



2.6.3 Program specific learning outcomes



Vinod
5/12/14
Prof. Dr. Vinod Kumar R B
Principal
Al-Azhar Dental College
Thodupuzha - 685 605



2.6.3 The teaching learning and assessment processes of the Institution are aligned with the stated learning outcomes.

INDEX SHEET

SL.NO	DESCRIPTION	PAGE
1.	Certificate of the Head of Institution	02 -03
2.	Program-specific learning outcomes	04 - 17



V. K. R B
6/12/24

Prof. Dr. Vinod Kumar R B
Principal
Al-Azhar Dental College
Thodupuzha - 685 605



AL-AZHAR DENTAL COLLEGE

Perumpillichira P. O., Thodupuzha
Idukki Dist., Kerala- 685 605
☎ +91 94977 20069 | +91 94463 91111

CERTIFICATE FROM THE HEAD OF THE INSTITUTION



Net
8/12/14

Prof. Dr. Vinod Kumar R B
Principal
Al-Azhar Dental College
Thodupuzha - 685 605



AL-AZHAR DENTAL COLLEGE

Perumpillichira P. O., Thodupuzha
Idukki Dist., Kerala- 685 605
☎ +91 94977 20069 | +91 94463 91111

DR. VINOD KUMAR R B M.D.S.

PRINCIPAL

TO WHOMSOEVER IT MAY CONCERN

This is to certify that, the teaching learning, and assessment processes of the Institution are aligned with the stated learning outcomes



Vinod
6/12/24
Prof. Dr. Vinod Kumar R B
Principal
Al-Azhar Dental College
Thodupuzha - 685 605



Program outcome for BDS course

Sl no	Program outcome
1	Integration of basic sciences, clinical dentistry and practical and laboratory skills
2	A knowledge of normal human structure, development, function and disease process
3	Sufficient practical skill including patient management and treatment of patients of all ages with special reference to pediatric, geriatric, medically compromised and disabled patient
4	Commitment towards society as a whole along with knowledge and treatment skills gained
5	Motivated for interdisciplinary research activities and emphasis on evidence-based dentistry
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	Administer all forms of Local anesthesia, knowledge of various maxillofacial problems like injuries, infections and deformities of the jaw
9	Restoration of various kinds and endodontic procedures, removable and fixed prosthodontics
10	Appreciate the role of dentofacial growth and development of malocclusion
11	Train in various investigation procedures like radiological techniques, biopsy, smear etc and its interpretations
12	Legal systems involved in practice of dentistry and patient rights
13	Should be aware of the limitations on graduate



K. J. L.
Prof. Dr. Vinod Kumar R B
Principal
Al-Azhar Dental College
Thodupuzha - 685 605

DEPARTMENT OF ORAL & MAXILLOFACIAL SURGERY

COURSE OUTCOMES

On completion of the undergraduate training program the graduate should:

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 problem, have a broad knowledge of maxillofacial surgery and oral Implantology.
3. Be familiar with legal, ethical and moral issues pertaining to patient care and communication skills.
4. Have acquired the skill to examine any patient with an oral surgical problem in an orderly manner.
5. Understand and practice the basic principles of asepsis and sterilization.
6. Be competent in the extraction of the teeth under local anesthesia.
7. Be Competent to carry out certain minor oral surgical procedures under local Anesthesia like trans-alveolar extraction, frenectomy, Dentoalveolar procedures, simple impaction, biopsy, etc.
8. Be Competent to assess, prevent and manage common complications that arise during and after minor oral surgery.
9. Able to provide primary care and manage medical emergencies in the dental office.
10. Be familiar with the management of major oral surgical problems and principles involved in the in-patient management.
11. Be able to Certify Death



11/12/24
6/12/24
Prof. Dr. Vinod Kumar R B
Principal
Al-Azhar Dental College
Thodupuzha - 685 605

PO CO MAPPING OF OMFS DEPARTMENT

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13
CO1	3	1	2	2	2	1	1	3	1	1	1	1	1
CO2	2	3	2	1	2	3	-	3	-	2	2	2	1
CO3	1	1	1	2	1	2	-	3	-	1	1	2	1
CO4	2	2	2	2	1	2	-	3	-	1	2	1	1
CO5	3	2	2	2	2	3	-	1	-	1	2	2	1
CO6	2	2	2	1	2	2	-	2	1	1	1	2	1
CO7	1	1	1	1	2	1	-	1	-	1	1	2	1
CO8	1	1	1	1	2	1	-	1	-	1	1	2	1
CO9	3	1	3	2	2	3	-	2	-	1	1	2	1
CO10	3	1	2	1	1	2	-	2	-	1	1	1	1
CO11	-	-	-	-	-	-	-	-	-	-	-	-	-
Average	1.9	1.36	1.6	1.36	1.54	1.81	0.09	1.90	0.18	1.00	1.18	1.54	0.9

Low -1

Medium-2

High -3



11/6/24
8/12/24

Prof. Dr. Vinod Kumar R B
Principal
Al-Azhar Dental College
Thodupuzha - 685 605

PROGRAM SPECIFIC OUTCOME (PSO)

PSO1 : Acquired adequate knowledge and understanding of the etiology, patho physiology and diagnosis, treatment planning of various common oral and Maxillofacial surgical problems both minor and major in nature.

PSO2: Basic and detailed learning of head and neck anatomy and techniques of attaining local anesthesia.

PSO3: Perform History and communicate effectively with patients and other professional in a surgical setting, perform common technical skills surgical setting.

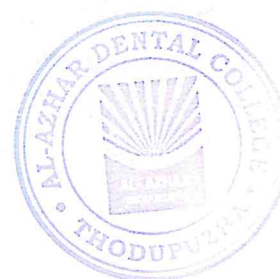
PSO MAPPING OF OMFS DEPARTMENT

Low -1

Medium-2

High-3

	PSO1	PSO2	PSO3
CO1	1	1	3
CO2	3	2	3
CO3	3	2	2
CO4	2	2	2
CO5	2	3	1
CO6	3	3	3
CO7	3	3	3
CO8	3	3	3
CO9	3	2	3
CO10	3	2	2
CO11	-	-	-
Average	2.36	2.09	2.27



11/12/24
Prof. Dr. Vinod Kumar R B
Principal
Al-Azhar Dental College
Thodupuzha - 685 605

ORAL MEDICINE & RADIOLOGY – COURSE OUTCOME

1. Identify the common dental problems like dental caries and periodontal disease and their sequelae
2. Differentiate the normal variations and oral mucosal lesions.
3. Identify pre-cancerous and cancerous lesions of the oral cavity and refer to the concerned specialty for their management.
4. Have an adequate knowledge about common laboratory investigations and interpretation of their results.
5. Have adequate knowledge about medical complications that can arise while treating systemically compromised patients and take prior precautions/ consent from the concerned medical specialist.
6. Formulate a clinical diagnosis, order investigations, seek expert consultations to come to a final diagnosis and chart out a proper treatment plan for patients with oral lesions.
7. Have adequate knowledge about radiation health hazards, radiation safety and protection.
8. Be competent to take intra-oral radiographs and interpret the radiographic findings
9. Gain adequate knowledge of various extra-oral radiographic procedures, TMJ radiography and sialography.
10. Be aware of the importance of intra- and extra-oral radiographs in forensic identification and age estimation.
11. Be familiar with jurisprudence, ethics and understand the significance of dental records with respect to law



11/21
6/12/24
Prof. Dr. Vinod Kumar R B
Principal
Al-Azhar Dental College
Thodupuzha - 685 605

PO CO MAPPING OF OMR DEPARTMENT

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO1 1	PO 12	PO 13
CO1	3	3	1	-	2	-	-	-	-	-	-	-	-
CO2	3	3	1	-	2	-	-	-	-	-	1	-	-
CO3	3	1	1	1	3	-	-	-	-	-	1	-	2
CO4	2	1	1	-	1	-	-	-	-	-	3	-	-
CO5	1	1	3	-	-	1	-	-	-	-	-	-	-
CO6	3	2	3	1	3	1	-	-	-	-	3	-	-
CO7	1	1	1	1	1	1	-	-	-	-	2	-	-
CO8	1	1	1	1	1	1	-	-	-	-	3	-	-
CO9	1	1	1	1	1	1	-	-	-	-	3	-	-
CO10	1	1	1	1	1	1	3	-	-	-	-	-	-
CO11	1	1	1	1	1	1	-	-	-	-	-	3	-
Average	1.8	1.45	1.36	0.63	1.45	0.63	0.27	-	-	-	1.45	0.27	0.18

Inference

- 1- Low
- 2- Medium
- 3- High

V.K.R.
6/12/24



Prof. Dr. Vinod Kumar R B
Principal
Al-Azhar Dental College
Thodupuzha - 685 605

PROSTHODONTICS AND CROWN & BRIDGE

Course Outcomes

On completion of the undergraduate training program, the graduate should:

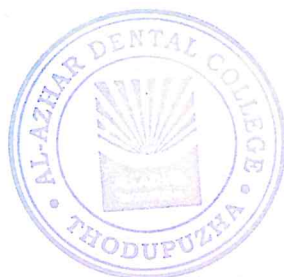
CO1	Be able to understand and use various dental materials.
CO2	Be competent to carry out treatment of conventional Simple complete and partial removable dentures and anterior crowns
CO3	Be able to carry out Prosthodontic laboratory procedures.
CO4	Be familiar with the concepts of osseointegration and the value of implant-supported Prosthodontic procedures.
CO5	Be able to diagnose and appropriately refer patients requiring complex treatment procedures to the specialist


PO CO MAPPING OF PROSTHODONTICS DEPARTMENT

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12	PO 13
CO1	3	-	2	-	2	2	-	1	2	1	-	-	-
CO2	3	2	3	2	2	1	1	2	3	2	1	1	-
CO3	3	1	2	2	2	2	-	-	3	2	1	-	-
CO4	1	1	2	1	2	-	-	-	2	3	3	2	3
CO5	1	1	3	1	-	-	-	-	1	1	2	2	3
AVERAGE	2.2	1	2.4	1.2	1.6	1	0.2	0.6	2.2	1.8	1.4	1	1.2

Inference

- 1- Low
- 2- Medium
- 3- High




 Prof. Dr. Vinod Kumar R B
 Principal
 Al-Azhar Dental College
 Thodupuzha - 685 065

ORAL PATHOLOGY – COURSE OUTCOME

1. Comprehend the different types of pathological processes that involve the Orofacial tissues.
2. Comprehend the manifestations of common diseases, their diagnosis & correlation with clinical pathological processes.
3. Understand the oral manifestations of systemic diseases and correlate with the systemic physical signs & laboratory findings.
4. Understand the underlying biological principles governing treatment of oral diseases.
5. Understand the principles of certain basic aspects of Forensic Odontology.

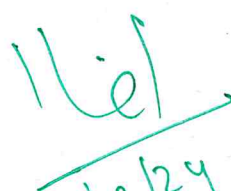
PO CO MAPPING OF ORAL PATHOLOGY DEPARTMENT

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13
CO1	2	3	3	2	2	1	2	-	-	1	3	3	1
CO2	3	2	2	2	2	3	-	-	-	1	3	2	2
CO3	3	2	2	3	3	2	-	-	-	3	1	2	1
CO4	2	2	1	1	2	3	1	-	2	1	-	1	2
CO5	3	2	1	3	2	1	3	1	1	2	1	3	1
AVG	2.6	2.2	1.8	2.2	2.2	2	1.2	0.2	0.5	0.5	1.6	2.2	1.2

Inference

- 1- Low
- 2- Medium
- 3- High




 6/12/24
 Prof. Dr. Vinod Kumar R B
 Principal
 Al-Azhar Dental College
 Thodupuzha - 685 605

PERIODONTICS – COURSE OUTCOME

1.CO1: Be able to diagnose the patients periodontal problem, plan and perform an appropriate treatment.

2.CO2: Be competent to educate and motivate the patient.

3.CO3: Be competent to perform thorough oral prophylaxis, sub-gingival scaling, root planning and minor periodontal surgical procedures.

4.CO4: Be able to deliver proper post treatment instructions and do periodic recall and evaluation.

5.CO5: Be familiar with concepts of osseointegration and basic surgical aspects of Implantology.

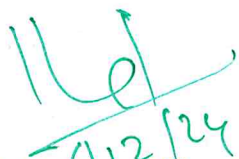
PO CO MAPPING OF PERIODONTICS DEPARTMENT

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13
CO1	1	2	3	2	2	1	1	3	1	1	–	1	1
CO2	2	3	3	3	2	3	1	3	2	2	1	1	2
CO3	3	2	2	3	1	3	1	2	–	1	2	1	1
CO4	2	2	1	3	3	2	–	2	–	–	–	–	–
CO5	3	3	3	–	2	2	–	1	3	–	–	–	–
Avg.	2.2	2.4	2.4	2.2	2	2.2	0.6	2.2	1.2	0.8	0.6	0.6	0.8

Inference

- 1- Low
- 2- Medium
- 3- High




 Prof. Dr. Vinod Kumar R B
 Principal
 Al-Azhar Dental College
 Thodupuzha - 685 605

CONSERVATIVE DENTISTRY AND ENDODONTICS

COURSE OUTCOME

CO1. Be Competent to diagnose all carious lesions.

CO2. Be Competent to perform Class I and Class II cavities and their restoration with amalgam.

CO3. Be able to restore class V and Class III cavities with glass ionomer cement.

CO4. Be able to diagnose and appropriately treat pulpally involved teeth (pulp capping procedures).

CO5. Be able to perform RCT for anterior teeth

CO6. Be competent to carry out small composite restorations

CO7. Understand the principles of aesthetic dental procedures

PO CO MAPPING OF CONSERVATIVE DENTISTRY AND ENDODONTICS


DEPARTMENT

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13
CO1	3	3	3	3	2	1	1	2	3	1	2	-	3
CO2	3	2	3	3	-	3	3	-	2	-	2	2	3
CO3	3	3	3	3	-	2	-	-	3	-	1	-	3
CO4	3	3	3	3	2	3	1	3	3	-	2	3	3
CO5	3	3	3	3	-	2	2	3	3	-	3	3	3
CO6	3	3	3	3	3	2	2	-	3	-	2	1	2
CO7	3	3	3	3	2	3	2	-	3	-	-	2	2
Average	3	2.8	3	3	1.2	2.2	1.5	1	2.8	0.1	1.7	1.5	2.7

Inference

- 1- Low
- 2- Medium
- 3- High




 Prof. Dr. Vinod Kumar R B
 Principal
 Al-Azhar Dental College
 Thodupuzha - 685 605

PUBLIC HEALTH DENTISTRY- COURSE OUTCOME

On completion of the undergraduate training programme the graduate should:

1. Apply the principles of health promotion and disease prevention.
2. Have knowledge of the organization and provision of health care in community and in the hospital service
3. Have knowledge of the prevalence of common dental conditions in India
4. Have knowledge of community based preventive measures
5. Have knowledge of the social, cultural and environmental factors, which contribute to health or illness.
6. Be able to administer hygiene instructions, topical fluoride therapy and fissure sealing.
7. Be able to educate patients concerning the etiology and prevention of oral disease and encourage them to assure responsibility for their oral health

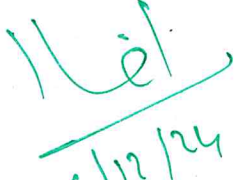
PO-CO Mapping of PHD

CO/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	PO 13
CO1	1	3	2	3	3	2	1	1	1	1	1	1	1
CO2	3	1	3	3	3	3	1	2	3	3	3	3	1
CO3	3	2	3	3	3	3	1	1	1	3	1	1	1
CO4	3	2	2	3	3	2	1	1	1	1	2	1	1
CO5	2	2	2	3	3	3	1	1	1	1	1	1	1
CO6	3	2	2	3	3	2	1	1	1	1	2	1	1
CO7	3	3	3	3	3	3	1	1	3	3	3	1	1
AVERAGE	2.57	2.14	2.43	3	3	2.57	1	1.14	1.57	1.86	1.86	1.43	1

Inference

- 1- Low
- 2- Medium
- 3- High




 Prof. Dr. Vinod Kumar R B
 Principal
 Al-Azhar Dental College
 Thodupuzha - 685 605

DEPARTMENT OF PEDIATRIC AND PREVENTIVE DENTISTRY

COURSE OUTCOME

On completion of the undergraduate training program the graduate should:

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 treat dental diseases occurring in child patient.

CO4 - Be able to manage the physically and mentally challenged / disabled children effectively and efficiently, tailored to the needs of individual requirements and conditions.

CO PO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13
CO1	3	2	2	2	-	2	2	1	2	1	2	2	2
CO2	1	2	2	2	2	1	-	2	2	1	1	2	2
CO3	2	1	1	2	2	2	2	2	2	2	2	2	2
CO4	2	3	3	3	3	3	3	3	3	3	3	3	2
AVE	2	2	2	2.25	1.75	2	1.75	2	2.25	1.75	2	2.25	2

Inference

- 1- Low
- 2- Medium
- 3- High



11/12/24
Prof. Dr. Vinod Kumar R B
Principal
Al-Azhar Dental College
Thodupuzha - 685 605

ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

COURSE OUTCOME

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 and explain to the patient and parent /guardian about the 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.


PO CO MAPPING OF ORTHODONTICS DEPARTMENT

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13
CO1	3	3	-	1	1	1	2	2	-	3	1	1	1
CO2	3	3	2	1	1	1	2	2	1	3	1	-	1
CO3	3	2	3	3	2	2	3	1	3	2	3	1	3
CO4	1	1	2	3	-	-	1	1	2	1	2	3	1
CO5	1	1	3	2	1	1	1	-	3	2	3	1	1
CO6	-	3	2	2	1	1	-	2	2	2	2	1	-
CO7	3	2	3	3	2	3	1	1	3	2	2	3	3
CO8	3	2	3	3	3	3	1	-	3	3	1	2	3
CO9	3	3	3	3	3	2	1	3	3	2	3	2	3
AVERAGE	2.2	2.2	2.1	2.3	1.5	1.5	1.3	1.3	2.5	2.2	2	1.5	1.7

Inference

- 1- Low
- 2- Medium
- 3- High




 Prof. Dr. Vinod Kumar R B
 Principal
 Al-Azhar Dental College
 Thodupuzha - 685 605