

**TAGORE DENTAL COLLEGE AND
HOSPITAL**

**PROGRAM OUTCOME AND
COURSE OUTCOME FOR
ACADEMIC YEAR 2021**



**AFFILIATED TO THE TAMILNADU
DR MGR MEDICAL UNIVERSITY**

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LAYING THE PROGRAM AND COURSE OUTCOME:

During the 5 years tenure of the students as undergraduate, they are objectively assessed for their knowledge, learning and skill using terminal exams and practical exams. The assessment is continuous. Individual departments lay down their outcomes based on the syllabus of the subjects. The faculties assign a score for each outcome based on their performance in the various domains laid by the departments.

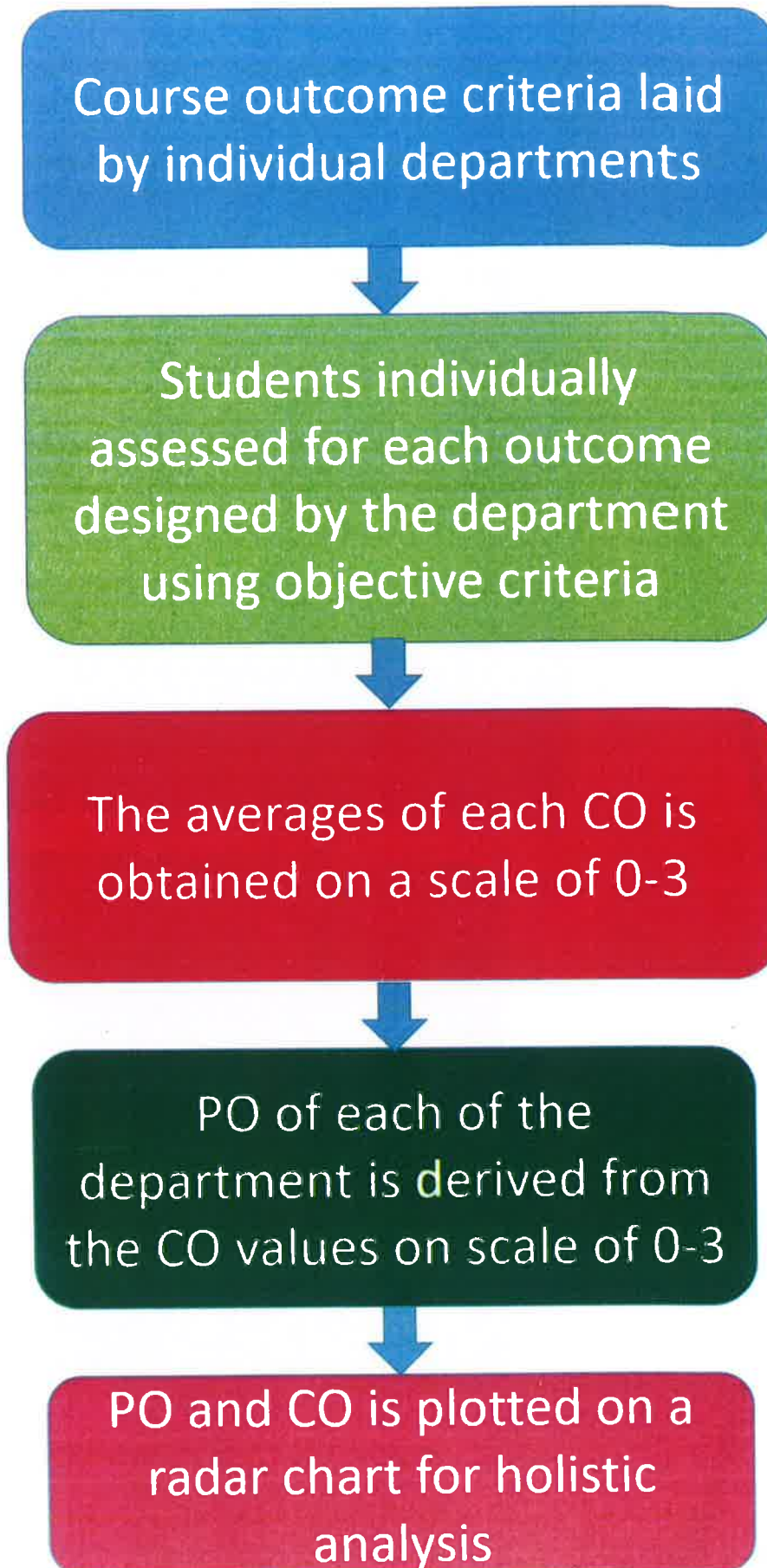
Workflow of the course and program outcome:

Programme Outcome After successful completion of degree program in BDS, the graduate should be able to:

1. Describe normal and abnormal human structure, development, function and behaviour that is relevant to the practice of Dentistry.
2. Apply basic knowledge of biomedical, technical and clinical sciences for the effective practice of Dentistry.
3. Elicit detailed dental and medical history, perform an oral and general physical examination and choose relevant laboratory diagnostic tests for identification of oral disorders, prevention of oral disease and promotion of oral health.
4. Demonstrate the ability to interpret available clinical and laboratory data and effective clinical problem solving, in order to generate differential diagnoses and to manage oral health disorders.
5. Perform and interpret a basic oral radiological examination safely.
6. Plan and administer, safely, appropriate treatments, including surgical procedures, for common oral disorders in adults as well as children.
7. Identify and manage common medical emergencies encountered in general dental practice.
8. Identify and refer patients who may require specialist care.
9. Demonstrate knowledge of global and national needs, policies and regulatory frameworks relevant to oral health.
10. Function effectively as an oral health care team member in health care settings.
11. Communicate effectively and sensitively with patients, caregivers, colleagues and the public in a manner that will improve health care outcomes and patient / client satisfaction.

12. Demonstrate the ability to continue refining existing knowledge / skills and acquire new knowledge/skills by actively participating in continuing dental education programmes.
13. Select and pursue an appropriate career pathway that is professionally rewarding and personally fulfilling.
14. Recognize and manage medico-legal, ethical and professional issues in dental practice.
15. Demonstrate and practice integrity, responsibility, respect and selflessness.

Value range	Grading
0	Nil
0.1-1	Average
1.1-2	Moderate
2.1-3	Substantial



GAP ANALYSIS

Course outcomes of each department is obtained for each domain assigning a values between 0 and 3

The lacunae/gap in each outcome is assessed by the curriculum committee

The departments are notified about the gap in the outcomes through the IQAC

A corrective action plan is formulated for each gap

Modification in curriculum delivery

Review of the gaps



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.

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.
-
1. CO1 Able to interpret diagnostic information from case histories, extra and intra oral examination.
Based on chair side discussion and viva voce
 2. CO2 Identify the oral manifestation of systemic diseases.
Based on theory exams and assignments.
 3. CO3 Formulate treatment strategies of common disorders of oral and paraoral structures.
Based on clinical assessment of case history taking and OSCE
 4. CO4 Restate the observed information and findings to explain the disease process to patient effectively.
Based on Role play
 5. CO5 Ability to suggest dental management for medically compromised patients
Based on chair side discussion
 6. CO6 Have a knowledge of the basics of forensic odontology
Based on terminall exams , group discussion

7. 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

8. CO8 Perform various intraoral radiographic techniques to produce quality intra oral radiographs

Based on DOPS, Role play

9. CO9 Identify the normal anatomic radiographic landmarks and interpret pathologies on an intraoral radiographs

Based on X-ray test, Group discussion

10. CO10 Identify and understand the indications of various extra oral radiographs in different maxillofacial pathologies

Based on MCQ's and viva voice

11. CO11 Have knowledge of various digital and advances in maxillofacial imaging

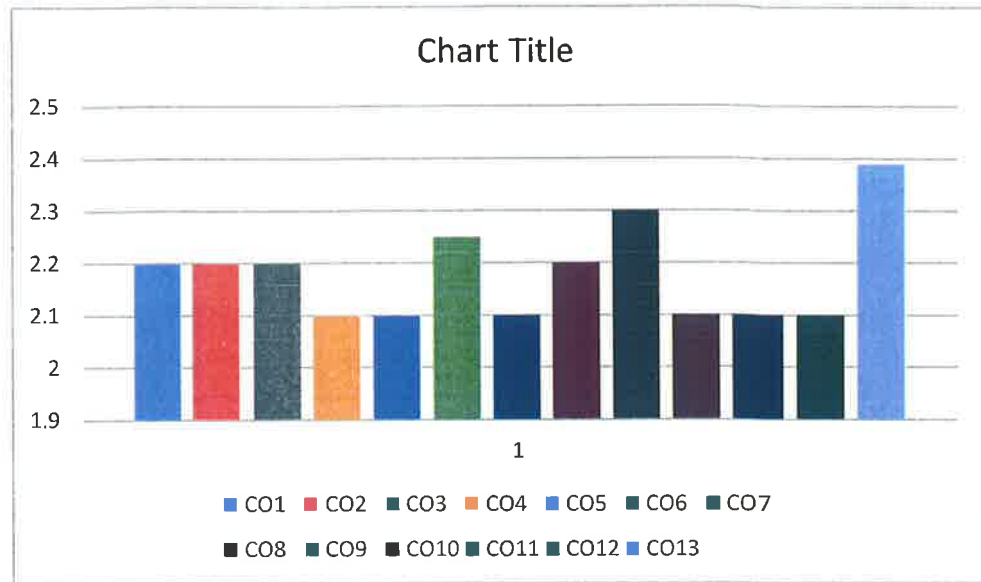
Based on terminal exams MCQ's

12. 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

Analysis of the report:

The course outcome of the subject was assessed in various dimensions namely diagnosis, clinical application of basic knowledge of anatomy and pathology in the sphere of treatment planning, ability to utilize diagnostic aids, effective patient communication, aetiopathogenesis of diseases, and knowledge about referral. The outcome was assessed based on 4 different domains. The average values of the domains was 2.1, procuring an overall rating of substantial. This data reveals the learning outcomes are holistic and delivery of curriculum is adequate. The teaching methods may be further emphasized to target the ceiling score of 3. The chart below shows the values of the various domains assessed.



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.

COURSE OUTCOME 1 – Overall score (2.4) Substantial; 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.

COURSE OUTCOME 2- Overall score (2.4) Substantial; students have sufficient knowledge aetiopathogenesis of periodontal and peri-implant diseases. Able to identify the relationship between the periodontal diseases and various medical conditions.


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Continuous assessment with MCQs & Quiz Theory Exams, Assignment / Google Classroom, Group Discussions.

COURSE OUTCOME 3- Overall score (2.6) Substantial; 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.

COURSE OUTCOME 4- Overall score (2.5) Substantial; sufficient knowledge on ability to apply the appropriate diagnostic technique to diagnose periodontal diseases.

To continue in clinical case assessment, assisting, case recording.

COURSE OUTCOME 5- Overall score (2.5) Substantial; 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

COURSE OUTCOME 6- Overall score (2.5) Substantial; sufficient knowledge to communicate and demonstrate appropriate measures in the prevention of periodontal diseases.

Continuous assessment by OSPE, Role Play, Group discussion

COURSE OUTCOME 7- Overall score (2.6) Substantial; sufficient knowledge on interdisciplinary 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.

COURSE OUTCOME 8- Overall score (2.5) Substantial; sufficient knowledge on how to assess and evaluate the performed treatment outcomes.

To continue in assisting in cases.

COURSE OUTCOME 9- Overall score (2.6) Substantial; sufficient knowledge on how to deliver oral health care to patients from different backgrounds, stages of life and in various settings.

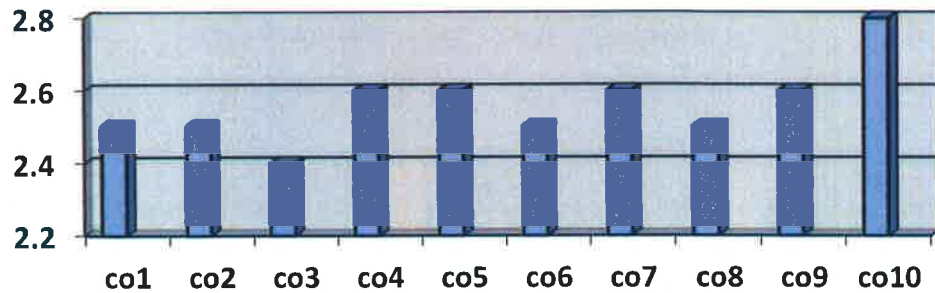
Continue to involve students in attending camps and improve patient education and motivation skills.

COURSE OUTCOME 10- Overall score (2.8) Substantial; sufficient knowledge on how to implement an effective infection control and environmental safe.

To continue in educating sterilisation protocol and discussions.

Analysis of the report:

The course outcome of the subject was assessed in various dimensions namely diagnosis, clinical application of basic knowledge of anatomy and pathology of the periodontium, ability to diagnose the underlying cause of the diseases, ability to utilize various diagnostic aids ,various methods of treatment planning and treatment procedures, effective patient communication, , and knowledge about referral. The outcome was assessed based on 10 different domains. The average values of the domains ranged around 2.5, procuring an overall rating of substantial. This data reveals the learning outcomes and delivery of curriculum is adequate. The teaching methods may be further emphasized to target score of 3. The chart below shows the values of the various domains assessed.



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ORAL AND MAXILLOFACIAL SURGERY

COURSE OUTCOME EVALUATION

The course outcome in Oral and Maxillofacial Surgery will be evaluated through the following questionnaire.

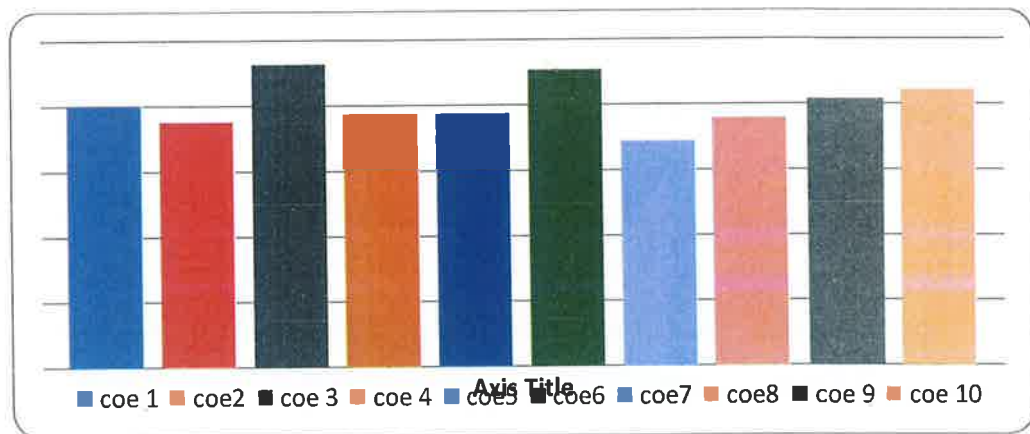
The questionnaire will be applicable to every student to know their understanding, knowledge, ability to perform individually and ability to participate in a team through various teaching methods and the following assessment tools.

CODE	NAME OF THE SKILL	ASSESSMENT TOOL
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)
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

Analysis of the report:

The course outcome of the subject was assessed in various dimensions namely diagnosis, clinical application of basic knowledge in diagnosis of maxillofacial problems , manage medical emergencies, competently perform extraction of teeth, to carry out simple minor oral surgical procedures such as alveoloplasty, frenectomy, incision and drainage, dental wiring, biopsy. Management of major oral surgical problems and principles involved in the management of hospitalized patients. Their ability to understand and effectively communicate with peers and professionals and ability to gain knowledge and show interest in research activities. The outcome was assessed based on 10 different domains. The average values of the domains ranged around 2.2, procuring an overall rating of moderate to good. This scoring achieved by our students shows that the syllabus and curriculum followed by our Department is providing good exposure to Knowledge and Skills development for our students. Delivery of skills and knowledge to our students to achieve an even better score will be the ideal outcome of this exercise.



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.

The calculated values will show: 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.

1. CO1 Knowledge on community health problem
Based on terminal paper / test
2. CO2 Promotion of patient's oral health
Based on Oral health education
3. CO3 Ability to conduct clinical examination including all diagnostic procedure to arrive diagnosis and treatment planning
Based on Case history taking
4. CO4 Interest to update on advancement in preventive dentistry
Based on No. of. Workshop / CDE program attended
5. CO5 Attitude to widen horizon on research methodology
Evaluation based on No. of. Publication / research involvement data collection
6. CO6 Application of biostatistics.
Evaluation based on Test paper and viva
7. CO7 To quantify oral health burden
Based on taking indices
8. CO8 Application of oral health promotions towards patient care
Based on Health educated aids

9. CO9 Interest towards competition

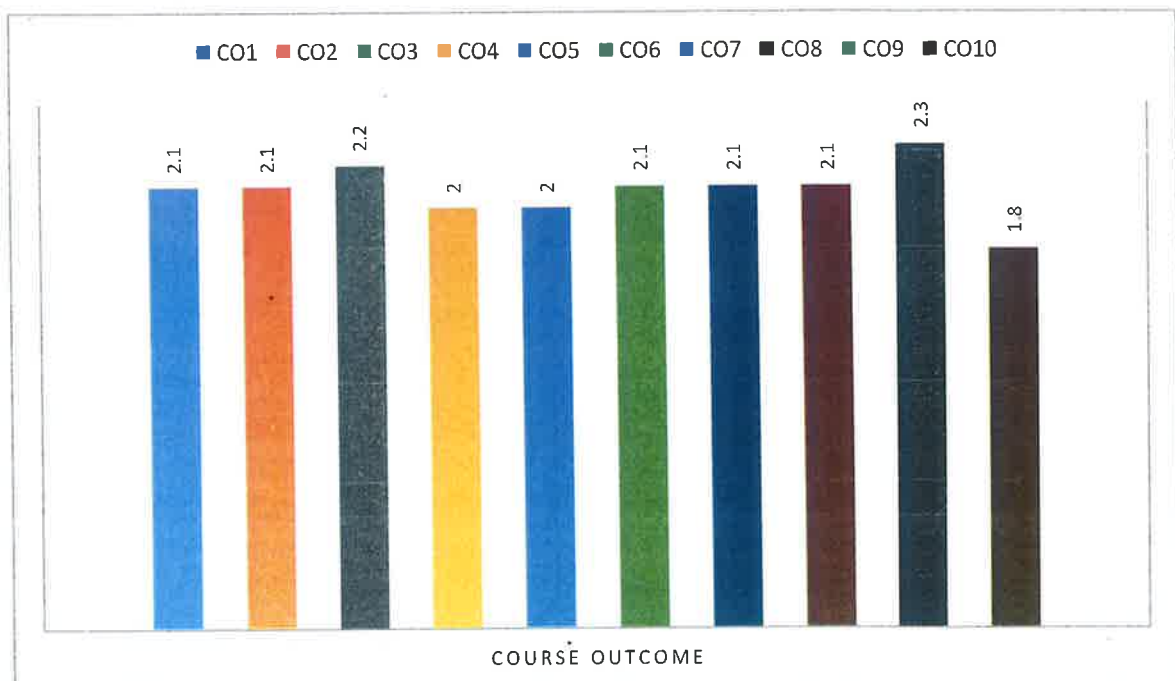
Participation in various national and international conference and participation in CSM

10. CO10 Applications of epidemiology

Based on undertaking research study

Analysis of the report:

The course outcome of the subject was assessed in various dimensions namely diagnosis, clinical application of basic knowledge of anatomy and pathology in the sphere of treatment planning, ability to utilize diagnostic aids, effective patient communication, aetiopathogenesis of diseases, and knowledge about referral. The outcome was assess based on 10 different domains. The average values of the domains ranged around 2, procuring an overall rating of moderate to substantial. This data reveals the learning outcomes are holistic and delivery of curriculum is adequate. The teaching methods may be further emphasized to target the ceiling score of 3. The chart below shows the values of the various domains assessed.



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.

COURSE OUTCOME 1 – Overall score (2.3) Substantial; students 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.

COURSE OUTCOME 2- Overall score (1.9) Moderate; to improve students' skill in diagnostic procedures.

To concentrate more on conducting MCQs & Quiz, Clinical assessment of and recording, Small Group Discussions.

COURSE OUTCOME 3- Overall score (1.9) Moderate; to improve knowledge in cephalometric and extra oral radiographs.

To conduct more Small Group Discussions & Grading, Clinical Assessment

COURSE OUTCOME 4- Overall score (1.8) Moderate; to improve knowledge on growth and development of an individual.

To concentrate more in Theory classes, Terminal exams, Quiz

COURSE OUTCOME 5- Overall score (2.3) Substantial; 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

COURSE OUTCOME 6- Overall score (2.2) Substantial; have adequate knowledge on preventive and interceptive procedures.

Continuous assessment by OSPE, Role Play, Group discussion

COURSE OUTCOME 7- Overall score (1.7) Moderate; 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.

COURSE OUTCOME 8- Overall score (2.2) Substantial; adequate knowledge on fabrication and activation of removable appliance.

To continue in assisting cases and fabrication and activation of removable appliance.

COURSE OUTCOME 9- Overall score (1.7) Moderate; 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.

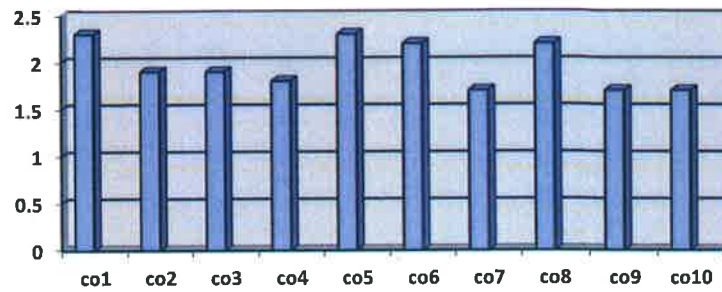
COURSE OUTCOME 10- Overall score (1.7) Moderate; to update knowledge on recent advances

Conduct more seminars and discussions to make them gain knowledge about the recent advances.

Analysis of the report:

The course outcome of the subject was assessed in various dimensions namely diagnosis, clinical application of basic knowledge diagnosis, prevention and treatment of anomalies and diseases of the teeth related to Orthodontics, ability to utilize diagnostic aids, underlying cause of malocclusion, use of various diagnostic methods, various and effective treatment methods like removable and fixed appliance, knowledge about appliances and its activation protocol, effective patient communication and knowledge about referral. The outcome was assessed based on 10 different domains. The average values of the domains ranged around 1.9, procuring an overall rating of substantial. This data reveals the learning outcomes and delivery of curriculum is adequate. The teaching methods may be further emphasized to target score of 3. The chart below shows the values of the various domains assessed.

Value range	Grading
0	Nil
0.1-1	Average
1.1-2	Moderate
2.1-3	Substantial




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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.

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 and modified through periodic assessment.

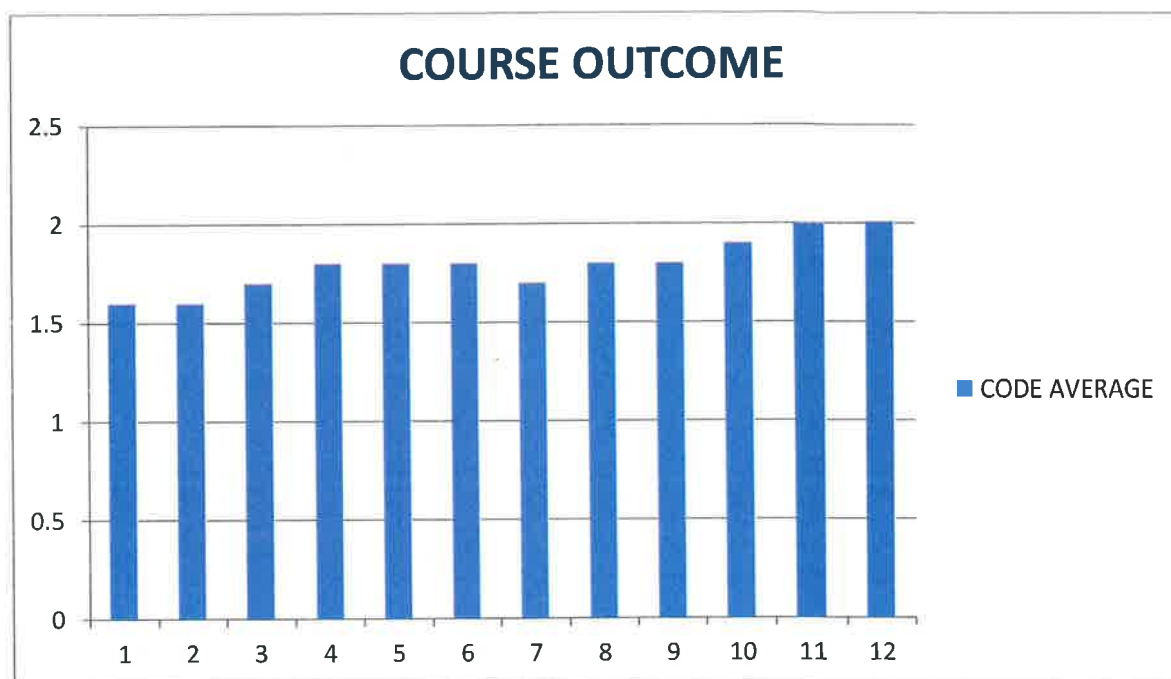
CODE	NAME OF THE SKILL	ASSESSMENT TOOL
COD1	Demonstrate the principles of Pediatric and Preventive dentistry right from birth to adolescence, including those with special health care needs.	-Theory classes on various topics -Periodic assessment through written examinations and MCQ.
COD2	Elicit detailed 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

Analysis of the report:

COD5	Diagnose, prevent and intercept developing dental health problems in the ,including malocclusions	-OSPE -OSCE -Mind Mapping - 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.

The course outcome of the subject was assessed in various dimensions namely diagnosis, clinical application of basic knowledge for treatment planning in pediatric dentistry, ability to utilize diagnostic aids, effective patient communication, treatment for children with special health care needs, dental health education for children and recent advancements in this field . The outcome was assessed based on 12 different domains. The average values of the domains ranged around 2, procuring an overall rating of moderate and this data reveals that the learning outcomes of the department are moderate. It indicates the necessity to increase the periodic assessment of students

through tests, MCQS, quizzes etc. Also, the students will be trained more on the clinical aspect, pertaining to history taking, examination and diagnosis to overcome the deficiency noted in their performance. Other innovative teaching methods may also be further emphasized to target the ceiling score of 3. The chart below shows the values of the various domains assessed.



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.

The calculated values will show the general performance of the department in achieving the expected outcome of the course; areas 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.

1.CO1 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

2.CO2 describe the classification, etiology, etiopathogenesis, clinical features, histological features, lab investigation, special investigation of benign and malignant tumors involving oral and para oral structures

Based on terminal exam

3. CO3 Apply the basic concepts and methods of forensic odontology in comparative human identification.

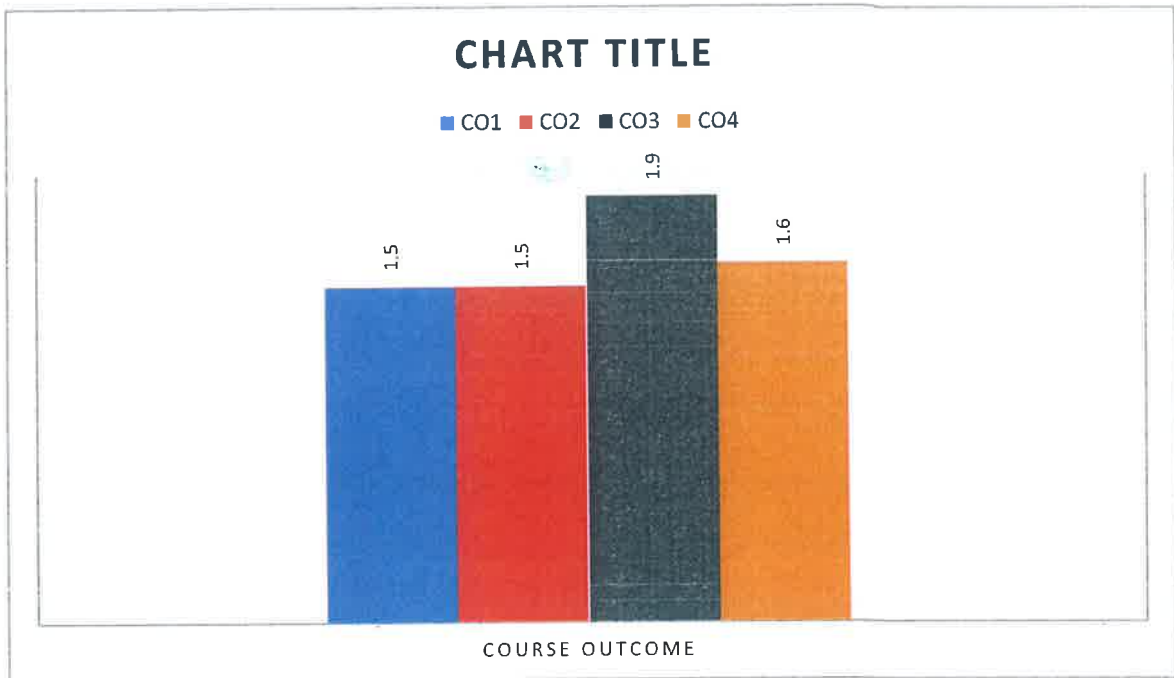
Based on terminal exam

4. CO4 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

Analysis of the report:

The course outcome of the subject was assessed in various dimensions namely diagnosis, clinical application of basic knowledge of anatomy and pathology in the sphere of treatment planning, ability to utilize diagnostic aids, effective patient communication, aetiopathogenesis of diseases, and knowledge about referral. The outcome was assess based on 4 different domains. The average values of the domains ranged around 2.2, procuring an overall rating of moderate. This data reveals the learning outcomes are holistic and delivery of curriculum is adequate. The teaching methods may be further emphasized to target the ceiling score of 3. The chart below shows the values of the various domains assessed.



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.

The calculated values will show the general performance of the department in achieving the expected outcome of the course; 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.

1. CO1 Relate the morphological features' of primary and permanent teeth its chronology, sequence of eruption, occlusion and variations in morphology.

Based on terminal exam

2. CO2 Illustrate the development, physical and chemical properties, clinical appearance, histopathological features', and clinical correlation of orofacial tissues.

Based on terminal exam

3. CO3 Describe the laboratory techniques involved in routine soft tissues and hard tissue processing.

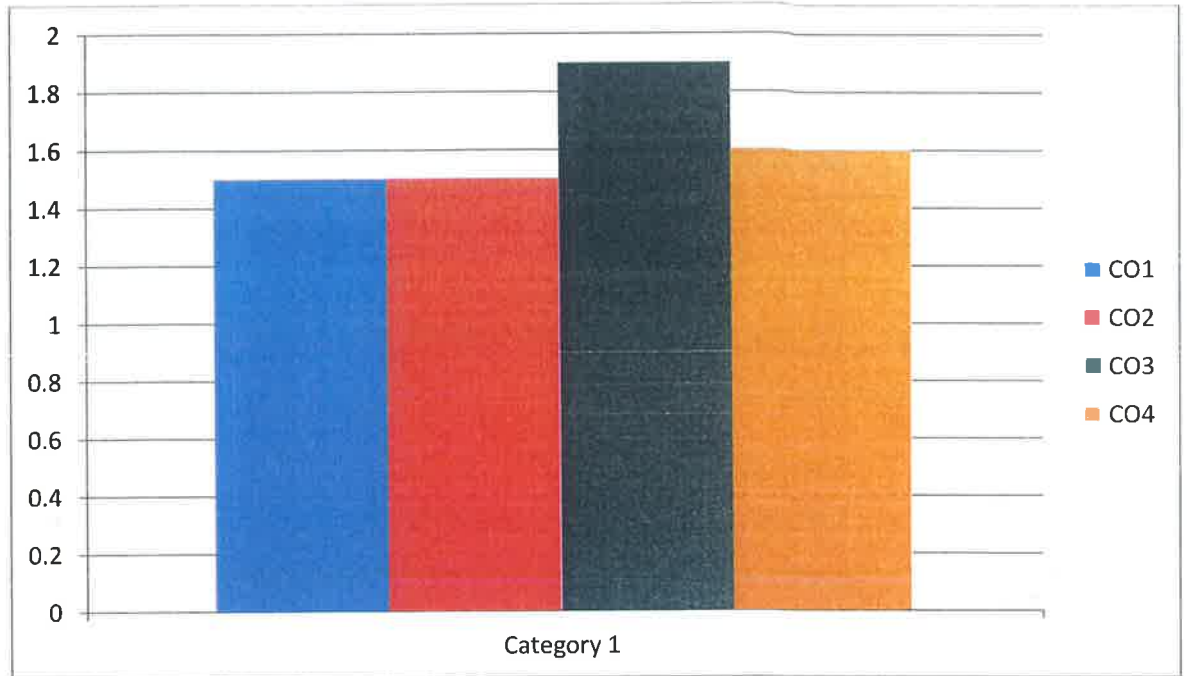
Based on terminal exam

4. 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

Analysis of the report:

The course outcome of the subject was assessed in various dimensions namely diagnosis, clinical application of basic knowledge of anatomy and pathology in the sphere of treatment planning, ability to utilize diagnostic aids, effective patient communication, aetiopathogenesis of diseases, and knowledge about referral. The outcome was assessed based on 4 different domains. The average values of the domains ranged around 2.2, procuring an overall rating of moderate. This data reveals the learning outcomes are holistic and delivery of curriculum is adequate. The teaching methods may be further emphasized to target the ceiling score of 3. The chart below shows the values of the various domains assessed.



DEPARTMENT OF PRE-CLINICAL CONSERVATIVE:

The objectives of the course outcome for preclinical conservative was assessed in 10 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.

1. PCCCO1 The student is able to carry out basic preclinical exercises pertaining to cavity preparation in maniquins and typhodonts applying principles of cavity preparation.

2. PCCCO2 The student is able to carry out procedures related to restorative dentistry like bas application, matricing and wedging followed by appropriate restoration.

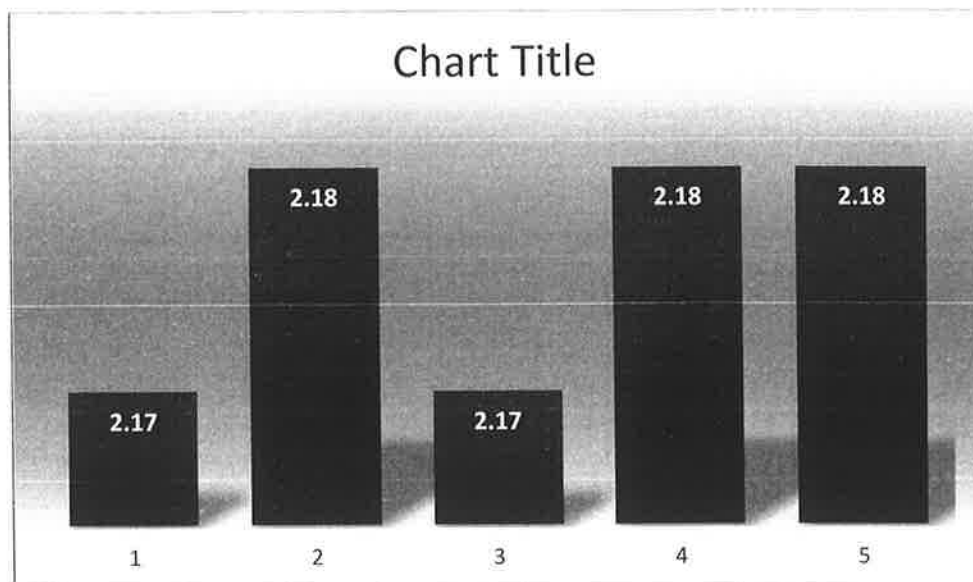
3. PCCCO3 The student has a basic knowledge of the various types of restorative materials indicated for various pathologies of hard tissues and location of the tooth in the dental arches.

4. PCCCO4 The student is able to judiciously dispense and manipulate the materials.

5. PCCO5 The student is able to apply the knowledge of ergonomics and chair positions including positioning of the patient.

Analysis of the report:

The course outcome of the subject was assessed in various dimensions namely ability to prepare cavities, manipulate materials, possess knowledge on indications of materials and operator and patient position. The average values of the 5 aspects ranged around 2.2, procuring an overall rating of substantial performance in the subject. This data reveals the learning outcomes are holistic and delivery of curriculum is adequate. The teaching methods may be further emphasized to target the optimal score of 3. The chart below shows the values of the various domains assessed.



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.

The calculated values will show the: The general performance of the department in achieving the expected outcome of the course; areas 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.

1. PCPCO1 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 esthetics and clinical application

Based on Evaluation of preclinical basic exercise completion out of total of 5 exercises

2. PCPCO2 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

3. PCPCO3 The student has a basic knowledge about all preclinical exercises and is able to clinically correlate them.

Based on University exam marks

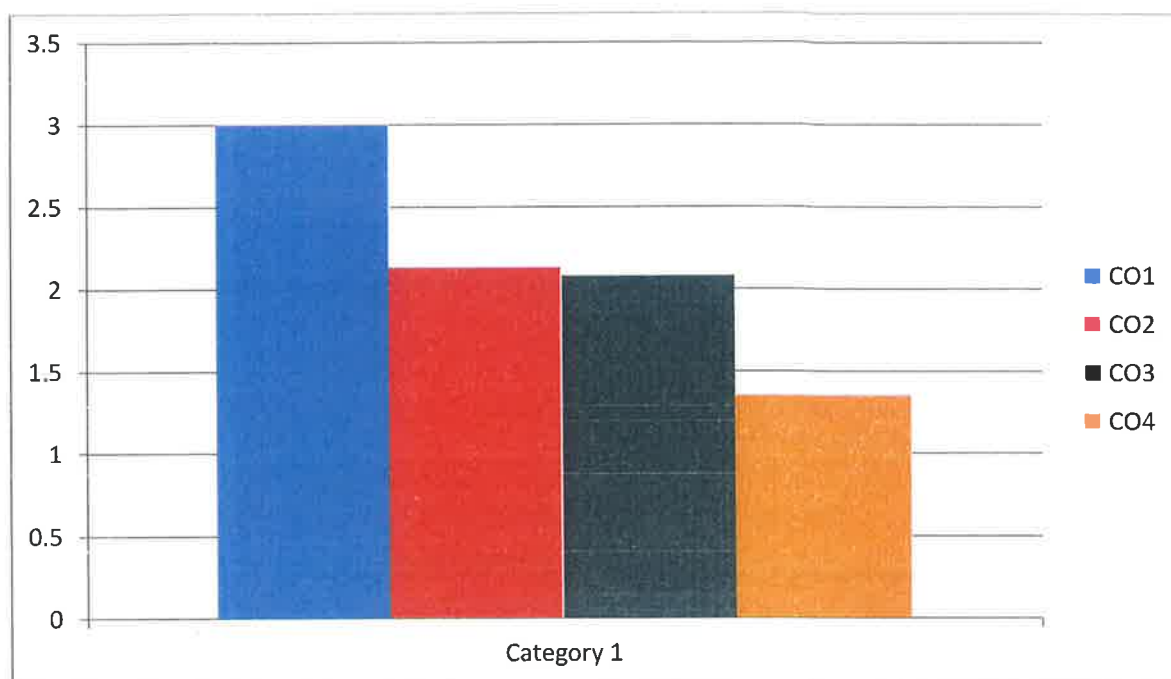
4. PCPCO4 The student is able to select and use dental material carefully, without wastage.

Based on Evaluation of material wastage

Analysis of the report:

The course outcome of the subject was assessed in various dimensions namely diagnosis, clinical application of basic knowledge of anatomy and pathology in the sphere of treatment planning, ability to utilize diagnostic aids, effective patient communication, aetiopathogenesis of diseases, and knowledge about referral. The outcome was assessed based on 4 different domains. The average values of the domains ranged around 2.1, procuring an overall rating of moderate to substantial. This data reveals the learning outcomes are holistic and delivery of curriculum is adequate. The teaching methods may

be further emphasized to target the ceiling score of 3. The chart below shows the values of the various domains assessed.



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.

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.

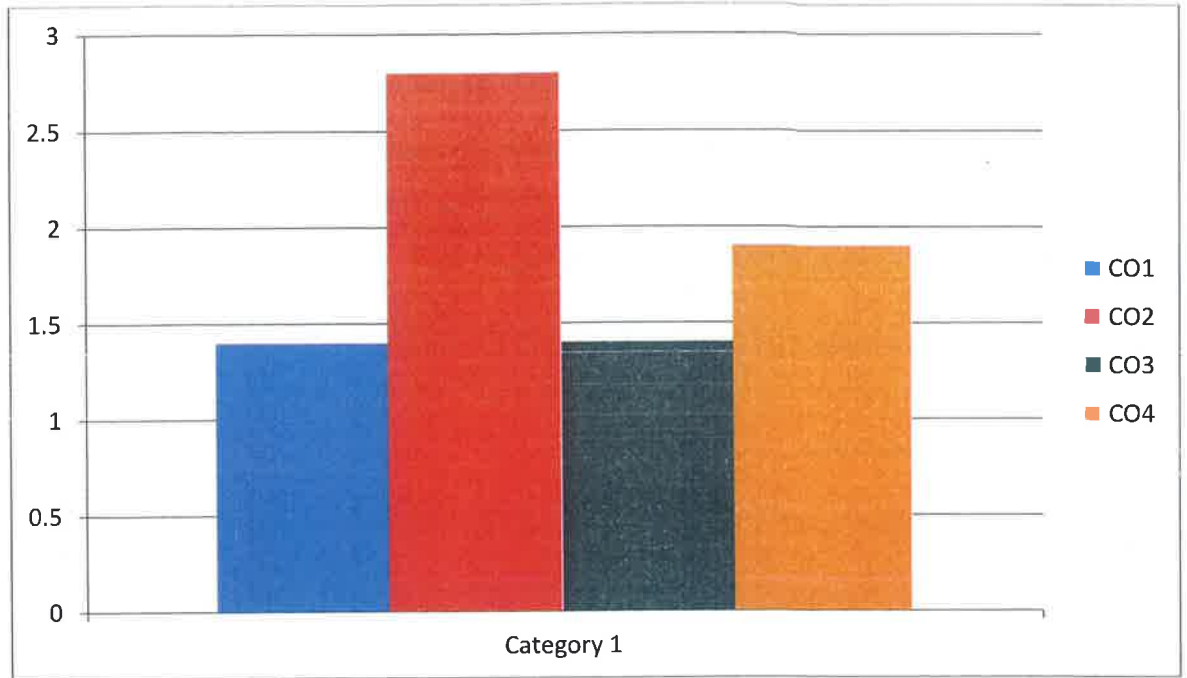
3. DMCO1 The student has acquired knowledge of the composition ,properties, application
 ,manipulative variables, and recent advances of dental

4. DMCO2 The students has developed the ability to use dental materials which will include the manipulation through laboratory exercises

5. DMCO3 The student is now able to use dental material carefully, without wastage

Analysis of the report:

The course outcome of the subject was assessed in various dimensions namely diagnosis, clinical application of basic knowledge of anatomy and pathology in the sphere of treatment planning, ability to utilize diagnostic aids, effective patient communication, aetiopathogenesis of diseases, and knowledge about referral. The outcome was assessing based on 4 different domains. The average values of the domains ranged around 2.2, procuring an overall rating of moderate to substantial. This data reveals the learning outcomes are holistic and delivery of curriculum is adequate. The teaching methods may be further emphasized to target the ceiling score of 3. The chart below shows the values of the various domains assessed.



DEPARTMENT OF CONSERVATIVE DENTISTRY AND ENDODONTICS:

Conservative Dentistry and Endodontics:

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.

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.

[Signature]
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CQ1. 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.

CQ2. 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.

CQ3. 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.

CQ4. 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.

CQ5. 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.

CQ6. 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.

CQ7. 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.

CQ8. Possess basic knowledge of pulpal and periapical diseases and their treatment modalities.

Problem based learning and spotters

CQ09. Acquire sufficient skill to perform basic endodontic procedures.

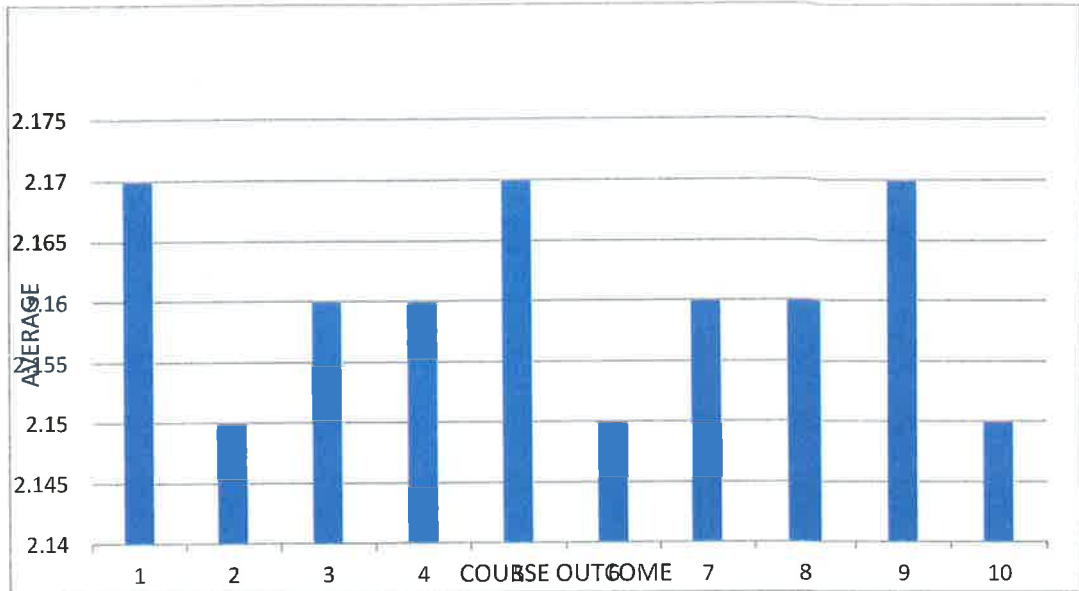
Pre-clinical training to perform all basic endodontic procedures

CQ10. 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.

Analysis of the report:

The course outcome of the subject was assessed in various dimensions namely diagnosis, clinical application of basic knowledge of anatomy and pathology in the sphere of restorative treatment planning, ability to utilize diagnostic aids, effective patient communication, aetiopathogenesis of diseases, and knowledge about referral. The outcome was assessed based on 10 different domains. The average values of the domains ranged around 2.2, procuring an overall rating of substantial. This data reveals the learning outcomes are holistic and delivery of curriculum is adequate. The teaching methods may be further emphasized to target the ceiling score of 3. The chart below shows the values of the various domains assessed.



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.

The calculated values will show the

The general performance of the department in achieving the expected outcome of the course

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.

1. CO1 Apply basic medical and dental sciences to the practice of clinical prosthodontics
Based on University exam monthly test
2. CO2 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

3. CO3 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

4. CO4 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

5. CO5 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

6. CO6 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

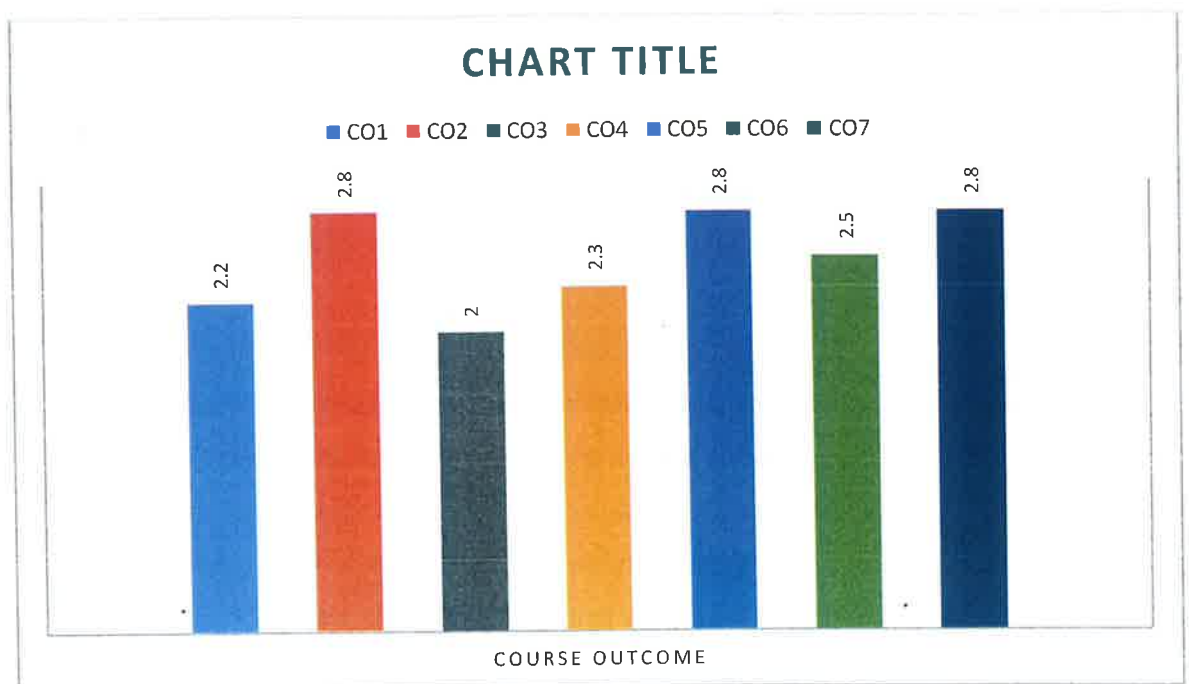
7. CO7 Communicate in simple understandable language with the patient and educate the patient on consequences of tooth loss, importance of replacement of teeth and proper maintenance care instructions. . He should be able to guide and counsel the patient with regard to various treatment modalities available. Develop the ability to communicate with professional colleagues and render the best possible treatment.

Based on Patient interaction.


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Analysis of the report:

The course outcome of the subject was assessed in various dimensions namely diagnosis, clinical application of basic knowledge of anatomy and pathology in the sphere of prosthetic treatment planning, ability to utilize diagnostic aids, effective patient communication, aetiopathogenesis of diseases, and knowledge about referral. The outcome was assessed based on 7 different domains. The average values of the domains ranged around 1.9, procuring an overall rating of substantial. This data reveals the learning outcomes are holistic and delivery of curriculum is adequate. The teaching methods may be further emphasized to target the ceiling score of 3. The chart below shows the values of the various domains assessed.



OUTCOME MAPPING/ PROGRAMME MAPPING:

Outcome mapping facilitates the alignment of course level outcomes with program outcome, i.e., how well the course outcome operate to achieve the program outcome.

The mainstay focus of outcome mapping is to assess student learning. The chart below shows the calibration of the CO in relation to the PO.

PROGRAM OUTCOME ANALYSIS REPORT:

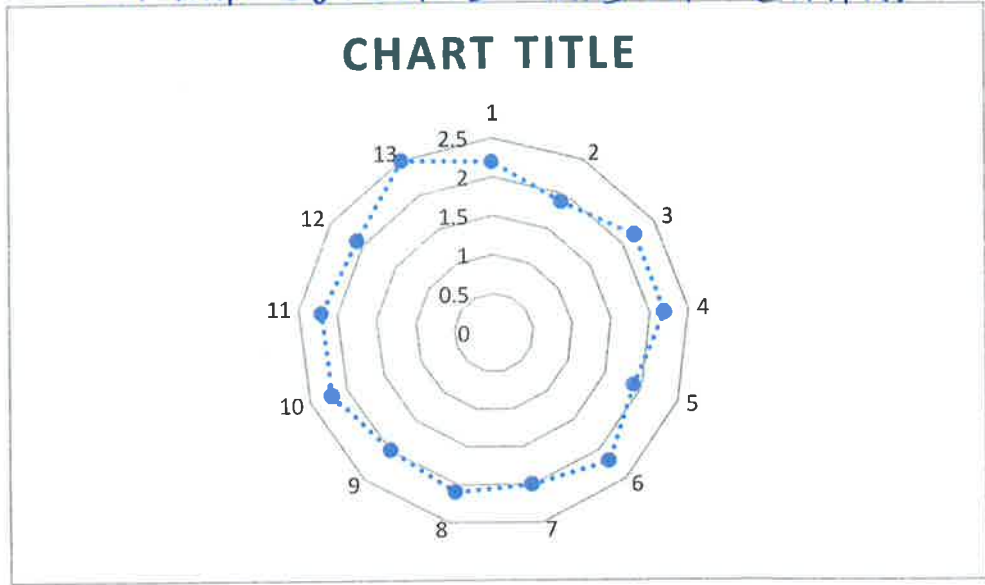
The program outcome mapping interpretation report reveals that the objectives of the course outcome are well aligned with the objectives of the program outcome. The outcomes were assessed in technical, cognitive and knowledge oriented aspects. The outcomes were assessed based on stated objectives using tools like examinations, viva voce, OSPE and OSCE so there is a common unbiased framework for assessment amongst the students and faculty members. This also helps to enable the students understand the desired learning outcomes and diagnose their strengths and weaknesses.

Overall the attainment of PO values ranged between moderate and substantial. The lacunae in individual courses have been analysed in the analysis report of the individual subjects. A corrective action plan is framed by each course head to improve the outcome and implemented for the next academic year and reviewed again. If the corrective action plan brings an improvement in the outcome the plan is retained and executed for the subsequent batches. If the plan does not bring about the desired outcome the action plan is aborted and an alternative action plan is sought.

PROGRAM OUTCOME OF THE INSTITUTE

S NO	NAME OF SUBJECT	PO INDEX
1	Oral Surgery	2.2
2	Orthodontics	1.9
3	Conservative Dentistry	2.2
4	Pre-clinical Conservative	2.2
5	Prosthodontics	1.9
6	DM	2.2
7	PHD	2
8	Oral Medicine	2.1
9	Paedodontics	2
10	Oral Pathology	2.2
11	Oral Histology	2.2
12	Pre-clinical Prosthodontics	2.1
13	Periodontics	2.5

PROGRAM OUTCOME RADAR CHART



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