications of various extra oral radiographs in different maxillofacial pathologies	Based on MCQ's and viva voice
CO11	Have knowledge of various digital and advances in maxillofacial imaging	Based on terminal exams MCQ's
CO12	Reproduce the morphology of the permanent maxillary and mandibular teeth in wax blocks and illustrate the microscopic features of orofacial tissues.	Based on university practical examination


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DEPARTMENT OF PERIODONTICS

The following are the questions that reveal the objectives of the course outcome of the subject of Conservative Dentistry & Endodontics. It is essential that every student should possess, acquire and develop the knowledge, skill and attitude in the areas that will be reflected by the questions given hereunder. [Cognitive, psychomotor and affective domain]. Each area of requirements will be evaluated using specific assessment tools.

CODE	LEARNING OUTCOMES	GRADUATE ATTRIBUTES
CO1	Students have sufficient knowledge to differentiate between normal and abnormal periodontal conditions	Continuous assessment with theory classes on normal and diseased gingival and periodontal structures, MCQs and Terminal exams, Assignment / Google Classroom, Clinical assessment of the gingival changes and structures in patients.
CO2	Students have sufficient knowledge aetiopathogenesis of periodontal and peri-implant diseases. Able to identify the relationship between the periodontal diseases and various medical conditions.	Continuous assessment with MCQs & Quiz Theory Exams, Assignment / Google Classroom, Group Discussions.
CO3	Students have sufficient knowledge Diagnose and can provide appropriate treatment for the condition.	Continuous assessment with OSPE, Theory exams, Assignment / Google Classroom, Model assessment, Clinical Assessment and grading.

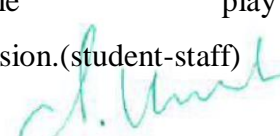

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CO4	Sufficient knowledge on ability to apply the appropriate diagnostic technique to diagnose periodontal diseases.	To continue in clinical case assessment, assisting, case recording.
CO5	Sufficient knowledge on how to Identify, plan and execute non-surgical and surgical periodontal treatment procedures.	To continue Clinical assessment of case sheet recording, Clinical cases Grading
CO6	Sufficient knowledge to communicate and demonstrate appropriate measures in the prevention of periodontal diseases.	Continuous assessment by OSPE, Role Play, Group discussion
CO7	Sufficient knowledge on inter-disciplinary approaches in periodontal/peri-implant therapy and referral to the specialist.	To continue in assisting in clinical cases and case discussions and involve more in Interdisciplinary treatments and co-ordinating with other departments.
CO8	Sufficient knowledge on how to assess and evaluate the performed treatment outcomes.	To continue in assisting in cases.
CO9	Sufficient knowledge on how to deliver oral health care to patients from different backgrounds, stages of life and in various settings.	Continue to involve students in attending camps and improve patient education and motivation skills.
CO10	Sufficient knowledge on how to implement an effective infection control and environmental safe.	To continue in educating sterilisation protocol and discussions.

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ORAL AND MAXILLOFACIAL SURGERY

The course outcome in Oral and Maxillofacial Surgery will be evaluated through the following questionnaire. The questionnaire will be applicable to every student to know their understanding, knowledge, ability to perform individually and ability to participate in a team through various teaching methods and the following assessment tools.

CODE	LEARNING OUTCOMES	GRADUATE ATTRIBUTES
CO1	To apply the knowledge gained from basic science and clinical subjects to perform clinical examination, arrive at a final diagnosis; plan the treatment and management of oral and maxillofacial problems.	<ul style="list-style-type: none"> • Theory classes Periodic assessments, • Terminal exams marks • Viva-voce • Small group discussions, • Department Outpatient management.
CO2	Competently diagnose and treat medically compromised patients with minor oral surgical problems and manage medical emergencies if any during the procedures.	<ul style="list-style-type: none"> • Theory classes, • Skills lab • Basic life support • Small group discussions
CO3	Perform competently extraction of tooth/teeth under local/general anesthesia with prescription of medications, post extraction instructions and proper follow-up care.	<ul style="list-style-type: none"> • Terminal exams marks • Viva-voce • Small group discussions • Flash – cards.
CO4	Management of intra/post-operative complications with referral to an Oral and Maxillofacial Surgeon as required.	<ul style="list-style-type: none"> • Skills lab • Small group discussion • Direct Observation of Procedure
CO5	To develop communication skills and compassion towards the patient for establishing better patient-doctor relationship.	<ul style="list-style-type: none"> • Role play session.(student-staff) 

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CO6	Ability to carry out simple minor oral surgical procedures such as alveoloplasty, frenectomy, incision and drainage, dental wiring and biopsy.	<ul style="list-style-type: none"> • Outpatient training • Pre-clinical activity • Skills lab attendance.
CO7	To keep abreast with the recent advances in the specialty of Oral and Maxillofacial Surgery such as dental implants, laser and cryotherapy.	<ul style="list-style-type: none"> • Flash – cards • Innovative teaching • Department CDE Programme
CO8	To Understand the management of major oral surgical problems and principles involved in the management of hospitalized patients.	<ul style="list-style-type: none"> • Major OT assistance • casualty posting attendance
CO9	Ability to understand and effectively communicate with peers and professionals.	<ul style="list-style-type: none"> • Role Play • Peer Assisted Learning • Journal Club Presentation • Seminar Presentation
CO10	Ability to gain knowledge and show interest in research activities.	<ul style="list-style-type: none"> • Student research activity • Model preparation /student projects


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DEPARTMENT OF PUBLIC HEALTH DENTISTRY

The following are the questions that reveal the objectives of the course outcome of the subject of Public Health Dentistry. It is essential that every student should possess, acquire and develop the knowledge, skill and attitude in the areas that will be reflected by the questions given hereunder. [Cognitive, psychomotor and affective domain]. Each area of requirements will be evaluated using specific assessment tools.

CODE	LEARNING OUTCOMES	GRADUATE ATTRIBUTES
CO1	Knowledge on community health problem	Based on terminal paper / test
CO2	Promotion of patient's oral health	Based on Oral health education
CO3	Ability to conduct clinical examination including all diagnostic procedure to arrive diagnosis and treatment planning	Based on Case history taking
CO4	Interest to update on advancement in preventive dentistry	Based on No. of. Workshop / CDE program attended
CO5	Attitude to widen horizon on research methodology	Evaluation based on No. of. Publication / research involvement data collection
CO6	Application of biostatistics	Evaluation based on Test paper and viva


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CO7	To quantify oral health burden	Based on taking indices
CO8	Application of oral health promotions towards patient care	Based on Health educated aids
CO9	Interest towards competition	Participation in various national and international conference and participation in CSM
CO10	Applications of epidemiology	Based on undertaking research study

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DEPARTMENT OF ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS

The following are the questions that reveal the objectives of the course outcome of the subject of Conservative Dentistry & Endodontics. It is essential that every student should possess, acquire and develop the knowledge, skill and attitude in the areas that will be reflected by the questions given hereunder. [Cognitive, psychomotor and affective domain]. Each area of requirements will be evaluated using specific assessment tools.

CODE	LEARNING OUTCOMES	GRADUATE ATTRIBUTES
CO1	Students to have sufficient knowledge regarding diagnosis, prevention and treatment of anomalies and diseases of the teeth.	Continuous assessment with Theory classes, Terminal exams, Seminars to be done.
CO2	To improve students' skill in diagnostic procedures.	To concentrate more on conducting MCQs & Quiz, Clinical assessment of and recording, Small Group Discussions.
CO3	To improve knowledge in cephalometric and extra oral radiographs.	To conduct more Small Group Discussions & Grading, Clinical Assessment
CO4	To improve knowledge on growth and development of an individual.	To concentrate more in Theory classes, Terminal exams, Quiz


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CO5	Students have adequate communication skills with the patient and were able to motivate them while undergoing treatment.	Continuous assessment by Clinical assessment of case sheet recording, Role Play
CO6	To adequate knowledge on preventive and interceptive procedures.	Continuous assessment by OSPE, Role Play, Group discussion
CO7	To improve knowledge on Interdisciplinary treatment planning.	Involve students more in assisting in clinical cases and case discussions and involve more in Interdisciplinary treatments and co-ordinating with other departments.
CO8	Adequate knowledge on fabrication and activation of removable appliance.	To continue in assisting cases and fabrication and activation of removable appliance
CO9	To improve knowledge about fixed appliance and assist in fixed appliance cases.	To involve students more in fixed appliance cases assisting the case and understanding the basic bio-mechanics.
CO10	To update knowledge on recent advances	Conduct more seminars and discussions to make them gain knowledge about the recent advances.



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DEPARTMENT OF PEDIATRIC AND PREVENTIVE DENTISTRY

The following are the objectives of the course outcome of Pediatric and Preventive Dentistry. It is essential that every student should possess, acquire and develop the knowledge, skill and attitude [cognitive psychomotor and affective domain]. This will be evaluated by the questions given below using specific assessment tools.

CODE	LEARNING OUTCOMES	GRADUATE ATTRIBUTES
COD1	Demonstrate the principles of Pediatric and Preventive dentistry right from birth to adolescence, including those with special health care needs.	-Theory classes on various topics -Periodic assessment through written examinations and MCQ.
COD2	Elicit detailed case history and methodological; examination of the child patient, perform essential diagnostic procedures and interpret them, arrive at a reasonable diagnosis and formulate comprehensive treatment plan and treat appropriately.	- OSPE (Detailed Case history including History, Clinical examination, investigations & Treatment planning)
COD3	Relate the current concepts of caries and its underlying causative factors in a child, and to implement timely effective management strategies.	-Microteaching -Peer Assisted Learning
COD4	Master the use of various restorative materials used in children, including semi-permanent, stainless steel crowns ,restorations, and esthetic crowns along with recent advances	-Preclinical (IIIrd year students) & Clinical – Demonstration -Small Group Learning -Case Based Learning
COD5	Diagnose, prevent and intercept developing dental health problems in the ,including malocclusions	-OSPE -OSCE -Mind Mapping


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		- Viva Voce
COD6	Understand basics of growth and development ,psychology and behavior of children and display the strategies for the management in the dental clinic	-Micro Teaching -OSPE -OSCE
COD7	Identify morphology of primary and permanent root canal, pulpal and periapical diseases and perform pulp therapy techniques	-OSPE -OSCE - Problem Based Learning
COD8	Master exodontias and LA techniques for the children	-Clinical Demonstration -Case Based Learning
COD9	Describe salient features of gingival and periodontium in primary dentition and summarize management of common gingival and periodontal diseases in the children	-Clinical Demonstration -Case Based Learning -Viva Voce
COD10	Demonstrate the management of the disabled children effectively and efficiently, tailored to the need of individual requirement and conditions.	-Problem Based Learning -Case Based Learning
COD11	Understand the etiology, prevention and management of common dental injuries in children	-Mind Mapping -Problem Based Learning -Case Based Learning - Viva Voce
COD12	Develop and deliver oral health education and participate in school dental health program	-Screening & Treatment school camps.

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DEPARTMENT OF ORAL PATHOLOGY:

The following are the questions that reveal the objectives of the course outcome of the subject of oral pathology. It is essential that every student should possess, acquire and develop the knowledge, skill and attitude in the areas that will be reflected by the questions given hereunder. Each area of requirements will be evaluated using specific assessment tools.

CODE	LEARNING OUTCOMES	GRADUATE ATTRIBUTES
COD1	Describe the pathological processes, clinical manifestations, radiographic features, histopathological features, biochemical features, differential diagnosis, and treatment of diseases, affecting the hard and soft tissues of the oral cavity.	Based on terminal exam
COD2	Describe the classification, etiology, etiopathogenesis, clinical features, histological features, lab investigation, special investigation of benign and malignant tumours involving oral and para oral structures	Based on terminal exam
COD3	Apply the basic concepts and methods of forensic odontology in comparative human identification.	Based on terminal exam
COD4	Illustrate the microscopic features of common lesions affecting the oral tissues by evaluating the gross features and microscopic /projection slides of surgical specimens.	Based on university practical examination


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DEPARTMENT OF DENTAL ANATOMY EMBRYOLOGY AND ORAL HISTOLOGY:

The following are the questions that reveal the objectives of the course outcome of the subject of dental anatomy embryology and oral histology. It is essential that every student should possess, acquire and develop the knowledge, skill and attitude in the areas that will be reflected by the questions given hereunder. Each area of requirements will be evaluated using specific assessment tools.

CODE	LEARNING OUTCOMES	GRADUATE ATTRIBUTES
COD1	Relate the morphological features' of primary and permanent teeth its chronology, sequence of eruption, occlusion and variations in morphology.	Based on terminal exam
COD2	Illustrate the development, physical and chemical properties, clinical appearance, histopathological features', and clinical correlation of orofacial tissues.	Based on terminal exam
COD3	Describe the laboratory techniques involved in routine soft tissues and hard tissue processing.	Based on terminal exam
COD4	Reproduce the morphology of the permanent maxillary and mandibular teeth in wax blocks and illustrate the microscopic features of orofacial tissues.	Based on university practical examination



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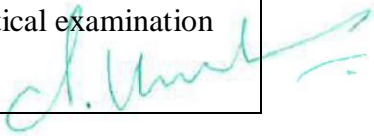
DEPARTMENT OF PRE-CLINICAL CONSERVATIVE

The objectives of the course outcome for preclinical conservative was assessed in 5 different aspects.

The calculated values will show the

1. The general performance of the department in achieving the expected outcome of the course
2. Area in which the expected outcome has not been achieved to satisfaction and needs improvement. Methods can be planned to improve the area and periodically assessed.


CODE	LEARNING OUTCOMES	GRADUATE ATTRIBUTES
COD1	The student is able to carry out basic preclinical exercises pertaining to cavity preparation in maniquins and typhodonts applying principles of cavity preparation.	Based on terminal exam
COD2	The student is able to carry out procedures related to restorative dentistry like bas application, matricing and wedging followed by appropriate restoration.	Based on terminal exam
COD3	The student has a basic knowledge of the various types of restorative materials indicated for various pathologies of hard tissues and location of the tooth in the dental arches.	Based on terminal exam
COD4	The student is able to judiciously dispense and manipulate the materials.	Based on terminal exam
COD5	The student is able to apply the knowledge of ergonomics and chair positions including positioning of the patient.	Based on university practical examination


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DEPARTMENT OF PRECLINICAL PROSTHODONTICS

The following are the questions that reveal the objectives of the course outcome of the subject of preclinical prosthodontics. It is essential that every student should possess, acquire and develop the knowledge, skill and attitude in the areas that will be reflected by the questions given hereunder. Each area of requirements will be evaluated using specific assessment tools.


CODE	LEARNING OUTCOMES	GRADUATE ATTRIBUTES
COD1	The student is able to carry out basic preclinical exercises pertaining to removable prosthesis using simulated dentulous and edentulous models with concepts of biomechanics, principles of aesthetics and clinical application	Based on Evaluation of preclinical basic exercise completion out of total of 5 exercises
COD2	The student is able to carry out preclinical laboratory procedures pertaining to stepwise complete denture fabrication using simulated completely edentulous models.	Based on Evaluation of teeth setting exercises completion out of total of 8
COD3	The student has a basic knowledge about all preclinical exercises and is able to clinically correlate them.	Based on University exam marks
COD4	The student is able to select and use dental material carefully, without wastage.	Based on Evaluation of material wastage


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DEPARTMENT OF DENTAL MATERIALS

The following are the questions that reveal the objectives of the course outcome of the subject of Dental materials. It is essential that every student should possess, acquire and develop the knowledge, skill and attitude in the areas that will be reflected by the questions given hereunder. Each area of requirements will be evaluated using specific assessment tools.

CODE	LEARNING OUTCOMES	GRADUATE ATTRIBUTES
COD1	The general performance of the department in achieving the expected outcome of the course	Based on University exam marks
COD2	Area in which the expected outcome has not been achieved to satisfaction and needs improvement. Methods can be planned to improve the area and periodically assessed.	Based on University exam marks
COD3	The student has acquired knowledge of the composition, properties, application, manipulative variables, and recent advances of dental	Based on University exam marks
COD4	The students has developed the ability to use dental materials which will include the manipulation through laboratory exercises	Based on University exam marks
COD5	The student is now able to use dental material carefully, without wastage	Based on University exam marks


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DEPARTMENT OF CONSERVATIVE DENTISTRY AND ENDODONTICS:

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CODE	LEARNING OUTCOMES	GRADUATE ATTRIBUTES
COD1	Possess sufficient knowledge regarding diagnosis, prevention and treatment of anomalies and diseases of the teeth related to conservative dentistry and endodontics.	Continuous assessment with Written examinations and viva voce, theory classes pertaining to subject, utilization of assisted learning methods like small group discussions, jigsaw puzzles, mind and concept mapping.
COD2	Acquire necessary skill to perform diagnostic procedures, preventive and restorative treatment of anomalies and diseases of the teeth related to conservative dentistry and endodontics.	Practical examinations in mannequin and patient.
COD3	Develop knowledge, artistry and attitude to carry out contemporary diagnostic procedures, preventive care and basic aesthetic treatment of anomalies and diseases of the teeth related to conservative dentistry and endodontics without bias.	DOPS, Case quota completion as per the guidelines framed by the DCI and the Tamilnadu Dr MGR Medical University and Simulation based learning, periodic guest lectures on relevant topics.
COD4	Apply basic knowledge of anatomy, physiology and biomechanical properties of teeth, biomaterials and associated tissues for restorative treatment and endodontics.	Viva Voce, pre-clinical training in II BDS followed by Clinical postings in third year and final year BDS.


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COD5	Acquire sufficient proficiency in diagnosis of developing lesion using advanced diagnostic aids like pulp tester and digital devices and institute preventive measures	Flash cards, quizlet, peer assisted learning to train undergraduates to perform basic diagnostic tests like thermal and electric pulp testing, training to take digital radiographs.
COD6	Acquire basic knowledge of etiology, prevention, interception and management of caries and non-carious lesion of teeth.	Theory classes integrated with participatory learning, problem based learning and experiential learning. Assessment of the learning process using OSCE and OSPE.
COD7	Communicate effectively and sensitively to the patients and public regarding retaining their teeth for their lifetime.	Training to perform outpatient diagnosis and disposal and students made to participate in camps as a part of their routine curriculum (Extension activities). Students trained to educate patients using models and videos.
COD8	Possess basic knowledge of pulpal and periapical diseases and their treatment modalities.	Problem based learning and spotters
COD9	Acquire sufficient skill to perform basic endodontic procedures.	Pre-clinical training to perform all basic endodontic procedures
COD10	Identify difficulty levels of endodontic treatment requiring specialist care.	Training to record proper medical case history and assess difficulty level of handling cases. Interns are posted under PGs to assist them.

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DEPARTMENT OF PROSTHODONTICS AND CROWN & BRIDGE


The following are the questions that reveal the objectives of the course outcome of the subject of Prosthodontics and Crown & Bridge. It is essential that every student should possess, acquire and develop the knowledge, skill and attitude in the areas that will be reflected by the questions given hereunder. [Cognitive, psychomotor and affective domain]. Each area of requirements will be evaluated using specific assessment tools.

CODE	LEARNING OUTCOMES	GRADUATE ATTRIBUTES
COD1	Apply basic medical and dental sciences to the practice of clinical prosthodontics	Based on University exam monthly test
COD2	Examine the patients requiring Prosthodontics therapy, investigate the patient systemically, analyse the investigation results, radiography, diagnose the ailment, plan a treatment, communicate it with the patient and execute it. Identify cases, which are outside the area of his specialty/ competence and refer them to appropriate specialists.	Based on evaluation of clinical case presentation
COD3	Perform clinical and laboratory procedure with an understanding of biomaterials and oral conditions related to the prosthesis and have competent dexterity and skill for performing clinical and laboratory procedures in fixed and removable prosthodontics.	Based on evaluation based on clinical and lab work
COD4	Restore lost functions of Stomatognathic system namely mastication, speech, appearance and psychological comforts, by understanding prosthodontic principles and provide a quality health care to the patient.	Based on chair side evaluation.

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COD5	Acquire essential knowledge of personal hygiene, infection control, prevention of cross infection and safe disposal of waste, keeping in view the risks of transmission of Hepatitis, HIV and COVID.	Evaluation based on chair side observation and sterilization record
COD6	Knowledge on ethics, respect patient's rights and privileges including patients right to information, decision making and right to seek the second opinion.	Evaluation based on viva and patient interaction
COD7	Communicate in simple understandable language with the patient and educate the patient on consequences of tooth loss, importance of replacement of teeth and proper maintenance care instructions. . He should be able to guide and counsel the patient with regard to various treatment modalities available. Develop the ability to communicate with professional colleagues and render the best possible treatment.	Based on Patient interaction.


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