

## 4A.1.2 SYLLABUS ( Including Teaching Hours.)

### MUST KNOW 46 HRS

- 1 Introduction: 01 HR
  - History of Dentistry (India and abroad),
  - Definitions - Public Health
  - Introduction, Definition, History, Changing concepts, History of Public Health In India
  - Characteristic method and Technique
- 2 Dental Public Health 01 HR
  - Aims, and Objectives, Tools, Procedural Steps in Dental Public Health, Similarities and dissimilarities between Clinical Dentistry and Public Health Dentistry, Functions of the public health dentist
- 3 Survey 02 HR
  - Need, Aims of a Survey, types of survey ,Oral health Surveys
  - Basic Methods (WHO-1997)
- 4 Program Planning and Evaluation. 01 HR
  - Planning cycle, types of evaluation
- 5 Biostatistics 03 HRS
  - Introduction, Application in Dentistry ,data collection, Sampling techniques -Measures of Central Tendency,
  - Measures of Dispersion, Normal Curve, Presentation of data- Tables, charts and Diagram.
  - Tests of Significance,Confidence limits.
- 6 General Epidemiology 03 HRS
  - Introduction, Definition, Aims and Objectives, Principles, Difference between clinical medicine and Epidemiology, Basic measurement in Epidemiology, Incidence and Prevalence. Descriptive Epidemiology, Analytical Epidemiology (Case control and Cohort study), Experimental Epidemiology. Uses of Epidemiology.
- 7 Health 01 HR
  - Definition, Changing concepts, Dimension, Determinants, Ecology, and Spectrum of health.
- 8 Disease 01 HR
  - Concepts, Natural history, Epidemiological Triad, Iceberg Phenomenon, Spectrum of disease and Dynamics of disease transmission. Concepts of prevention (Levels and modes of intervention)
- 9 Environment and Health 02 HRS
  - Water: Norms of Potability, uses of water and sources, purification of water (Large and small scale), hardness of water

-Air: Composition, air pollution, effects, prevention and control of air pollution.

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| 10 | Social Environment<br>Definitions, Types of Family<br>Influence of culture on oral health, Influence of social class on oral health<br>Types of social classes.<br>Utilization of dental care according to social class      | 01 HR  |
| 11 | Waste Disposal<br>- Sources of refuse, health hazard and methods of Disposal   | 01 HR  |
| 12 | Communication for Health Education.<br>- Definition, communication process, types, barriers, approaches in health education, health education and Propaganda,<br>Contents of Health Education, Principles, methods, and aids | 02 HRS |
| 13 | School health programmes<br>Aims, elements, advantages, disadvantages<br>School Health programs in developing and developed countries  | 01 HR  |
| 14 | Epidemiology of Dental caries<br>Host, agent and Environmental factors.<br>Levels of prevention for dental caries  | 02 HRS |
| 15 | Prevention and control of Dental caries. Fluorides<br>- Introduction, History, Physiology of Fluoride, sources,<br>- Systemic fluoridation, topical fluoride<br>- Defluoridation, toxicity, safety dose, Caries vaccine.     | 02 HRS |
| 16 | Caries Activity tests<br>- Pit and fissure sealant.  | 01 HR  |
| 17 | Epidemiology of Periodontal disease.<br>- Host, agent and Environmental factors.<br>- Prevalence of periodontal disease.   | 01 HR  |
| 18 | Prevention and control of Periodontal Disease.<br>- Levels of prevention for periodontal disease.<br>- Plaque control  | 01HR   |
| 19 | Epidemiology and Prevention and control of malocclusion.   | 01 HR  |
| 20 | Epidemiology Prevention and control of oral cancer.<br>Host, agent and Environmental factors. Prevalence   | 02 HRS |

Levels of prevention for oral cancer.

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| 21 | Indices.<br>- Introduction, classification, ideal requisites, uses.<br>- Dental caries indices – DMFT, DMFS, dmft, deft, dft, dfs, defs,<br>Gingival Indices - Loe and Sillness index<br>- Plaque Indices- Sillness and Loe index.<br>- Oral hygiene indices- OHI and OHI-S<br>Periodontal Indices- Russell's periodontal index, CPITN, CPI.<br>- Dental fluorosis Index- Dean's fluorosis index<br>WHO proforma 1997 | 03 HRS |
| 22 | Provision of dental care<br>Private and group practice, Part time practice, HMO, PPO,<br>Neighborhood health clinic, Portable equipments.   | 01 HR  |
| 23 | Dental Payments.<br>Types of dental payments in detail<br>Dental insurance  | 01 HR  |
| 24 | Dental Auxiliaries.<br>Definition, classification, description of each in Detail ,<br>New type of dental auxiliaries, Degree of supervision of auxiliaries  | 01 HR  |
| 25 | Health care of the community<br>- PHC, Elements of primary health care, Principles of<br>primary health care.<br>Health care system in India.- Public sector, private sector,<br>indigenous systems voluntary health agency, National<br>health program and National oral health care program   | 01 HR  |
| 26 | Health agencies around the world.   | 01 HR  |
| 27 | WHO   | 01 HR  |
| 28 | Dental council of India<br>Dentist's Act 1948   | 01 HR  |
| 29 | Indian Dental Association. Structure, functions.  | 01 HR  |
| 30 | Ethics, Ethical Principles, Ethical rules for Dentists  | 01 HR  |
| 31 | Dental Jurisprudence and Consumer Protection Act  | 01 HR  |
| 32 | Dental Practice Management<br>- Areas for consideration - planning, finance, setting<br>up of fees, quality care, records, Legal implications,<br>Consumer related aspects.   | 01 HR  |

- 33 Child psychology Classification and behavior management. 01 HR
- 34 Computers in dentistry 01 HR
- 35 Atraumatic restorative treatment 01 HR

**DESIRABLE TO KNOW**

**15HRS**

The UN Millennium developmental goals.  
 National oral health Policy  
 Indian Association of Public Health Dentistry.  
 Training and calibration of examiners.  
 Evaluating a public health problem (Problem Based learning)  
 Regression techniques  
 Association and Causation  
 Investigation of an epidemic  
 Recent advances in epidemiology  
 Epidemic, endemic and pandemic diseases across the world.  
 Light, Requirement of good lighting, Natural and artificial light, methods of artificial lighting.  
 Noise: Sources, properties, effects, control.  
 Radiation: Sources, Types, Biological Effects, Radiation protection.  
 Social and Cultural Anthropology.  
 Dental waste disposal.  
 Health promotion, Approaches to Health Promotion.  
 WHO contribution, Implementation of school health program.  
 Trends in dental caries in developed and developing countries  
 Caries risk assessment i.e. Cariogram  
 Chairside caries activity test newer advances in pit and fissure sealants  
 Periodontal risk assessment  
 Tobacco control and Habit cessation. New modalities in diagnosis of oral cancer  
 Genetics and oral cancer  
 Malocclusion indices-  
 Recent dental caries index i.e. ICDAS  
 Indices for incipient caries  
 Community fluorosis index.  
 Provision of dental care in India  
 National Rural Health Mission  
 Contribution of centre and state in oral health in India, oral health care for special groups

Indian Association of Public Health Dentistry, International Labor organization.  
 International food Organization.  
 WHO goals for oral health.  
 Organisation of IDA in India  
 Nuremberg code,  
 Declaration of Geneva,  
 World medical association  
 International code of Medical ethics,  
 Declaration of Helsinki Ethics in Dental Research  
 Classification of malpractice  
 New materials for ART

#### 4A.1.3 EXAMINATION PATTERN

NAME OF EXERCISE	TIME ALLOTTED	MARKS ALLOTTED
Case History including Indices.	01 Hr	50
Project Work	NA	15
Journal	NA	05
Preventive Procedure	20 mins	20
Viva	10 mins	20