



TO WHOM SO EVER IT MAY CONCERN

This is to certify that the information in the attached document is verified by me and is true to the best of my knowledge.




PRINCIPAL

Dr. MANOJ KUMAR K.P
Principal
KMCT Dental College
Manassery, Mukkam

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KMCT
DENTAL COLLEGE
Recognized Research Centre of KJ Somaiya

PROGRAMME SPECIFIC LEARNING OUTCOME



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PROGRAM SPECIFIC OUTCOME (PSO)

- PS01-** Provide effective training on providing knowledge on recent materials in restoration.
- PS02-** Simulation based learning to improve their basic clinical skills.
- PS03-** Provide knowledge on handling and manipulation of materials according to the standards.

COURSE OUTCOME (CO)- DENTAL MATERIALS

- CO1** Provide knowledge on material science and use of various dental materials used in dentistry
- CO2** Provide knowledge on materials used for treatment of craniofacial disorders and defects.
- CO3** Identification of instruments and equipments .
- CO4** Manipulation of restorative materials
- CO5** Matricing and wedging procedures during restoration
- CO6** Basics of Stainless Steel, Alloys & Impression Materials
- CO7** Enhancing the knowledge on manipulation and fabrication of prosthetic materials.
- CO8** Application of the material knowledge in clinical aspects.
- CO9** Clinical treatment and laboratory materials, associated materials, technical consideration, shelf life, storage, manipulations, sterilization, and waste management.



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SL NO	COURSE OUTCOME (CO)	KNOWLEDGE LEVEL (Bloom's Level)
CO1	Provide knowledge on material science and use of various dental materials used in dentistry	L2
CO2	Provide knowledge on materials used for treatment of craniofacial disorders and defects.	L2
CO3	Identification of instruments and equipments	L2
CO4	Manipulation of restorative materials	L2
CO5	Matricing and wedging procedures during restoration	L2
CO6	Basics of Stainless Steel, Alloys & Impression Materials	L2
CO7	Enhancing the knowledge on manipulation and fabrication of prosthetic materials.	L2
CO8	Application of the material knowledge in clinical aspects.	L2
CO9	Clinical treatment and laboratory materials, associated materials, technical consideration, shelf life, storage, manipulations, sterilization, and waste management.	L2

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SL NO	COURSE OUTCOME (CO)	PO	PSO
CO1	Provide knowledge on material science and use of various dental materials used in dentistry	1,4	1,2,3
CO2	Provide knowledge on materials used for treatment of craniofacial disorders and defects.		1,2,3
CO3	Identification of instruments and equipments	1,10	1,2,3
CO4	Manipulation of restorative materials	1,10	1,2,3
CO5	Matricing and wedging procedures during restoration	1,10	1,2,3
CO6	Basics of Stainless Steel, Alloys & Impression Materials	1,10,11	1,2,3
CO7	Enhancing the knowledge on manipulation and fabrication of prosthetic materials.	1,10,11	1,2,3
CO8	Application of the material knowledge in clinical aspects.	1	1,2,3
CO9	Clinical treatment and laboratory materials, associated materials, technical consideration, shelf life, storage, manipulations, sterilization, and waste management.	1,6,10	1,2,3

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CO	PROGRAM OUTCOME(PO)												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	
C01	3	--	-	1	-	-	-	-	-	3	1	-	
C02	3	-	-	-	-	-	-	-	-	3	1	-	
C03	3	-	-	-	-	1	-	-	-	3	-	-	
C04	3	-	-	-	-	-	-	-	-	3	-	-	
C05	3	-	-	-	-	-	-	-	-	3	-	-	
C06	3	-	-							2			
C07	3	-	-							2			
C08	3	-								2			
C09	3	-				2				2			
AVG	3			.1		.33				2.5	.2		

COURSE OUTCOME PROGRAM SPECIFIC OUTCOME MATRIX

SL NO	COURSE OUTCOME	PROGRAM SPECIFIC OUTCOME		
		PSO1	PSO2	PSO3
C01	Provide knowledge on material science and use of various dental materials used in dentistry	2	2	3
C02	Provide knowledge on materials used for treatment of craniofacial disorders and defects.	1	1	1
C03	Identification of instruments and equipments	2	2	2
C04	Manipulation of restorative materials	2	2	3

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CO5	Matricing and wedging procedures during restoration	2	2	2
CO6	Basics of Stainless Steel, Alloys & Impression Materials	2	2	2
CO7	Enhancing the knowledge on manipulation and fabrication of prosthetic materials.	2	2	3
CO8	Application of the material knowledge in clinical aspects.	2	2	2
CO9	Clinical treatment and laboratory materials, associated materials, technical consideration, shelf life, storage, manipulations, sterilization, and waste management.	2	2	2
	AVG	1.8	1.8	2.2

INFERENCE: 1-LOW, 2-MEDIUM, 3- HIGH



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**COMPUTATION OF COURSE OUTCOME- PROGRAM OUTCOME/PROGRAM
SPECIFIC OUTCOME ATTAINMENT**

COURSE	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2	PSO 1	PSO 2	PS 3
DENTAL MATERI AL	3	0	0	0	0	0	0	0	0	3	0	0	2	2	2
WEIGHT ED AVERAG E	3	0	0	0.1	0	.33	0	0	0	2.5	.2	0	1.8	1.8	2.2

**COURSE OUTCOME ATTAINMENT
ASSESSMENT PATTERN**

ASSESSMENT TYPE	ASSESSMENT TOOL
DIRECT ATTAINMENT	FIRST INTERNAL EXAMINATION THEORY - 70 PRACTICAL -80
	SECOND INTERNAL EXAMINATION THEORY - 70 PRACTICAL-80
	THIRD INTERNAL EXAMINATION THEORY - 70 PRACTICAL-80
	UNIVERSITY EXAMINATION THEORY - 100 PRACTICAL-100
INDIRECT ATTAINMENT	END EXAM FEEDBACK

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DIRECT COURSE OUTCOME ATTAINMENT – 20% OF INTERNAL EXAMINATION (IE) ATTAINMENT+80% OF EXTERNAL EXAMINATION (EE) ATTAINMENT

OVERALL COURSE OUTCOME - 90%DIRECT OF COURSE OUTCOME ATTAINMENT + 10% OF INDIRECT ATTAINMENT

CO ATTAINMENT TARGET LEVELS

ASSESSMENT METHODS	ATTAINMENT LEVEL	
UNIVERSITY EXAMINATIONS	THRESHOLD VALUE FOR THEORY (70) + VIVA VOCE (20) +INTERNAL ASSESSMENT (10), THRESHOLD VALUE IS 50%. i.e $0.5 \times (70+20+10)=50$	
	LEVEL 1	50% OF STUDENTS SCORING MORE THAN 50 MARKS IN THEORY AND PRACTICAL
	LEVEL 2	60% OF STUDENTS SCORING MORE THAN 50 MARKS IN THEORY AND PRACTICAL
	LEVEL 3	70% OF STUDENTS SCORING MORE THAN 50 MARKS IN THEORY AND PRACTICAL

COMPUTATION OF CO DIRECT ATTAINMENT

COs	Assessment tool (internal examination /external examination)	Internal examination (IE)		EXTERNAL EXAMINATION (EE)	DIRECT CO ATTAINMENT $= (0.2 \times \text{IE ATTAINMENT LEVEL}) + (0.8 \times \text{EE ATTAINMENT LEVEL})$
		ATTAINMENT LEVEL	AVERAGE ATTAINMENT LEVEL	ATTAINMENT LEVEL	



CO1	THEORY & PRACTICAL	2.5	2.5	3	2.9
CO2	THEORY & PRACTICAL	2.6	2.6	3	2.92
CO3	THEORY & PRACTICAL	2.7	2.7	3	2.94
CO4	THEORY & PRACTICAL	2.25	2.25	3	2.85
CO5	THEORY & PRACTICAL	2.17	2.17	3	2.83
CO6	THEORY & PRACTICAL	2.45	2.45	3	2.89
CO7	THEORY & PRACTICAL	2.55	2.55	3	2.91
CO8	THEORY & PRACTICAL	2.65	2.65	3	2.93
CO9	THEORY & PRACTICAL	2.5	2.5	3	2.9

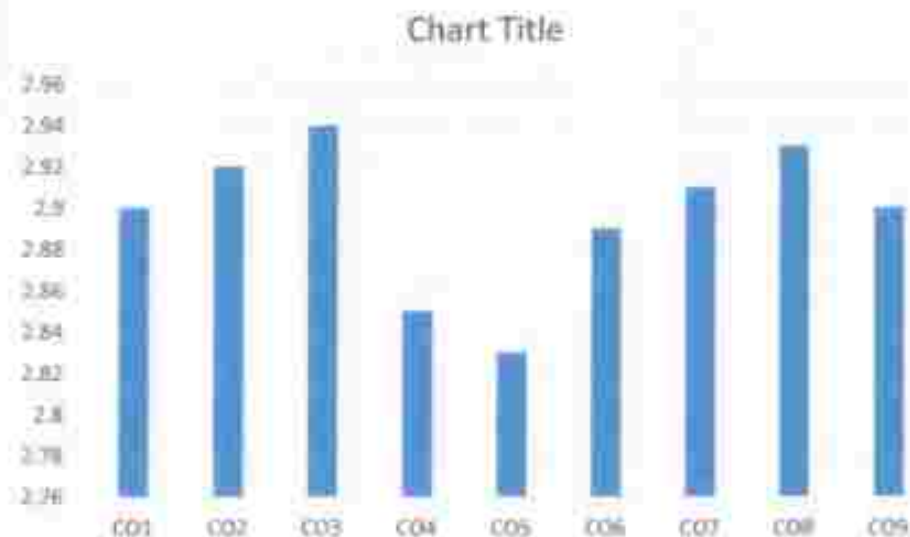
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COMPUTATION OF CO INDIRECT ATTAINMENT IN THE COURSE:

Attainment of CO Dental Materials= (Level-1 X No of Students Attempted) + (Level-2x No of Students Attempted) + (Level-3 X No of Students Attempted)/Total No of Students

COMPUTATION OF CO INDIRECT ATTAINMENT IN THE COURSE									
COS	CO1	CO2	CO3	CO4	CO5	CO6	CO7	CO8	CO9
Students Answered Level-1	2	2	2	2	2	2	2	2	2
Students Answered Level-2	18	20	20	18	15	20	17	12	10



Students Answered Level-3	40	38	38	40	43	40	41	46	48
TOTAL STUDENTS PARTICIPATED	60	60	60	60	60	60	60	60	60
Co-Attendance Level	2.0	2.0	2.0	2.0	2.53	2.7	2.05	2.73	2.70

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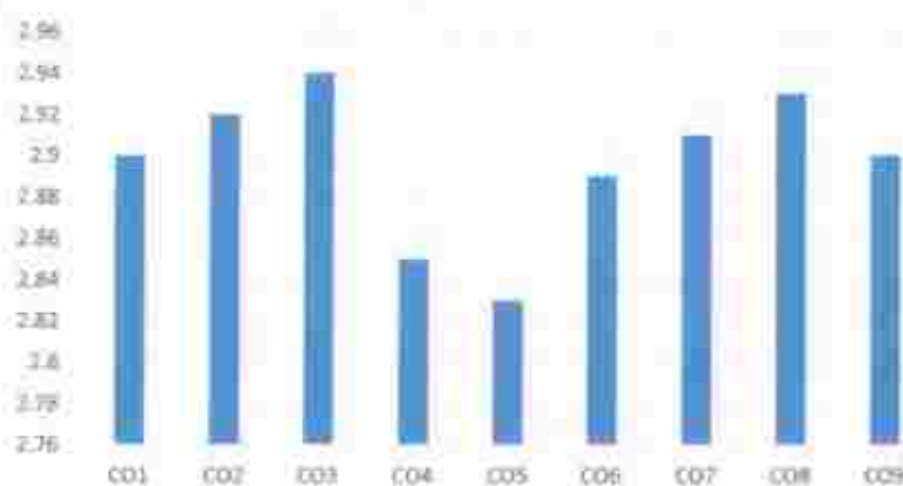
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[Signature]
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COMPUTATION OF CO INDIRECT ATTAINMENT

COMPUTATION OF COURSE OUTCOME OVERALL ATTAINMENT

CO	DIRECT O ATTAINMENT LEVEL VEL(DA)	INDIRECT O ATTAINMENT LEVEL(IDA)	OVERALL O ATTAINMENT LEVEL $0.9 \times DA + 0.1 \times IDA$
CO1	2.9	2.6	2.87
CO2	2.92	2.6	2.88
CO3	2.94	2.6	2.9
CO4	2.85	2.6	2.82
CO5	2.83	2.6	2.8
CO6	2.89	2.6	2.86
CO7	2.91	2.6	2.87
CO8	2.93	2.6	2.89
CO9	2.9	2.6	2.87
AVERAGE CO ATTAINMENT			2.86

COURSE OUTCOME CORRECTIVE MEASURES FOR NEXT ACADEMIC YEAR

CO	ATTAINMENT	ACTION PLAN
CO4	2.82	RAPID REVISION REPEATED DEMONSTRATIONS REPEATED VIVA
CO5	2.8	REPEATED PRECLINICAL EVALUATIONS SPOTTERS AND DEMONSTRATIONS VIVA





PO/PSO ASSESMENT PROCESS

ASSESMENT TOOLS:

UNIVERSITY EXAMINATION

ASSESMENT FREQUENCY:

ONCE A YEAR ASSESED BY:

SUBJECT EXPERT

REVIEWED

BY: HOD

METHOD:

DIRECT

COURSE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
DENTAL MATERIALS	3	0	0	0	0	0	0	0	0	3	0	0
WEIGHTED AVERAGE	3	0	0	0.1	0	.33	0	0	0	2.5	.2	0

$PO = (\text{WEIGHTED AVERAGE VALUE OF PO} \times \text{CO ATTAINMENT AVERAGE})/3$

PO	ATTAINMENT LEVEL
PO1	$3 \times 2.86/3 = 2.87$
PO4	$.1 \times 2.86/3 = .095$
PO6	$.33 \times 2.86/3 = 0.314$
PO10	$2.5 \times 2.86/3 = 2.38$
PO11	$.2 \times 2.86/3 = .19$

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RESULT OF PO ATTAINMENT

COURSE	PO1	PO4	PO6	PO10	PO11
DM	3	.1	.33	2.5	0.2
ATTAINMENT	2.87	.095	0.31	2.38	0.19



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INTEGRATION AND
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DEVELOPMENT CENTER





PO	ATTAINMENT	ACTION PLAN
PO1	2.87	RAPID REVISION REPEATED DEMONSTRATIONS REPEATED VIVA
PO4	.095	PARTICIPATION IN CDE PROGRAMME
PO6	.31	REPEATED DEMONSTRATIONS REPEATED VIVA
PO10	2.38	RAPID REVISION REPEATED DEMONSTRATIONS REPEATED VIVA
PO11	0.19	VIVA AND EXAMS

COURSE	PSO1	PSO2	PSO3
DM	2	2	2
WEIGHTED AVERAGE	1.8	1.8	2.2

PSO	ATTAINMENT LEVEL
PSO1	$1.8 \times 2.86/3 = 1.71$
PSO2	$1.8 \times 2.86/3 = 1.71$
PSO3	$2.2 \times 2.86/3 = 2.09$



PSO ATTAINMENT LEVELS

COURSE	PSO1	PSO2	PSO3
DM	1.8	1.8	2.2
ATTAINMENT	1.71	1.71	2.09



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PROGRAME OUTCOME BDS

COURSE: DENTAL ANATOMY AND ORAL HISTOLOGY

2022-2023

PROGRAME OUTCOME

- PO 1-** Integration of basic sciences, clinical dental surgery and practical and laboratory skills
- PO 2-** Sufficient practical skill including patient management skill for treatment of patients of all ages with special reference to pediatric, geriatric and medically compromised and disabled patient
- PO 3-** Sociological aspects of health care particularly oral health care including the reasons for the variation in oral and dental needs of the society.
- PO 4-** Motivation for interdisciplinary research activities and emphasis on evidence-based dentistry.
- PO 5-** Participation in Continual Dental Educational programs to update knowledge and skills
- PO 6-** Learns significance of infection and cross infection control in dental practice
- PO 7-** To learn the importance of various dental tissues in forensic sciences.
- PO 8-** Attends dental hospital and general hospital postings, community camps
- PO 9-** Administer all forms of local anesthesia knowledge of various maxillofacial problems like injuries, infections and deformities of the jaw.
- PO 10-** Restoration of various kinds and endodontic procedures, removable and fixed prosthodontics.
- PO 11-** Appreciate the role of dentofacial growth and development of malocclusion.

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PO 12- Train in various radiological techniques and its interpretations

PROGRAM SPECIFIC OUTCOME (PSO)

PSO1- Attaining integrated learning which is multidisciplinary involving various other basic specialities such as with general anatomy, physiology and biochemistry.

PSO2- Training methods wherein various oral structures will be demonstrated and the students will be guided in making the same as a part of simulation-based learning.

PSO3- Students will be provided opportunities for experiential learning. Presenting seminars, involving in group discussions, making of charts and models.



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COURSE OUTCOME BDS

COURSE: DENTAL ANATOMY AND ORAL HISTOLOGY

COURSE OUTCOME (CO)

CO 1- Appreciate the normal development, morphology, structure & functions of oral tissues.

CO 2- Basic knowledge of various laboratory techniques used in oral histology.

CO 3- Identifying physiologic ageing process in the dental tissues.

CO 4- Appreciate the histology of dental tissues.

Sl No.	Course outcome	Knowledge level (BLOOMS LEVEL)
CO1	Appreciate the normal development, morphology, structure & functions of oral tissues	L1
CO2	Basic knowledge of various laboratory techniques used in oral histology	L1
CO3	Identifying physiologic ageing process in the dental tissues.	L2
CO4	Appreciate/identify the histology of dental tissues	L2

COURSE OUTCOME – PROGRAM OUTCOME MATRIX

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Sl No.:	Course outcome	PO	PSO
C01	Appreciate the normal development, morphology, structure & functions of oral tissues	1,2,5,7,11	1,2,3
C02	Basic knowledge of various laboratory techniques used in oral histology	1,2,3,4,5,7,11	1,2,3
C03	Identifying physiologic ageing process in the dental tissues.	1,2,5,7,11	1,2,3
C04	Appreciate/Identify the histology of dental tissues.	1,2,4,5,7,11	1,2,3



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CO	PROGRAM OUTCOME (PO)											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	2	-	-	-	-	-	-	-	-	2	-
CO2	2	2	2	2	1	-	2	-	-	-	3	-
CO3	2	2	2	2	1	-	2	-	-	-	3	-
CO4	2	2	2	2	1	-	2	-	-	-	2	-
AVG	2.25	2	1.5	1.5	0.75	0	1.5	0	0	0	2.5	0

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ABSTRACT AND
INTRODUCTION
ON THE COVER





COURSE OUTCOME-PROGRAM SPECIFIC OUTCOME MATRIX

CO	PROGRAM SPECIFIC OUTCOME		
	PSO1	PSO2	PSO3
CO1- Appreciate the normal development, morphology, structure & functions of oral tissues	3	3	3
CO2- Basic knowledge of various laboratory techniques used in oral histology	3	3	3
CO3- Identifying physiologic ageing process in the dental tissues.	3	3	3
CO4- Appreciate/Identify the histology of dental tissues	3	3	3
AVG	3	3	3



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**COMPUTATION OF COURSE OUTCOME-PROGRAM OUTCOME/PROGRAM
SPECIFIC OUTCOME ATTAINMENT**

COURSE	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
DENTAL ANATOMY AND ORAL HISTOLOGY	2	2	2	2	1	0	2	0	0	0	3	0	3	3	3
WEIGHTED AVERAGE	2.25	2	1.5	1.5	0.75	0	1.5	0	0	0	2.5	0	3	3	3



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COURSE OUTCOME ATTAINMENT

ASSESSMENT PATTERN

ASSESSMENT TYPE	ASSESSMENT TOOL
DIRECT ATTAINMENT	FIRST INTERNAL EXAMINATION THEORY-70 PRACTICAL-80
	SECOND INTERNAL EXAMINATION THEORY-70 PRACTICAL-80
	THIRD INTERNAL EXAMINATION THEORY-70 PRACTICAL-80
	UNIVERSITY EXAMINATION THEORY-100 PRACTICAL-100
INDIRECT ATTAINMENT	END EXAM FEED BACK

DIRECT COURSE OUTCOME ATTAINMENT = 20% OF INTERNAL EXAMINATION (IE) ATTAINMENT + 80% OF EXTERNAL EXAMINATION (EE) ATTAINMENT.

OVERALL COURSE OUTCOME ATTAINMENT = 90% DIRECT COURSE OUTCOME ATTAINMENT + 10% OF INDIRECT ATTAINMENT.



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CO ATTAINMENT TARGET LEVELS

ASSESSMENT METHODS	ATTAINMENT LEVEL	
UNIVERSITY EXAMINATIONS	THRESHOLD VALUE FOR THEORY (70) + VIVA VOCE (20) + INTERNAL ASSESSMENT (10), THRESHOLD VALUE IS 50%. i.e $0.5 \times (70+20+10) = 50$	
	LEVEL 1	50% OF STUDENTS SCORING MORE THAN 50 MARKS IN THEORY AND PRACTICAL
	LEVEL 2	60% OF STUDENTS SCORING MORE THAN 50 MARKS IN THEORY AND PRACTICAL
	LEVEL 3	70% OF STUDENTS SCORING MORE THAN 50 MARKS IN THEORY AND PRACTICAL



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COMPUTATION OF CO DIRECT ATTAINMENT

CO	Assessment tool (internal examination / external examination)	Internal examination (IE)		EXTERNAL EXAMINATION (EE)	DIRECT CO ATTAINMENT $= (0.2 \times \text{IE ATTAINMENT LEVEL}) + (0.8 \times \text{EE ATTAINMENT LEVEL})$
		ATTAINMENT LEVEL	AVERAGE ATTAINMENT LEVEL	ATTAINMENT LEVEL	
CO 1	THEORY & PRACTICAL	2.5	2.5	3	2.9
CO 2	THEORY & PRACTICAL	2.25	2.25	3	2.85
CO 3	THEORY & PRACTICAL	1.5	1.5	3	2.7
CO 4	THEORY & PRACTICAL	2.25	2.25	3	2.85

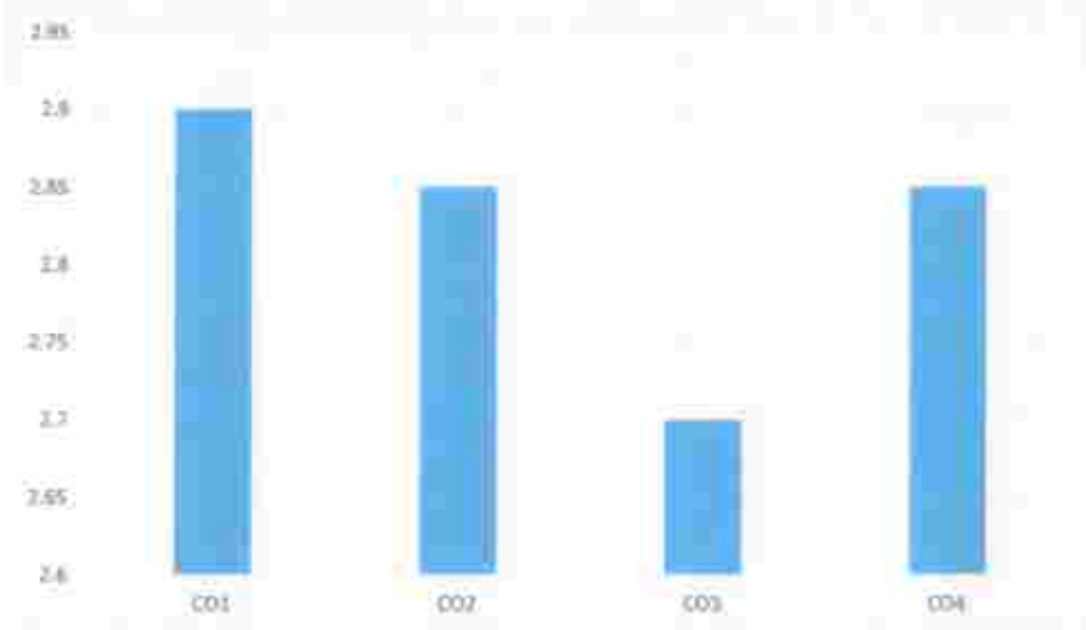


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INFORMATION AND
CONTACTS



1. The first step is to identify the problem.



COMPUTATION OF CO INDIRECT ATTAINMENT IN THE COURSE:

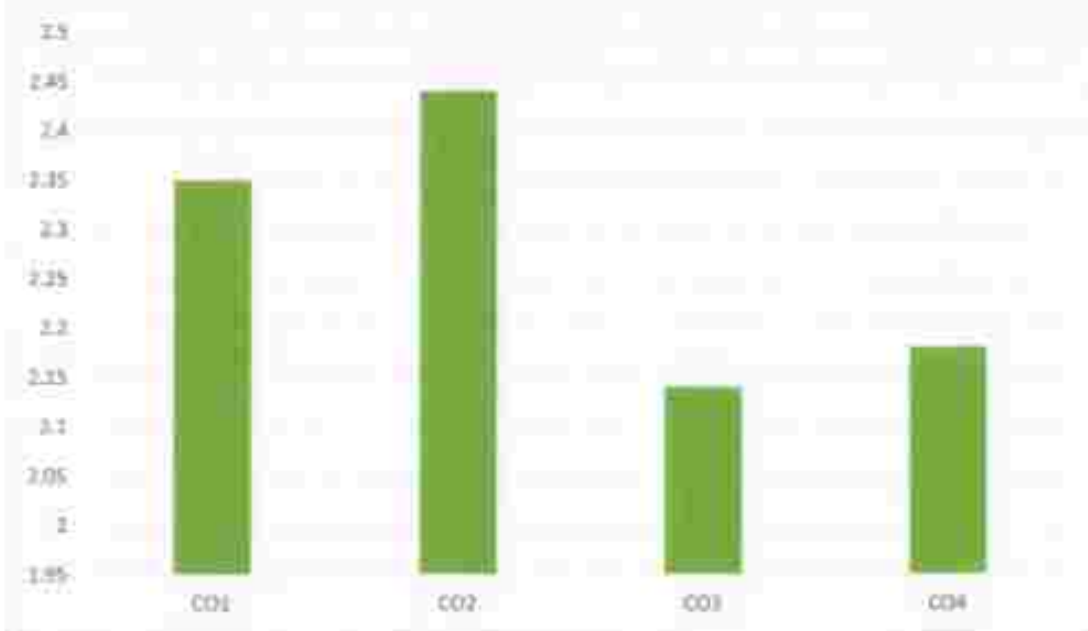
Attainment of Co Pediatric and Preventive Dentistry = (Level-1 X No of Students Attempted) + (Level-2x No of Students Attempted) + (Level-3 X No of Students Attempted)/Total No of Students.

COMPUTATION OF CO INDIRECT ATTAINMENT IN THE COURSE				
CDS	CO1	CO2	CO3	CO4
Students Answered Level - 1	25	15	30	26
Students Answered Level - 2	20	22	20	25
Students Answered Level - 3	49	57	44	43
TOTAL STUDENTS PARTICIPATED	94	94	94	94
Co Attainment Level	2.35	2.44	2.14	2.18



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**COMPUTATION OF CO INDIRECT ATTAINMENT COMPUTATION OF COURSE
OUTCOME OVERALL ATTAINMENT**

CO	DIRECT CO ATTAINMENT LEVEL (DA)	INDIRECT CO ATTAINMENT LEVEL (IDA)	OVERALL CO ATTAINMENT LEVEL $0.9 \times DA + 0.1 \times IDA$
CO1	2.9	2.35	2.845
CO2	2.85	2.35	2.8
CO3	2.7	2.35	2.665
CO4	2.85	2.35	2.8
AVERAGE CO ATTAINMENT			2.77

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COURSE OUTCOME CORRECTIVE MEASURES FOR NEXT ACADEMIC YEAR

CO	ATTAINMENT	ACTION PLAN
CO3	2.665	-REVISION CLASSES -VIDEO DEMONSTRATION -VIVA

PO\PSO ASSESMENT PROCESS

ASSESMENT TOOLS: UNIVERSITY EXAMINATION

ASSESMENT FREQUENCY: ONCE A YEAR

ASSESSED BY: SUBJECT EXPERT

REVIEWED BY: HOD

METHOD: DIRECT

COURSE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
DENTAL ANATOMY	2	2	2	2	1	0	2	0	0	0	3	0
WEIGHTED AVERAGE	2.25	2	1.5	1.5	0.75	0	1.5	0	0	0	2.5	0

$PO = (\text{WEIGHTED AVERAGE VALUE OF PO} \times \text{CO ATTAINMENT AVERAGE})/3$

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PO	ATTAINMENT LEVEL
PO1	$2.25 \times 2.77 / 3 = 2.077$
PO2	$2 \times 2.77 / 3 = 1.84$
PO3	$1.5 \times 2.77 / 3 = 1.385$
PO4	$1.5 \times 2.77 / 3 = 1.385$
PO5	$0.75 \times 2.77 / 3 = 0.692$
PO7	$1.5 \times 2.77 / 3 = 1.385$
PO11	$2.5 \times 2.77 / 3 = 2.308$

RESULT OF PO ATTAINMENT

COURSE	PO1	PO2	PO3	PO4	PO5	PO7	PO11
DENTAL ANATOMY AND ORAL HISTOLOGY	2.25	2	1.5	1.5	0.75	1.5	2.5
ATTAINMENT	2.077	1.84	1.385	1.385	0.692	1.385	2.308

PROGRAM OUTCOME CORRECTIVE MEASURES

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KMCT Medical College Campus, Mukkam, Kozhikode - 673602

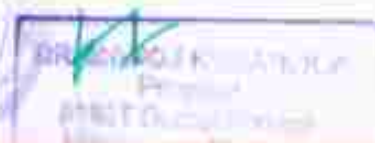
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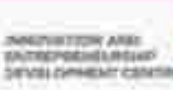




PO	ATTAINMENT	ACTION PLAN
PO1	2.077	-VIDEO DEMONSTRATIONS -OSPEE EXAMINATIONS -CASE DISCUSSIONS -VIVA -WRITTEN EXAMS
PO2	1.84	-VIDEO DEMONSTRATION OF CLINICAL CASES -SIMULATION OF ORAL AND PARAORAL STRUCTURES
PO3	1.385	-ENCOURAGE DENTAL CAMP VISITS
PO4	1.385	-PROMOTE RESEARCH ACTIVITIES
PO7	1.385	-PROMOTE VISIT TO FORENSIC LABS
PO11	2.308	-VIDEO DEMONSTRATION



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PSO's ATTAINMENT RESULTS

PSO=weighted average value of PSO*CO attainment average/3

PSO mapping

COURSE	PSO1	PSO2	PSO3
DENTAL ANATOMY AND ORAL HISTOLOGY	3	3	3
WEIGHTED AVERAGE	3	3	3

PSO ATTAINMENT COMPUTATION

PSO	ATTAINMENT LEVEL
PSO1	$3 \times 2.77 / 3 = 2.77$
PSO2	$3 \times 2.77 / 3 = 2.77$
PSO3	$3 \times 2.77 / 3 = 2.77$

PSO ATTAINMENT LEVELS

COURSE	PSO1	PSO2	PSO3
--------	------	------	------

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DENTAL ANATOMY AND ORAL HISTOLOGY	3	3	3
ATTAINMENT	2.77	2.77	2.77

PSO'S CORRECTIVE MEASURES

PSO	ATTAINMENT	ACTION PLAN
PSO1	2.77	-BRIEFING SESSIONS ON EMBRYOLOGY, GENERAL HISTOLOGY AND ANATOMY
PSO2	2.77	-MAKING OF MODELS AND SIMULATING THE ANATOMICAL LANDMARKS ON MODELS
PSO3	2.77	-PRESENTING SEMINARS -INVOLVING IN GROUP DISCUSSIONS -BLENDED LEARNING



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PROGRAME OUTCOME BDS

COURSE: DENTAL ANATOMY AND ORAL HISTOLOGY

2022-2023

PROGRAME OUTCOME

- PO 1-** Integration of basic sciences, clinical dental surgery and practical and laboratory skills
- PO 2-** Sufficient practical skill including patient management skill for treatment of patients of all ages with special reference to pediatric, geriatric and medically compromised and disabled patient
- PO 3-** Sociological aspects of health care particularly oral health care including the reasons for the variation in oral and dental needs of the society.
- PO 4-** Motivation for interdisciplinary research activities and emphasis on evidence-based dentistry.
- PO 5-** Participation in Continual Dental Educational programs to update knowledge and skills
- PO 6-** Learns significance of infection and cross infection control in dental practice
- PO 7-** To learn the importance of various dental tissues in forensic sciences.
- PO 8-** Attends dental hospital and general hospital postings, community camps
- PO 9-** Administer all forms of local anesthesia knowledge of various maxillofacial problems like injuries, infections and deformities of the jaw.
- PO 10-** Restoration of various kinds and endodontic procedures, removable and fixed prosthodontics.
- PO 11-** Appreciate the role of dentofacial growth and development of malocclusion.

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PO 12- Train in various radiological techniques and its interpretations

PROGRAM SPECIFIC OUTCOME (PSO)

PSO1- Attaining integrated learning which is multidisciplinary involving various other basic specialities such as with general anatomy, physiology and biochemistry.

PSO2- Training methods wherein various oral structures will be demonstrated and the students will be guided in making the same as a part of simulation-based learning.

PSO3- Students will be provided opportunities for experiential learning. Presenting seminars, involving in group discussions, making of charts and models.



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COURSE OUTCOME BDS

COURSE: DENTAL ANATOMY AND ORAL HISTOLOGY

COURSE OUTCOME (CO)

CO 1- Appreciate the normal development, morphology, structure & functions of oral tissues.

CO 2- Basic knowledge of various laboratory techniques used in oral histology.

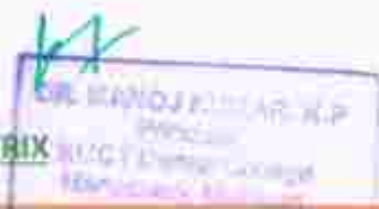
CO 3- Identifying physiologic ageing process in the dental tissues.

CO 4- Appreciate the histology of dental tissues.

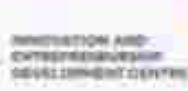
Sl No.	Course outcome	Knowledge level (BLOOMS LEVEL)
CO1	Appreciate the normal development, morphology, structure & functions of oral tissues	L1
CO2	Basic knowledge of various laboratory techniques used in oral histology	L1
CO3	Identifying physiologic ageing process in the dental tissues.	L2
CO4	Appreciate/Identify the histology of dental tissues	L2



COURSE OUTCOME – PROGRAM OUTCOME MATRIX

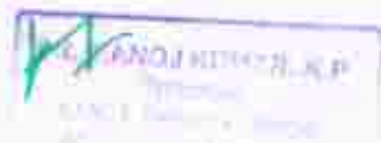


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Sl No.	Course outcome	PO	PSO
CO1	Appreciate the normal development, morphology, structure & functions of oral tissues	1,2,5,7,11	1,2,3
CO2	Basic knowledge of various laboratory techniques used in oral histology	1,2,3,4,5,7,11	1,2,3
CO3	Identifying physiologic ageing process in the dental tissues.	1,2,5,7,11	1,2,3
CO4	Appreciate/Identify the histology of dental tissues	1,2,4,5,7,11	1,2,3



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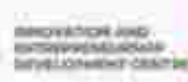


CO	PROGRAM OUTCOME (PO)											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	2	-	-	-	-	-	-	-	-	2	-
CO2	2	2	2	2	1	-	2	-	-	-	3	-
CO3	2	2	2	2	1	-	2	-	-	-	3	-
CO4	2	2	2	2	1	-	2	-	-	-	2	-
AVG	2.25	2	1.5	1.5	0.75	0	1.5	0	0	0	2.5	0



[Signature]
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COURSE OUTCOME-PROGRAM SPECIFIC OUTCOME MATRIX

CO	PROGRAM SPECIFIC OUTCOME		
	PSO1	PSO2	PSO3
CO1- Appreciate the normal development, morphology, structure & functions of oral tissues	3	3	3
CO2- Basic knowledge of various laboratory techniques used in oral histology	3	3	3
CO3- Identifying physiologic ageing process in the dental tissues.	3	3	3
CO4- Appreciate/Identify the histology of dental tissues.	3	3	3
Avg	3	3	3



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**COMPUTATION OF COURSE OUTCOME-PROGRAM OUTCOME/PROGRAM
SPECIFIC OUTCOME ATTAINMENT**

COUR SE	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
DENT AL ANAT OMY AND ORAL HIST OLOG Y	2	2	2	2	1	0	2	0	0	0	3	0	3	3	3
WEIG HTED AVER AGE	2.2 5	2	1.5	1.5	0.7 5	0	1.5	0	0	0	2.5	0	3	3	3



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COURSE OUTCOME ATTAINMENT

ASSESSMENT PATTERN

ASSESSMENT TYPE	ASSESSMENT TOOL
DIRECT ATTAINMENT	FIRST INTERNAL EXAMINATION THEORY-70 PRACTICAL-80
	SECOND INTERNAL EXAMINATION THEORY-70 PRACTICAL-80
	THIRD INTERNAL EXAMINATION THEORY-70 PRACTICAL-80
	UNIVERSITY EXAMINATION THEORY-100 PRACTICAL-100
INDIRECT ATTAINMENT	END EXAM FEED BACK

DIRECT COURSE OUTCOME ATTAINMENT = 20% OF INTERNAL EXAMINATION (IE)

+ 80% OF EXTERNAL EXAMINATION (EE) ATTAINMENT.

OVERALL COURSE OUTCOME ATTAINMENT = 90% DIRECT COURSE OUTCOME ATTAINMENT

+ 10% OF INDIRECT ATTAINMENT



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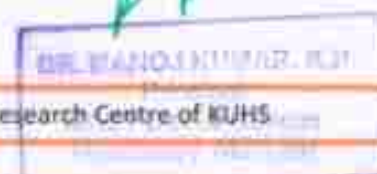
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CO ATTAINMENT TARGET LEVELS

ASSESSMENT METHODS	ATTAINMENT LEVEL	
UNIVERSITY EXAMINATIONS	THRESHOLD VALUE FOR THEORY (70) + VIVA VOCE (20) + INTERNAL ASSESSMENT (10), THRESHOLD VALUE IS 50%. i.e $0.5 \times (70+20+10) = 50$	
	LEVEL 1	50% OF STUDENTS SCORING MORE THAN 50 MARKS IN THEORY AND PRACTICAL
	LEVEL 2	60% OF STUDENTS SCORING MORE THAN 50 MARKS IN THEORY AND PRACTICAL
	LEVEL 3	70% OF STUDENTS SCORING MORE THAN 50 MARKS IN THEORY AND PRACTICAL



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COMPUTATION OF CO DIRECT ATTAINMENT

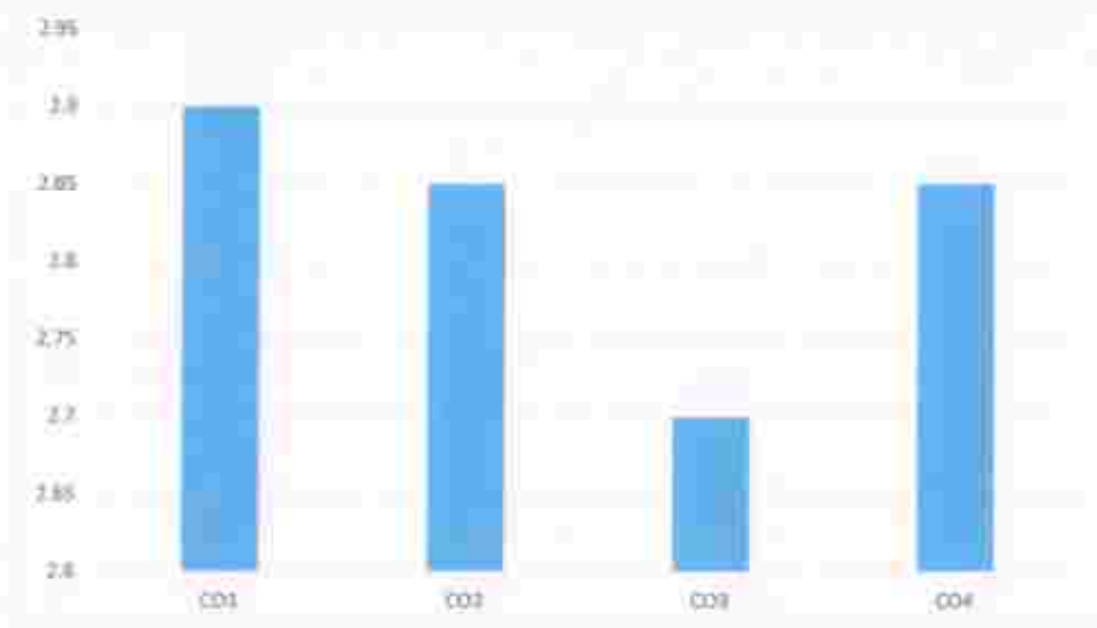
CO S	Assessment tool (internal examination /external examination)	Internal examination (IE)		EXTERNAL EXAMINATION(EE)	DIRECT CO ATTAINMENT $= (0.2 * IE \text{ ATTAINMENT LEVEL}) + (0.8 * EE \text{ ATTAINMENT LEVEL})$
		ATTAINMENT LEVEL	AVERAGE ATTAINMENT LEVEL	ATTAINMENT LEVEL	
CO 1	THEORY & PRACTICAL	2.5	2.5	3	2.9
CO 2	THEORY & PRACTICAL	2.25	2.25	3	2.85
CO 3	THEORY & PRACTICAL	1.5	1.5	3	2.7
CO 4	THEORY & PRACTICAL	2.25	2.25	3	2.85



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COMPUTATION OF CO INDIRECT ATTAINMENT IN THE COURSE:

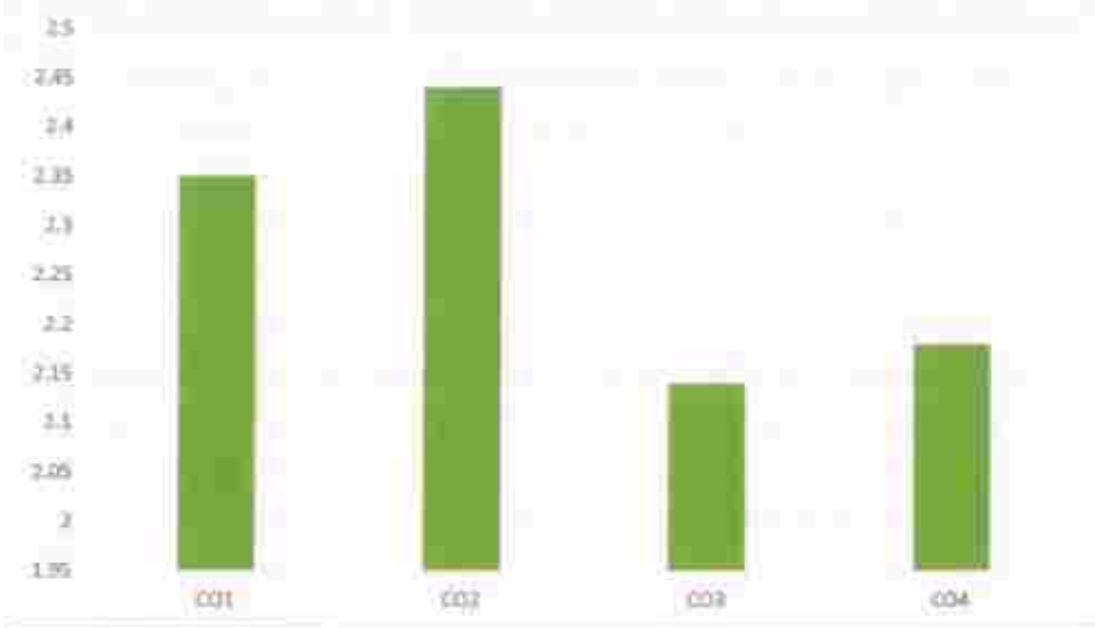
Attainment of Co Pediatric and Preventive Dentistry= (Level-1 X No of Students Attempted) + (Level-2x No of Students Attempted) + (Level-3 X No of Students Attempted)/Total No of Students.

COMPUTATION OF CO INDIRECT ATTAINMENT IN THE COURSE				
COS	CO1	CO2	CO3	CO4
Students Answered Level - 1	25	15	30	26
Students Answered Level - 2	20	22	20	25
Students Answered Level - 3	49	57	44	43
TOTAL STUDENTS PARTICIPATED	94	94	94	94
Co Attainment Level	2.35	2.44	2.14	2.18



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**COMPUTATION OF CO INDIRECT ATTAINMENT COMPUTATION OF COURSE
OUTCOME OVERALL ATTAINMENT**

CO	DIRECT CO ATTAINMENT LEVEL (DA)	INDIRECT CO ATTAINMENT LEVEL (IDA)	OVERALL CO ATTAINMENT LEVEL $0.9 \times DA + 0.1 \times IDA$
CO1	2.9	2.35	2.845
CO2	2.85	2.35	2.8
CO3	2.7	2.35	2.665
CO4	2.85	2.35	2.8
AVERAGE COATTAINMENT			2.77

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COURSE OUTCOME CORRECTIVE MEASURES FOR NEXT ACADEMIC YEAR

CO	ATTAINMENT	ACTION PLAN
C03	2.665	-REVISION CLASSES -VIDEO DEMONSTRATION -VIVA

PO\PSO ASSESMENT PROCESS

ASSESMENT TOOLS: UNIVERSITY EXAMINATION

ASSESMENT FREQUENCY: ONCE A YEAR

ASSESED BY: SUBJECT EXPERT

REVIEWED BY: HOD

METHOD: DIRECT

COURSE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
DENTAL ANATOMY	2	2	2	2	1	0	2	0	0	0	3	0
WEIGHTED AVERAGE	2.25	2	1.5	1.5	0.75	0	1.5	0	0	0	2.5	0

PO= (WEIGHTED AVERAGE VALUE OF PO X CO ATAINMENT AVERAGE)/3

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INNOVATION AND
ENTREPRENEURSHIP
DEVELOPMENT CENTRE

INTEGRITY
INTEGRITY
INTEGRITY



PO	ATTAINMENT LEVEL
PO1	$2.25 \times 2.77 / 3 = 2.077$
PO2	$2 \times 2.77 / 3 = 1.84$
PO3	$1.5 \times 2.77 / 3 = 1.385$
PO4	$1.5 \times 2.77 / 3 = 1.385$
PO5	$0.75 \times 2.77 / 3 = 0.692$
PO7	$1.5 \times 2.77 / 3 = 1.385$
PO11	$2.5 \times 2.77 / 3 = 2.308$

RESULT OF PO ATTAINMENT

COURSE	PO1	PO2	PO3	PO4	PO5	PO7	PO11
DENTAL ANATOMY AND ORAL HISTOLOGY	2.25	2	1.5	1.5	0.75	1.5	2.5
ATTAINMENT	2.077	1.84	1.385	1.385	0.692	1.385	2.308

PROGRAM OUTCOME CORRECTIVE MEASURES

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PO	ATTAINMENT	ACTION PLAN
PO1	2.077	-VIDEO DEMONSTRATIONS -OSPEE EXAMINATIONS -CASE DISCUSSIONS -VIVA -WRITTEN EXAMS
PO2	1.84	-VIDEO DEMONSTRATION OF CLINICAL CASES -SIMULATION OF ORAL AND PARAORAL STRUCTURES
PO3	1.385	-ENCOURAGE DENTAL CAMP VISITS
PO4	1.385	-PROMOTE RESEARCH ACTIVITIES
PO7	1.385	-PROMOTE VISIT TO FORENSIC LABS
PO11	2.308	-VIDEO DEMONSTRATION



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 DR. [Signature]
 DEAN, KMCT DENTAL COLLEGE
 Kozhikode

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PSO's ATTAINMENT RESULTS

PSO=weighted average value of PSO*CO attainment average/3

PSO mapping

COURSE	PSO1	PSO2	PSO3
DENTAL ANATOMY AND ORAL HISTOLOGY	3	3	3
WEIGHTED AVERAGE	3	3	3

PSO ATTAINMENT COMPUTATION

PSO	ATTAINMENT LEVEL
PSO1	$3 \times 2.77 / 3 = 2.77$
PSO2	$3 \times 2.77 / 3 = 2.77$
PSO3	$3 \times 2.77 / 3 = 2.77$

PSO ATTAINMENT LEVELS

COURSE	PSO1	PSO2	PSO3
 K. J. Somaiya Institute of Technology and Engineering Kirti Datta College Mumbai - 400 072			

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DENTAL ANATOMY AND ORAL HISTOLOGY	3	3	3
ATTAINMENT	2.77	2.77	2.77

PSO'S CORRECTIVE MEASURES

PSO	ATTAINMENT	ACTION PLAN
PSO1	2.77	-BRIEFING SESSIONS ON EMBRYOLOGY, GENERAL HISTOLOGY AND ANATOMY
PSO2	2.77	-MAKING OF MODELS AND SIMULATING THE ANATOMICAL LANDMARKS ON MODELS
PSO3	2.77	-PRESENTING SEMINARS -INVOLVING IN GROUP DISCUSSIONS -BLENDED LEARNING



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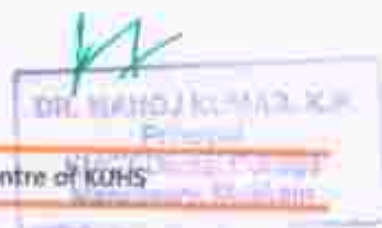




PROGRAMME OUTCOME

COURSE – GERNERAL MEDICINE

- PO 1- Integration of basic sciences, clinical dental surgery and practical and laboratory skills
- PO 2 Sufficient practical skill including patient management skill for treatment of patients of all ages with special reference to pediatric, geriatric and medically compromised and disabled patient
- PO 3 Sociological aspects of health care particularly oral health care including the reasons for the variation in oral and dental needs of the society.
- PO 4 Motivation for interdisciplinary research activities and emphasis on evidence based dentistry
- PO 5 Participation in Continual Dental Educational programs to update knowledge and skills
- PO 6 Learns significance of infection and cross infection control in dental practice
- PO 7 To learn the importance of various dental tissues in forensic sciences.
- PO 8 Attends dental hospital and general hospital postings, community camps
- PO 9 Administer all forms of local anesthesia knowledge of various maxillofacial problems like injuries, infections and deformities of the jaw.
- PO 10 Restoration of various kinds and endodontic procedures, removable and fixed prosthodontics.
- PO 11 Appreciate the role of dentofacial growth and development of malocclusion.
- PO 12. Train in various radiological techniques and its interpretations



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PROGRAMME SPECIFIC OUTCOME (PSO)

PSO1- Effectively treating patients who are medically compromised

PSO2- Application of recent diagnostic modalities in dental patients

with systemic illness PSO3- Emergency medical management of dental patient

Course Outcome (CO)

CO 1- Special emphasis should be given throughout on the importance of various diseases as applicable to dentistry.

CO 2- Special precautions/ contraindication for anesthesia in oral and dental procedures in different systemic diseases.

CO 3- Oral manifestations of systemic diseases. CO 4- Medical emergencies in dental practice.

CO 5- A dental student is taught in such a manner that he/she is able to record the arterial pulse, blood pressure and be capable of suspecting by sight and superficial examination of the body, diseases of the heart, lungs, kidneys, blood etc.

CO 6- He should be capable of handling medical emergencies encountered in dental practice.



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Sl NO:	Course Outcome (CO)	KNOWLEDGE LEVEL (BLOOMS LEVEL)
CO1	Special emphasis should be given to understand the importance of various diseases as applicable to dentistry.	L2
CO2	Should able to analyze Special precautions/ contraindication for anesthesia in oral and dental procedures in different systemic diseases.	L4
CO3	Should apply their knowledge to identify Oral manifestations of systemic diseases.	L3
CO4	Medical emergencies and its application in dental practice.	L3
CO5	A dental student needs to apply in such a manner that he/she is able to record the arterial pulse, blood pressure, sight and superficial examination of the body, diseases of the heart, lungs, kidneys, etc.	L3
CO6	He should apply and be capable of handling medical emergencies encountered in dental practice.	L3

Course Outcome (CO)	PO	PSO
Special emphasis should be given to understand the importance of various diseases as applicable to dentistry.	1,2,3	1,2,3
Should able to analyze Special precautions/ contraindication for anesthesia in oral and dental procedures in different systemic diseases.	2,9	1,2,3
Should apply their knowledge to identify Oral manifestations of systemic diseases.	1,2,3	1,2,3
Medical emergencies and its	1,2,3	1,2,3

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application in dental practice.		
A dental student needs to apply in such a manner that he/she is able to record the arterial pulse, blood pressure, sight and superficial examination of the body, diseases of the heart, lungs, kidneys, etc.	1,2,3	1,2,3
He should apply and be capable of handling medical emergencies encountered in dental practice.	1,2,3,6	1,2,3

PROGRAM OUTCOME(PO)

CO	PROGRAM OUTCOME											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	3	-	-	-	-	-	-	-	-	-
CO2	-	2	-	-	-	-	-	-	3	-	-	-
CO3	3	3	3	-	-	-	-	-	-	-	-	-
CO4	1	1	1	-	-	-	-	-	-	-	-	-
CO5	2	3	2	-	-	-	-	-	-	-	-	-
CO6	2	3	2	-	-	-	-	-	-	-	-	-
AVG	2.2	2.3	2.2	0	0	0	0	0	0.5	0	0	0

COURSE OUTCOME-PROGRAM OUTCOME MATRIX

SL NO:	Course Outcome (CO)	PROGRAM SPECIFIC OUTCOME		
		PSO 1	PSO 2	PSO 3
CO1	Special emphasis should be given to understand the importance of various diseases as applicable to dentistry.	2	-	-
CO2	Should able to analyze Special precautions/contraindication for anesthesia in oral and dental procedures in different systemic diseases.	-	-	2
CO3	Should apply their knowledge to identify Oral	3	1	1

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	manifestations of systemic diseases.			
CO4	Medical emergencies and its application in dental practice.	2	1	3
CO5	A dental student needs to apply in such a manner that he/she is able to record the arterial pulse, blood pressure, sight and superficial examination of the body, diseases of the heart, lungs, kidneys, etc.	2	1	2
CO6	He should apply and be capable of handling medical emergencies encountered in dental practice.	2	1	3
AVERAGE		1.83	0.66	1.83

COMPUTATION OF COURSE OUTCOME-PROGRAM OUTCOME/PROGRAM SPECIFIC MATRIX

COURSE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
GENERAL MEDICINE	2	2	2	0	0	0	0	0	1	0	0	0	2	1	2
WEIGHTED AVG	2.2	2.3	2.2	0	0	0	0	0	0.5	0	0	0	1.83	0.66	1.83



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COURSE OUTCOME ATTAINMENT ASSESSMENT PATTERN

ASSESSMENT TYPE	ASSESSMENT TOOL
DIRECT ATTAINMENT	FIRST INTERNAL EXAMINATION THEORY-70 PRACTICAL -80
	SECOND INTERNAL EXAMINATION THEORY-70 PRACTICAL -80
	THIRD INTERNAL EXAMINATION THEORY-70 PRACTICAL -80
	UNIVERSITY EXAMINATION THEORY- 100 PRACTICAL -100
INDIRECT ATTAINMENT	END EXAM FEED BACK

DIRECT COURSE OUTCOME ATTAINMENT = 20% OF INTERNAL EXAMINATION (IE) ATTAINMENT + 80% OF EXTERNAL EXAMINATION (EE) ATTAINMENT.

OVERALL COURSE OUTCOME ATTAINMENT = 90% DIRECT COURSE OUTCOME ATTAINMENT + 10% OF INDIRECT ATTAINMENT



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CO ATTAINMENT TARGET LEVELS

ASSESSMENT METHODS	ATTAINMENT LEVEL	
UNIVERSITY EXAMINATIONS	THRESHOLD VALUE FOR THEORY (70) + VIVA VOCE (20) + INTERNAL ASSESSMENT (10). THRESHOLD VALUE IS 50%.	
	i.e $0.5 \times (70+20+10) = 50$	
	LEVEL 1	50% OF STUDENTS SCORING MORE THAN 50 MARKS IN THEORY AND PRACTICAL
	LEVEL 2	60% OF STUDENTS SCORING MORE THAN 50 MARKS IN THEORY AND PRACTICAL
	LEVEL 3	70% OF STUDENTS SCORING MORE THAN 50 MARKS IN THEORY AND PRACTICAL



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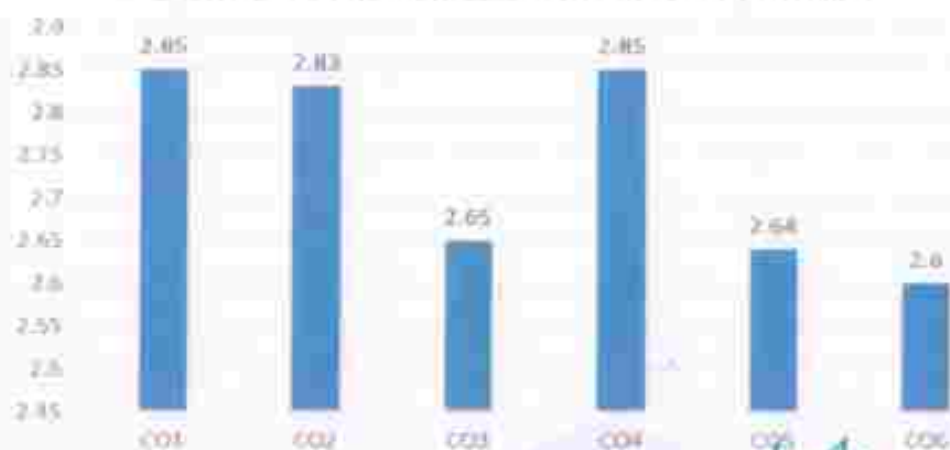




COMPUTATION OF CO DIRECT ATTAINMENT

COs	Assessment tool (internal examination /external examination)	Internal examination (IE)		EXTERNAL EXAMINATION (EE)	DIRECT CO ATTAINMENT = (0.2*IE ATTAINMENT LEVEL) + (0.8*E ATTAINMENT LEVEL)
		ATTAINMENT LEVEL	AVERAGE ATTAINMENT LEVEL	ATTAINMENT LEVEL	
CO1	THEORY & PRACTICAL	2.3	2.3	3	2.85
CO2	THEORY & PRACTICAL	2.15	2.15	3	2.83
CO3	THEORY & PRACTICAL	1.25	1.25	3	2.65
CO4	THEORY & PRACTICAL	2.3	2.3	3	2.85
CO5	THEORY & PRACTICAL	1.2	1.2	3	2.64
CO6	THEORY & PRACTICAL	1	1	3	2.6

COMPUTATION OF CO DIRECT ATTAINMENT



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COMPUTATION OF CO INDIRECT ATTAINMENT IN THE COURSE

Attainment of Co General Medicine= (Level-1 X No of Students Attempted) + (Level-2x No of Students Attempted) + (Level-3 X No of Students Attempted) / Total No of Students

COMPUTATION OF CO INDIRECT ATTAINMENT IN THE COURSE

COS	CO1	CO2	CO3	CO4	CO5	CO6
Students	8	10	09	7	8	6
Answered Level - 1						
Students	15	14	12	13	14	10
Answered Level - 2						
Students Answered Level -3	28	27	30	31	29	35
TOTAL	51	51	51	51	51	51
STUDENTS PARTICIPATED						
Co Attainment Level	2.4	2.3	2.41	2.47	2.41	2.56



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ASSESSMENT TOOLS: UNIVERSITY EXAMINATION

ASSESSMENT FREQUENCY: ONCE A YEAR

ASSESSED BY: SUBJECT EXPERT

REVIEWED BY: HOD

METHOD: DIRECT

METHOD: DIRECT

COURSE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
GENERAL MEDICINE	2	2	2	0	0	0	0	0	1	0	0	0
WEIGHTED	2.2	2.3	2.2	0	0	0	0	0	0.5	0	0	0
AVERAGE												

PO= [WEIGHTED AVERAGE VALUE OF PO X CO ATAINMENT AVERAGE]/3

PO	ATTAINMENT LEVEL
PO1	$2.2 \times 2.70 / 3 = 1.98$
PO2	$2.3 \times 2.70 / 3 = 2.07$
PO3	$2.2 \times 2.70 / 3 = 1.98$
PO9	$0.5 \times 2.70 / 3 = 0.45$

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RESULT OF PO ATTAINMENT

COURSE	PO1	PO2	PO3	PO9
GENERAL MEDICINE	2.2	2.3	2.2	0.5
ATTAINMENT	1.98	2.07	1.98	0.45

PROGRAM OUTCOME CORRECTIVE MEASURES

PO	ATTAINMENT	ACTION PLAN
PO1	1.98	VIVA, MOCK CLINICAL EXAMS
PO2	2.07	ASSISTING PG CASES, CASE DISCUSSIONS
PO3	1.98	SETTING COMPULSORY QUOTA FOR ATTENDING CDE, INTERCOLLEGE CDE PARTICIPATION
PO9	0.45	MOCK PRECLINICAL EXERCISES

PSO's ATTAINMENT RESULTS

PSO=weighted average value of PSO*CO attainment average/3

COURSE	PSO1	PSO2	PSO3
GENEREAL MEDICINE	1	1	2
WEIGHTED AVERAGE	1.83	0.66	1.83

PSO ATTAINMENT COMPUTATION

PSO	ATTAINMENT LEVEL
PSO 1	$1.83 \times 2.70 / 3 = 1.64$
PSO2	$0.66 \times 2.70 / 3 = 0.594$
PSO3	$1.83 \times 2.70 / 3 = 1.64$



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PSO ATTAINMENT LEVELS

COURSE	PSO 1	PSO2	PSO3
GENERAL MEDICINE	1.83	0.66	1.83
ATTAINMENT	1.64	0.59	1.64

PSO'S CORRECTIVE MEASURES

PSO	ATTAINMENT	ACTION PLAN
PSO1	1.83	PROMOTE POSTING IN GERIATRIC WARDS ASSIST MORE TERMINAL ILL PATIENT MANAGEMENT
PSO2	1.64	SEMINARS ON ADVANCED DIAGNOSTIC AIDS INCREASE VISIT ON LABS
PSO3	1.64	ASSISTING MORE MEDICAL EMERGENCY CASES



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Principal
2023

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ANATOMY INCLUDING EMBRYOLOGY AND HISTOLOGY

2022-2023

Program outcome

- PO 1.** Integration of basic sciences, clinical dental surgery and practical and laboratory skills
- PO 2.** Sufficient practical skill including patient management skill for treatment of patients of all ages with special reference to pediatric, geriatric and medically compromised and disabled patient
- PO 3.** Sociological aspects of health care particularly oral health care including the reasons for the variation in oral and dental needs of the society.
- PO 4.** Motivation for interdisciplinary research activities and emphasis on evidence based dentistry
- PO 5.** Participation in Continual Dental Educational programs to update knowledge and skills
- PO 6.** Learns significance of infection and cross infection control in dental practice
- PO 7.** To learn the importance of various dental tissues in forensic sciences.
- PO 8.** Attends dental hospital and general hospital postings, community camps
- PO 9.** Administer all forms of local anesthesia knowledge of various maxillofacial problems like injuries, infections and deformities of the jaw.
- PO 10.** Restoration of various kinds and endodontic procedures, removable and fixed prosthodontics.
- PO 11.** Appreciate the role of dentofacial growth and development of malocclusion.
- PO 12.** Train in various radiological techniques and its interpretations

Program specific outcome (PSO)

- PSO 1) Simulation based learning
- PSO 2) Experiential based learning on cadaver and histological specimens
- PSO 3) Integrated learning with dental anatomy


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COURSE OUTCOME (CO)

Co 1) Learn to dissect & demonstrate the cadavers & the knowledge is correlated with living subjects during medical examinations.

Co 2) Know the anatomical basis of disease & injury.

Co3) Know the microscopic structure of the various tissues, a pre-requisite for understanding of the disease processes.

Co4) Have an idea about the nervous system to locate the site of lesions, an idea about the basis of abnormal development, critical stage of development, effect of teratogens, genetic mutations.

Co5) Know the sectional anatomy of head, neck & brain to read the features in radiographs.

SL.NO.	COURSE OUTCOME (CO)	KNOWLEDGE LEVEL (BLOOMS LEVEL)
CO1	Learn to dissect & demonstrate the cadavers & the knowledge is correlated with living subjects during medical examinations.	L2
CO 2	Know the anatomical basis of disease & injury.	L3
CO 3	Know the microscopic structure of the various tissues, a pre-requisite for understanding of the disease processes.	L1
CO 4	Have an idea about the nervous system to locate the site of lesions, an idea about the basis of abnormal development, critical stage of development, effect of teratogens, genetic mutations.	L5
CO 5	Know the sectional anatomy of head, neck & brain to read the features in radiographs.	L5

COURSE OUTCOME-PROGRAM OUTCOME MATRIX

SLNO	COURSE OUTCOME	PO	PSO
CO 1	Learn to dissect & demonstrate the cadavers & the knowledge is correlated with living subjects during medical examinations.	1,2,3,4,5,6,7,9,11,12	1,2,3
CO 2	Know the anatomical basis of disease & injury.	1,2,3,4,5,6,7,11,12	1,2,3
CO 3	Know the microscopic structure of the various tissues, a pre-requisite	1,2,3,4,5,6,7,11,12	1,2,3

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	for understanding of the disease processes.		
CO 4	Have an idea about the nervous system to locate the site of lesions, an idea about the basis of abnormal development, critical stage of development, effect of teratogens, genetic mutations.	1,2,3,4,5,6,7,9,11,12	1,2,3
CO 5	Know the sectional anatomy of head, neck & brain to read the features in radiographs.	1,2,3,4,5,6,7,11,12	1,2,3

CO	PROGRAM OUTCOME (PO)											
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	2	1	1	2	1	3	3	-	1	-	1	1
CO 2	1	1	2	1	1	2	2	-	-	-	1	2
CO 3	1	1	1	1	1	1	1	-	-	-	1	2
CO 4	1	1	1	1	1	1	1	-	1	-	2	1
CO 5	1	1	1	1	1	1	1	-	-	-	1	2
	1.2	1	1.2	1.2	1	1.6	1.6	0	0.4	0	1.2	1.6

COURSE OUTCOME- PROGRAM SPECIFIC OUTCOME MATRIX

CO	PROGRAM SPECIFIC OUTCOME		
	PSO 1	PSO 2	PSO 3
Learn to dissect & demonstrate the cadavers & the knowledge is correlated with living subjects during medical examinations.	3	3	1
Know the anatomical basis of disease & injury.	1	1	1
Know the microscopic structure of the various tissues, a pre-requisite for understanding of the disease processes.	1	1	2
Have an idea about the nervous system to locate the site of lesions, an idea about the basis of abnormal development, critical stage of development, effect of teratogens, genetic mutations.	1	1	1

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Know the sectional anatomy of head, neck & brain to read the features in radiographs.	1	2	2
AVERAGE	1.4	1.6	1.4

COMPUTATION OF COURSE OUTCOME-PROGRAM OUTCOME/PROGRAM SPECIFIC OUTCOME ATTAINMENT

COURSE	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O 1	PS O 2	PS O 3
ANATOMY INCLUDING EMBRYOLOGY AND HISTOLOGY	1	1	1	1	1	2	2	0	1	0	1	2	1	2	1
WEIGHTED AVERAGE	1.2	1	1.2	1.2	1	1.6	1.6	0	0.4	0	1.2	1.6	1.4	1.6	1.4

COURSE OUTCOME ATTAINMENT

ASSESSMENT PATTERN

ASSESSMENT TYPE	ASSESSMENT TOOL
DIRECT ATTAINMENT	FIRST INTERNAL THEORY -70 PRACTICAL -80
	SECOND INTERNAL THEORY -70 PRACTICAL -80
	THIRD INTERNAL THEORY -70 PRACTICAL -80
	UNIVERSITY EXAMINATION THEORY -70 PRACTICAL -80
INDIRECT ATTAINMENT	END EXAM FEED BACK

DIRECT COURSE OUTCOME ATTAINMENT :- 20% OF INTERNAL EXAMINATION (IE) ATTAINMENT + 80% OF EXTERNAL EXAMINATION (EE) ATTAINMENT.

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OVERALL COURSE OUTCOME ATTAINMENT ~: 90% DIRECT Q

CO-ATTAINMENT TARGET LEVELS

ASSESSMENT METHODS	ATTAINMENT LEVEL	
UNIVERSITY EXAMINATIONS	THRESHOLD VALUE FOR THEORY (70%) + VIVA VOICE (20) +INTERNAL ASSESSMENT (10), THRESHOLD VALUE IS 50% ie. $0.5 \times (70+20+10) = 50$	
	LEVEL 1	50% OF STUDENTS SCORING MORE THAN 50 MARKS IN THEORY AND PRACTICAL
	LEVEL 2	60% OF STUDENTS SCORING MORE THAN 50 MARKS IN THEORY AND PRACTICAL
	LEVEL 3	70% OF STUDENTS SCORING MORE THAN 50 MARKS IN THEORY AND PRACTICAL

COMPUTATION OF CO DIRECT ATTAINMENT

CO	ASSESSMENT TOOL (INTERNAL /EXTERNAL EXAMINATION)	INTERNAL EXAMINATION		EXTERNAL EXAMINATION	DIRECT CO ATTAINMENT = (0.2*IE ATTAINMENT LEVEL)+ (0.8*EE ATTAINMENT LEVEL)
		ATTAINMENT LEVEL	AVERAGE ATTAINMENT LEVEL	ATTAINMENT LEVEL	
CO1	THEORY & PRACTICAL	2.5	2.5	3	2.9
CO 2	THEORY & PRACTICAL	2.25	2.25	3	2.85
CO 3	THEORY & PRACTICAL	1.5	1.5	3	2.7
CO 4	THEORY & PRACTICAL	2.25	2.25	3	2.85
CO 5	THEORY & PRACTICAL	1.17	1.17	3	2.63

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COURSE OUTCOME DIRECT ATTAINMENT



Computation of co indirect attainment in the course

Attainment of co anatomy = (level-1 x No. of students attempted) + (level-2 x No. of students attempted) + (level-3 x No. of students attempted) / total No of students.

Computation of co indirect attainment in the course

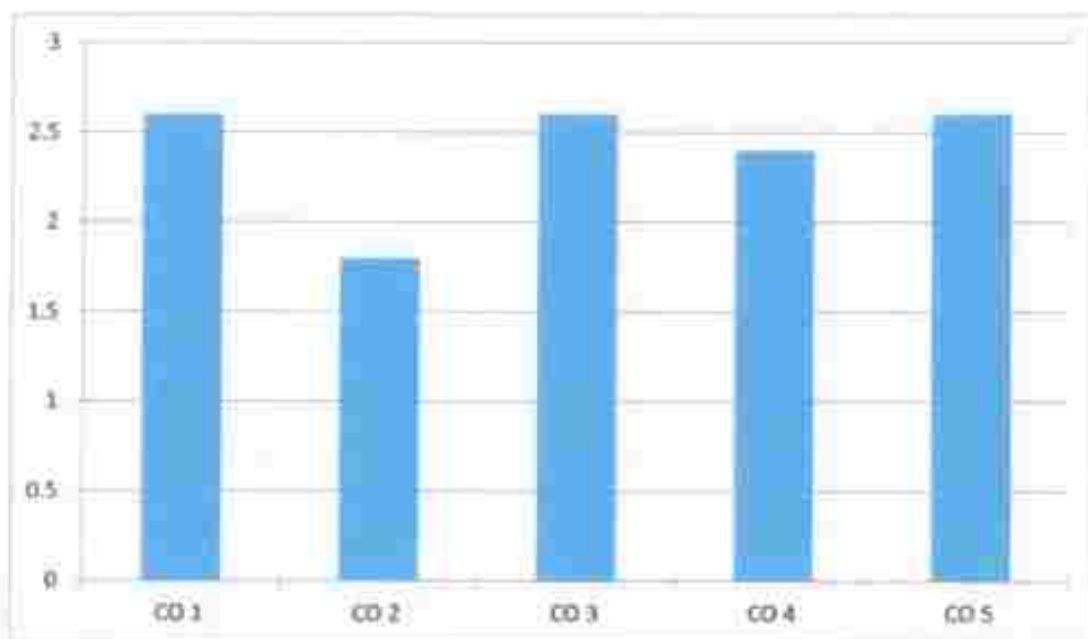
CO	CO-1	CO2	CO3	CO4	CO5
Students Answered level Level-1	10	20	20	15	20
Students Answered level Level 2	20	60	50	30	30
Students Answered level Level 3	70	20	30	55	50
Total students participated	100	100	100	100	100
Co attainment level	2.6	1.8	2.6	2.4	2.6

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Computation of indirect attainment



Computation of course outcome overall attainment

Co	Direct CO ATTAINMENT LEVEL (DA)	INDIRECT CO ATTAINMENT LEVEL (IDA)	OVERALL CO ATTAINMENT LEVEL $0.9 \times DA + 0.1 \times IDA$
CO 1	2.9	2.6	2.87
CO 2	2.85	1.8	2.75
CO 3	2.7	2.6	2.69
CO 4	2.85	2.4	2.82
CO 5	2.63	2.6	2.5
AVERAGE CO ATTAINMENT			2.73



COURSE OUTCOME CORRECTIVE MEASURES FOR NEXT ACADEMIC YEAR

Signature of the Head of the Department
Date: 10/11/2023
Name of the Head of the Department
Address: KMCT Dental College, Kozhikode

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CO	ATTAINMENT	ACTION PLAN
CO 3	2.6	INTEGRATED LEARNING DISCUSSIONS
CO 5	2.5	VIVA REVISION PLANS

PO/PSO ASSESSMENT PROCESS

ASSESSMENT TOOLS: UNIVERSITY EXAMINATION

ASSESSMENT FREQUENCY : ONCE A YEAR

ASSESSED BY : SUBJECT EXPERT

REVIEWED BY : HOD

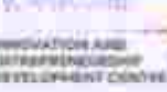
METHOD : DIRECT

COURSE	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
HUMAN ANATOMY INCLUDING EMBRYOLOGY & HISTOLOGY	1	1	1	1	1	2	2	0	1	0	1	2
WEIGHTED AVERAGE	1.2	1	1.2	1.2	1	1.6	1.6	0	0.4	0	1.2	1.6

$PO = \{ \text{WEIGHTED AVERAGE VALUE OF PO} \times \text{CO ATTAINMENT VALUE} \} / 3$

PO	ATTAINMENT LEVEL
PO1	$1.2 \times 2.73/3 = 1$
PO2	$1 \times 2.73/3 = 0.91$
PO3	$1.2 \times 2.73/3 = 1$
PO4	$1.2 \times 2.73/3 = 1$
PO5	$1 \times 2.73/3 = 0.91$
PO6	$1.6 \times 2.73/3 = 1.45$
PO7	$1.6 \times 2.73/3 = 1.45$
PO8	$0 \times 2.73/3 = 0$
PO9	$0.4 \times 2.73/3 = 0.36$
PO10	$0 \times 2.73/3 = 0$
PO11	$1.2 \times 2.73/3 = 1$
PO12	$1.6 \times 2.73/3 = 1.45$

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RESULT OF ATTAINMENT

COURSE	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
HUMAN ANATOMY INCLUDING EMBRYOLOGY & HISTOLOGY	1.2	1	1.2	1.2	1	1.6	1.6	0	0.4	0	1.2	1.6
ATTAINMENT	1	0.91	1	1	0.91	1.45	1.45	0	0.36	0	1	1.45

PROGRAM OUTCOME CORRECTIVE MEASURES

PO	ATTAINMENT	ACTION PLAN
PO2	0.91	VIVA, SPOTTER EXAMS, DISCUSSIONS
PO5	0.91	SETTING COMPULSORY ATTENDANCE FOR CDE AND OTHER CONTINUOUS EDUCATION PROGRAMS, SCIENTIFIC PRESENTATIONS
PO8	0	ENSURE MORE PRACTICAL CLASSES WITH IN DEPTH SPECIMEN AND CADAVER EXPERIENTIAL LEARNING
PO9	0.36	RAPID VIVA AND SEMINARS
PO10	0	MORE APPLIED BASICS DISCUSSIONS, TESTS.

PSO'S ATTAINMENT RESULTS

PSO = WEIGHTED AVERAGE VALUE OF PSOX CO ATTAINMENT AVERAGE /3

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PSO MAPPING

COURSE	PSO 1	PSO 2	PSO 3
HUMAN ANATOMY INCLUDING EMBRYOLOGY & HISTOLOGY	1	2	1
WEIGHTED AVERAGE	1.4	1.6	1.4

PSO'S ATTAINMENT COMPUTATIONS

PSO	ATTAINMENT LEVEL
PSO 1	$1.4 \times 2.73/3 = 1.27$
PSO 2	$1.6 \times 2.73/3 = 1.45$
PSO 3	$1.4 \times 2.73/3 = 1.27$

PSO ATTAINMENT LEVELS

COURSE	PSO 1	PSO 2	PSO 3
HUMAN ANATOMY INCLUDING EMBRYOLOGY & HISTOLOGY	1.4	1.6	1.4
ATTAINMENT	1.27	1.45	1.27

PSO CORRECTIVE MEASURES

PSO	ATTAINMENT	ACTION PLAN
PSO 1	1.27	INTRODUCING MORE DIGITAL METHODS OF TEACHING, VIVA, DISCUSSIONS
PSO 3	1.27	REPEATED CLASS TESTS, SELF TEACHING SESSIONS, GROUP DISCUSSIONS.

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PROGRAMME OUTCOME- BDS

COURSE - GENERAL PATHOLOGY

PROGRAMME OUTCOME 2022-2023

PO1.Integration of basic sciences, clinical dental surgery and practical and laboratory skills

PO2.Sufficient practical skill including patient management skill for treatment of patients of all ages with special reference to pediatric, geriatric and medically compromised and disabled patient

PO3.Sociological aspects of health care particularly oral health care including the reasons for the variation in oral and dental needs of the society.

PO4.Motivation for interdisciplinary research activities and emphasis on evidence based dentistry

PO5.Participation in Continual Dental Educational programs to update knowledge and skills

PO6.Learns significance of infection and cross infection control in dental practice

PO7.To learn the importance of various dental tissues in forensic sciences.

PO8.Attends dental hospital and general hospital postings, community camps

PO9.Administer all forms of local anesthesia knowledge of various maxillofacial problems like injuries, infections and deformities of the jaw.

PO10.Restoration of various kinds and endodontic procedures, removable and fixed prosthodontics.

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PO11. Appreciate the role of dentofacial growth and development of malocclusion.

PO12. Train in various radiological techniques and its interpretations

PROGRAM SPECIFIC OUTCOME

PSO1- Recent advances in hypersensitivity reaction

PSO2- Newer medicaments for healing without scarring

PSO3- Advanced diagnostic aids

COURSE OUTCOME

At the end of the course the student should be competent to:

CO1- Apply the scientific study of disease processes, which result in morphological and functional alterations in cells, tissues and organs to the study of pathology and the practice of dentistry.

CO2- To demonstrate and analyze pathological changes macroscopically explain their observations in terms of disease processes.

CO3- To integrate knowledge from the basic sciences, clinical medicine and dentistry in the study of Pathology.

CO4- To demonstrate understanding, of the capabilities and limitations of morphological Pathology in its contribution to medicine, dentistry and biological research.

CO5- To demonstrate ability to consult resource materials outside lectures, laboratory and tutorial classes.



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S.NO	COURSE OUTCOME	KNOWLEDGE LEVEL (BLOOMS LEVEL)
CO1	Apply the scientific study of disease processes, which result in morphological and functional alterations in cells, tissues and organs to the study of pathology and the practice of dentistry.	L.3
CO2	To demonstrate and analyze pathological changes macroscopically explain their observations in terms of disease processes.	L.4
CO3	To integrate knowledge from the basic sciences, clinical medicine and dentistry in the study of Pathology.	L.2
CO4	To demonstrate understanding of the capabilities and limitations of morphological Pathology in its contribution to medicine, dentistry and biological research.	L.4
CO5	To demonstrate ability to consult resource materials outside lectures, laboratory and tutorial classes.	L.3



Handwritten signature and stamp
DR. HANDE KUNATH K.
Principal

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COURSE OUTCOME- PROGRAM OUTCOME MATRIX

S.NO	COURSE OUTCOME	PO	PSO
CO1	Apply the scientific study of disease processes, which result in morphological and functional alterations in cells, tissues and organs to the study of pathology and the practice of dentistry.	1,4,6,7,12	1,2,3
CO2	To demonstrate and analyze pathological changes macroscopically explain their observations in terms of disease processes.	1,4,6,7,9,12	1,2,3
CO3	To integrate knowledge from the basic sciences, clinical medicine and dentistry in the study of Pathology.	1,2,3,9,12	1,2,3
CO4	To demonstrate understanding , of the capabilities and limitations of morphological Pathology in its contribution to medicine, dentistry and biological research.	1,6,7,9,12	1,2,3
CO5	To demonstrate ability to consult resource materials outside lectures, laboratory and tutorial classes.	1,6,9,12	1,2,3



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🌐 www.kmctdentalcollege.org





PROGRAM OUTCOME MATRIX

CO	PROGRAM OUTCOME (PO)											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	-	-	2	-	1	1	-	-	-	-	1
CO2	2	-	-	2	-	2	1	-	1	-	-	1
CO3	3	1	2	-	-	-	-	-	2	-	-	2
CO4	2	-	-	-	-	1	1	-	2	-	-	2
CO5	3	-	-	-	-	1	-	-	2	-	-	1
AVG	2.4	0.2	0.4	0.8	0	1	0.6	0	1.4	0	0	1.2



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COURSE OUTCOME-PROGRAM SPECIFIC OUTCOME MATRIX

CO	PROGRAM SPECIFIC OUTCOME		
	PSO1	PSO2	PSO3
CO1-Apply the scientific study of disease processes, which result in morphological and functional alterations in cells, tissues and organs to the study of pathology and the practice of dentistry.	2	1	1
CO2-To demonstrate and analyze pathological changes macroscopically explain their observations in terms of disease processes.	1	1	2
CO3-To integrate knowledge from the basic sciences, clinical medicine and dentistry in the study of Pathology.	2	2	2
CO4-To demonstrate understanding, of the capabilities and limitations of morphological Pathology in its contribution to medicine, dentistry and biological research.	1	1	2
CO5-To demonstrate ability to consult resource materials outside lectures, laboratory and tutorial classes.	1	1	1
AVG	1.4	1.2	1.6

INFERENCE 1-LOW,2- MEDIUM 3-high

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**COMPUTATION OF COURSE OUTCOME –PROGRAM
OUTCOME/PROGRAMSPECIFIC OUTCOME ATTAINMENT**

COURSE	P O 1	P O 2	PO 3	P O 4	P O 5	PO 6	PO 7	PO8	P O 9	PO 10	PO 11	PO1 2	PSO1	PS O2	PSO3
GENER AL PATHOL OGY	2	0	0	1	0	1	1	0	1	0	0	1	1	1	1
WEIGHT ED AVERA GE	2. 4	0. 2	0.4	0. 8	0	1	0.6	0	1. 4	0	0	1.2	1.2	1.4	1.6

COURSE OUTCOME ATTAINMENT

ASSESSMENT PATTERN

ASSESSMENT TYPE	ASSESSMENT TOOL
DIRECT ATTAINMENT	FIRST INTERNAL THEORY -70 PRACTICAL-80
	SECOND INTERNAL THEORY - 70 PRACTICAL- 80
	THIRD INTERNAL THEORY- 70 PRACTICAL- 80

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	UNIVERSITY EXAMINATION THEORY- 100 PRACTICAL- 100
--	---

ASSESSMENT METHODS	ATTAINMENT LEVEL
UNIVERSITY EXAMINATIONS	THRESHOLD VALUE FOR THEORY (70) + VIVA VOCE (20) + INTERNAL ASSESSMENT (10). THRESHOLD VALUE IS 50%. i.e. $0.5 \times (70 + 20 + 10) = 50$
	LEVEL 1: 50% OF STUDENTS SCORING MORE THAN 50 MARKS IN THEORY AND

INDIRECT ATTAINMENT	END EXAM FEEDBACK
---------------------	-------------------

Direct course outcome attainment- 20% internal exam (IE) attainment+ 80% of external examination attainment.

Overall course outcome attainment- 90% direct course outcome attainment+ 10% of indirect attainment



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	PRACTICAL
LEVEL 2	60% OF STUDENTS SCORING MORE THAN 50 MARKS IN THEORY AND PRACTICAL
LEVEL 3	70% OF STUDENTS SCORING MORE THAN 50 MARKS IN THEORY AND PRACTICAL

COMPUTATION OF CO DIRECT ATTAINMENT

COs	Assessment tool (internal examination / external examination)	Internal examination (IE)		EXTERNAL EXAMINATION (EE)	DIRECT CO ATTAINMENT $= (0.2 \times \text{IE ATTAINMENT LEVEL}) + (0.8 \times \text{EE ATTAINMENT LEVEL})$
		ATTAINMENT LEVEL	AVERAGE ATTAINMENT LEVEL	ATTAINMENT LEVEL	
CO1	THEORY & PRACTICAL	2.5	2.5	3	2.9
CO2	THEORY & PRACTICAL	2.25	2.25	3	2.8
CO3	THEORY & PRACTICAL	1.5	1.5	3	2.7
CO4	THEORY & PRACTICAL	2.25	2.25	3	2.5
CO5	THEORY & PRACTICAL	1.17	1.17	3	2.6

COURSE OUTCOME DIRECT ATTAINMENT

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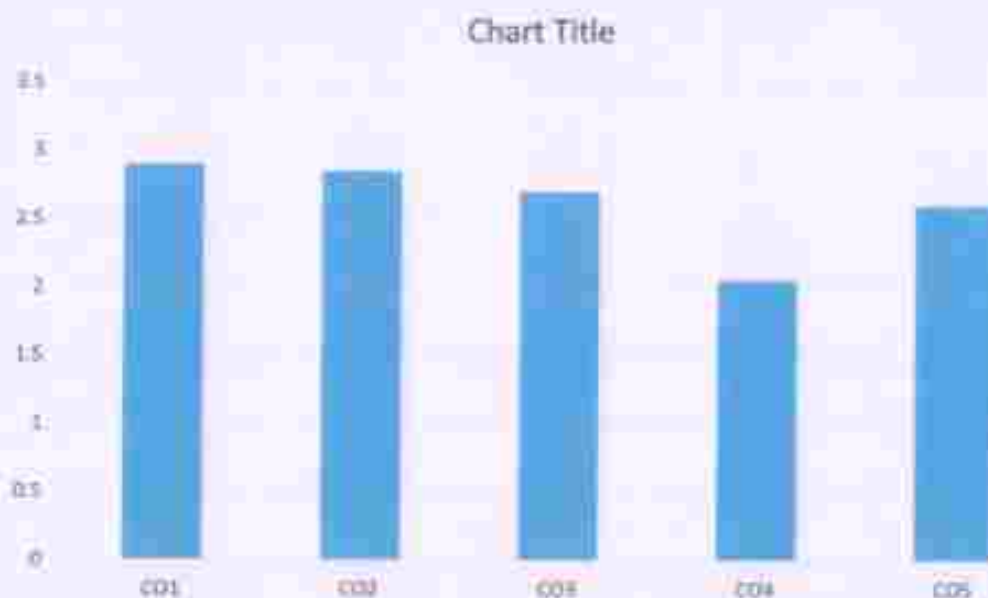
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ASSOCIATION AND
UNIVERSITY
DEVELOPMENT





COMPUTATION OF CO INDIRECT ATTAINMENT IN THE COURSE:

Attainment of Co GENERAL PATH= (Level-1 X No. of Students Attempted) + (Level-2x No of Students Attempted) + (Level-3 X No of Students Attempted)/Total No of Students

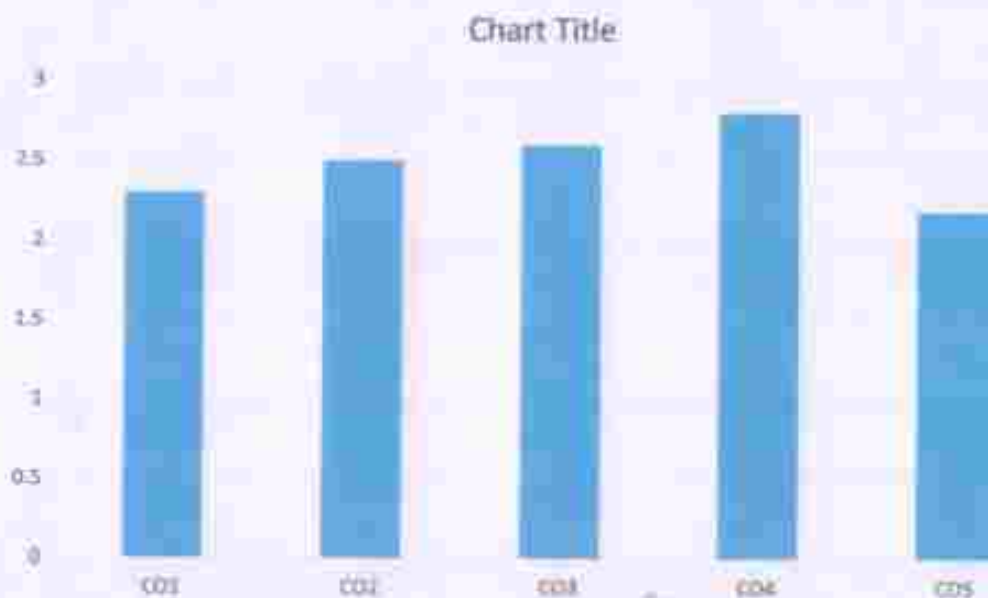
COMPUTATION OF CO INDIRECT ATTAINMENT IN THE COURSE					
COS	CO1	CO2	CO3	CO4	CO5
Students Answered Level -1	15	15	13	15	13
Students Answered Level -2	21	23	25	18	26
Students Answer	37	35	35	40	34

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ed Level - 3					
TOTAL STUDENTS PARTICIPATED	73	73	73	73	73
Artificially	2.30	2.27	2.30	2.34	2.28



COMPUTATION OF CO INDIRECT
ATTAINMENT COMPUTATION OF COURSE
OUTCOME OVERALL ATTAINMENT

CO	DIRECT O AATTAINMENT LE	INDIRECT O AATTAINMENT LEVEL(IDA)	OVERALL O AATTAINMENT LEVEL $0.9 \times DA + 0.1 \times IDA$
----	----------------------------------	--	--

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	VEL(DA)		
CO1	2.9	2.3	2.84

COURSE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	P O 1 2
GENERAL PATHOLOG	2	0	0	1	0	1	1	0	1	0	0	1

CO2	2.8	2.5	2.77
CO3	2.7	2.8	2.71
CO4	2.5	2.9	2.54
CO5	2.6	2.2	2.56
AVERAGE CO ATTAINMENT			2.68

COURSE OUTCOME CORRECTIVE MEASURES FOR NEXT ACADEMIC YEAR

CO	ATTAINMENT	ACTION PLAN
CO4	2.54	RAPID REVISION VIVA
CO5	2.56	CLASS TEST VIVA

PO/PSO ASSESSMENT PROCESS



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Y												
WEIGHTED AVERAGE	2.4	0.2	0.4	0.8	0	1	0.6	0	1.4	0	0	1.2

PO	ATTAINMENT LEVEL
PO1	$2.46 \times 2.68 / 3 = 2.19$
PO2	$0.2 \times 2.68 / 3 = 0.17$
PO3	$0.4 \times 2.68 / 3 = 0.35$
PO4	$0.8 \times 2.68 / 3 = 0.71$
PO6	$1 \times 2.68 / 3 = 0.89$
PO7	$0.6 \times 2.68 / 3 = 0.53$
PO9	$1.4 \times 2.68 / 3 = 1.25$
PO12	$1.2 \times 2.68 / 3 = 1.07$

RESULT OF PO ATTAINMENT

COURSE	PO1	PO2	PO3	PO4	PO6	PO7	PO9	PO12
GEN PATH	2.4	0.2	0.4	0.8	1	0.6	1.4	1.2
ATTAINMENT	2.19	0.17	0.35	0.71	0.89	0.53	1.25	1.07

PROGRAM OUTCOME CORRECTIVE MEASURES

PO	ATTAINMENT	ACTION PLAN
PO1	2.19	VIVA
PO6	0.89	CASE DISCUSSIONS
PO9	1.25	SETTING COMPULSORY QUOTA FOR ATTENDING WARD POSTING.
PO12	1.07	CASE SENARIO



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PROGRAMME OUTCOME BDS

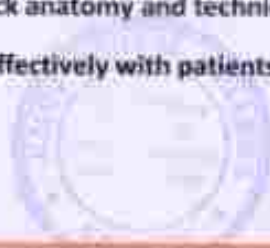
COURSE : ORAL AND MAXILLOFACIAL SURGERY

2022-2023

- PO1. Integration of basic sciences, clinical dental surgery and practical and laboratory skills
- PO2. Sufficient practical skill including patient management skill for treatment of patients of all ages with special reference to pediatric, geriatric and medically compromised and disabled patient
- PO3. Sociological aspects of health care particularly oral health care including the reasons for the variation in oral and dental needs of the society.
- PO4. Motivation for interdisciplinary research activities and emphasis on evidence based dentistry
- PO5. Participation in Continual Dental Educational programs to update knowledge and skills
- PO6. Learns significance of infection and cross infection control in dental practice
- PO7. To learn the importance of various dental tissues in forensic sciences.
- PO8. Attends dental hospital and general hospital postings, community camps
- PO9. Administer all forms of local anesthesia knowledge of various maxillofacial problems like injuries, infections and deformities of the jaw.
- PO10. Restoration of various kinds and endodontic procedures, removable and fixed prosthodontics.
- PO11. Appreciate the role of dentofacial growth and development of malocclusion.
- PO12. Train in various radiological techniques and its interpretations

PROGRAM SPECIFIC OUTCOME (PSO)

- PSO1: planning a comprehensive and patient specific treatment plan to improve the over all esthetic concerns and disproportion through cosmetic surgeries like orthognathic surgery
- PSO2: Basic and detailed learning of head and neck anatomy and techniques of attaining local anesthesia
- PSO3: Perform history taking and communicate effectively with patients and other professional in a surgical setting, perform common technical skills surgical setting.



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COURSE OUTCOME (CO)

1. Be able to apply the knowledge gained in the basic medical and clinical subjects in the management of patients with surgical problems.
2. Be able to diagnose, manage and treat patients with basic oral surgical problems.
3. Understand and practice the basic principles of asepsis and sterilization.
4. Be competent in the extraction of the teeth under local anesthesia.
5. Able to provide primary care and manage medical emergencies in the dental office.
6. Be familiar with the management of major oral surgical problems and principles involved in the in-patient management.

Blooms taxonomy

Sl no.	COURSE OUTCOME	KNOWLEDGE LEVEL (BLOOMS LEVEL)
CO1	Be able to apply the knowledge gained in the basic medical and clinical subjects in the management of patients with surgical problems.	L6
CO2	Be able to diagnose, manage and treat patients with basic oral surgical problems.	L5
CO3	Understand and practice the basic principles of asepsis and sterilization	L4
CO4	Be competent in the extraction of the teeth under local anesthesia.	L5
CO5	Able to provide primary care and manage medical emergencies in the dental office.	L3
CO6	Be familiar with the management of major oral surgical problems and principles involved in the in-patient management.	L4

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COURSE OUTCOME-PROGRAM OUTCOME MATRIX

Sl no.	COURSE OUTCOME	PO	PSO
1	Be able to apply the knowledge gained in the basic medical and clinical subjects in the management of patients with surgical problems.	1,2,3,5,6,7,8,9,11,12	1,2,3
2	Be able to diagnose, manage and treat patients with basic oral surgical problems.	1,2,3,6,7	1,2,3
3	Understand and practice the basic principles of asepsis and sterilization	1,6,9	1,2,3
4	Be competent in the extraction of the teeth under local anesthesia.	1,2,9,	1,2,3
5	Able to provide primary care and manage medical emergencies in the dental office.	1,2,3,6,9	1,2,3
6	Be familiar with the management of major oral surgical problems and principles involved in the in-patient management.	1,2,5,9,,11,12	1,2,3

CO	PROGRAM OUTCOME (PO)											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	2	2	-	2	1	3	2	2	-	1	2
CO2	2	2	1	-	-	3	2	2	-	-	-	-
CO3	3	-	-	-	-	-	-	-	1	-	-	-
CO4	2	2	-	-	-	-	-	-	2	-	-	-
CO5	3	3	2	-	-	3	-	-	2	1	1	-
CO6	3	1	-	-	2	-	-	-	2	-	1	3
AVG	2.66	2	1.66	0	2	1.66	2.5	2	1.8	1	1	2.5

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COURSE OUTCOME-PROGRAM SPECIFIC OUTCOME MATRIX

CO	PROGRAM SPECIFIC OUTCOME		
	PSO1	PSO2	PSO3
Be able to apply the knowledge gained in the basic medical and clinical subjects in the management of patients with surgical problems.	1	1	3
Be able to diagnose, manage and treat patients with basic oral surgical problems.	1	2	1
Understand and practice the basic principles of asepsis and sterilization	2	3	1
Be competent in the extraction of the teeth under local anesthesia.	1	2	1
Able to provide primary care and manage medical emergencies in the dental office.	1	2	1
Be familiar with the management of major oral surgical problems and principles involved in the in-patient management.	3	1	2
AVERAGE	1.16	1.83	1.5

INFERENCE: 1-LOW, 2-MEDIUM, 3-HIGH



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COMPUTATION OF COURSE OUTCOME –PROGRAM OUTCOME/PROGRAM SPECIFIC OUTCOME ATTAINMENT

COURSE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
ORAL AND MAXILLOFACIAL SURGERY	3	2	2	0	2	2	3	2	2	1	1	3	1	2	2
WEIGHTED AVERAGE	2.66	2	1.66	0	2	1.66	2.5	2	1.8	1	1	2.5	1.16	1.83	1.5

COURSE OUTCOME ATTAINMENT

ASSESSMENT PATTERN

ASSESSMENT TYPE	ASSESSMENT TOOL
	FIRST INTERNAL EXAMINATION THEORY 70 PRACTICAL 80
	SECOND INTERNAL EXAMINATION THEORY 70 PRACTICAL 80
	THIRD INTERNAL EXAMINATION THEORY 70 PRACTICAL 80
	UNIVERSITY EXAMINATION THEORY 100 PRACTICAL 100
INDIRECT ATTAINMENT	END EXAM FEEDBACK

DIRECT COURSE OUTCOME ATTAINMENT = 20% OF INTERNAL EXAMINATION (IE) ATTAINMENT + 80% OF EXTERNAL EXAMINATION (EE) ATTAINMENT.

OVERALL COURSE OUTCOME ATTAINMENT = 90% DIRECT COURSE OUTCOME ATTAINMENT + 10% OF INDIRECT ATTAINMENT



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CO ATTAINMENT TARGET LEVELS

ASSESSMENT METHODS	ATTAINMENT LEVELS	
UNIVERSITY EXAMINATIONS	THRESHOLD VALUE FOR THEORY (70) + VIVA VOCE (20) + INTERNAL ASSESSMENT (10), THRESHOLD VALUE IS 50%. i.e. $0.5 \times (70+20+10) = 50$	
	LEVEL 1	50% OF STUDENTS SCORING MORE THAN 50 MARKS IN THEORY AND PRACTICAL
	LEVEL 2	60% OF STUDENTS SCORING MORE THAN 50 MARKS IN THEORY AND PRACTICAL
	LEVEL 3	70% OF STUDENTS SCORING MORE THAN 50 MARKS IN THEORY AND PRACTICAL

COMPUTATION OF CO DIRECT ATTAINMENT

COs	Assessment tool (internal examination /external examination)	Internal examination (IE)		EXTERNAL EXAMINATION (EE)	DIRECT CO ATTAINMENT $= (0.2 \times \text{IE ATTAINMENT LEVEL}) + (0.8 \times \text{EE ATTAINMENT LEVEL})$
		ATTAINMENT LEVEL	AVERAGE ATTAINMENT LEVEL	ATTAINMENT LEVEL	
CO1	THEORY & PRACTICAL	2.6	2.6	3	2.92
CO2	THEORY & PRACTICAL	2.3	2.3	3	2.86
CO3	THEORY & PRACTICAL	1.7	1.7	3	2.74
CO4	THEORY & PRACTICAL	2.3	2.3	3	2.86
CO5	THEORY & PRACTICAL	1.1	1.1	3	2.62
CO6	THEORY & PRACTICAL	1.2	1.2	3	2.64

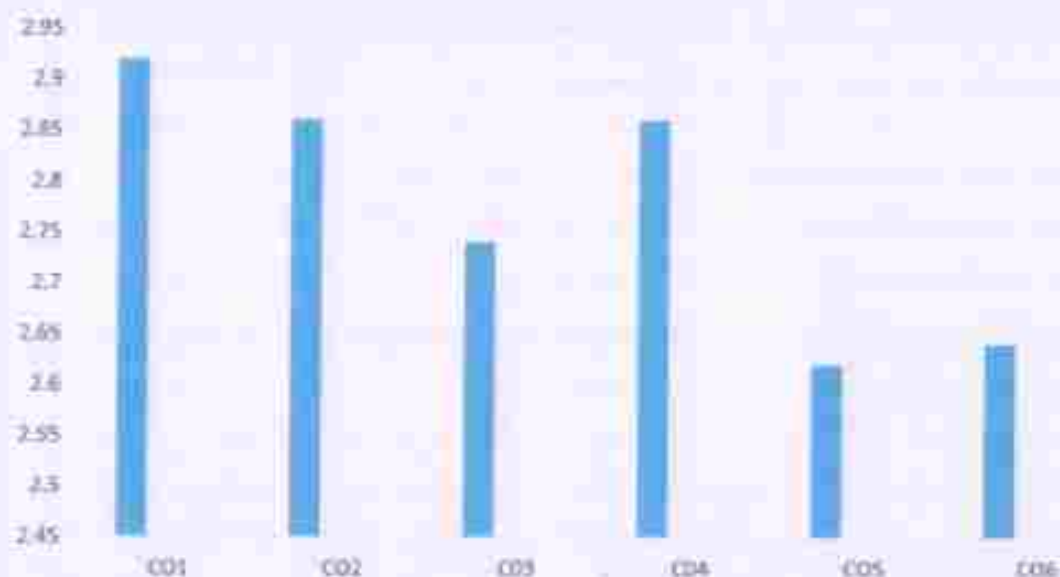
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COURSE OUTCOME DIRECT ATTAINMENT

Chart Title



COMPUTATION OF CO INDIRECT ATTAINMENT IN THE COURSE:

Attainment of Co Pediatric and Preventive Dentistry= (Level-1 X No of Students Attempted) + (Level-2x No of Students Attempted) + (Level-3 X No of Students Attempted)/Total No of Students



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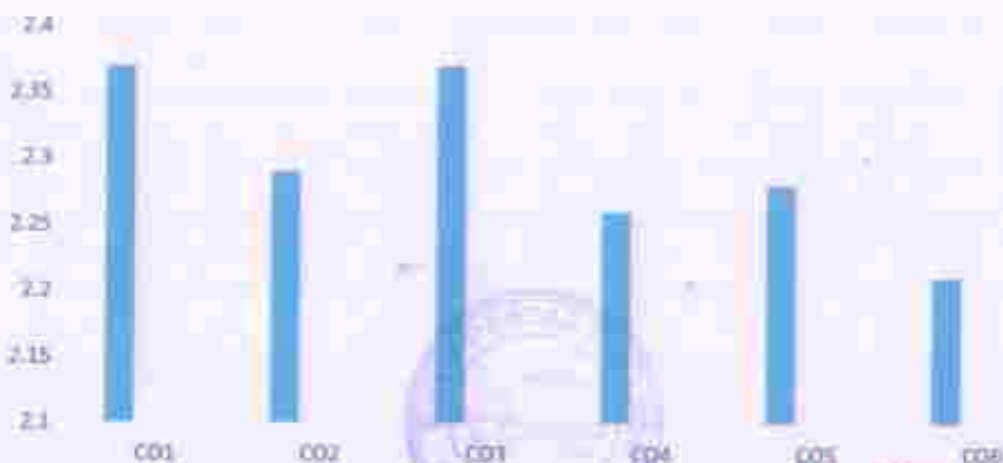
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COMPUTATION OF CO INDIRECT ATTAINMENT IN THE COURSE						
COS	CO1	CO2	CO3	CO4	CO5	CO6
Students Answered Level -1	12	15	13	15	13	13
Students Answered Level -2	16	15	14	17	20	24
Students Answered Level -3	36	34	37	32	31	27
TOTAL STUDENTS PARTICIPATED	64	64	64	64	64	64
Co Attainment Level	2.375	2.29	2.37	2.26	2.28	2.21

Chart Title



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INNOVATION AND
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 DEVELOPMENT CENTRE



CO	DIRECT CO ATTAINMENT (DA)	LEVEL	INDIRECT ATTAINMENT (IDA)	CO LEVEL	OVERALL ATTAINMENT $0.9 \times DA + 0.1 \times IDA$	CO LEVEL
CO1	2.92		2.37		2.85	
CO2	2.86		2.29		3.08	
CO3	2.74		2.37		2.97	
CO4	2.86		2.26		3.08	
CO5	2.62		2.28		2.84	
CO6	2.64		2.21		2.86	
AVERAGE CO ATTAINMENT					2.94	

COURSE OUTCOME CORRECTIVE MEASURES FOR NEXT ACADEMIC YEAR

CO	ATTAINMENT	ACTION PLAN
CO1	2.85	RAPID REVISION VIVA
CO5	2.84	CLASS TEST VIVA
CO6	2.86	MOCK PRECLINICAL EXERCISES



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INNOVATION AND
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DEVELOPMENT CENTRE



WOMEN'S
EMPOWERMENT
CENTRE



PO/PSO ASSESMENT PROCESS

ASSESMENT TOOLS: UNIVERSITY EXAMINATION

ASSESMENT FREQUENCY: ONCE A YEAR

ASSESED BY: SUBJECT EXPERT

REVIEWED BY: HOD

METHOD: DIRECT

COURSE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
ORAL AND MAXILLOFACIAL SURGERY	3	2	2	0	2	2	3	2	2	1	1	3
WEIGHTED AVERAGE	2.66	2	1.66	0	2	1.66	2.5	2	1.8	1	1	2.5

PO= (WEIGHTED AVERAGE VALUE OF PO X CO ATAINMENT AVERAGE)/3

PO	ATTAINMENT LEVEL
PO1	$2.66 \times 2.94 / 3 = 2.6$
PO2	$2 \times 2.94 / 3 = 1.96$
PO3	$1.66 \times 2.94 / 3 = 1.62$
PO5	$2 \times 2.94 / 3 = 1.96$
PO6	$1.66 \times 2.94 / 3 = 1.62$
PO7	$2.5 \times 2.70 / 3 = 2.45$
PO8	$2 \times 2.94 / 3 = 1.96$
PO9	$1.8 \times 2.94 / 3 = 1.74$
PO10	$1 \times 2.94 / 3 = 0.98$
PO11	$1 \times 2.94 / 3 = 0.98$
PO12	$2.5 \times 2.94 / 3 = 2.45$



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INNOVATION AND ENTREPRENEURSHIP DEVELOPMENT CENTRE



RESEARCH AND INNOVATION CENTRE



RESULT OF PO ATTAINMENT

COURSE	PO1	PO2	PO3	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
OMFS	2.66	2	1.66	2	1.66	2.5	2	1.8	1	1	2.5
ATTAINMENT	2.6	1.96	1.62	1.96	1.62	2.45	1.96	1.74	0.98	0.98	2.45



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PROGRAM OUTCOME CORRECTIVE MEASURES

PO	ATTAINMENT	ACTION PLAN
PO2	1.96	VIVA, MOCK CLINICAL EXAMS
PO3	1.62	ASSISTING PG CASES, CASE DISCUSSIONS
PO5	1.96	SETTING COMPULSORY QUOTA FOR ATTENDING CDE, INTERCOLLEGE CDE PARTICIPATION
PO10	0.98	MOCK PRECLINICAL EXERCISES

PSO's ATTAINMENT RESULTS

PSO=weighted average value of PSO*CO attainment average/3

PSO mapping

COURSE	PSO1	PSO2	PSO3
OMFS	1	2	2
WEIGHTED AVERAGE	1.16	1.83	1.5

PSO ATTAINMENT COMPUTATION

PSO	ATTAINMENT LEVEL
PSO1	$1.16 \times 2.94 / 3 = 1.13$
PSO2	$1.83 \times 2.94 / 3 = 1.79$
PSO3	$1.5 \times 2.94 / 3 = 1.47$



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PSO ATTAINMENT LEVELS

COURSE	PSO1	PSO2	PSO3
OMFS	1.16	1.83	1.5
ATTAINMENT	1.13	1.79	1.47



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PSO'S CORRECTIVE MEASURES

PSO	ATTAINMENT	ACTION PLAN
PSO1	1.13	CASE DISCUSSIONS,VIVA
PSO2	1.79	ASSISTING SPECIAL CASES




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PROGRAMME OUTCOME BDS

COURSE: ORAL MEDICINE AND RADIOLOGY

1. PROGRAM OUTCOME (PO):

1. Integration of basic sciences, clinical dental surgery and practical and laboratory skills
2. Sufficient practical skill including patient management skill for treatment of patients of all ages with special reference to pediatric, geriatric and medically compromised and disabled patient
3. Sociological aspects of health care particularly oral health care including the reasons for the variation in oral and dental needs of the society.
4. Motivation for interdisciplinary research activities and emphasis on evidence based dentistry
5. Participation in Continual Dental Educational programs to update knowledge and skills
6. Learns significance of infection and cross infection control in dental practice
7. To learn the importance of various dental tissues in forensic sciences.
8. Attends dental hospital and general hospital postings, community camps
9. Administer all forms of local anesthesia knowledge of various maxillofacial problems like injuries, infections and deformities of the jaw.
10. Restoration of various kinds and endodontic procedures, removable and fixed prosthodontics.
11. Appreciate the role of dentofacial growth and development of malocclusion.
12. Train in various radiological techniques and its interpretations.



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2. PROGRAM SPECIFIC OUTCOME (PSO):

PSO1 : Planning a comprehensive dental treatment protocol according to the medical status of the patient.

PSO2 : Training the students to identify oral manifestations of systemic diseases.

PSO3 : Incorporating recent advances in imaging in the curriculum for the students.

3. COURSE OUTCOME (CO):

CO1 : Be able to identify the common dental problems like dental caries and periodontal disease and their sequelae.

CO2 : Be able to differentiate normal variations and oral mucosal lesions.

CO3 : Be able to identify precancerous and cancerous lesions of the oral cavity and refer to the concerned speciality.

CO4 : Knowledge about the laboratory investigations and interpretations of the result.

CO5 : Adequate knowledge about the medical complications that can arise while treating systemically compromised patients and take prior precautions.

CO6 : To formulate a clinical diagnosis, order investigations and seek expert consultations to come to a final diagnosis and chart out proper treatment.

CO7 : Be competent to take intra oral radiographs and interpret radiographic finding.

CO8 : Gain adequate knowledge of various extra oral radiographic procedures.



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Sl No	Course Outcome	KNOWLEDGE LEVEL (BLOOMS LEVEL)
CO1	Be able to identify the common dental problems like dental caries and periodontal disease and their sequelae.	L3
CO2	Be able to differentiate normal variations and oral mucosal lesions.	L5
CO3	Be able to identify precancerous and cancerous lesions of the oral cavity and refer to the concerned speciality.	L3
CO4	Knowledge about the laboratory investigations and interpretations of the result.	L4
CO5	Adequate knowledge about the medical complications that can arise while treating systemically compromised patients and take prior precautions.	L3
CO6	To formulate a clinical diagnosis, order investigations and seek expert consultations to come to a final diagnosis and chart out proper treatment.	L3
CO7	Be competent to take intra oral radiographs and interpret radiographic finding.	L3
CO8	Gain adequate knowledge of various extra oral radiographic procedures.	L3



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Sl No	Course Outcome	PO	PSO
CO1	Be able to identify the common dental problems like dental caries and periodontal disease and their sequelae.	1,2,5,6,8	1,2,3
CO2	Be able to differentiate normal variations and oral mucosal lesions.	1,2,3,4,5,6,8	1,2,3
CO3	Be able to identify precancerous and cancerous lesions of the oral cavity and refer to the concerned speciality.	1,2,3,4,5,6,8	1,2,3
CO4	Knowledge about the laboratory investigations and interpretations of the result.	1,2,7,11,12	1,2,3
CO5	Adequate knowledge about the medical complications that can arise while treating systemically compromised patients and take prior precautions.	1,2,3,4,5,6,8	1,2,3
CO6	To formulate a clinical diagnosis, order investigations and seek expert consultations to come to a final diagnosis and chart out proper treatment.	1,2,3,5,6,8,11,12	1,2,3
CO7	Be competent to take intra oral radiographs and interpret radiographic finding.	1,3,5,6,7,11,12	1,2,3
CO8	Gain adequate knowledge of various extra oral radiographic procedures.	1,2,5,6,7,11,12	1,2,3



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Principal

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CO	PROGRAM OUTCOME (PO)											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	2	-	-	2	2	-	1	-	-	-	-
CO2	2	2	2	1	2	1	-	2	-	-	-	-
CO3	1	1	1	2	2	2	-	2	-	-	-	-
CO4	2	2	-	-	-	-	2	-	-	-	2	3
CO5	1	1	2	2	2	1	-	2	-	-	-	-
CO6	2	2	2	-	2	2	-	2	-	-	2	2
CO7	2	-	2	-	2	2	2	-	-	-	2	3
CO8	2	1	-	-	1	1	2	-	-	-	2	3
AVG	1.75	1.25	1.125	0.625	1.625	1.325	0.75	1.125	-	-	1.00	1.25

CO	PROGRAM SPECIFIC OUTCOME (PSO)		
	PSO 1	PSO 2	PSO 3
CO1: Be able to identify the common dental problems like dental caries and periodontal disease and their sequelae.	3	2	1
CO2: Be able to differentiate normal variations and oral mucosal lesions.	3	2	1
CO3: Be able to identify precancerous and cancerous lesions of the oral cavity and refer to the concerned speciality.	2	2	1
CO4: Knowledge about the laboratory investigations and interpretations of the result.	2	2	2
CO5: Adequate knowledge about the medical complications that can arise while treating systemically compromised patients and take prior precautions.	3	2	1
CO6: To formulate a clinical diagnosis, order investigations and seek expert consultations to come to a final diagnosis and chart out proper treatment.	3	2	3
CO7: Be competent to take intra oral radiographs and interpret radiographic finding.	1	1	3
CO8: Gain adequate knowledge of various extra oral radiographic procedures.	1	1	3
Avg	2.25	1.75	1.875

COMPUTATION OF CO – PO / PSO ATTAINMENT

COURSE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO13
Oral Medicine and Radiology	2	1	1	1	2	1	1	1	0	0	1	1	2	2	2
Weighted Average	1.75	1.25	1.125	0.625	1.625	1.325	0.75	1.125	0	0	1.00	1.25	2.25	1.75	1.875

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ASSESSMENT PATTERN

ASSESSMENT TYPE	ASSESSMENT TOOL
DIRECT ATTAINMENT	FIRST INTERNAL EXAM Theory : 70 Clinical : 80
	SECOND INTERNAL EXAM Theory : 70 Clinical : 80
	THIRD INTERNAL EXAM Theory : 70 Clinical : 80
INDIRECT ATTAINMENT	END EXAM FEEDBACK

DIRECT COURSE OUTCOME ATTAINMENT: 20 % of INTERNAL EXAMINATION (IE) ATTAINMENT + 80 % of EXTERNAL EXAMINATION (EE) ATTAINMENT

CO ATTAINMENT TARGET LEVELS

ASSESSMENT METHODS	ATTAINMENT LEVEL
UNIVERSITY EXAMINATIONS	Threshold value for Theory (70) + Viva Voice (20) + Internal Assessment (10). Threshold value is 50 %
	Level 1 50 % of Students scoring more than 50 Marks in Theory and Clinical
	Level 2 60 % of Students scoring more than 50 Marks in Theory and Clinical
	Level 3 70 % of Students scoring more than 50 Marks in Theory and Clinical



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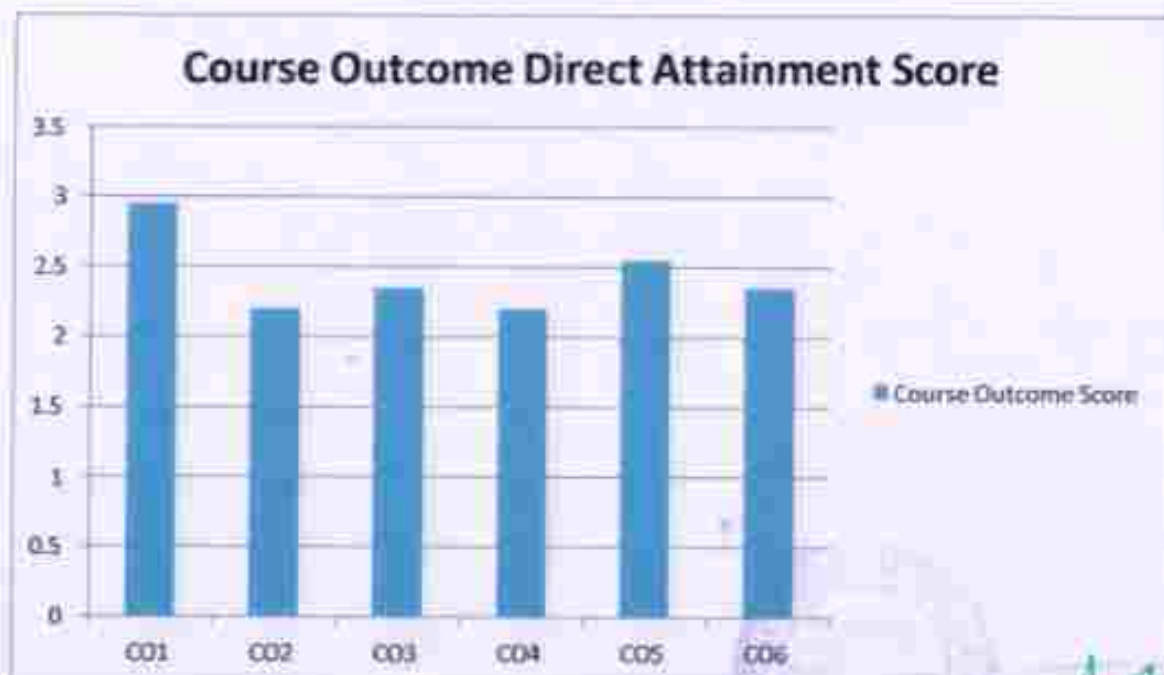




COMPUTATION OF CO DIRECT ATTAINMENT

COs	Assessment Tool (Internal examination / External examination)	Internal Examination		External Examination	Direct CO Attainment = (0.2 x IE Attainment Level) + (0.8 x EE Attainment Level)
		Attainment Level	Average Attainment Level	Attainment Level	
CO1	Theory & Clinical	2.25	2.25	2.50	2.95
CO2	Theory & Clinical	2.5	2.5	2.75	2.20
CO3	Theory & Clinical	1.75	1.75	2.50	2.35
CO4	Theory & Clinical	2.00	2.00	2.25	2.20
CO5	Theory & Clinical	1.25	1.25	2.75	2.55
CO6	Theory & Clinical	1.75	1.75	2.50	2.35
CO7	Theory & Clinical	2.25	2.25	2.75	2.65
CO8	Theory & Clinical	1.75	1.75	2.75	2.55

COURSE OUTCOME DIRECT ATTAINMENT



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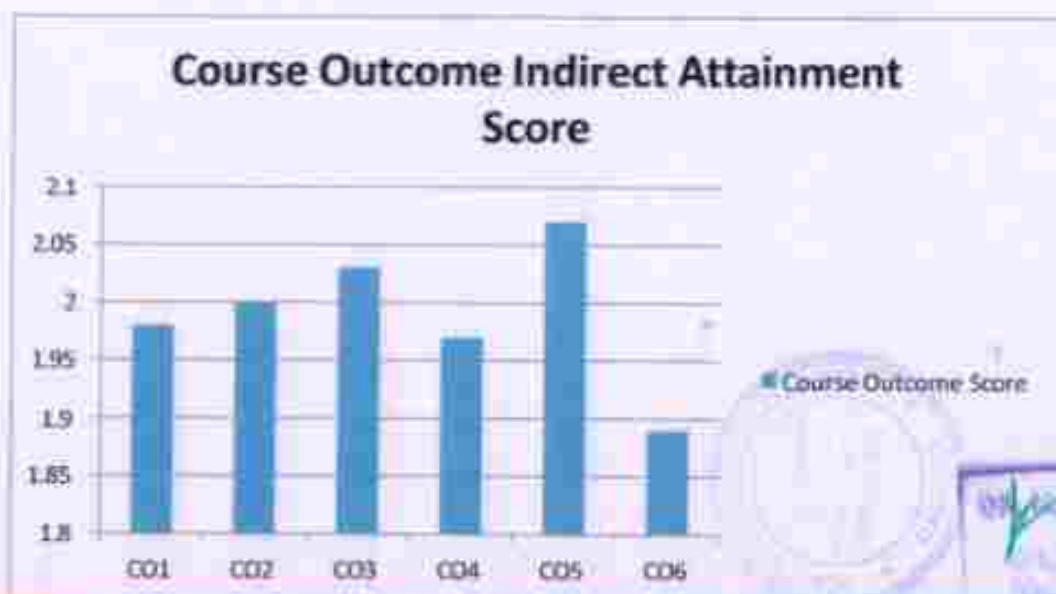


COMPUTATION OF CO INDIRECT ATTAINMENT IN THE COURSE

CO Indirect Attainment = (Level 1 x No. of students attempted) + (Level 2 x No of students attempted) + (Level 3 x No of students attempted) / Total No of Students

COMPUTATION OF CO INDIRECT ATTAINMENT IN THE COURSE								
CO5	CO1	CO2	CO3	CO4	CO5	CO6	CO7	CO8
Students Answered Level -1	20	18	18	21	16	24	20	18
Students Answered Level -2	19	22	20	18	22	16	18	20
Students Answered Level-3	19	18	20	19	20	18	20	20
Total Students Participated	58	58	58	58	58	58	58	58
Co Attainment Level	1.98	2	2.03	1.97	2.07	1.89	2	2.03

COURSE OUTCOME INDIRECT ATTAINMENT



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COMPUTATION OF CO INDIRECT ATTAINMENT

COMPUTATION OF CO OVERALL ATTAINMENT

COs	DIRECT CO ATTAINMENT LEVEL (DA)	INDIRECT CO ATTAINMENT LEVEL (IDA)	OVERALL CO ATTAINMENT LEVEL = $0.9 \times DA + 0.1 \times IDA$
CO1	2.95	1.98	2.85
CO2	2.20	2.00	2.00
CO3	2.35	2.03	2.14
CO4	2.20	1.97	2.18
CO5	2.55	2.07	2.32
CO6	2.35	1.89	2.30
CO7	2.65	2.00	2.59
CO8	2.55	2.03	2.50
AVG CO OVERALL ATTAINMENT			2.32

COURSE OUTCOME CORRECTIVE MEASURES FOR NEXT ACADEMIC YEAR

Cos	ATTAINMENT	ACTION PLAN
CO2	2.00	Revision tests
CO3	2.14	Viva sessions
CO4	2.18	Problem based learning
CO6	2.30	Case Discussions



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PROGRAM OUTCOME / PROGRAM OUTCOME ASSESSMENT PROCESS

Assessment Tools	:	University Examination
Assessment Frequency	:	Once a year
Assessed by	:	Subject Expert
Reviewed by	:	HOD
Method	:	Direct

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	P10	P11	P12
Oral Medicine and Radiology	2	2	1	1	2	1	1	1	0	0	1	1
Weighted Average	1.75	1.25	1.125	0.625	1.625	1.325	0.75	1.125	-	-	1.00	1.25

PO = Weighted Avg value of PO x CO Attainment Avg / 3

PO	Attainment Level	Score
PO1	$1.75 \times 2.32 / 3$	1.35
PO2	$1.25 \times 2.32 / 3$	0.97
PO3	$1.125 \times 2.32 / 3$	0.87
PO4	$0.625 \times 2.32 / 3$	0.48
PO5	$1.625 \times 2.32 / 3$	1.26
PO6	$1.325 \times 2.32 / 3$	1.03
PO7	$0.75 \times 2.32 / 3$	0.58
PO8	$1.125 \times 2.32 / 3$	0.87
PO11	$1.00 \times 2.32 / 3$	0.77
PO12	$1.25 \times 2.32 / 3$	0.97

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RESULT OF PO ATTAINMENT

COURSE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO11	PO12
Oral Medicine and Radiology	1.75	1.25	1.125	0.625	1.625	1.325	0.75	1.125	1.00	1.25
Attainment	1.35	0.97	0.87	0.48	1.26	1.03	0.58	0.87	0.77	0.97

PROGRAM OUTCOME CORRECTIVE MEASURES FOR NEXT ACADEMIC YEAR

COs	ATTAINMENT	ACTION PLAN
PO1	1.35	Viva
PO2	0.97	Mock clinical exams
PO3	0.87	Topic wise discussions
PO5	1.26	Model Exams
PO6	1.03	Case Discussions
PO7	0.58	Problem Based Learning
PO8	0.87	Revision sessions
PO11	0.77	Radiographic exercises
PO12	0.97	Discussion on Radiographic Interpretations



[Signature]
DR. K. K. KUMAR M.P.
 Principal

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PSO ATTAINMENT RESULTS

PSO MAPPING

COURSE	PSO1	PSO2	PSO3
Oral Medicine and Radiology	2	2	2
Weighted Average	2.25	1.75	1.875

PSO Attainment Computation

PSO = Weighted Avg Value of PSO x CO attainment average / 3

PSO	Attainment Level	Score
PSO1	$2.25 \times 2.32 / 3$	1.74
PSO2	$1.75 \times 2.32 / 3$	1.35
PSO3	$1.87 \times 2.32 / 3$	1.45

PSO ATTAINMENT LEVELS

Course	PSO1	PSO2	PSO3
Oral Medicine and Radiology	2.25	1.75	1.87
Attainment	1.74	1.35	1.45

PSO CORRECTIVE MEASURES FOR NEXT ACADEMIC YEAR

PSO	Attainment	Action Plan
PSO1	1.74	Case Scenario Discussions
PSO2	1.35	Periodic Viva and Clinical Discussions
PSO3	1.45	Radiographic Interpretation discussion

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DENTAL COLLEGE

PROGRAMME OUTCOME BDS

COURSE: ORAL MEDICINE AND RADIOLOGY

1. PROGRAM OUTCOME (PO):

1. Integration of basic sciences, clinical dental surgery and practical and laboratory skills
2. Sufficient practical skill including patient management skill for treatment of patients of all ages



[Signature]
DR. SANDS HANAR, B.P.
Principal



PROGRAMME OUTCOME BDS 2022-2023

COURSE: PEDODONTICS AND PREVENTIVE DENTISTRY

PROGRAM OUTCOME (PO)

- PO1** - Integration of basic sciences, clinical dental surgery and practical and laboratory skills.
- PO2** - Sufficient practical skill including patient management skill for treatment of patients of all ages with special reference to pediatric, geriatric and medically compromised and disabled patient.
- PO3** - Sociological aspects of health care particularly oral health care including the reasons for the variation in oral and dental needs of the society.
- PO4** - Motivation for interdisciplinary research activities and emphasis on evidence based dentistry.
- PO5** - Participation in Continual Dental Educational programs to update knowledge and skills
- PO6** - Learns significance of infection and cross infection control in dental practice
- PO7** - To learn the importance of various dental tissues in forensic sciences.
- PO8** - Attends dental hospital and general hospital postings, community camps
- PO9** - Administer all forms of local anesthesia knowledge of various maxillofacial problems like injuries, infections and deformities of the jaw.
- PO10** - Restoration of various kinds and endodontic procedures, removable and fixed prosthodontics.
- PO11** - Appreciate the role of dentofacial growth and development of malocclusion.
- PO12** - Train in various radiological techniques and its interpretations.

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PROGRAM SPECIFIC OUTCOME (PSO)

PSO1 - planning a comprehensive treatment protocol according to child's attitude and behavior towards dentistry and dental health care needs.

PSO2 - Effectively treating dental problems in pediatric patients who are medically compromised, physically challenged and special children.

PSO3 - Application of recent trends and advanced treatment modalities and approaches during pediatric dental practice.

COURSE OUTCOME (CO)

CO1-Be able to instill a positive attitude and behavior in children towards oral health and understand the principles of prevention and preventive dentistry right from birth to adolescence.

CO2- Be able to guide and counsel the parents/guardian in regards to various treatment modalities including different facets of preventive dentistry.

CO3-Be able to manage the physically and mentally challenged / disabled children effectively and efficiently, tailored to the needs of individual requirement and conditions.

CO4- Detailed history taking & clinical examination formulating diagnosis and planning comprehensive treatment for the child.

CO5-Permanent Restorations: Permanent and deciduous teeth Amalgam or glass ionomer cement

CO6-Removable orthodontic appliances Space maintainers Habit breakers / Hawley's appliance

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Sl. No	COURSE OUTCOME (CO)	KNOWLEDGE LEVEL (BLOOMS LEVEL)
CO1	Be able to instill a positive attitude and behavior in children towards oral health and understand the principles of prevention and preventive dentistry right from birth to adolescence	L2
CO2	Be able to guide and counsel the parents/guardian in regards to various treatment modalities including different facets of preventive dentistry.	L3
CO3	Be able to manage the physically and mentally challenged / disabled children effectively and efficiently, tailored to the needs of individual requirement and conditions	L6
CO4	Detailed history taking & clinical examination formulating diagnosis and planning comprehensive treatment for the child.	L4
CO5	Be able to do Permanent Restorations: Permanent and deciduous teeth Amalgam or glass ionomer cement	L6
CO6	Knowledge on Removable orthodontic appliances Space maintainers Habit breakers / Hawley's appliance	L1

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COURSE OUTCOME-PROGRAM OUTCOME MATRIX

SL NO	COURSE OUTCOME	PO	PSO
CO1	Be able to instill a positive attitude and behavior in children towards oral health and understand the principles of prevention and preventive dentistry right from birth to adolescence	1,2,6,8,9,10,11	1,2,3
CO2	Be able to guide and counsel the parents/guardian in regards to various treatment modalities including different facets of preventive dentistry.	1,2,8,9,10,11,12	1,2,3
CO3	Be able to manage the physically and mentally challenged / disabled children effectively and efficiently, tailored to the needs of individual requirement and conditions	4,5,8,9,10,11	1,2,3
CO4	Detailed history taking & clinical examination formulating diagnosis and planning comprehensive treatment for the child.	1,2,5,9,10,11,12	1,2,3
CO5	Be able to do Permanent Restorations: Permanent and deciduous teeth Amalgam or glass ionomer cement	1,5,10,12	1,2,3
CO6	Knowledge on Removable orthodontic appliances Space maintainers I Habit breakers / Hawley's appliance	1,2,3,4,5,11	1,2,3

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CO	PROGRAM OUTCOME (PO)											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	2	-	-	-	1	-	2	2	1	1	-
CO2	2	2	-	-	-	-	-	2	2	1	1	2
CO3	-	-	-	1	1	-	-	1	1	1	1	-
CO4	2	2	-	-	2	-	-	-	2	1	1	2
CO5	3	-	-	-	2	-	-	-	-	1	1	-
CO6	3	1	1	2	2	-	-	-	-	-	1	-
Avg	2.16	1.36	0.16	0.5	1.16	0.16	0	0.83	1.16	0.83	1	0.66

COURSE OUTCOME-PROGRAM SPECIFIC OUTCOME MATRIX

CO	PROGRAM SPECIFIC OUTCOME		
	PSO1	PSO2	PSO3
CO1- Be able to instill a positive attitude and behavior in children towards oral health and understand the principles of prevention and preventive dentistry right from birth to adolescence	3	1	1
CO-2- Be able to guide and counsel the parents/guardian in regards to various treatment modalities including different facets of preventive dentistry.	2	2	1
CO-3- Be able to manage the physically and mentally challenged / disabled children effectively and efficiently, tailored to the needs of individual requirement and conditions	2	3	1
CO-4- Detailed history taking & clinical examination formulating diagnosis and planning comprehensive treatment for the child.	2	2	1
CO-5- Be able to do Permanent Restorations: Permanent and deciduous teeth Amalgam or glass ionomer cement	1	2	1
CO-6- Knowledge on Removable orthodontic appliances Space maintainers I Habit breakers / Hawley's appliance	1	1	1
AVERAGE	1.83	1.83	1

INFERENCE: 1-LOW, 2-MEDIUM, 3-HIGH

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COMPUTATION OF COURSE OUTCOME-PROGRAM OUTCOME
/PROGRAM SPECIFIC OUTCOME ATTAINMENT

COURSE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
PEDIATRIC AND PREVENTIVE DENTISTRY	2	1	0	1	1	0	0	1	1	1	1	1	2	2	1
WEIGHTED AVERAGE	2.16	1.16	0.16	0.5	1.16	0.16	0	0.83	1.16	0.83	1	0.66	1.83	1.83	1



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COURSE OUTCOME ATTAINMENT

ASSESSMENT PATTERN

ASSESSMENT TYPE	ASSESSMENT TOOL
DIRECT ATTAINMENT	FIRST INTERNAL EXAMINATION THEORY-70 PRACTICAL -80
	SECOND INTERNAL EXAMINATION THEORY-70 PRACTICAL -80
	THIRD INTERNAL EXAMINATION THEORY-70 PRACTICAL -80
	UNIVERSITY EXAMINATION THEORY-100 PRACTICAL -100
INDIRECT ATTAINMENT	END EXAM FEED BACK

DIRECT COURSE OUTCOME ATTAINMENT = 20% OF INTERNAL EXAMINATION (IE) ATTAINMENT + 80% OF EXTERNAL EXAMINATION (EE) ATTAINMENT.

OVERALL COURSE OUTCOME ATTAINMENT = 90% DIRECT COURSE OUTCOME ATTAINMENT + 10% OF INDIRECT ATTAINMENT



DR. LALITHA KUMAR, HOD

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CO ATTAINMENT TARGET LEVELS

ASSESSMENT METHODS	ATTAINMENT LEVEL	
UNIVERSITY EXAMINATIONS	THRESHOLD VALUE FOR THEORY (70) + VIVA VOCE (20) + INTERNAL ASSESSMENT (10), THRESHOLD VALUE IS 50%, i.e. $0.5 \times (70 + 20 + 10) = 50$	
	LEVEL 1	50% OF STUDENTS SCORING MORE THAN 50 MARKS IN THEORY AND PRACTICAL
	LEVEL 2	60% OF STUDENTS SCORING MORE THAN 50 MARKS IN THEORY AND PRACTICAL
	LEVEL 3	70% OF STUDENTS SCORING MORE THAN 50 MARKS IN THEORY AND PRACTICAL

COMPUTATION OF CO DIRECT ATTAINMENT

COs	Assessment tool (internal examination /external examination)	Internal examination (IE)		EXTERNAL EXAMINATION (EE)	DIRECT CO ATTAINMENT $= (0.2 \times \text{IE ATTAINMENT LEVEL}) + (0.8 \times \text{EE ATTAINMENT LEVEL})$
		ATTAINMENT LEVEL	AVERAGE ATTAINMENT LEVEL	ATTAINMENT LEVEL	
CO1	THEORY & PRACTICAL	2.5	2.5	3	2.9
CO2	THEORY & PRACTICAL	2.25	2.25	3	2.85
CO3	THEORY & PRACTICAL	1.5	1.5	3	2.7
CO4	THEORY & PRACTICAL	2.25	2.25	3	2.85
CO5	THEORY & PRACTICAL	1.17	1.17	3	2.63
CO6	THEORY & PRACTICAL	1	1	3	2.6



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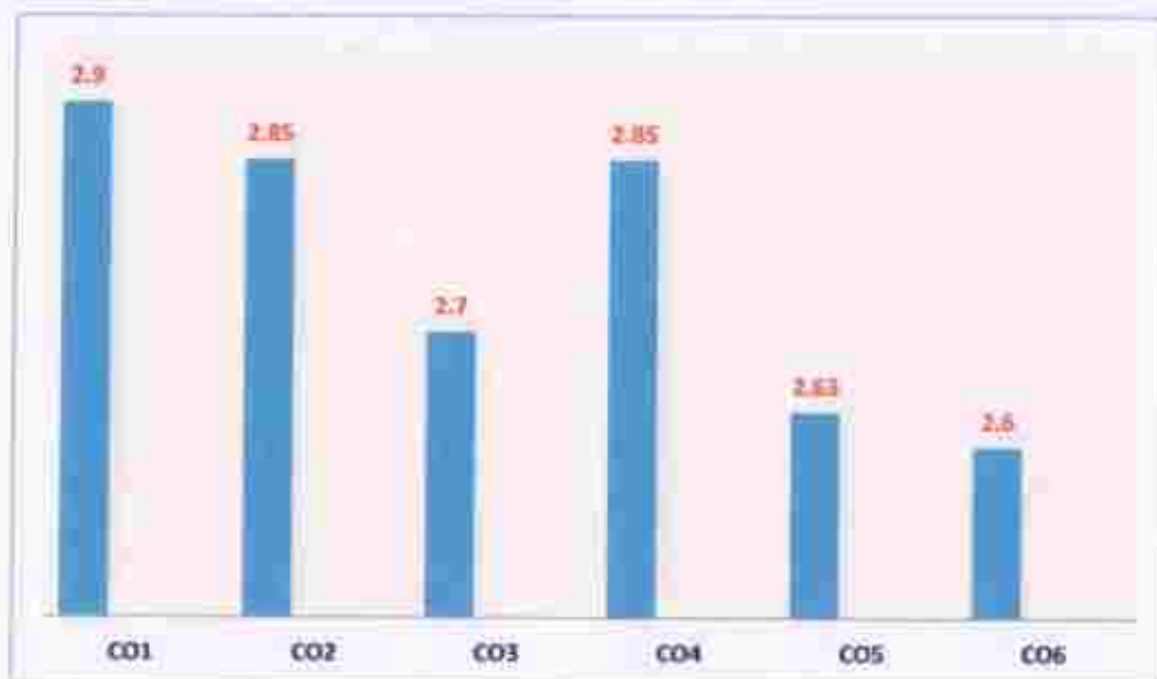




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COURSE OUTCOME DIRECT ATTAINMENT



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COMPUTATION OF CO INDIRECT ATTAINMENT IN THE COURSE:

Attainment of Co Pediatric and Preventive Dentistry= (Level-1 X No of Students Attempted) + (Level-2x No of Students Attempted) + (Level-3 X No of Students Attempted)/Total No of Students

COMPUTATION OF CO INDIRECT ATTAINMENT IN THE COURSE						
COS	CO1	CO2	CO3	CO4	CO5	CO6
Students Answered Level -1	15	15	13	15	13	13
Students Answered Level -2	21	23	25	18	26	24
Students Answered Level -3	37	35	35	40	34	36
TOTAL STUDENTS PARTICIPATED	73	73	73	73	73	73
Co Attainment Level	2.3	2.27	2.30	2.34	2.29	2.31



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COMPUTATION OF CO INDIRECT ATTAINMENT

COMPUTATION OF COURSE OUTCOME OVERALL ATTAINMENT

CO	DIRECT ATTAINMENT (DA)	CO LEVEL	INDIRECT ATTAINMENT (IDA)	CO LEVEL	OVERALL ATTAINMENT $0.9 \times DA + 0.1 \times IDA$	CO LEVEL
CO1	2.9		2.30		2.84	
CO2	2.85		2.27		2.79	
CO3	2.7		2.30		2.66	
CO4	2.85		2.34		2.79	
CO5	2.63		2.28		2.59	
CO6	2.6		2.31		2.57	
AVERAGE CO ATTAINMENT					2.70	

COURSE OUTCOME CORRECTIVE MEASURES FOR NEXT ACADEMIC YEAR

CO	ATTAINMENT	ACTION PLAN
CO3	2.66	RAPID REVISION VIVA
CO5	2.59	CLASS TEST VIVA
CO5	2.57	MOCK PRECLINICAL EXERCISES



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PO/PSO ASSESMENT PROCESS

ASSESSMENT TOOLS: UNIVERSITY EXAMINATION

ASSESSMENT FREQUENCY: ONCE A YEAR

ASSESSED BY: SUBJECT EXPERT

REVIEWED BY: HOD

METHOD: DIRECT

COURSE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
PEDIATRIC AND PREVENTIVE DENTISTRY	2	1	0	1	1	0	0	1	1	1	1	1
WEIGHTED AVERAGE	2.16	1.16	0.16	0.5	1.16	0	0	0.83	1.16	0.83	1	0.66

$PO = (\text{WEIGHTED AVERAGE VALUE OF PO} \times \text{CD ATTAINMENT AVERAGE})/3$

PO	ATTAINMENT LEVEL
PO1	$2.16 \times 2.70 / 3 = 1.9$
PO2	$1.16 \times 2.70 / 3 = 1$
PO4	$0.5 \times 2.70 / 3 = 0.45$
PO5	$1.16 \times 2.70 / 3 = 1$
PO8	$0.83 \times 2.70 / 3 = 0.75$
PO9	$1.16 \times 2.70 / 3 = 1$
PO10	$0.83 \times 2.70 / 3 = 0.75$
PO11	$1 \times 2.70 / 3 = 0.9$
PO12	$0.66 \times 2.70 / 3 = 0.59$

RESULT OF PO ATTAINMENT

COURSE	PO1	PO2	PO4	PO5	PO8	PO9	PO10	PO11	PO12
PEDO	2.16	1.16	0.5	1.16	0.83	1.16	0.83	1	0.66
ATTAINMENT	1.9	1	0.45	1	0.75	1	0.75	0.9	0.59

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PROGRAM OUTCOME CORRECTIVE MEASURES

PO	ATTAINMENT	ACTION PLAN
PO1	1.9	VIVA, MOCK CLINICAL EXAMS
PO2	1	ASSISTING PG CASES, CASE DISCUSSIONS
PO5	1	SETTING COMPULSORY QUOTA FOR ATTENDING CDE, INTERCOLLEGE CDE PARTICIPATION
PO10	0.75	MOCK PRECLINICAL EXERCISES

PSO's ATTAINMENT RESULTS

PSO=weighted average value of PSO*CO attainment average/3

PSO mapping

COURSE	PSO1	PSO2	PSO3
PEDO	2	2	1
WEIGHTED AVERAGE	1.83	1.83	1

PSO ATTAINMENT COMPUTATION

PSO	ATTAINMENT LEVEL
PSO1	$1.83 \times 2.70 / 3 = 1.64$
PSO2	$1.83 \times 2.70 / 3 = 1.64$
PSO3	$1 \times 2.70 / 3 = 0.9$

PSO ATTAINMENT LEVELS

COURSE	PSO1	PSO2	PSO3
PEDO	1.83	1.83	1
ATTAINMENT	1.64	1.64	0.9

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PSO'S CORRECTIVE MEASURES

PSO	ATTAINMENT	ACTION PLAN
PSO1	1.64	CASE DISCUSSIONS,VIVA
PSO2	1.64	ASSISTING SPECIAL CASES



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INNOVATION AND
ENTREPRENEURSHIP
DEVELOPMENT CENTRE



GOVERNMENT
HOSPITAL
KOZHIKODE



Oral Pathology and Microbiology

Program Outcome (PO)- BDS 2022-2023

Course: Oral Pathology and Microbiology

Program Outcome-PO

PO1.Integration of basic sciences, clinical dental surgery and practical and laboratory skills

PO2.Sufficient practical skill including patient management skill for treatment of patients of all ages with special reference to pediatric, geriatric and medically compromised and disabled patient

PO3.Sociological aspects of health care particularly oral health care including the reasons for the variation in oral and dental needs of the society.

PO4.Motivation for interdisciplinary research activities and emphasis on evidence based dentistry

PO5.Participation in Continual Dental Educational programs to update knowledge and skills

PO6.Learns significance of infection and cross infection control in dental practice.

PO7.To learn the importance of various dental tissues in forensic sciences.

PO8.Attends dental hospital and general hospital postings, community camps.

PO9.Administer all forms of local anesthesia knowledge of various maxillofacial problems like injuries, infections and deformities of the jaw.

PO10.Restoration of various kinds and endodontic procedures, removable and fixed prosthodontics.

PO11.Appreciate the role of dentofacial growth and development of malocclusion.

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PO12: Train in various radiological techniques and its interpretations.

Program specific outcome- PSO

PSO1- Integrated Learning which is multidisciplinary with other specialties like General Pathology, General Microbiology and General Medicine, Aiding Exposure to advanced diagnostic procedures

PSO2- Training methods wherein the students demonstrated and guided in understanding various pathologic conditions. Teaching will be enhanced using models.

PSO3- Students will be encouraged to attend clinicopathologic presentations, present seminars involve in group discussions, making of charts and models

Course outcome- CO

CO1-Appreciate the clinical and microscopic features of common lesions affecting oral tissues.

CO2- Identifying the tooth anomalies

CO3-Appreciate the hematological preparations of common disorders like anemia.

CO4-Understanding of the basic exercises in Forensic Odontology such as histological methods of age estimation

CO5- Person Identification with cheiloscopy / **Estimating** age and gender for forensic studies



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SLNO	COURSE OUTCOME	KNOWLEDGE LEVEL (BLOOMS LEVEL)
CO1	<i>Appreciate</i> the clinical and microscopic features of common lesions affecting oral tissues	L1
CO2	<i>Identifying</i> the teeth anomalies	L1
CO3	<i>Appreciate</i> the hematological preparations of common disorders like anemia.	L1
CO4	<i>Understanding</i> of the basic exercises in Forensic Odontology such as histological methods of age estimation	L2
CO5	Person <i>Identification</i> with cheiloscopy/ <i>Estimating</i> age and gender for forensic studies	L4

COURSE OUTCOME-PROGRAM OUTCOME MATRIX

SI NO	COURSE OUTCOME	PO	PSO
CO1	<i>Appreciate</i> the clinical and microscopic features of common lesions affecting oral tissues	1,2	1,2,3
CO2	<i>Identifying</i> the teeth anomalies	1,2,3	1,2,3
CO3	<i>Appreciate</i> the hematological preparations of common disorders like anemia.	1,2,3,11	1,2,3
CO4	<i>Understanding</i> of the basic exercises in Forensic Odontology such as histological methods of age estimation	1,2,3,4,11,7	1,2,3
CO5	Person <i>Identification</i> with cheiloscopy/ <i>Estimating</i> age and gender for forensic studies	1,2,3,4,11,7,5	1,2,3



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PROGRAM OUTCOME MATRIX

CO	PROGRAM OUTCOME (PO)											
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10	PO11	PO12
	1	2	3	4	5	6	7	8	9	10	11	12
CO1	2	2	2	2	2	-	-	-	-	-	-	-
CO2	2	2	2	2	2	-	2	-	-	-	-	-
CO3	3	2	2	2	2	-	-	-	-	-	-	-
CO4	2	1	1	1	2	-	2	-	-	-	-	-
CO5	2	1	1	2	2	-	2	1	-	-	-	-
AVG	1.6	1.6	1.6	1.8	2	0	1.2	0.2	0	0	0	0

COURSE OUTCOME-PROGRAM SPECIFIC OUTCOME MATRIX

CO	PROGRAM SPECIFIC OUTCOME		
	PSO1	PSO2	PSO3
CO1- <i>Appreciate</i> the clinical and microscopic features of common lesions affecting oral tissues.	3	3	3
CO2- <i>Identifying</i> the teeth anomalies	3	3	3
CO3- <i>Appreciate</i> the hematological preparations of common disorders like anemia.	3	3	3
CO4- <i>Understanding</i> of the basic exercises in Forensic Odontology such as histological methods of age estimation and personal	3	3	3

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COS- Identification WITH cheiloscopy/ Determining age and gender for forensic studies	3	3	3
AVERAGE	3	3	3

**COMPUTATION OF COURSE OUTCOME-PROGRAM
OUTCOME/PROGRAM SPECIFIC OUTCOME ATTAINMENT**

COURSE	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	P 1 S O	P 2 S O	P 3 S O
ORAL PATHOLOGY	2	2	2	2	2	-	1	1	-	-	-	-	3	3	3
WEIGHTED AVERAGE	1.6	1.6	1.6	1.8	2	0	1.2	0.2	0	0	0	0	3	3	3

COURSE OUTCOME ATTAINMENT - ASSESSMENT PATTERN

ASSESSMENT TYPE	ASSESSMENT TOOL
DIRECT ATTAINMENT	FIRST INTERNAL EXAMINATION
	THEORY-70
	PRACTICAL-80
	SECOND INTERNAL EXAMINATION
	THEORY-70
	PRACTICAL-80
	THIRD INTERNAL EXAMINATION
	THEORY-70
	PRACTICAL-80
	UNIVERSITY EXAMINATION
	THEORY-100

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	PRACTICAL-100
INDIRECT ATTAINMENT	END EXAM FEEDBACK

DIRECT COURSE OUTCOME ATTAINMENT = 20% OF INTERNAL EXAMINATION (IE) ATTAINMENT + 80% OF EXTERNAL EXAMINATION (EE) ATTAINMENT.

OVERALL COURSE OUTCOME ATTAINMENT = 90% DIRECT COURSE OUTCOME ATTAINMENT + 10% OF INDIRECT ATTAINMENT

CO ATTAINMENT TARGET LEVELS

ASSESSMENT METHODS	ATTAINMENT LEVEL
UNIVERSITY EXAMINATIONS	THRESHOLD VALUE FOR THEORY (70) + VIVA VOCE (20) + INTERNAL ASSESSMENT (10), THRESHOLD VALUE IS 50%. $i.e. 0.5 \times (70 + 20 + 10) = 50$
	LEVEL 1 50% OF STUDENTS SCORING MORE THAN 50 MARKS IN THEORY AND PRACTICAL
	LEVEL 2 60% OF STUDENTS SCORING MORE THAN 50 MARKS IN THEORY AND PRACTICAL
	LEVEL 3 70% OF STUDENTS SCORING MORE THAN 50 MARKS IN THEORY AND PRACTICAL



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COMPUTATION OF CO DIRECT ATTAINMENT

COS	Assessment tool (internal examination /external examination)	Internal examination (IE)		EXTERNAL EXAMINATION (EE)	DIRECT CO ATTAINMENT = $(0.2 \times \text{IEE ATTAINMENT LEVEL}) + (0.8 \times \text{E ATTAINMENT LEVEL})$
		ATTAINMENT LEVEL	AVG ATTAINMENT LEVEL	ATTAINMENT LEVEL	
CO1	THEORY & PRACTICAL	2.5	2.5	3	2.9
CO2	THEORY & PRACTICAL	2.25	2.25	3	2.85
CO3	THEORY & PRACTICAL	1.5	1.5	3	2.7
CO4	THEORY & PRACTICAL	2.25	2.25	3	2.85
CO 5	THEORY & PRACTICAL	1.17	1.17	3	2.63

COURSE OUTCOME DIRECT ATTAINMENT



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COMPUTATION OF CO INDIRECT ATTAINMENT IN THE COURSE:

Attainment of CO OF ORAL PATHOLOGY= (Level-1 X No of Students Attempted) + (Level-2x No of Students Attempted) + (Level-3 X No of Students Attempted)/Total No of Students

COMPUTATION OF CO INDIRECT ATTAINMENT IN THE COURSE					
COs	CO1	CO2	CO3	CO4	CO5
Students Answered Level -1	10	12	14	15	12
Students Answered Level -2	30	25	24	20	23
Students Answered Level -3	22	25	24	27	27
TOTAL STUDENTS PARTICIPATED	62	62	62	62	62
Co Attainment Level	2.19	2.20	2.16	2.19	2.24



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CO INDIRECT ATTAINMENT



COURSE OUTCOME INDIRECT ATTAINMENT

COMPUTATION OF CO INDIRECT ATTAINMENT

COMPUTATION OF COURSE OUTCOME OVERALL ATTAINMENT

CO	DIRECT CO ATTAINMENT LEVEL (DA)	INDIRECT CO ATTAINMENT LEVEL (IDA)	OVERALL CO ATTAINMENT LEVEL $0.9 \times DA + 0.1 \times IDA$
CO 1	2.9	2.19	2.83
CO 2	2.85	2.20	2.79
CO 3	2.7	2.16	2.65
CO 4	2.85	2.19	2.78
CO 5	2.63	2.24	2.50
AVERAGE CO ATTAINMENT			2.73

COURSE OUTCOME CORRECTIVE MEASURES

FOR NEXT ACADEMIC YEAR

CO	ATTAINMENT	ACTION PLAN
CO3	2.65	CLINICAL DEMONSTRATION

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		CASE SCENARIO AND EXPLANATION TEST VIVA OSPE
CO5	2.59	SIMULATION WITH MODELS GROUP DISCUSSION TEST VIVA

PO/PSO ASSESMENT PROCESS

ASSESMENT TOOLS: UNIVERSITY EXAMINATION

ASSESMENT FREQUENCY: ONCE A YEAR

ASSESED BY: SUBJECT EXPERT

REVIEWED BY: HOD

METHOD: DIRECT

COURSE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
ORAL PATHOLOGY	2	2	2	2	2	-	1	1	-	-	-	-
WEIGHTED AVERAGE	1.6	1.6	1.6	1.8	2	0	1.2	0.2	0	0	0	0

PO	ATTAINMENT LEVEL
PO1	$1.6 \times 2.73/3 = 1.46$
PO2	$1.6 \times 2.73/3 = 1.46$
PO3	$1.6 \times 2.73/3 = 1.46$
PO4	$1.8 \times 2.73/3 = 1.64$
PO5	$2 \times 2.73/3 = 1.82$
PO7	$1.2 \times 2.73/3 = 1.1$

PO= (WEIGHTED AVERAGE VALUE OF PO X CO ATTAINMENT AVERAGE)/3

RESULT OF PO ATTAINMENT

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COURSE	PO1	PO2	PO3	PO4	PO5	PO7
ORAL PATHOLOGY & MICROBIOLOGY	1.6	1.6	1.6	1.8	2	1.2
ATTAINMENT	1.46	1.46	1.46	1.64	1.82	1.1

COURSE	PO4	PO5
ORAL PATHOLOGY AND MICROBIOLOGY	1.8	2
ATTAINMENT	1.64	1.82

PROGRAM OUTCOME CORRECTIVE MEASURES

PO	ATTAINMENT	ACTION PLAN
PO4	1.64	Promote Research activities Encourage participation in Clinicopathologic presentations
PO5	1.82	Encourage participation in Continuing Dental Education programs

PSO'S ATTAINMENT RESULTS

PSO=weighted average value of PSO*CO attainment average/3

PSO mapping

COURSE	PSO1	PSO2	PSO3
ORAL PATHOLOGY AND MICROBIOLOGY	3	3	3

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WEIGHTED AVERAGE	3	3	3
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PSO ATTAINMENT COMPUTATION

PSO	ATTAINMENT LEVEL
PSO1	$3 \times 2.7 / 3 = 2.7$
PSO2	$3 \times 2.7 / 3 = 2.7$
PSO3	$3 \times 2.7 / 3 = 2.7$

PSO ATTAINMENT LEVELS

COURSE	PSO1	PSO2	PSO3
ORAL PATHOLOGY AND MICROBIOLOGY	3	3	3
WEIGHTED AVERAGE	2.7	2.7	2.7

PSO'S CORRECTIVE MEASURES

PSO	ATTAINMENT	ACTION PLAN
PSO1	2.7	Case Discussion Collaboration with pathology and general ward postings Exposure to advanced diagnostic procedures Various microbiological assays
PSO2	2.7	Teaching using various models
PSO3	2.7	Seminar presentation, charts and model making Forensic applications Blended learning measures

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PROGRAMME OUTCOME BDS

COURSE : ORTHODONTICS 2022-2023

PROGRAMME OUTCOM (PO)

- 1.Integration of basic sciences, clinical dental surgery and practical and laboratory skills
- 2.Sufficient practical skill including patient management skill for treatment of patients of all ages
with special reference to pediatric, geriatric and medically compromised and disabled patient
- 3.Sociological aspects of health care particularly oral health care including the reasons for the variation in oral and dental needs of the society.
- 4.Motivation for interdisciplinary research activities and emphasis on evidence based dentistry
- 5.Participation in Continual Dental Educational programs to update knowledge and skills
- 6.Learns significance of infection and cross infection control in dental practice
- 7.To learn the importance of various dental tissues in forensic sciences.
- 8.Attends dental hospital and general hospital postings, community camps
- 9.Administer all forms of local anesthesia knowledge of various maxillofacial problems like injuries,
infections and deformities of the jaw.
- 10.Restoration of various kinds and endodontic procedures, removable and fixed prosthodontics.
- 11.Appreciate the role of dentofacial growth and development of malocclusion.
- 12.Train in various radiological techniques and its interpretations

Program specific outcome(PSO)

PSO1- planning a comprehensive treatment protocol for growth modification in growing adolescents

PSO 2- effective treatment planning using cephalometry and model analysis

PSO 3- Simulation based learning

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Course outcome(CO)

1. Understand about normal growth and development of facial skeleton and dentition.
2. Be able to pinpoint aberrations in growth process both dental and skeletal and plan necessary treatment.
3. Be able to diagnose the various malocclusion categories.
4. Be able to motivate explain to the patient parent/guardian about necessity of treatment.
5. Be able to plan and execute preventive orthodontics (space maintainers or space regainers).
6. Be able to plan and execute interceptive orthodontics (habit breaking appliances).
7. Be able to manage treatment of simple malocclusion such as anterior spacing using removable appliances.
8. Be able to handle delivery and activation of removable orthodontic / myofacial appliances.
9. Be able to diagnose and appropriately refer patients with complex malocclusion to the specialist.

SL NO	COURSE OUTCOME(CO)	KNOWLEDGE LEVEL (BLOOMS LEVEL)
CO1	Understand about normal growth and development of facial skeleton and dentition.	L2
CO2	Be able to pinpoint aberrations in growth process both dental and skeletal and plan necessary treatment.	L3
CO3	Be able to diagnose the various malocclusion categories.	L3
CO5	Be able to motivate explain to the patient parent/guardian about necessity of treatment.	L3
CO6	Be able to plan and execute preventive orthodontics (space maintainers or space regainers).	L3
CO7	Be able to manage treatment of simple malocclusion such as anterior spacing using removable appliances.	L6
CO8	Be able to handle delivery and activation of removable orthodontic /myofacial appliances.	L6
CO9	Be able to diagnose and appropriately refer patients with	L4

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	complex malocclusion to the specialist.	
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COURSE OUTCOME PROGRAM OUTCOME MATRIX

SL NO	COURSE OUTCOME(CO)	PO	PSO
CO1	Understand about normal growth and development of facial skeleton and dentition.	1,3,4,7,11	1,2,3
CO2	Be able to pinpoint aberrations in growth process both dental and skeletal and plan necessary treatment.	1,5,7,11,12	1,2,3
CO3	Be able to diagnose the various malocclusion categories.	1,2,4,7,8,11,	1,2,3
CO5	Be able to motivate explain to the patient parent/guardian about necessity of treatment.	1,2,3,11	1,2,3
CO6	Be able to plan and execute preventive orthodontics (space maintainers or space regainers).	1,2,3,7,11,	1,2,3
CO7	Be able to manage treatment of simple malocclusion such as anterior spacing using removable appliances.	2,8,11	1,2,3
CO8	Be able to handle delivery and activation of removable orthodontic / myofacial appliances.	2,8,11,12	1,2,3
CO9	Be able to diagnose and appropriately refer patients with complex malocclusion to the specialist.	1,2,4,11,12	1,2,3

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Co	PROGRAM OUTCOME (PO)											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	-	1	2	-	-	2	-	-	-	3	1
CO2	2	-	-	-	2	-	1	-	-	-	3	1
CO3	2	2	-	1	-	-	1	-	-	-	3	2
CO5	2	2	2	-	-	-	-	1	-	-	2	2
CO6	3	3	2	-	-	2	2	2	-	-	3	1
CO7	2	2	2	1	-	-	2	2	-	-	2	1
CO8	2	2	2	3	-	-	2	2	-	-	3	2
CO9	2	2	2	2	-	-	2	2	-	-	2	2
AVG	1.8	1.2	1.2	1	2	2	1.3	1	0	0	2.3	1.3

COURSE OUTCOME PROGRAM SPECIFIC OUTCOME MATRIX

CO	PROGRAM SPECIFIC OUTCOME		
	PSO1	PSO2	PSO3
Understand about normal growth and development of facial skeleton and dentition.	3	1	1
Be able to pinpoint aberrations in growth process both dental and skeletal and plan necessary treatment.	3	1	1
Be able to diagnose the various malocclusion categories.	3	2	1
Be able to motivate explain to the patient parent/guardian about necessity of treatment.	2	2	1
Be able to plan and execute preventive orthodontics (space maintainers or space regainers).	2	1	1
Be able to manage treatment of simple malocclusion such as anterior spacing using removable appliances.	2	2	2
Be able to handle delivery and activation of removable orthodontic /myofacial appliances.	1	2	2
Be able to diagnose and appropriately refer patients with complex malocclusion to the specialist.	3	1	2

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COMPUTATION OF COURSE OUTCOME – PROGRAM OUTCOME/PROGRAM SPECIFIC OUTCOME ATTAINMENT

COURS E.	P O 1	P O 2	P O 3	P O 4	P O 5	P O 6	P O 7	P O 8	P O 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
Ortho ntics And Dentofa cial Orthope dics	2	1	1	1	0	0	1	1	0	0	2	1	2	2	1
WEIGH TED AVERA GE	1. 8	1. 2	1. 2	1	.2	.2	1. 3	1	0	0	2.3	1.3	2.1	1.5	1.2

CO ATTAINMENT TARGET LEVELS

ASSESSMENT METHODS	ATTAINMENT LEVEL
UNIVERSITY EXAMINATIONS	THRESHOLD VALUE FOR THEORY (70) + VIVA VOCE (20) +INTERNAL ASSESSMENT (10). THRESHOLD VALUE IS 50%. $I.e. 0.5X(70+20+10)=50$
	LEVEL 1 50% OF STUDENTS SCORING MORE THAN 50 MARKS IN THEORY AND PRACTICAL
	LEVEL 2 60% OF STUDENTS SCORING MORE THAN 50 MARKS IN THEORY AND PRACTICAL
	LEVEL 3 70% OF STUDENTS SCORING MORE THAN 50 MARKS IN THEORY AND PRACTICAL

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COMPUTATION OF CO DIRECT ATTAINMENT

Cos	Assessment tool (internal examination / external examination)	Internal examination (IE)		EXTERNAL EXAMINATION (EE)	DIRECT CO ATTAINMENT $= (0.2 \times \text{IE ATTAINMENT LEVEL}) + (0.8 \times \text{EE ATTAINMENT LEVEL})$
		ATTAINMENT LEVEL	AVERAGE ATTAINMENT LEVEL	ATTAINMENT LEVEL	
CO1	THEORY & PRACTICAL	2.3	2.3	3	2.86
CO2	THEORY & PRACTICAL	2.2	2.2	3	2.84
CO3	THEORY & PRACTICAL	1.6	1.6	3	2.72
CO4	THEORY & PRACTICAL	2.2	2.2	3	2.84
CO5	THEORY & PRACTICAL	1.13	1.13	3	2.63
CO6	THEORY & PRACTICAL	1.2	1.2	3	2.6
CO7	THEORY & PRACTICAL	2	2	3	2.8
CO8	THEORY & PRACTICAL	1.7	1.7	3	2.74
CO9	THEORY & PRACTICAL	1.6	1.6	3	2.72

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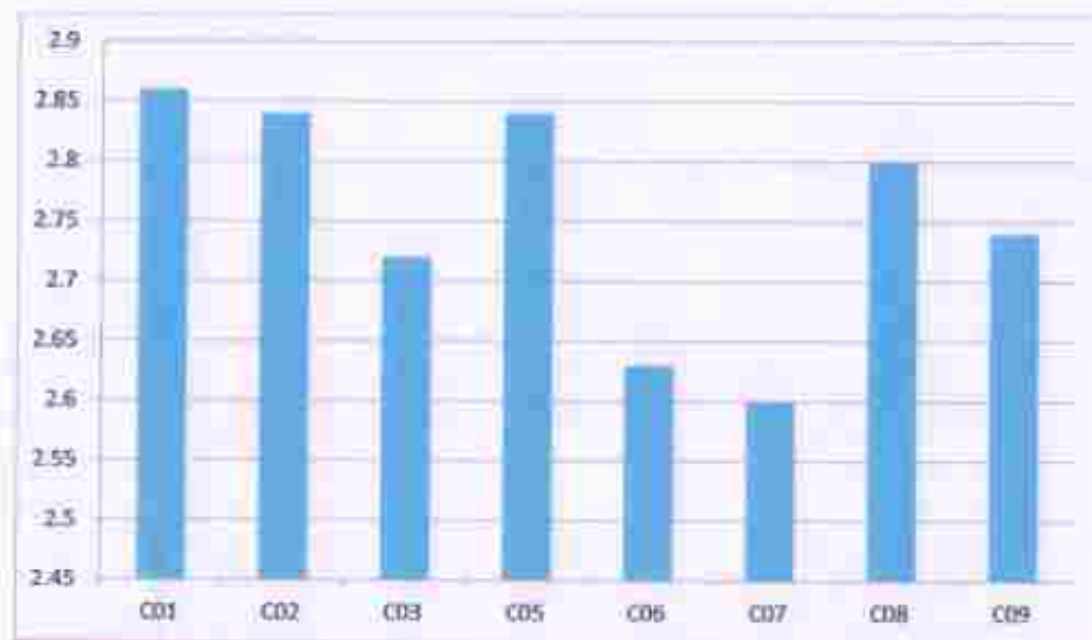
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COURSE OUTCOME DIRECT ATTAINMENT



COMPUTATION OF CO INDIRECT ATTAINMENT IN THE COURSE:

Attainment of Co Orthodontics and dentofacial orthoped = (Level-1 X No of Students Attempted) + (Level-2x No of Students Attempted) + (Level-3 X No of Students Attempted)/Total No of Students

COMPUTATION OF CO INDIRECT ATTAINMENT IN THE COURSE									
COS	CO1	CO2	CO3	CO4	CO5	CO6	CO7	CO8	CO9
Students Answered Level-1	12	17	12	14	13	13	12	16	13
Students Answered Level-2	20	21	22	20	23	20	17	18	19

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COURSE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Students Answered Level -3	32	26	30	30	36	32	35	30	32			
TOTAL STUDENTS PARTICIPATED	64	64	64	64	64	64	64	64	64	64	64	64
Co-Markdown (Range)	2.4	2.44	2.4	2.4	2.4	2.42	2.45	2.46	2.49			

COURSE OUTCOME CORRECTIVE MEASURES FOR NEXT ACADEMIC YEAR

CO	ATTAINMENT	ACTION PLAN
CO3	2.1	RAPID REVISION VIVA
CO5	2.25	CLASS TEST VIVA
CO5	2.32	MOCK PRECLINICAL EXERCISES

POPSO ASSESMENT PROCESS

ASSESSMENT

TOOLS:

UNIVERSITY

EXAMINATION

ASSESSMENT

FREQUENCY:

ONCE A YEAR

ASSESSED BY:

SUBJECT EXPERT



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Orthodontics And Dentofacial Orthopedics	2	1	1	1	0	0	1	1	0	0	2	1
WEIGHTED AVERAGE	1.8	1.2	1.2	1	.2	.2	1.3	1	0	0	2.3	1.3

PO	ATTAINMENT LEVEL
PO1	1.8X2.70/3=1.9
PO2	1.2X2.70/3=1
PO3	1.2X2.70/3=1
PO4	1X2.70/3=0.9
PO5	.2X2.70/3=.5
PO6	.2X2.70/3=.5
PO7	1.3X2.70/3=1.17
PO8	1X2.70/3=0.9
PO11	2.3X2.70/3=2.07
PO12	1.3X2.70/3=1.17

RESULT OF PO ATTAINMENT

COURSE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO11	PO12
ORTHO	1.8	1.2	1.2	1	.2	.2	1.3	1	2.3	1.3
ATTAINMENT	1.9	1	1	.9	0.5	.5	1.17	.9	2.07	1.17

PROGRAM OUTCOME CORRECTIVE MEASURES

PO	ATTAINMENT	ACTION PLAN
PO4	.9	VIVA, MOCK CLINICAL EXAMS, PEDAGOGY
PO5	.5	ASSISTING PG CASES, CASE DISCUSSIONS, DEMONSTRATIONS
PO6	.5	SETTING COMPULSORY QUOTA FOR ATTENDING CDE, WORK SHOPS AND HANDS ON
PO8	0.9	MOCK PRECLINICAL EXERCISES

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PSO's ATTAINMENT RESULTS

PSO=weighted average value of PSO*CO

attainment average/PSO mapping

COURSE	PSO1	PSO2	PSO3
ORTHO	2	2	1
WEIGHTED AVERAGE	2.1	1.5	1.2

PSO ATTAINMENT COMPUTATION

PSO	ATTAINMENT LEVEL
PSO1	$2.1 \times 2.70/3 = 1.89$
PSO2	$1.5 \times 2.70/3 = 1.35$
PSO3	$1.2 \times 2.70/3 = 1$

PSO'S CORRECTIVE MEASURES

PSO	ATTAINMENT	ACTION PLAN
PSO2	1.35	CASE DISCUSSIONS, VIVA, PEDAGOGY
PSO3	1	ASSISTING SPECIAL CASES, WORKSHOPS AND HANDS ON



[Signature]
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KMCT DENTAL COLLEGE
PROGRAM OUTCOMES BDS

2022-2023

COURSE: PUBLIC HEALTH DENTISTRY

- PO1:** Integration of basic sciences, clinical dental surgery and practical and laboratory skills
- PO2:** Practical skill including apatient management skill for treatment of patients of all ages with special reference to pediatric, geriatric and medically compromised and disabled patient
- PO3:** Sociological aspects of health care particularly oral health care including the reasons for the variation in oral and dental needs of the society.
- PO4:** Motivation for interdisciplinary research activities and emphasis on evidence based dentistry
- PO5:** Participation in Continual Dental Educational programs to update knowledge and skills
- PO6:** Learns significance of infection and cross infection control in dental practice
- PO7:** To learn the importance of various dental tissues in forensic sciences.
- PO8:** Attends dental hospital and general hospital postings, community camps
- PO9:** Administer all forms of local anesthesia knowledge of various maxillofacial problems like injuries, infections and deformities of the jaw.
- PO10:** Restoration of various kinds and endodontic procedures, removable and fixed prosthodontics.
- PO11:** Appreciate the role of dentofacial growth and development of malocclusion.

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PO12: Train in various radiological techniques and its interpretations.

PROGRAM SPECIFIC OUTCOME (PSO)

PSO1: Train students in identifying prevalence of common oral disease and provision of basic dental health care in community setting.

PSO2: Train students to apply risk based assessment of patients and apply this knowledge in modifying risk factors for prevention of Oral diseases.

PSO3: Train students in planning for Comprehensive treatment management of patients.

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Principal
KMCT Dental College,
Kozhikode, Kerala



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COURSE OUTCOMES (CO)

- CO1.** Apply the principles health promotion disease prevention.
- CO2.** Have knowledge of the organization and provision of health care in community and in the hospital service
- CO3.** Have knowledge of the prevalence of common dental conditions in India
- CO4.** Have knowledge of community based and preventive measures.
- CO5.** Have knowledge of the social, cultural and environmental factors, which contribute to health or illness
- CO6.** Be able to administer hygiene instructions, topical fluoride therapy and fissure sealing
- CO7.** Be able to educate patients concerning the etiology and prevention of oral disease and encourage them to assume responsibility for their oral health.



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S.NO.	COURSE OUTCOMES (CO)	KNOWLEDGE LEVEL (BLOOMS LEVEL)
CO1	Apply the principles of health promotion, disease prevention	L3
CO2	Have knowledge of the organization and provision of health care in community and in the hospital service	L4
CO3	Have knowledge of the prevalence of common dental conditions in India	L3
CO4	Have knowledge of community based and preventive measures.	L4
CO5	Have knowledge of the social, cultural and environmental factors, which contribute to health or illness	L3
CO6	Be able to administer hygiene instructions, topical fluoride therapy and fissure sealing	L4
CO7	Be able to educate patients concerning the etiology and prevention of oral disease and encourage them to assume responsibility for their oral health.	L5



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COURSE OUTCOME- PROGRAM OUTCOME MATRIX

S.NO.	COURSE OUTCOMES (CO)	PO	PSO
CO1	Apply the principles of health promotion in disease prevention	2,3,5,8	1,2,3
CO2	Have knowledge of the organization and provision of health care in community and in the hospital service	1,2,3,4,5,6,8	1,2,3
CO3	Have knowledge of the prevalence of common dental conditions in India.	2,3,4,5,8	1,2,3
CO4	Have knowledge of community based and preventive measures.	1,2,3,4,5,6,8	1,2,3
CO5	Have knowledge of the social, cultural and environmental factors, which contribute to health or illness	3,4,5,8	1,2,3
CO6	Be able to administer hygiene instructions, topical fluoride therapy and fissure sealing	1,2,3,4,5,6,8	1,2,3
CO7	Be able to educate patients concerning the etiology and prevention of oral disease and encourage them to assume responsibility for their oral health.	3,4,5,8	1,2,3



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Principal
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PROGRAM OUTCOME (PO)

CO	PROGRAM OUTCOME (PO)											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1		1	3		1			3				
CO2	2	3	3	2	2	3		2				
CO3		3	2	2	1			3				
CO4	3	3	3	2	3	2		3				
CO5			3	2	3			2				
CO6	2	3	3	2	3	2		3				
CO7			3	2	3			3				
AVG	2.3	2.6	2.85	2	2.28	2.3		2.71				

DR. SANDY KUPPILY K.P

Principal

20/07/2023

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S.NO.	COURSE OUTCOMES (CO)	PROGRAM SPECIFIC OUTCOME		
		PSO1	PSO2	PSO3
CO1	Apply the principles of health promotion in disease prevention	2	3	2
CO2	Have knowledge of the organization and provision of health care in community and in the hospital service	3	2	2
CO3	Have knowledge of the prevalence of common dental conditions in India	2	3	2
CO4	Have knowledge of community based and preventive measures.	3	3	3
CO5	Have knowledge of the social, cultural and environmental factors, which contribute to health or illness	2	3	2
CO6	Be able to administer hygiene instructions, topical fluoride therapy and fissure sealing	2	2	3
CO7	Be able to educate patients concerning the etiology and prevention of oral disease and encourage them to assume responsibility for their oral health.	2	3	3
AVG		2.28	2.71	2.42

INFERENCE: 1-LOW, 2-MEDIUM, 3-HIGH

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COMPUTATION OF COURSE OUTCOME-PROGRAM OUTCOME/PROGRAM SPECIFIC OUTCOME ATTAINMENT

COURSE	PROGRAM OUTCOME (PO)											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
WEIGHTED AVERAGE AVG	2.3	2.6	1.85	2	2.28	2.3	0	2.71	0	0	0	0
PUBLIC HEALTH DENTISTRY AVERAGE	2	3	3	2	2	2	0	3	0	0	0	0



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COURSE OUTCOME ATTAINMENT

ASSESSMENT PATTERN

ASSESSMENT	ASSESSMENT TOOL
DIRECT ATTAINMENT	FIRST INTERNAL EXAMINATION THEORY- 70 PRACTICAL-80
	SECOND INTERNAL EXAMINATION THEORY- 70 PRACTICAL-80
	THIRD INTERNAL EXAMINATION THEORY- 70 PRACTICAL-80
	UNIVERSITY EXAMINATION THEORY- 100 PRACTICAL-100
INDIRECT EXAMINATION	END EXAM FEEDBACK

DIRECT COURSE OUTCOME ATTAINMENT = 20% OF INTERNAL EXAMINATION (IE)

ATTAINMENT + 80% OF EXTERNAL EXAMINATION (EE) ATTAINMENT

OVERALL COURSE OUTCOME ATTAINMENT = 90% DIRECT COURSE OUTCOME

ATTAINMENT + 10% OF INDIRECT ATTAINMENT

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CO ATTAINMENT TARGET LEVELS

ASSESSMENT METHODS	ATTAINMENT LEVEL
UNIVERSITY EXAMINATIONS	THRESHOLD VALUE FOR THEORY (70) + VIVA VOCE (20) + INTERNAL ASSESSMENT (10); THRESHOLD VALUE IS 50% i.e. $0.5 \times (70+20+10) = 50$
	LEVEL 1 50% OF STUDENTS SCORING MORE THAN 50 MARKS IN THEORY AND PRACTICAL
	LEVEL 2 60% OF STUDENTS SCORING MORE THAN 50 MARKS IN THEORY AND PRACTICAL
	LEVEL 3 70% OF STUDENTS SCORING MORE THAN 50 MARKS IN THEORY AND PRACTICAL

COS	ASSESSMENT TOOL	INTERNAL EXAMINATION	UNIVERSITY EXAMS	DIRECT ATTAINMENT = $(0.2 \times \text{IE ATTAINMENT LEVEL}) + (0.8 \times \text{EE ATTAINMENT LEVEL})$	CO
CO1	THEORY PRACTICAL	2.4	3	2.8	
CO2	THEORY PRACTICAL	2	3	2.8	
CO3	THEORY PRACTICAL	1.5	3	2.7	
CO4	THEORY	2.5	3	2.9	

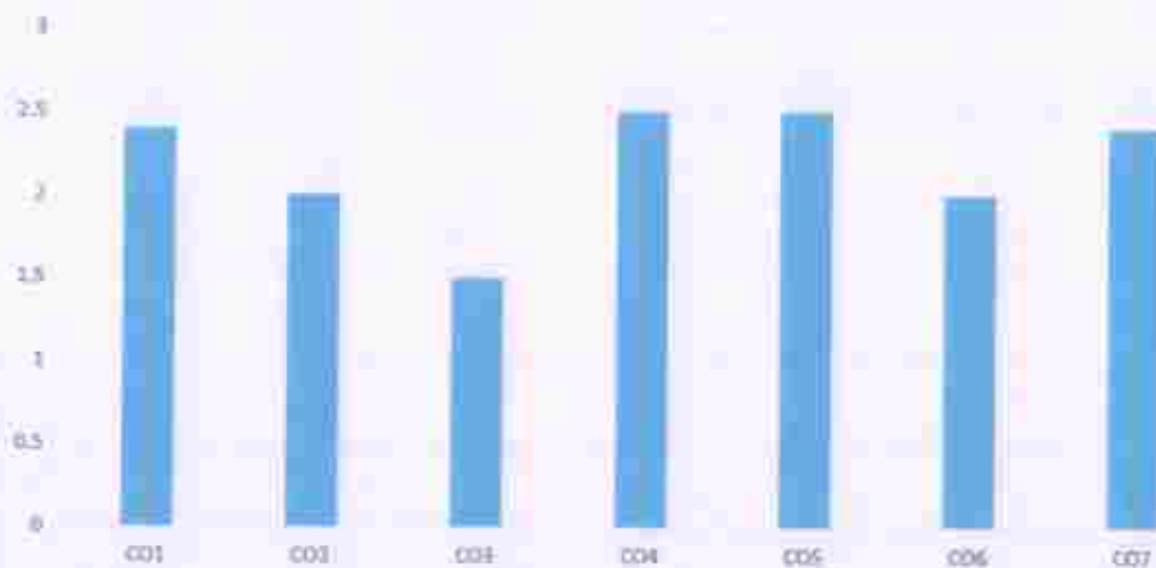
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	PRACTICAL			
CO5	THEORY	2.5	3	2.9
	PRACTICAL			
CO6	THEORY	2	3	2.8
	PRACTICAL			
CO7	THEORY	2.4	3	2.8
	PRACTICAL			

ATTAINMENT OF COURSE OUTCOMES



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COMPUTATION OF CO INDIRECT ATTAINMENT IN THE COURSE:

COS	CO1	CO2	CO3	CO4	CO5	CO6	CO7
STUDENTS ANSWERED LEVEL 1	10	9	15	6	11	15	9
STUDENTS ANSWERED LEVEL 2	15	12	14	16	13	13	11
STUDENTS ANSWERED LEVEL 3	26	30	22	29	27	23	31
TOTAL STUDENTS APPEARED	51	51	51	51	51	51	51
CO ATTAINMENT LEVEL	2.3	2.4	2.6	2.4	2.3	2.1	2.4

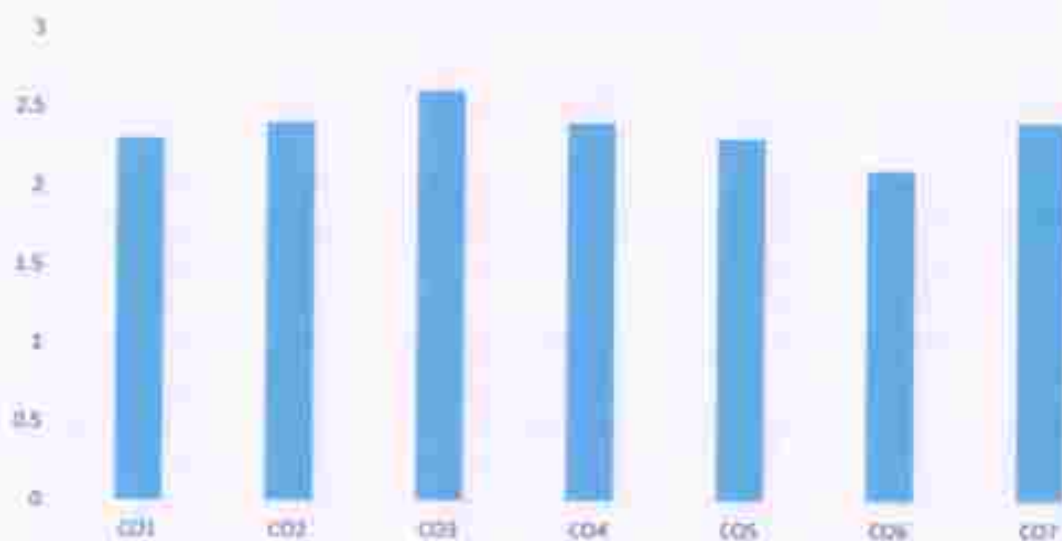


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COMPUTATION OF INDIRECT ATTAINMENT



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COMPUTATION OF CO INDIRECT ATTAINMENT

CO	DIRECT CO ATTAINMENT LEVEL (DA)	INDIRECT ATTAINMENT LEVEL (IDA)	OVERALL CO ATTAINMENT LEVEL 0.9 *DA+0.1*IDA
CO1	2.8	2.3	2.75
CO2	2.8	2.4	2.76
CO3	2.7	2.6	2.69
CO4	2.9	2.4	2.85
CO5	2.9	2.3	2.84
CO6	2.8	2.1	2.73
CO7	2.8	2.4	2.76
AVERAGE CO ATTAINMENT			2.76

COURSE OUTCOME CORRECTIVE MEASURES FOR NEXT ACADEMIC YEAR

CO	ATTAINMENT LEVELS	ACTION PLAN
CO1	2.75	ASSIGNMENTS & VIVA
CO3	2.69	MORE OF SELF DIRECTED LEARNING THROUGH EXTRA READING MATERIAL & VIVA
CO6	2.73	MORE EXPERIENTIAL LEARNING THROUGH DEMONSTRATION &

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PO/PSO ATTAINMENT PROCESS

ASSESSMENT TOOLS: UNIVERSITY EXAMINATION

ASSESSMENT FREQUENCY: ONCE A YEAR

ASSESSED BY: SUBJECT EXPERT

REVIEWED BY: HOD

METHOD: DIRECT

COURSE	PROGRAM OUTCOME (PO)											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
WEIGHTED AVERAGE AVG	2.3	2.6	2.85	2	2.28	2.3	0	2.71	0	0	0	0
PUBLIC HEALTH DENTISTRY AVERAGE	2	3	3	2	2	2	0	3	0	0	0	0

PO= (WEIGHTED AVERAGE VALUE OF PO X CO ATTAINMENT AVERAGE)/3

PO	ATTAINMENT LEVEL
PO1	$2.3 \times 2.76/3 = 2.07$
PO2	$2.6 \times 2.76/3 = 2.34$
PO3	$2.8 \times 2.76/3 = 2.52$
PO4	$2 \times 2.76/3 = 1.84$
PO5	$2.28 \times 2.76/3 = 2.09$
PO6	$2.3 \times 2.76/3 = 2.11$
PO8	$2.7 \times 2.76/3 = 2.48$

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RESULTS OF PO ATTAINMENT

COURSE	PO1	PO2	PO3	PO4	PO5	PO6	PO8
PUBLIC HEALTH DENTISTRY	2.3	2.6	2.8	2	2.28	2.3	2.7
ATTAINMENT	2.07	2.34	2.52	1.84	2.09	2.11	2.48

PSO CORRECTIVE MEASURES

PO	ATTAINMENT LEVELS	ACTION PLAN
PO1	2.07	MORE OF EXPERIENTIAL LEARNING THROUGH DEMONSTRATION & RECORDING OF CLINICAL CASES
PO4	1.84	MORE OF PROJECT BASED LEARNING & DISCUSSION ON RESEARCH METHODOLOGY/SURVEYS
PO5	2.09	ENCOURAGING PARTICIPATION IN CDE PROGRAMS ORGANIZED



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PSO's ATTAINMENT RESULTS

PSO=weighted average value of PSO*CO attainment average/3

PSO MAPPING

COURSE	PSO1	PSO2	PSO3
PUBLIC HEALTH DENTISTRY	2	3	2
WEIGHTED AVERAGE	2.28	2.71	2.42

PSO ATTAINMENT COMPUTATION

PSO	ATTAINMENT LEVEL
PSO1	$2.28 \times 2.76/3 = 2.09$
PSO2	$2.71 \times 2.76/3 = 2.49$
PSO3	$2.42 \times 2.76/3 = 2.22$

PSO ATTAINMENT LEVELS

COURSE	PSO1	PSO2	PSO3
PUBLIC HEALTH DENTISTRY	2.28	2.71	2.42
ATTAINMENT	2.09	2.49	2.22

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PSO CORRECTIVE MEASURES

	ATTAINMENT	ACTION PLAN
PSO2	2.49	GIVE MORE CASE SCENARIOS TO IDENTIFY RISK FACTORS



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PROGRAMME OUTCOME BDS

COURSE: PROSTHODONTICS AND CROWN AND BRIDGE

PROGRAM OUTCOME

- PO1** - Integration of basic sciences, clinical dental surgery and practical and laboratory skills
- PO2** - Sufficient practical skill including patient management skill for treatment of patients of all ages with special reference to pediatric, geriatric and medically compromised and disabled patient
- PO3** - Sociological aspects of health care particularly oral health care including the reasons for the variation in oral and dental needs of the society.
- PO4** - Motivation for interdisciplinary research activities and emphasis on evidence based dentistry
- PO5** - Participation in Continual Dental Educational programs to update knowledge and skills
- PO6** - Learns significance of infection and cross infection control in dental practice
- PO7** - To learn the importance of various dental tissues in forensic sciences.
- PO8** - Attends dental hospital and general hospital postings, community camps
- PO9** - Administer all forms of local anesthesia knowledge of various maxillofacial problems like injuries, infections and deformities of the jaw.
- PO10** - Restoration of various kinds and endodontic procedures, removable and fixed prosthodontics.
- PO11** - Appreciate the role of dentofacial growth and development of malocclusion.

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PO12 - Train in various radiological techniques and its interpretations

PROGRAM SPECIFIC OUTCOME (PSO)

PSO1 – Application of recent trends and advanced treatment modalities and approaches in management of geriatric medically compromised patients.

PSO2 – Effectively treating patients with maxillofacial defects after RTA or radiation therapy.

PSO3 - Implant

COURSE OUTCOME (CO)

CO1 - Be able to understand and use various dental materials.

CO2 -Be competent to carry out treatment of conventional Simple complete and partial removable dentures and anterior crowns.

CO3 - Be able to analyze Prosthodontic laboratory procedures.

CO4 - Be familiar with the concepts of osseointegration and the value of implant supported Prosthodontic procedures.

CO5 - Be able to diagnose and appropriately refer patients requiring complex treatment procedures to the specialist.



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Sl. NO	COURSE OUTCOME (CO)	KNOWLEDGE LEVEL (BLOOMS LEVEL)
CO1	Be able to understand and use various dental materials.	L2
CO2	Be competent to carry out treatment of conventional Simple complete and partial removable dentures and anterior crowns.	L3
CO3	Be able to analyze Prosthodontic laboratory procedures.	L4
CO4	Be familiar with the concepts of osseointegration and the value of implant supported Prosthodontic procedures.	L2
CO5	Be able to diagnose and appropriately refer patients requiring complex treatment procedures to the specialist.	L5



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SL NO	COURSE OUTCOME	PO	PSO
CO1	Be able to understand and use various dental materials.	1,4	1,2,3
CO2	Be competent to carry out treatment of conventional Simple complete and partial removable dentures and anterior crowns.	1,2,3,4,10	1,2,3
CO3	Be able to analyze Prosthodontic laboratory procedures.	1	1,2,3
CO4	Be familiar with the concepts of osseointegration and the value of implant supported Prosthodontic procedures.	1,2,3,4,10,11	1,2,3
CO5	Be able to diagnose and appropriately refer patients requiring complex treatment procedures to the specialist.	1,2,3,4,8,9,10,11	1,2,3

PROGRAM OUTCOME (PO)

CO												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	-	-	2	-	-	-	-	-	-	-	-
CO2	2	3	3	2	-	-	-	-	-	3	1	1
CO3	2	-	-	-	-	-	-	-	-	-	-	-
CO4	2	2	2	1	-	-	-	-	-	2	1	-
CO5	2	3	2	1	-	-	-	2	-	3	2	1
AVG	2.2	1.6	1.4	1.2	0	0	0	0.4	0	1.6	0.8	0.4

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COURSE OUTCOME – PROGRAM SPECIFIC OUTCOME MATRIX

SL NO	COURSE OUTCOME	PROGRAM SPECIFIC OUTCOME MATRIX		
		PSO 1	PSO 2	PSO 3
CO1	Be able to ~~understand~~ and use various dental materials.	1	-	2
CO2	Be competent to ~~carry out~~ treatment of conventional Simple complete and partial removable dentures and anterior crowns.	3	2	1
CO3	Be able to ~~analyze~~ Prosthodontic laboratory procedures.	1	-	-
CO4	Be ~~familiar~~ with the concepts of osseointegration and the value of implant supported Prosthodontic procedures.	1	2	3
CO5	Be able to ~~diagnose~~ and appropriately refer patients requiring complex treatment procedures to the specialist.	2	2	2
AVERAGE		1.4	1.2	1.2

INFERENCE: 1- LOW, 2- MEDIUM, 3- HIGH

COURSE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3

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PROSTHODONTICS AND CROWN AND BRIDGE	2	2	1	1	0	0	0	0	0	2	1	0	1	1	1
WEIGHTED AVERAGE	2.2	1.6	1.4	1.2	0	0	0	0.4	0	1.6	0.8	0.4	1.4	1.2	1.2

**COMPUTATION OF COURSE OUTCOME – PROGRAM OUTCOME/
PROGRAM SPECIFIC OUTCOME ATTAINMENT**

COURSE OUTCOME ATTAINMENT

ASSESSMENT PATTERN

ASSESSMENT TYPE	ASSESSMENT TOOL
DIRECT ATTAINMENT	FIRST INTERNAL EXAMINATION THEORY- 70 PRACTICAL- 80
	SECOND INTERNAL EXAMINATION THEORY - 70 PRACTICAL- 80
	THIRD INTERNAL EXAMINATION THEORY - 70 PRACTICAL - 80
	UNIVERSITY EXAMINATION THEORY - 100 PRACTICAL - 100
	END EXAM FEED BACK
INDIRECT ATTAINMENT	

**DIRECT COURSE OUTCOME ATTAINMENT = 20% OF INTERNAL EXAMINATION
(IE) ATTAINMENT + 80% OF EXTERNAL EXAMINATION (EE) ATTAINMENT.**

**OVERALL COURSE OUTCOME ATTAINMENT = 90% DIRECT COURSE OUTCOME
ATTAINMENT + 10% OF INDIRECT ATTAINMENT**



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CO ATTAINMENT TARGET LEVELS

ASSESSMENT METHODS	ATTAINMENT LEVEL	
UNIVERSITY EXAMINATIONS	THRESHOLD VALUE FOR THEORY (70) + VIVA VOCE (20) + INTERNAL ASSESSMENT (10). THRESHOLD VALUE IS 50%. i.e. $0.5 \times (70+20+10) = 50$	
	LEVEL 1	50% OF STUDENTS SCORING MORE THAN 50 MARKS IN THEORY AND PRACTICAL
	LEVEL 2	60% OF STUDENTS SCORING MORE THAN 50 MARKS IN THEORY AND PRACTICAL
	LEVEL 3	70% OF STUDENTS SCORING MORE THAN 50 MARKS IN THEORY AND PRACTICAL

COMPUTATION OF CO DIRECT ATTAINMENT

COs	Assessment tool (internal examination /external examination)	Internal examination (IE)		EXTERNAL EXAMINATION (EE)	DIRECT CO ATTAINMENT $= (0.2 \times \text{IE ATTAINMENT LEVEL}) + (0.8 \times \text{EE ATTAINMENT LEVEL})$
		ATTAINMENT LEVEL	AVERAGE ATTAINMENT LEVEL	ATTAINMENT LEVEL	
CO1	THEORY & PRACTICAL	2.1	2.1	3	2.84
CO2	THEORY & PRACTICAL	2.15	2.15	3	2.83
CO3	THEORY & PRACTICAL	1.5	1.5	3	2.7
CO4	THEORY & PRACTICAL	2.25	2.25	3	2.84
CO5	THEORY & PRACTICAL	1.5	1.5	3	2.7

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COURSE OUTCOME DIRECT ATTAINMENT



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COMPUTATION OF CO INDIRECT ATTAINMENT IN THE COURSE:

Attainment of Co Prosthodontics and crown and bridge=
(Level-1 X No of Students Attempted) + (Level-2x No of
Students Attempted) + (Level-3 X No of Students
Attempted)/Total No of Students

COMPUTATION OF CO INDIRECT ATTAINMENT IN THE COURSE					
COS	CO1	CO2	CO3	CO4	COS
Students Answered Level -1	14	14	12	14	12
Students Answered Level -2	22	20	29	29	29
Students Answered Level -3	37	39	32	30	32
TOTAL STUDENTS PARTICIPATED	73	73	73	73	73
Co attainment %	2.01	2.74	4.23	4.09	4.38



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COMPUTATION OF CO INDIRECT ATTAINMENT

COMPUTATION OF COURSE OUTCOME OVERALL ATTAINMENT

CO	DIRECT AATTAINMENT (DA)	CO LEVEL	INDIRECT AATTAINMENT (IDA)	CO LEVEL	OVERALL ATTAINMENT $0.9*DA+0.1*IDA$	CO LEVEL
CO1	2.34		2.31		2.78	
CO2	2.33		2.34		2.77	
CO3	2.7		2.27		2.65	
CO4	2.84		2.21		2.77	
CO5	2.7		2.27		2.65	
AVERAGE CO ATTAINMENT					2.72	



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COURSE OUTCOME CORRECTIVE MEASURES FOR NEXT ACADEMIC YEAR

CO	ATTAINMENT	ACTION PLAN
CO3	2.65	ASSISTANCE IN LAB PROCEDURES,
CO5	2.65	CLASS TEST VIVA

PO/PSO ASSESMENT PROCESS

ASSESSMENT TOOLS: UNIVERSITY EXAMINATION

ASSESSMENT FREQUENCY: ONCE A YEAR

ASSESSED BY: SUBJECT EXPERT

REVIEWED BY: HOD

METHOD : DIRECT

COURSE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
PROSTHODONTICS AND CROWN AND BRIDGE	2	2	1	1	0	0	0	0	0	2	1	0
WEIGHTED AVERAGE	2.2	1.6	1.4	1.2	0	0	0	0.4	0	1.6	0.8	0.4

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PO	ATTAINMENT LEVEL
PO1	$2.2 \times 2.72/3 = 1.9$
PO2	$1.6 \times 2.72/3 = 1.4$
PO3	$1.4 \times 2.72/3 = 1.26$
PO4	$1.2 \times 2.72/3 = 1.08$
PO8	$0.4 \times 2.72/3 = 0.36$
PO10	$1.6 \times 2.72/3 = 1.45$
PO11	$0.8 \times 2.72/3 = 0.72$
PO12	$.4 \times 2.72/3 = 0.36$

RESULT OF PO ATTAINMENT

COURSE	PO1	PO2	PO3	PO4	PO8	PO10	PO11	PO12
PROSTHO	2.2	1.6	1.4	1.2	0.4	1.6	0.8	0.4
ATTAINMENT	1.9	1.4	1.26	1.08	0.36	1.45	0.72	0.36

PROGRAM OUTCOME CORRECTIVE MEASURES

PO	ATTAINMENT	ACTION PLAN
PO1	1.9	VIVA, MOCK CLINICAL EXAMS
PO2	1.4	ASSISTING PG CASES, CASE DISCUSSIONS
PO3	1.2	SETTING COMPULSORY QUOTA FOR ATTENDING CDE, INTERCOLLEGE CDE PARTICIPATION
PO4	1.08	MOCK PRECLINICAL EXERCISES
PO10	1.45	ASSISTING VARIOUS SPECIAL CASES

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PSO's ATTAINMENT RESULTS

PSO=weighted average value of PSO*CO attainment average/3

PSO mapping

COURSE	PSO1	PSO2	PSO3
PROSTHO	1	2	1
WEIGHTED AVERAGE	1.4	1.2	1.2

PSO ATTAINMENT COMPUTATION

PSO	ATTAINMENT LEVEL
PSO1	$1.4 \times 2.72 / 3 = 1.26$
PSO2	$1.2 \times 2.72 / 3 = 1.08$
PSO3	$1.2 \times 2.72 / 3 = 1.08$

PSO ATTAINMENT LEVELS

COURSE	PSO1	PSO2	PSO3
PROSTHO	1.4	1.4	1.2
ATTAINMENT	1.26	1.08	1.08

PSO'S CORRECTIVE MEASURES

PSO	ATTAINMENT	ACTION PLAN
PSO1	1.26	CASE DISCUSSIONS, VIVA
PSO2	1.08	ASSISTING SPECIAL CASES
PSO3	1.08	ATTENDING CONFERENCES

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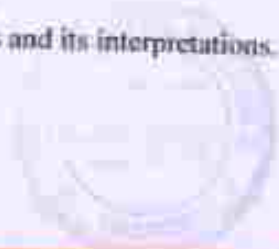


PROGRAMME OUTCOME BDS

COURSE: PHARMACOLOGY 2022-2023

PROGRAM OUTCOME (PO)

- PO1** - Integration of basic sciences, clinical dental surgery and practical and laboratory skills.
- PO2** - Sufficient practical skill including patient management skill for treatment of patients of all ages with special reference to pediatric, geriatric and medically compromised and disabled patient.
- PO3** - Sociological aspects of health care particularly oral health care including the reasons for the variation in oral and dental needs of the society.
- PO4** - Motivation for interdisciplinary research activities and emphasis on evidence based dentistry.
- PO5** - Participation in Continual Dental Educational programs to update knowledge and skills
- PO6** - Learns significance of infection and cross infection control in dental practice
- PO7** - To learn the importance of various dental tissues in forensic sciences.
- PO8** - Attends dental hospital and general hospital postings, community camps
- PO9** - Administer all forms of local anesthesia knowledge of various maxillofacial problems like injuries, infections and deformities of the jaw.
- PO10** - Restoration of various kinds and endodontic procedures, removable and fixed prosthodontics.
- PO11** - Appreciate the role of dentofacial growth and development of malocclusion.
- PO12** - Train in various radiological techniques and its interpretations.



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PROGRAM SPECIFIC OUTCOME (PSO)

- PSO1** - integrated learning of drug interactions and indications with a clinical case scenario
PSO2 - blended learning with student and faculty participation,
PSO3 - Simulation based learning in laboratory setup and also experimental learning.

COURSE OUTCOME (CO)

- CO1-** Should be able to explain the pharmacokinetics and pharmacodynamics of essential and commonly used drugs in dental practice
- CO2-** Gain knowledge and ability to identify indications, contraindications, interactions, and adverse reactions of commonly used drugs in dental practice.
- CO3-** Know prescription and prescription errors.
- CO4-** Prescribe drug for common dental ailments as well to know the drugs used for medical emergencies and common ailments.
- CO5-** Evaluate pharmacy preparations and drug formulations, and comment on the labelled information
- CO6-** Analyze and interpret certain clinical problems and therapeutic exercises.
- CO7** - Able to be a part of pharmacovigilance



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KMCT

SL. NO	COURSE OUTCOME (CO)	KNOWLEDGE LEVEL (BLOOM'S LEVEL)
CO1	Should be able to explain the pharmacokinetics and pharmacodynamics of essential and commonly used drugs in dental practice.	L2
CO2	Gain knowledge and ability to identify indications, contraindications, interactions, and adverse reactions of commonly used drugs in dental practice.	L2
CO3	Know prescription and prescription errors.	L2
CO4	Prescribe drug for common dental ailments as well to know the drugs used for medical emergencies and common ailments.	L6
CO5	Evaluate pharmacy preparations and drug formulations, and comment on the labelled information.	L5
CO6	Analyze and interpret certain clinical problems and therapeutic exercises.	L4
CO7	Able to be a part of pharmacovigilance	L3



DR. BANDU KUMAR, BLP

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COURSE OUTCOME-PROGRAM OUTCOME MATRIX

SL.NO	COURSE OUTCOME	PO	PSO
CO1	Should be able to explain the pharmacokinetics and pharmacodynamics of essential and commonly used drugs in dental practice.	1,2,9	1,2,3
CO2	Gain knowledge and ability to identify indications, contraindications, interactions, and adverse reactions of commonly used drugs in dental practice.	1,2,3	1,2,3
CO3	Know prescription and prescription errors.	1,2,8	1,2,3
CO4	Prescribe drug for common dental ailments as well to know the drugs used for medical emergencies and common ailments.	1,2,3,9	1,2,3
CO5	Evaluate pharmacy preparations and drug formulations, and comment on the labelled information.	1,2,9	1,2,3
CO6	Analyze and interpret certain clinical problems and therapeutic exercises.	1,6,8,12	1,2,3
CO7	Able to be a part of pharmacovigilance	1,3	1,2,3



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CO	PROGRAM OUTCOME (PO)											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	1	-	-	-	-	-	-	1	-	-	-
CO2	3	3	2	1	-	2	-	1	2	-	-	1
CO3	3	3	-	-	-	-	-	1	-	-	-	-
CO4	3	3	1	-	-	-	-	1	2	-	-	-
CO5	3	1	-	-	-	-	-	1	1	-	-	-
CO6	3	2	-	-	-	-	-	2	2	-	-	1
CO7	1	1	3	-	-	-	-	1	-	-	-	-
AVG	2.7	2	0.8	0.1	-	0.28	-	1	1.1	-	-	0.28

COURSE OUTCOME-PROGRAM SPECIFIC OUTCOME MATRIX

CO	PROGRAM SPECIFIC OUTCOME		
	PSO1	PSO2	PSO3
CO 1-Should be able to explain the pharmacokinetics and pharmacodynamics of essential and commonly used drugs in dental practice.	3	1	3
CO2-Gain knowledge and ability to identify indications, contraindications, interactions, and adverse reactions of commonly used drugs in dental practice.	3	1	2
CO 3 - Know prescription and prescription errors.	3	1	1
CO 4 - Prescribe drug for common dental ailments as well to know the drugs used for medical emergencies and common ailments.	3	1	2
CO 5- Evaluate pharmacy preparations and drug formulations, and comment on the labelled information.	1	1	3
CO 6- Analyze and interpret certain clinical problems and therapeutic exercises.	2	1	1
CO 7-Able to be a part of pharmacovigilance	2	2	3
AVERAGE	2.7	1.1	2.8

INFERENCE: 1-LOW, 2-MEDIUM, 3-HIGH

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COMPUTATION OF COURSE OUTCOME PROGRAM OUTCOME

/PROGRAM SPECIFIC OUTCOME ATTAINMENT

COURSE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
PHARMACOL OGY	3	2	1	0	-	0	-	1	1	-	-	0	2	1	2
WEIGHTED AVERAGE	2.7	2	0.8	0.1	-	0.15	-	1	1.1	-	-	0.25	2.4	1.1	2.3

COURSE OUTCOME ATTAINMENT

ASSESSMENT PATTERN

ASSESSMENT TYPE	ASSESSMENT TOOL
DIRECT ATTAINMENT	FIRST INTERNAL EXAMINATION THEORY-70 PRACTICAL -80
	SECOND INTERNAL EXAMINATION THEORY-70 PRACTICAL -80
	THIRD INTERNAL EXAMINATION THEORY-70 PRACTICAL -80
	UNIVERSITY EXAMINATION THEORY-100 PRACTICAL -100
INDIRECT ATTAINMENT	END EXAM FEED BACK

DIRECT COURSE OUTCOME ATTAINMENT = 20% OF INTERNAL EXAMINATION (IE)
ATTAINMENT + 80% OF EXTERNAL EXAMINATION (EE) ATTAINMENT

OVERALL COURSE OUTCOME ATTAINMENT = 90% DIRECT COURSE OUTCOME ATTAINMENT
+ 10% OF INDIRECT ATTAINMENT

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ASSESSMENT TYPE	ASSESSMENT TOOL
DIRECT ATTAINMENT	FIRST INTERNAL EXAMINATION THEORY-70 PRACTICAL -80
	SECOND INTERNAL EXAMINATION THEORY-70 PRACTICAL -80
	THIRD INTERNAL EXAMINATION THEORY-70 PRACTICAL -80
	UNIVERSITY EXAMINATION THEORY-100 PRACTICAL -100
INDIRECT ATTAINMENT	END EXAM FEED BACK

DIRECT COURSE OUTCOME ATTAINMENT = 20% OF INTERNAL EXAMINATION (IE) ATTAINMENT + 80% OF EXTERNAL EXAMINATION (EE) ATTAINMENT.

OVERALL COURSE OUTCOME ATTAINMENT = 90% DIRECT COURSE OUTCOME ATTAINMENT + 10% OF INDIRECT ATTAINMENT



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CO ATTAINMENT TARGET LEVELS

ASSESSMENT METHODS	ATTAINMENT LEVEL	
UNIVERSITY EXAMINATIONS	THRESHOLD VALUE FOR THEORY (70) + VIVA VOCE (20) + INTERNAL ASSESSMENT (10). THRESHOLD VALUE IS 50%. i.e. $0.5 \times (70+20+10) = 50$	
	LEVEL 1	50% OF STUDENTS SCORING MORE THAN 50 MARKS IN THEORY AND PRACTICAL
	LEVEL 2	60% OF STUDENTS SCORING MORE THAN 50 MARKS IN THEORY AND PRACTICAL
	LEVEL 3	70% OF STUDENTS SCORING MORE THAN 50 MARKS IN THEORY AND PRACTICAL

COMPUTATION OF CO DIRECT ATTAINMENT

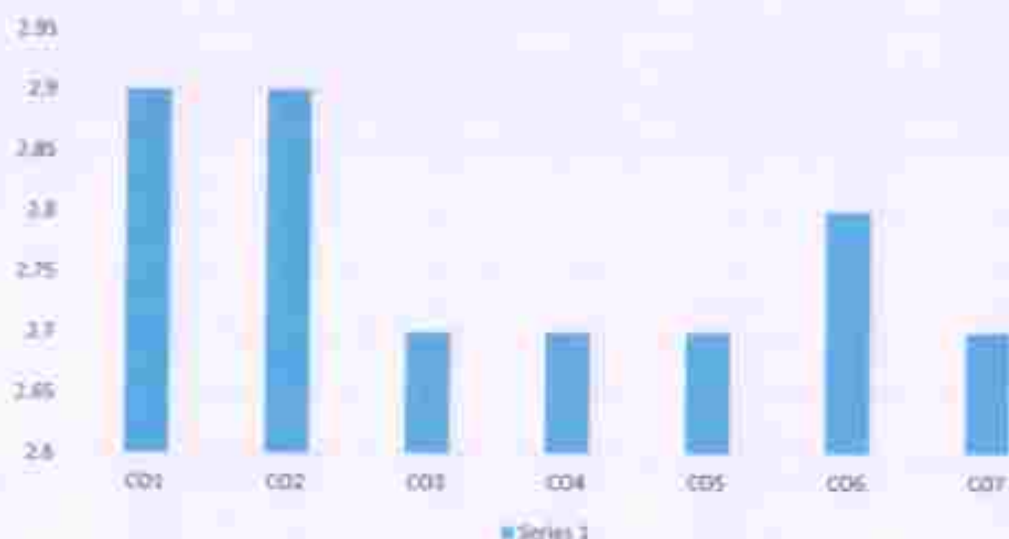
COs	Assessment tool (internal examination /external examination)	Internal examination (IE)		EXTERNAL EXAMINATION (EE)	DIRECT CO ATTAINMENT = $[0.2 \times \text{IE ATTAINMENT LEVEL}] + [0.8 \times \text{EE ATTAINMENT LEVEL}]$
		ATTAINMENT LEVEL	AVERAGE ATTAINMENT LEVEL	ATTAINMENT LEVEL	
CO1	THEORY & PRACTICAL	2.6	2.6	3	2.9
CO2	THEORY & PRACTICAL	2.34	2.34	3	2.9
CO3	THEORY & PRACTICAL	1.69	1.69	3	2.7
CO4	THEORY & PRACTICAL	2.31	2.31	3	2.7
CO5	THEORY & PRACTICAL	2.1	2.1	3	2.7
CO6	THEORY & PRACTICAL	2.3	2.3	3	2.8
CO7	THEORY & PRACTICAL	1.7	1.7	3	2.7



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Series 1



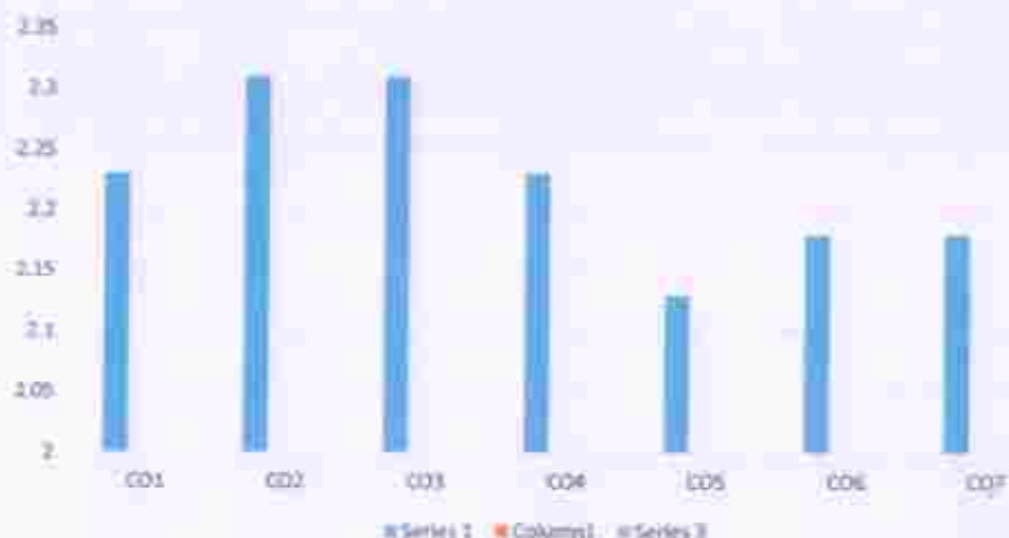
COMPUTATION OF CO INDIRECT ATTAINMENT IN THE COURSE

Attainment of Co PHARMACOLOGY = (Level-1 X No of Students Attempted) + (Level-2x No of Students Attempted) + (Level-3 X No of Students Attempted)/Total No of Students

COMPUTATION OF CO INDIRECT ATTAINMENT IN THE COURSE							
COS	CO1	CO2	CO3	CO4	CO5	CO6	CO7
Students Answered Level -1	13	12	10	14	16	15	11
Students Answered Level -2	20	18	21	18	20	19	21
Students Answered Level -3	27	30	29	28	24	26	28
TOTAL STUDENTS PARTICIPATED	60	60	60	60	60	60	
CI	7.11	7.41	7.11	7.31	7.21	7.41	7.31
Attainment (%)							

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Chart Title



COMPUTATION OF CO INDIRECT ATTAINMENT COMPUTATION OF

COURSE OUTCOME OVERALL ATTAINMENT

CO	DIRECT ATTAINMENT (DA)	CO LEVEL	INDIRECT ATTAINMENT (IDA)	CO LEVEL	OVERALL ATTAINMENT $0.9 \times DA + 0.1 \times IDA$	CO LEVEL
CO1	2.9		2.23		2.83	
CO2	2.9		2.31		2.84	
CO3	2.7		2.31		2.66	
CO4	2.7		2.23		2.65	
CO5	2.7		2.13		2.64	
CO6	2.8		2.18		2.73	
CO7	2.7		2.28		2.65	
AVERAGE CO ATTAINMENT					2.71	

COURSE OUTCOME CORRECTIVE MEASURES FOR NEXT ACADEMIC YEAR

CO	ATTAINMENT	ACTION PLAN
CO4	2.65	RAPID REVISION MORE PRACTICAL SKILLS
CO5	2.64	CLASS TEST MORE LABORATORY TRAINING
CO7	2.65	MORE CLINICAL EXPOSURE



PO\PSO ASSESSMENT PROCESS

ASSESSMENT TOOLS: UNIVERSITY

EXAMINATION ASSESSMENT

FREQUENCY: ONCE A YEAR ASSESSED

BY: SUBJECT EXPERT

REVIEWED

BY: HOD

METHOD:

DIRECT

COURSE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
PHARMACOLOGY	3	2	1	0	-	0	-	1	1	-	-	0
WEIGHTED AVERAGE	2.7	2	0.8	0.1	-	0.28	-	1	1.1	-	-	0.28

$PO = (\text{WEIGHTED AVERAGE VALUE OF PO} \times \text{CO ATTAINMENT AVERAGE})/3$

PO	ATTAINMENT LEVEL
PO1	$2.7 \times 2.71/3 = 2.43$
PO2	$2 \times 2.71/3 = 1.8$
PO3	$0.8 \times 2.71/3 = 0.72$
PO4	$0.1 \times 2.71/3 = 0.09$
PO6	$0.28 \times 2.71/3 = 0.25$
PO8	$1 \times 2.71/3 = 0.90$
PO9	$1.1 \times 2.71/3 = 0.99$
PO12	$0.28 \times 2.71/3 = 0.25$

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RESULT OF PO ATTAINMENT

COURSE	PO1	PO2	PO3	PO4	PO5	PO6	PO9	PO12
PHARMACOLOG Y	2.7	2	0.8	0.1	0.28	1	1.1	0.28
ATTAINMENT	2.43	1.8	0.72	0.09	0.25	0.90	0.99	0.25

PROGRAM OUTCOME CORRECTIVE MEASURES

PO	ATTAINMENT	ACTION PLAN
PO3	1.9	MORE CAMPS AND HOSPITAL VISIT
PO4	1	EMPHASIS ON RESEARCH ACTIVITIES MORE CLINICAL EXPOSURE
PO6	1	TRAINING IN STERILIZATION PROTOCOLS. AWARENESS CLASSES FOR CROSS INFECTION
PO12	0.75	INTERDISCIPLINARY APPROACH WITH RADIOLOGY DEPARTMENT



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PSO's ATTAINMENT RESULTS

PSO=weighted average value of PSO*CO attainment

average/3^{PSO} mapping

COURSE	PSO1	PSO2	PSO3
PEDO	2	1	2
WEIGHTED AVERAGE	2.4	1.1	2.1

PSO ATTAINMENT COMPUTATION

PSO	ATTAINMENT LEVEL
PSO1	$2.4 * 2.71 / 3 = 2.16$
PSO2	$1.1 * 2.71 / 3 = 0.99$
PSO3	$2.1 * 2.71 / 3 = 1.89$

PSO ATTAINMENT LEVELS

COURSE	PSO1	PSO2	PSO3
PHARMACOLOGY	2.4	1.1	2.1
ATTAINMENT	2.16	0.99	1.89

PSO'S CORRECTIVE MEASURES

PSO	ATTAINMENT	ACTION PLAN
PSO2	0.99	INCLUDE MORE INNOVATIVE TEACHING METHODS SEMINARS AND PROJECTS
PSO3	1.89	MORE LABORATORY VISITS AND HANDS ON LEARNING EXPERIENCE

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Programme outcome BDS

COURSE: PERIODONTOLOGY 2022-2023

PROGRAMME OUTCOME

- PO1** - Integration of basic sciences, clinical dental surgery and practical and laboratory skills
- PO2** - Sufficient practical skill including patient management skill for treatment of patients of all ages with special reference to pediatric, geriatric and medically compromised and disabled patient
- PO3** - Sociological aspects of health care particularly oral health care including the reasons for the variation in oral and dental needs of the society.
- PO4** - Motivation for interdisciplinary research activities and emphasis on evidence based dentistry
- PO5** - Participation in Continual Dental Educational programs to update knowledge and skills
- PO6** - Learns significance of infection and cross infection control in dental practice
- PO7** - To learn the importance of various dental tissues in forensic sciences.
- PO8** - Attends dental hospital and general hospital postings, community camps
- PO9** - Administer all forms of local anesthesia knowledge of various maxillofacial problems like injuries, infections and deformities of the jaw.
- PO10** - Restoration of various kinds and endodontic procedures, removable and fixed prosthodontics.
- PO11** - Appreciate the role of dentofacial growth and development of malocclusion.
- PO12** - Train in various radiological techniques and its interpretations.

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KMCT
DENTAL COLLEGE

PROGRAM SPECIFIC OUTCOME (PSO)

PSO1 – Application of recent advances in periodontal diagnostic aids.

PSO 2 – Knowledge about basic periodontal therapy using lasers.

PSO 3 – Effectively treating patients using implants.



DR. MANOJ KUMAR JCP

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INDICATORS AND
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COURSE OUTCOME

On completion of the undergraduate training programme the graduate will:

CO1- Be able to diagnose the patient's periodontal problem, plan and perform appropriate periodontal treatment.

CO2 - Be Competent to educate and motivate the patient.

CO3 - Be Competent to perform thorough oral prophylaxis, subgingival scaling, root planning and minor periodontal surgical procedures.

CO4 - Give proper post treatment instructions and do periodic recall and evaluation.

CO5 - Be Familiar with concepts of osseointegration and basic surgical aspects of implantology.

S NO	COURSE OUTCOME (CO)	KNOWLEDGE LEVEL (BLOOMS LEVEL)
CO-1	Be able to diagnose the patient's periodontal problem, plan and perform appropriate periodontal treatment .	L3
CO-2	Be competent to educate and motivate the patient.	L3
CO-3	Be competent to perform thorough oral prophylaxis, subgingival scaling, root planning and minor periodontal surgical procedures.	L3
CO-4	Give proper post treatment instructions and do periodic recall and evaluation .	L5
CO-5	Be familiar with concepts of osseointegration and basic surgical aspects of implantology.	L2

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COURSE OUTCOME-PROGRAM OUTCOME MATRIX

SL NO	COURSE OUTCOME	PO	PSO
CO-1	Be able to diagnose the patient's periodontal problem, plan and perform appropriate periodontal treatment.	1,2,9,12	1,2,3
CO-2	Be competent to educate and motivate the patient.	1,2,3,4,5,8,12	1,2,3
CO-3	Be competent to perform thorough oral prophylaxis, subgingival scaling, root planning and minor periodontal surgical procedures.	1,2,3,5,6,8,9,12	1,2,3
CO-4	Give proper post treatment instructions and do periodic recall and evaluation .	1,2,8,11,12	1,2,3
CO-5	Be familiar with concepts of osseointegration and basic surgical aspects of implantology.	1,2,5,6,9,11,12	1,2,3

PROGRAM OUTCOME MATRIX

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CO	PROGRAM OUTCOME (PO)											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1	3	-	-	-	-	-	-	3	-	-	3
CO2	1	2	2	1	2	-	-	1	-	-	-	1
CO3	3	3	1	-	2	2	-	2	2	-	-	2
CO4	1	2	-	-	-	-	-	1	-	-	1	1
CO5	1	1	-	-	3	2	-	-	3	-	1	3
AVG	1.4	2.2	0.6	0.2	1.4	0.8	0	0.8	1.6	0	0.4	2



Dr. Manoj Kumar

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REGISTRATION AND
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DEPARTMENT



MINISTRY OF
HIGHER
EDUCATION



COURSE OUTCOME – PROGRAM SPECIFIC OUTCOME MARTIX

CO	PROGRAM SPECIFIC OUTCOME		
	PSO1	PSO2	PSO3
CO1- Be able to diagnose the patient's periodontal problem, plan and perform appropriate periodontal treatment	2	2	1
CO2- Be competent to educate and motivate the patient.	2	1	1
CO3 -Be competent to perform thorough oral prophylaxis, subgingival scaling, root planning and minor periodontal surgical procedures.	1	2	1
CO4 - Give proper post treatment instructions and do periodic recall and evaluation .	1	1	1
CO5- Be familiar with concepts of osseointegration and basic surgical aspects of implantology.	2	1	3
AVERAGE	1.6	1.4	1.4

INFERENCE : 1- LOW, 2- MEDIUM, 3-HIGH



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COMPUTATION OF COURSE OUTCOME-PROGRAM OUTCOME/ PROGRAM SPECIFIC OUTCOME ATTAINMENT

COURSE	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
PERIODONTOLOGY	1	2	1	0	1	1	0	1	2	0	0	2	2	1	1
WEIGHTED AVERAGE	1.4	2.2	0.6	0.2	1.4	0.8	0	0.8	1.6	0	0.4	2	1.6	1.4	1.4



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COURSE OUTCOME ATTAINMENT

ASSESSMENT PATTERN

ASSESSMENT TYPE	ASSESSMENT TOOL
DIRECT ATTAINMENT	FIRST INTERNAL EXAMINATION THEORY-70 PRACTICAL -80
	SECOND INTERNAL EXAMINATION THEORY-70 PRACTICAL -80
	THIRD INTERNAL EXAMINATION THEORY-70 PRACTICAL -80
	UNIVERSITY EXAMINATION THEORY-100 PRACTICAL -100
INDIRECT ATTAINMENT	END EXAM FEED BACK

DIRECT COURSE OUTCOME ATTAINMENT = 20% OF INTERNAL EXAMINATION
(IE)ATTAINMENT + 80% OF EXTERNAL EXAMINATION (EE) ATTAINMENT.

OVERALL COURSE OUTCOME ATTAINMENT = 90% DIRECT COURSE OUTCOME
ATTAINMENT + 10% OF INDIRECT ATTAINMENT

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CO ATTAINMENT TARGET LEVELS

ASSESSMENT METHODS	ATTAINMENT LEVEL	
UNIVERSITY EXAMINATIONS	THRESHOLD VALUE FOR THEORY (70) + VIVA VOCE (20) + INTERNAL ASSESSMENT (10), THRESHOLD VALUE IS 50%. i.e. $0.5 \times (70 + 20 + 10) = 50$	
	LEVEL 1	50% OF STUDENTS SCORING MORE THAN 50 MARKS IN THEORY AND PRACTICAL
	LEVEL 2	60% OF STUDENTS SCORING MORE THAN 50 MARKS IN THEORY AND PRACTICAL
	LEVEL 3	70% OF STUDENTS SCORING MORE THAN 50 MARKS IN THEORY AND PRACTICAL



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COMPUTATION OF CO DIRECT ATTAINMENT

COs	Assessment tool (internal examination /external examination)	Internal examination (IE)		EXTERNAL EXAMINATION(EE)	DIRECT CO ATTAINMENT = $(0.2 \times \text{IE ATTAINMENT LEVEL}) + (0.8 \times \text{E ATTAINMENT LEVEL})$
		ATTAINMENT LEVEL	AVERAGE ATTAINMENT LEVEL	ATTAINMENT LEVEL	
CO1	THEORY & PRACTICAL	2.6	2.6	3	2.9
CO2	THEORY& PRACTICAL	2.5	2.5	3	2.9
CO3	THEORY& PRACTICAL	2.4	2.4	3	2.8
CO4	THEORY& PRACTICAL	2.0	2.0	3	2.8
CO5	THEORY& PRACTICAL	1.5	1.5	3	2.7



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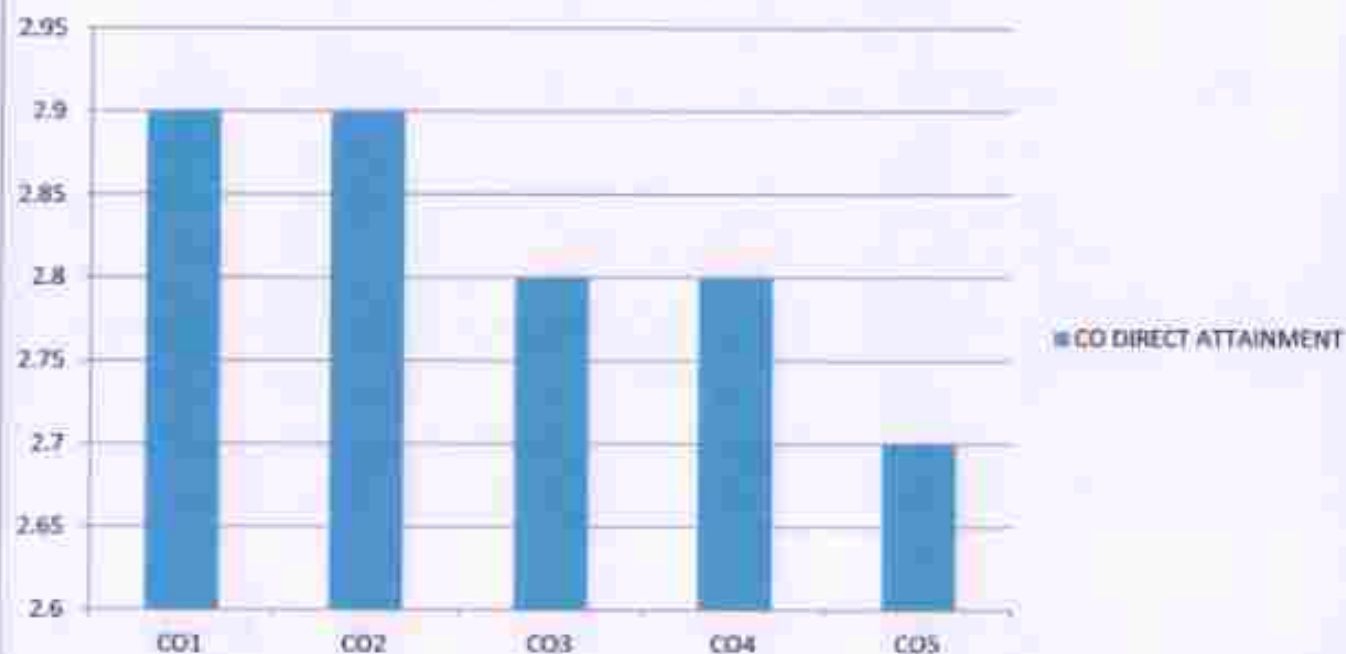
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COURSE OUTCOME DIRECT ATTAINMENT

CO DIRECT ATTAINMENT



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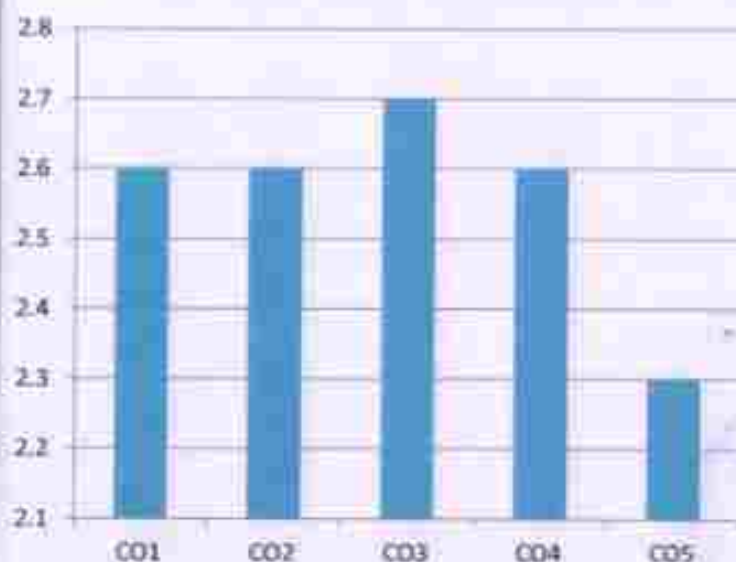


COMPUTATION OF CO INDIRECT ATTAINMENT IN THE COURSE:

Attainment of Co Pediatric and Preventive Dentistry= (Level-1 X No of Students Attempted) + (Level-2x No of Students Attempted) + (Level-3 X No of Students Attempted)/Total No of Students

COs	CO1	CO2	CO3	CO4	CO5
Students Answered Level -1	4	3	4	5	9
Students Answered Level -2	11	14	10	11	15
Students Answered Level -3	39	37	40	38	30
TOTAL STUDENTS PARTICIPATED	54	54	54	54	54
CO Indirect Attainment Level	2.6	2.6	2.7	2.6	2.3

CO INDIRECT ATTAINMENT IN THE COURSE



CO INDIRECT ATTAINMENT IN THE COURSE

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COMPUTATION OF CO INDIRECT ATTAINMENT COMPUTATION

OF COURSE OUTCOME OVERALL ATTAINMENT

CO	DIRECT ATTAINMENT (DA)	CO LEVEL	INDIRECT ATTAINMENT (IDA)	CO LEVEL	OVERALL ATTAINMENT $0.9 \times DA + 0.1 \times IDA$	CO LEVEL
CO1	2.9		2.6		2.9	
CO2	2.9		2.6		2.9	
CO3	2.8		2.7		2.7	
CO4	2.8		2.6		2.8	
CO5	2.7		2.3		2.6	
AVERAGE CO ATTAINMENT					2.78	

COURSE OUTCOME CORRECTIVE MEASURES FOR NEXT ACADEMIC YEAR

CO	ATTAINMENT	ACTION PLAN
CO3	2.7	More experiential learning to be included
CO5	2.6	IMPLANT VALUE ADDED COURSE



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MINISTRY OF
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PO\PSO ASSESMENT PROCESS

ASSESMENT TOOLS: UNIVERSITY EXAMINATION

ASSESMENT FREQUENCY: ONCE A YEAR

ASSESSED BY: SUBJECT EXPERT

REVIEWED BY: HOD

METHOD: DIRECT

COURSE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
PERIODONTOLOGY	1	2	1	0	1	1	0	1	2	0	0	2
WEIGHTED AVERAGE	1.4	2.2	0.6	0.2	1.4	0.8	0	0.8	1.6	0	0.4	2

PO= (WEIGHTED AVERAGE VALUE OF PD X CO ATAINMENT AVERAGE)/3

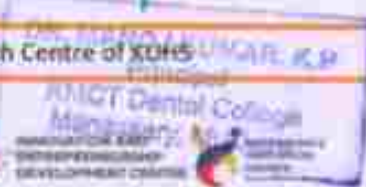
PO	ATTAINMENT LEVEL
PO1	$1.4 \times 2.78 / 3 = 1.3$
PO2	$2.2 \times 2.78 / 3 = 2.1$
PO3	$0.6 \times 2.78 / 3 = 0.6$
PO5	$1.4 \times 2.78 / 3 = 1.3$
PO6	$0.8 \times 2.78 / 3 = 0.7$
PO8	$0.8 \times 2.78 / 3 = 0.7$
PO9	$1.6 \times 2.78 / 3 = 1.5$
PO12	$2 \times 2.78 / 3 = 1.8$

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RESULT OF PO ATTAINMENT

COURSE	PO1	PO2	PO3	PO5	PO6	PO8	PO9	PO12
PERIO	1.4	2.2	0.6	1.4	0.8	0.8	1.6	2
ATTAINMENT	1.3	2.1	0.6	1.3	0.7	0.7	1.5	1.8



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PROGRAM OUTCOME CORRECTIVE MEASURES

PO	ATTAINMENT	ACTION PLAN
PO12	1.8	MORE EXPOSURE TO ADVANCED RADIOLOGICAL TECHNIQUES

PSO's ATTAINMENT RESULTS

PSO=weighted average value of PSO*CO attainment average/3

PSO mapping

COURSE	PSO1	PSO2	PSO3
PERIO	2	1	1
WEIGHTED AVERAGE	1.6	1.4	1.4

PSO ATTAINMENT COMPUTATION

PSO	ATTAINMENT LEVEL
PSO1	$1.6 \times 2.78 / 3 = 1.48$
PSO2	$1.4 \times 2.78 / 3 = 1.29$
PSO3	$1.4 \times 2.78 / 3 = 1.29$

PSO ATTAINMENT LEVELS

COURSE	PSO1	PSO2	PSO3
PERIO	1.6	1.4	1.4
ATTAINMENT	1.5	1.29	1.29



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PSO'S CORRECTIVE MEASURES

PSO	ATTAINMENT	ACTION PLAN
PSO2	1.29	INCOPERATE BLENDED LEARNING
PSO3	1.29	INCOPERATE BLENDED LEARNING




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2. PROGRAM SPECIFIC OUTCOME (PSO):

PSO1 : Planning a comprehensive dental treatment protocol according to the medical status of the patient.

PSO2 : Training the students to identify oral manifestations of systemic diseases.

PSO3 : Incorporating recent advances in imaging in the curriculum for the students.

3. COURSE OUTCOME (CO):

CO1 : Be able to identify the common dental problems like dental caries and periodontal disease and their sequelae.

CO2 : Be able to differentiate normal variations and oral mucosal lesions

CO3 : Be able to identify precancerous and cancerous lesions of the oral cavity and refer to the concerned speciality.

CO4 : Knowledge about the laboratory investigations and interpretations of the result.

CO5 : Adequate knowledge about the medical complications that can arise while treating systemically compromised patients and take prior precautions.

CO6 : To formulate a clinical diagnosis, order investigations and seek expert consultations to come to a final diagnosis and chart out proper treatment.

CO7 : Be competent to take intra oral radiographs and interpret radiographic finding.

CO8 : Gain adequate knowledge of various extra oral radiographic procedures.



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Sl No	Course Outcome	KNOWLEDGE LEVEL (BLOOMS LEVEL)
CO1	Be able to identify the common dental problems like dental caries and periodontal disease and their sequelae.	L3
CO2	Be able to differentiate normal variations and oral mucosal lesions	L5
CO3	Be able to identify precancerous and cancerous lesions of the oral cavity and refer to the concerned speciality.	L3
CO4	Knowledge about the laboratory investigations and interpretations of the result.	L4
CO5	Adequate knowledge about the medical complications that can arise while treating systemically compromised patients and take prior precautions.	L3
CO6	To formulate a clinical diagnosis, order investigations and seek expert consultations to come to a final diagnosis and chart out proper treatment.	L3
CO7	Be competent to take intra oral radiographs and interpret radiographic finding.	L3
CO8	Gain adequate knowledge of various extra oral radiographic procedures.	L3



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Sl No	Course Outcome	PO	PSO
CO1	Be able to identify the common dental problems like dental caries and periodontal disease and their sequelae.	1,2,5,6,8	1,2,3
CO2	Be able to differentiate normal variations and oral mucosal lesions	1,2,3,4,5,6,8	1,2,3
CO3	Be able to identify precancerous and cancerous lesions of the oral cavity and refer to the concerned speciality.	1,2,3,4,5,6,8	1,2,3
CO4	Knowledge about the laboratory investigations and interpretations of the result.	1,2,7,11,12	1,2,3
CO5	Adequate knowledge about the medical complications that can arise while treating systemically compromised patients and take prior precautions.	1,2,3,4,5,6,8	1,2,3
CO6	To formulate a clinical diagnosis, order investigations and seek expert consultations to come to a final diagnosis and chart out proper treatment.	1,2,3,5,6,8,11,12	1,2,3
CO7	Be competent to take intra oral radiographs and interpret radiographic finding.	1,3,5,6,7,11,12	1,2,3
CO8	Gain adequate knowledge of various extra oral radiographic procedures.	1,2,5,6,7,11,12	1,2,3



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CO	PROGRAM OUTCOME (PO)											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	2	-	-	2	2	-	1	-	-	-	-
CO2	2	2	2	1	2	1	-	2	-	-	-	-
CO3	1	1	1	2	2	2	-	2	-	-	-	-
CO4	2	2	-	-	-	-	2	-	-	-	2	3
CO5	1	1	2	2	2	1	-	2	-	-	-	-
CO6	2	2	2	-	2	2	-	2	-	-	2	2
CO7	2	-	2	-	2	2	2	-	-	-	2	3
CO8	2	1	-	-	1	1	2	-	-	-	2	3
AVG	1.75	1.25	1.125	0.625	1.625	1.325	0.75	1.125	-	-	1.00	1.25

CO	PROGRAM SPECIFIC OUTCOME (PSO)		
	PSO 1	PSO 2	PSO 3
CO1: Be able to identify the common dental problems like dental caries and periodontal disease and their sequelae.	3	2	1
CO2: Be able to differentiate normal variations and oral mucosal lesions	3	2	1
CO3: Be able to identify precancerous and cancerous lesions of the oral cavity and refer to the concerned speciality.	2	2	1
CO4: Knowledge about the laboratory investigations and interpretations of the result.	2	2	2
CO5: Adequate knowledge about the medical complications that can arise while treating systemically compromised patients and take prior precautions.	3	2	1
CO6: To formulate a clinical diagnosis, order investigations and seek expert consultations to come to a final diagnosis and chart out proper treatment.	3	2	3
CO7: Be competent to take intra oral radiographs and interpret radiographic finding.	1	1	3
CO8: Gain adequate knowledge of various extra oral radiographic procedures.	1	1	3
Avg	2.25	1.75	1.875

COMPUTATION OF CO – PO / PSO ATTAINMENT

COURSE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO13
Oral Medicine and Radiology	2	1	1	1	2	1	1	1	0	0	1	1	2	2	2
Weighted Average	1.75	1.25	1.125	0.625	1.625	1.325	0.75	1.125	0	0	1.00	1.25	2.25	1.75	1.875

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COURSE OUTCOME ATTAINMENT

ASSESSMENT PATTERN

ASSESSMENT TYPE	ASSESSMENT TOOL
DIRECT ATTAINMENT	FIRST INTERNAL EXAM Theory : 70 Clinical : 80
	SECOND INTERNAL EXAM Theory : 70 Clinical : 80
	THIRD INTERNAL EXAM Theory : 70 Clinical : 80
INDIRECT ATTAINMENT	END EXAM FEEDBACK

DIRECT COURSE OUTCOME ATTAINMENT: 20 % of INTERNAL EXAMINATION (IE) ATTAINMENT + 80 % of EXTERNAL EXAMINATION (EE) ATTAINMENT

CO ATTAINMENT TARGET LEVELS

ASSESSMENT METHODS	ATTAINMENT LEVEL
UNIVERSITY EXAMINATIONS	Threshold value for Theory (70) + Viva Voice (20) + Internal Assessment (10). Threshold value is 50 %
	Level 1 50 % of Students scoring more than 50 Marks in Theory and Clinical
	Level 2 60 % of Students scoring more than 50 Marks in Theory and Clinical
	Level 3 70 % of Students scoring more than 50 Marks in Theory and Clinical



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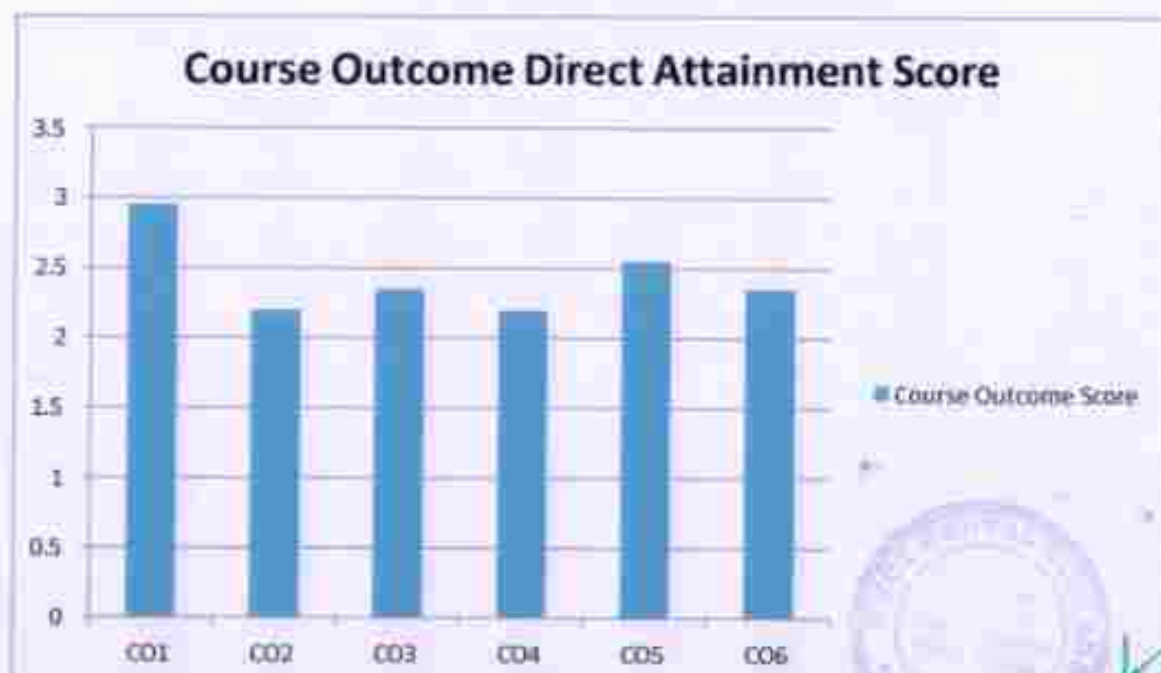




COMPUTATION OF CO DIRECT ATTAINMENT

COs	Assessment Tool (Internal examination / External examination)	Internal Examination		External Examination Attainment Level	Direct CO Attainment = (0.2 x IE Attainment Level) + (0.8 x EE Attainment Level)
		Attainment Level	Average Attainment Level		
CO1	Theory & Clinical	2.25	2.25	2.50	2.95
CO2	Theory & Clinical	2.5	2.5	2.75	2.20
CO3	Theory & Clinical	1.75	1.75	2.50	2.35
CO4	Theory & Clinical	2.00	2.00	2.25	2.20
CO5	Theory & Clinical	1.25	1.25	2.75	2.55
CO6	Theory & Clinical	1.75	1.75	2.50	2.35
CO7	Theory & Clinical	2.25	2.25	2.75	2.65
CO8	Theory & Clinical	1.75	1.75	2.75	2.55

COURSE OUTCOME DIRECT ATTAINMENT



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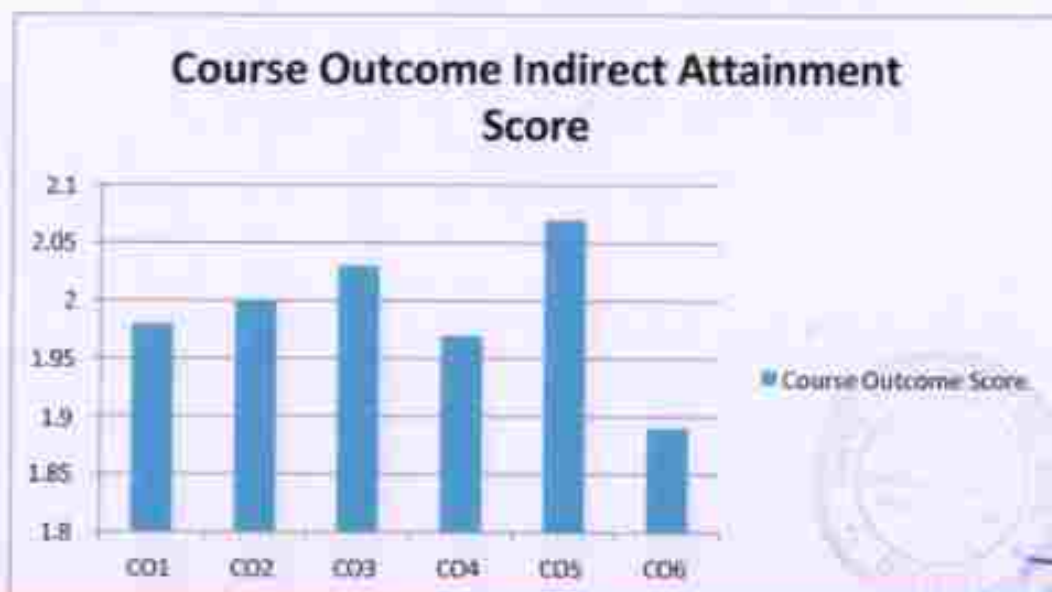


COMPUTATION OF CO INDIRECT ATTAINMENT IN THE COURSE

CO Indirect Attainment = (Level 1 x No. of students attempted) + (Level 2 x No of students attempted) + (Level 3 x No of students attempted) / Total No of Students

COMPUTATION OF CO INDIRECT ATTAINMENT IN THE COURSE								
CDS	CO1	CO2	CO3	CO4	CO5	CO6	CO7	CO8
Students Answered Level -1	20	18	18	21	16	24	20	18
Students Answered Level -2	19	22	20	18	22	16	18	20
Students Answered Level-3	19	18	20	19	20	18	20	20
Total Students Participated	58	58	58	58	58	58	58	58
Co Attainment Level	1.98	2	2.03	1.97	2.07	1.89	2	2.03

COURSE OUTCOME INDIRECT ATTAINMENT



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COMPUTATION OF CO INDIRECT ATTAINMENT

COMPUTATION OF CO OVERALL ATTAINMENT

COs	DIRECT CO ATTAINMENT LEVEL (DA)	INDIRECT CO ATTAINMENT LEVEL (IDA)	OVERALL CO ATTAINMENT LEVEL = $0.9 \times DA + 0.1 \times IDA$
CO1	2.95	1.98	2.85
CO2	2.20	2.00	2.00
CO3	2.35	2.03	2.14
CO4	2.20	1.97	2.18
CO5	2.55	2.07	2.32
CO6	2.35	1.89	2.30
CO7	2.65	2.00	2.59
CO8	2.55	2.03	2.50
AVG CO OVERALL ATTAINMENT			2.32

COURSE OUTCOME CORRECTIVE MEASURES FOR NEXT ACADEMIC YEAR

Cos	ATTAINMENT	ACTION PLAN
CO2	2.00	Revision tests
CO3	2.14	Viva sessions
CO4	2.18	Problem based learning
CO6	2.30	Case Discussions



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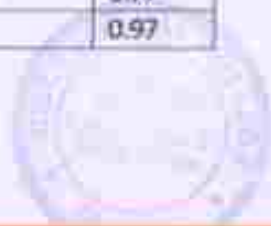
PROGRAM OUTCOME / PROGRAM OUTCOME ASSESSMENT PROCESS

Assessment Tools	:	University Examination
Assessment Frequency	:	Once a year
Assessed by	:	Subject Expert
Reviewed by	:	HOD
Method	:	Direct

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Oral Medicine and Radiology	2	2	1	1	2	1	1	1	0	0	1	1
Weighted Average	1.75	1.25	1.125	0.625	1.625	1.325	0.75	1.125	-	-	1.00	1.25

PO = Weighted Avg value of PO x CO Attainment Avg / 3

PO	Attainment Level	Score
PO1	$1.75 \times 2.32 / 3$	1.35
PO2	$1.25 \times 2.32 / 3$	0.97
PO3	$1.125 \times 2.32 / 3$	0.87
PO4	$0.625 \times 2.32 / 3$	0.48
PO5	$1.625 \times 2.32 / 3$	1.26
PO6	$1.325 \times 2.32 / 3$	1.03
PO7	$0.75 \times 2.32 / 3$	0.58
PO8	$1.125 \times 2.32 / 3$	0.87
PO11	$1.00 \times 2.32 / 3$	0.77
PO12	$1.25 \times 2.32 / 3$	0.97



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RESULT OF PO ATTAINMENT

COURSE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO11	PO12
Oral Medicine and Radiology	1.75	1.25	1.125	0.625	1.625	1.325	0.75	1.125	1.00	1.25
Attainment	1.35	0.97	0.87	0.48	1.26	1.03	0.58	0.87	0.77	0.97

PROGRAM OUTCOME CORRECTIVE MEASURES FOR NEXT ACADEMIC YEAR

COs	ATTAINMENT	ACTION PLAN
PO1	1.35	Viva
PO2	0.97	Mock clinical exams
PO3	0.87	Topic wise discussions
PO5	1.26	Model Exams
PO6	1.03	Case Discussions
PO7	0.58	Problem Based Learning
PO8	0.87	Revision sessions
PO11	0.77	Radiographic exercises
PO12	0.97	Discussion on Radiographic Interpretations



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PSO ATTAINMENT RESULTS

PSO MAPPING

COURSE	PSO1	PSO2	PSO3
Oral Medicine and Radiology	2	2	2
Weighted Average	2.25	1.75	1.875

PSO Attainment Computation

PSO = Weighted Avg Value of PSO x CO attainment average / 3

PSO	Attainment Level	Score
PSO1	$2.25 \times 2.32 / 3$	1.74
PSO2	$1.75 \times 2.32 / 3$	1.35
PSO3	$1.87 \times 2.32 / 3$	1.45

PSO ATTAINMENT LEVELS

Course	PSO1	PSO2	PSO3
Oral Medicine and Radiology	2.25	1.75	1.87
Attainment	1.74	1.35	1.45

PSO CORRECTIVE MEASURES FOR NEXT ACADEMIC YEAR

PSO	Attainment	Action Plan
PSO1	1.74	Case Scenario Discussions
PSO2	1.35	Periodic Viva and Clinical Discussions
PSO3	1.45	Radiographic Interpretation discussion

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