

TEERTHANKER MAHAVEER UNIVERSITY

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

Ph.D. PROGRAMME

SYLLABUS FOR DISCIPLINE-SPECIFIC COURSE

PUBLIC HEALTH DENTISTRY

Course Code:	PUBLIC HEALTH DENTISTRY	L	Τ	Р	С
PDS240125		0	0	0	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 De 7. Interdisciplinary Collaboration 8. Global and Local Health Challenges 9. Ethical and Legal Issues in Public Health De 10. Sustainable Development Goals (SDGs) in C 	entis	try	llth	
Course Outcomes:					
CO 1:	Comprehension of Public Health Principles Demonstrate a thorough understanding of the princi- health and their application to oral health care.	ples	of	put	olic
CO 2:	Application of Epidemiological Skills Use epidemiological methods to analyze the dis determinants of oral health conditions in populations.	strib	utio	n a	ınd
CO 3:	Designing Community Programs Plan and implement effective community-based programs targeting prevention and health promotion.	den	tal	hea	lth
CO 4:	Research Competence Conduct research using appropriate methodologies to health issues related to dentistry.	add	ress	pub	olic
CO 5:	Ethical Practice Apply ethical principles in decision-making processes, the context of community health initiatives and resource	-			
Course Content:					
Unit 1:	Public Health: Definition, concepts, and philosophy of dental health History of public health in India and at international leve Terminologies used in public health	el			

	Health:
	Definition, concepts, and philosophy of health
	Health indicators
	Health determinants Community and its characteristics and relation to health
	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:	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:	
Chit 5.	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:	
Umt 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

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:

	Health Care Denvery 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:	Dental Public Health:
	History
	Definition and concepts of dental public health
	Differences between clinical and community dentistry
	Critical review of current practice

	Dentel problems of specific population groups such as obranically ill
	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
	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:	Fushing of Quality of Dantal Const
	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:
	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.
	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:	1. "Textbook of Public Health Dentistry" by Soben Peter
	2. "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
Reference Books:	1. "Introduction to Public Health" by Mary-Jane Schneider
Reference DOOKS:	5 5
	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.
Additional	K. Mahajan
Electronic	1. Wiley Online Library
	 Wiley Online Library PubMed
Reference	 Wiley Online Library PubMed Cochrane Library
	 Wiley Online Library PubMed