One Year Diploma in

EPIDEMIOLOGY AND PUBLIC HEALTH

PAPER-I	EPIDEMIOLOGY OF NON-	FM-50 (Theory-40 +
	COMMUNICABLE DISEASES	Internal-10)
EPH 101		
PAPER-II	EPIDEMIOLOGY OF	EM 50 (Theory 40)
FAFER-II		FM-50 (Theory-40 +
	COMMUNICABLE DISEASES	Internal-10)
EPH 102		
PAPER-III	PUBLIC HEALTH	FM-50 (Theory-40 +
		Internal-10)
EPH 103		
EPH104	COMMUNITY-BASED SURVEY WORK	50

Paper-I

EPIDEMIOLOGY OF NON-COMMUNICABLE DISEASES Paper Code- EPH 101

FM-50 (Theory-40 + Internal-10)

Class- 40 hrs

1.	Principle of Epidemiology. Its aims, approach, use of epidemiology, disease frequency,		
	distribution & determination, tools of measurement in epidemiology, incidence &		
	prevalence of disease.	5 hrs	
2.	Epidemiological method- Descriptive, Analytical, Experimental.	5 hrs	
3.	Screening for diseases. Concept of screening, uses of screening and criteria of s	creening,	
	true positive, true negative, OR, sensitivity and specificity of test.	5 hrs	
4.	Epidemiology of chronic non-communicable diseases and condition.	1 hrs	

5.	Diabetes: Epidemiological determinants, screening for diabetes, management.	3 hrs	
6.	CVD & CHD, risk factors, intervention.	3 hrs	
7.	Rheumatic Heart Disease: Epidemiological factors.	3 hrs	
8.	Stroke risk factors, intervention & epidemiology.	2 hrs	
9.	Cancer: Epidemiology, risk factors, intervention.	3 hrs	
10.	0. NPCDCS: National Program for Prevention and Control of Cancer, Diabetes, CVD &		
	Stroke.	3 hrs	
11.	National Program for Control of Blindness (NPCD)- Vision-2020.	3 hrs	

PAPER-II

Paper Code- EPH 102

EPIDEMIOLOGY OF COMMUNICABLE DISEASES

FM-50 (Theory-40 + Internal-10)

Class-40 hrs

- Disease Transmission: Host Defense- Immunity, Vaccination, Cold Chain of Vaccine-Equipment of Cold Chain. Adverse Events of Immunization. Disease Prevention & Control-Controlling of Reservoir, Interruption of Transmission, Susceptible Host, Sterilization & Disinfection, Investigation of an Epidemic.
- Principle of Prevention and Control of Communicable Diseases: Barrier Nursing and Reverse Barrier Nursing, Subclinical Infection and Lateral Infection. 3 hrs
- Diarrhoea, Cholera and Food Poisoning. Epidemiology of Rota Virus Diarrhoea. HACCP (Hazard Analysis Critical Control Point). Groups, Biotypes and Serotypes of Vibrios Circulating in India.
- Enteric Fever, Poliomyelitis, Viral Hepatitis A & B. Epidemiology of Polio, Conquest on Polio, Phase-I, Phase-II, Polio Eradication, Oral Polio Vaccine and Injectable Polio Vaccine, tOPV, bOVP, VDPV (Vaccine Derived Polio Virus), Epidemiological Aspects of Hepatitis A & E, Immuno Prophylaxis of Hepatitis A.
- **5.** Acute Respiratory Infections: Epidemiology, Prevention & Control of Influenza-A-H₁N₁, H₅N₁, H₇N₉, Ebola and MERS-COV, DPT. *4 hrs*
- 6. Tuberculosis: Epidemiological Measure of Tuberculosis, Diagnosis of Tuberculosis, Preview of RNTCP, Management of MDR-TB Under DOTS, Plus Strategy, New Case, Relapse, Failure, Default and Cured in RNTCP.
- 7. Vector-Borne Diseases: Epidemic of Malaria, Principle of Prevention and Control, Epidemiological Parameters Used to Assess Malaria Situation, Incubation Period and Communicability Period in Malaria. Relapse Resistance & Recrudescence in Respect to Malaria, EMCP (Enhance Malaria Control Program). Prevention and Control of Dengue, Epidemic of Dengue, Dengue Fever, Dengue Haemorrhagic Fever & Shock Syndrome. Surveillance for Dengue. Filariasis- Epidemiology, Prevention and Control, Chikungunya. 5 hrs
- 8. HIV & AIDS: Policy & Procedure for Testing for HIV in Our Country. Social Factors for HIV Transmission. Principle & Prevention of Control of HIV/ AIDS. Probability Vs. Magnitude of HIV Transmission. Antiretroviral Therapy (ART) in HIV Positive Person. HAART (High Active ART). HIV Endemicity Level, Case Definition Vs. Expanded Case Definition for AIDS. Difference Between AIDS Related Complex (ARC) and AIDS. 5 hrs

9. Zoonoses: Definition, Classification.Anthrus, Ebola Virus Disease (FVD), Rabies, Typhus-Epidemiological Aspects- Transmission, Prevention and Control. *4 hrs*

PAPER-III

Paper Code – EPH 103

PUBLIC HEALTH

FM – 50 (Theory – 40 + Internal - 10)

Class - 40 hours

1.	Determinants of Health and Diseases - Nutritional Aspect, Environmental	Aspect,
	Occupational Aspect.	2 hrs
2.	Disease Transmission: Dynamics Models, Host- Incubation Period, Generation	Times,
	Secondary Attack.	2 hrs
3.	Epidemiological Triad Theory of Disease Causation.	4 hrs
4.	Risk Approach in Public Health, Risk Marker and Risk Indicators, Spectrum of Disease	
	and Iceberg of Diseases, Isolation and Quarantine.	5 hrs
5.	Epidemiological Web Theory and Wheel Theory in Disease Causation.	4 hrs
6.	'BEINGG' Model of Causation of Disease, Description of Terms - Control, Elin	nination,
	Regional Eradication, Eradication, Impairment Disability, Handicap, Disease,	Illness,
	Sickness, Disability Limitation and Rehabilitation, Training of Epidemiolo	ogy and
	Advanced Triangle of Epidemiology, Rate, Ratio of Disease, HDI.	6 hrs
7.	Indicators of Public Health: IMR, MMR, CMR	
	Public Health Programme – Aims, Objectives, Indicators and Targets.	
	Public Health Administration India, Planning Cycle in Health Care Programme Cost-	
	Benefit Analysis, Cost-Effective Analysis, Input-Output Analysis, NET-WORK Analysis,	
	Planning, Programming, Budgeting System, NHP – National Health Policy – 2017	7. Levels
	of Prevention of Disease, Tribal Health in India, Health Core System, International Health	
	Agencies – WHO-, UNICEF, FAO, CARE, Red Cross.	6 hrs
8.	Millennium Development Goals (MDG) To Sustainable Development Goal (SDG)). Health

 Millennium Development Goals (MDG) To Sustainable Development Goal (SDG). Health Information System (HIS), IEC in Public Health: Principle, Approaches, Barrier, Content of Health Education, Job Description of Member of Health Team. 6 hrs

5 hrs

9. Monitoring and Evaluation of Health Programs.

PAPER-IV

Paper Code – EPH 104 (Practical) Community-based survey work – 50 EPH 106 -Grand viva - 50