

TEERTHANKER MAHAVEER UNIVERSITY

(Established under Govt. of U. P. Act No. 30, 2008) Delhi Road, Moradabad (U.P.)

PhD PROGRAMME

SYLLABUS FOR DISCIPLINE-SPECIFIC COURSE PUBLIC HEALTH DENTISTRY

Course Code:	PUBLIC HEALTH DENTISTRYLTP	С
PDS240125		4
Objective:	 The following are the Objectives: 1. Understanding Public Health Principles 2. Oral Health and Disease Prevention 3. Epidemiology of Oral Diseases 4. Community-Based Dental Programs 5. Policy and Advocacy 6. Research Methodologies in Public Health Dentistry 7. Interdisciplinary Collaboration 8. Global and Local Health Challenges 9. Ethical and Legal Issues in Public Health Dentistry 10. Sustainable Development Goals (SDGs) in Oral Health 	
Course Outcomes:		
CO 1:	Comprehension of Public Health Principles Demonstrate a thorough understanding of the principles of public health and their application to oral health care.	ic
CO 2:	Application of Epidemiological Skills Use epidemiological methods to analyze the distribution an determinants of oral health conditions in populations.	ıd
CO 3:	Designing Community Programs Plan and implement effective community-based dental healt programs targeting prevention and health promotion.	th
CO 4:	Research Competence Conduct research using appropriate methodologies to address public health issues related to dentistry.	ic
CO 5:	Ethical Practice Apply ethical principles in decision-making processes, particularly i the context of community health initiatives and resource allocation.	in
Course Content:		
Unit 1:	Public Health:Definition, concepts, and philosophy of dental healthHistory of public health in India and at international levelTerminologies used in public health	

	Health: Definition, concepts, and philosophy of health Health indicators Health determinants Community and its characteristics and relation to health Disease: Definition, concepts Multifactorial causation, natural history, risk factors Disease control and eradication, evaluation and causation, infection of specific diseases Vaccines and immunization
Unit 2:	Cananal Enidamialogu
	General Epidemiology: Definition and aims, general principles Multifactorial causation, natural history, risk factors Methods in epidemiology, descriptive, analytical, experimental , and classic epidemiology of specific diseases, uses of epidemiology Duties of epidemiologist General idea of method of investigating chronic diseases, mostly non-infectious nature, epidemic, endemic, and pandemic. Ethical conversation in any study requirement New knowledge regarding ethical subjects Screening of diseases and standard procedures used
Unit 3:	Environmental Health:
	Impact of important components of the environment on health Principles and methods of identification, evaluation, and control of such health hazards Pollution of air, water, soil, noise, food Water purification, international standards of water Domestic and industrial toxins, ionizing radiation Occupational hazards Waste disposal- various methods and sanitation Public Health Education: Definition, aims, and principles of health education
	Health education, methods, models, contents, planning health education programs
Unit 4:	Public Health Practice and Administration System in India. Ethics and Jurisprudence: Basic principles of law Contract laws- dentist-patient relationships & Legal forms of practice
	Dental Malpractice Person identification through dentistry Legal protection for practicing dentist Consumer protection act
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Nutrition in Public Health:

Study of science of nutrition and its application to human problem Nutritional surveys and their evaluations Influence of nutrition and diet on general health and oral health, dental caries, periodontal disease and oral cancers Dietary constituents and carcinogenicity Guidelines for nutrition

Behavioral Sciences:

Definition and introduction

Sociology: social class, social group, family types, communities and social relationships, culture, its effect on oral health.

Psychology: definition, development of child psychology, anxiety, fear and phobia, intelligence, learning, motivation, personalities, fear, dentist-patient relationship, modeling and experience

Hospital Administration:

Departmental maintenance, organizational structures Types of practices Biomedical waste management

Health Care Delivery System:

International oral health care delivery systems – Review Central and state system in general and oral health care delivery system if any National and health policy National health programs Health Planning and Evaluation Primary health care – concepts, oral health in PHC and its implications National and international health organizations Dentists Act 1928, Dental council of India, Ethics, Indian Dental Association Role of W.H.O. and Voluntary organizations in Health Care for the Community Oral Biology and Genetics: A detailed study of cell structure Introduction to Genetics, Gene structure, DNA, RNA Genetic counseling, gene typing Genetic approaches in the study of oral disorders Genetic Engineering - Answer to current health problems **Demography & Family Planning:** Demographic trends, family planning methods, milestones in population control in India. **Health Economics:** Health benefit analysis and cost-effective analysis

Unit 5:	Dantal Dublia Haalth
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	History
	Definition and concepts of dental public health
	Differences between clinical and community dentistry
	Critical review of current practice
	Dental problems of specific population groups such as chronically ill,
	handicapped, and institutionalized group
Unit 6:	
	Epidemiology of Oral Diseases and Conditions:
	Dental caries, gingival, periodontal disease malocclusion, dental
	Fluorosis, oral cancer, TMJ disorders and other oral health related
	problems.
	Oral Survey Procedures:
	Planning
	Implementation
	WHO basic oral health methods 1997
	Indices for dental diseases and conditions
	Evaluation
	Evaluation
	Delivery of Dental Care:
	Dental person power – dental auxiliaries
	Dentist – population ratios,
	Public dental care programs
	School dental health programs- Incremental and comprehensive care
	Private practice and group practice
	Oral health policy – National and international policy
	Payment for Dental Care:
	Prepayment
	Post-payment
	Reimbursement plans
	Voluntary agencies
	Health insurance
Unit 7:	
Umt 7.	Evaluation of Quality of Dental Care:
	Problems in public and private oral health care system program
	Evaluation of quality of services, governmental control
	Preventive Dentistry:
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	Levels of prevention
	Preventive oral health programs screening, health education, and
	motivation
	Prevention of all dental diseases-dental caries, periodontal diseases,
	oral cancer, malocclusion, and Dentofacial anomalies
	Role of dentist in the prevention of oral diseases at individual and
	community levels.
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	Fluoride:
	History Mechanism of action Metabolism
	Fluoride toxicity Fluorosis
	Systemic and topical preparations Advantages and disadvantages of each
	Update regarding Fluorosis Epidemiological studies
	Methods of fluoride supplements
	De fluoridation techniques Antifluoridation lobby
	Plaque control measures-
	Health Education Personal oral hygiene
	Tooth brushing technique Dentifrices, mouth rinses
	Pit and fissure sealant, ART, Preventive resin restoration Preventive oral health care for medically compromised individual
	Update on recent preventive modalities
	Caries vaccines
	Dietary counseling
	Practice Management:
	Definition Principles of management of dental practice and types
	Organization and administration of dental practice
	Ethical and legal issues in dental practice
	Current trends
	Infection control in dental practice
	Tobacco Counseling:
	Health Consequences Tobacco dependence
	Benefits of intervention
	Tobacco cessation
	Role of dentist.
	Health Manpower Planning
Textbooks:	 "Textbook of Public Health Dentistry" by Soben Peter "Oral Health Epidemiology: Principles and Practice" by Amit
	Chattopadhyay
	3. "Dentistry, Dental Practice, and the Community" by Brian A. Burt and Steven A. Eklund
	4. "Principles of Dental Public Health" by James Morse Dunning
	5. "Essential Dental Public Health" by Blanaid Daly, Paul Batchelor, Elizabeth Treasure, and Richard Watt
	Dawnerer, Enzabell Treasure, and Menald Watt

Reference Books:	1. "Introduction to Public Health" by Mary-Jane Schneider
	2. Unity Oral Health Practice for the Dental Hygienist" by Kathy
	Voigt Geurink
	3. "Preventive and Community Dentistry" by Dr. Hiremath
	4. "Public Health and Community Dentistry" by K. Park and B.
	K. Mahajan
Additional Electronic	1. Wiley Online Library
Reference Material:	2. PubMed
	3. Cochrane Library
	4. WHO Oral Health
	5. NIDCR