

Eternal University - Baru Sahib

Himachal Pradesh, India

Centre for Public Health & Healthcare Administration



**Outlines of Courses and Syllabi for the Programme
on Master of Public Health (MPH)
Batch 2020-2022**

1. Overall Course Objectives in terms of Skills, Competencies and Learning Outcomes:

The course will help candidate to **develop skills in the following areas:**

- Analytical and assessment skills for collecting and interpreting information
- Policy planning and development skills to address public health challenges
- Communication skills for advocacy, dissemination and evaluation of public health data and information
- Financial planning and management skills for running public health programs in the country
- Leadership skills

At the end of the 2-years program, the PH Post-graduates are expected to demonstrate the **following Broad Values in the context of Public Health:**

1. Apply contemporary ideas to influence program organization and management, problem solving and critical thinking in public health domain
2. Undertake operational research in institutional and field settings
3. Work in socially, culturally and economically diverse populations by being attentive to needs of vulnerable and disadvantaged groups and be well versed with existing health systems
4. Demonstrate qualities of leadership and mentorship
5. Be an effective member of a multidisciplinary health team
6. Demonstrate ethics and accountability at all levels (professional, personal and social)
7. Practice professional excellence, scientific attitude and scholarship
8. Demonstrate social accountability and responsibility
9. Be open to lifelong learning

Specific to the course content, successful candidates are expected to demonstrate the following competencies in a Public Health setting:

1. **Apply the course learning to the public health system and its challenges:**
 - Demonstrate adequate knowledge and skills to a wide range of public health topics
 - Critically conduct the situational analysis and develop action plan for identified public health issues
 - Develop workforce for taking public health related responsibilities in defined geographical areas
 - Develop an understanding of the epidemiological transitions of programs specific to each State within the country in order to prioritize public health challenges for policy making
2. **Develop, implement and evaluate key public health policies:**
 - Develop a capacity to apply conceptual framework to understand policy processes in health care

- Understand roles of supply and demand in policy making in health care
- Develop an understanding to facilitate inter-sectoral coordination and public-private partnership
- Critically analyze resource allocation for competing public health interests across programs
- Formulate context appropriate policies and design programs to address public health challenges effectively

3. Develop and demonstrate competency in managing health systems at different levels:

- Identify immediate and long term health program goals at national, State and district levels
- Prioritize health issues in population
- Describe various managerial information systems and their application
- Describe program management plans in health
- Understand and apply core management principles for human resources in health
- Understand and apply program budgeting and economic evaluation
- Understand and apply quality assurance and improvement techniques in health care

4. Develop competency in research:

- Understand and apply ethical principles in research, evaluation and dissemination
- Develop competence to critically evaluate existing information and identify gaps
- Formulate and test research hypotheses in real world scenario
- Translate research knowledge for evidence based policy making

1. Eligibility Criteria for the Masters in Public Health Program:

Since public health is interconnected and influenced by our surrounding, global institutions have wide eligibility criteria for undertaking the Masters in Public Health (MPH) programs. In the Indian context, we see a very important role for candidates from multiple professional backgrounds within MPH programs. Thereby, the eligibility Criteria for MPH program in India may include both sciences as well as non-science graduates.

The following are suggested eligibility criteria for the MPH Program in

India: Graduates in

- Medicine / AYUSH / Dentistry / Veterinary Sciences / Allied and Health Sciences / Life Sciences
- Statistics / Biostatistics / Demography / Population Studies / Nutrition / Sociology / Psychology / Anthropology / Social Work

Although highly recommended, candidates need not be restricted to the above disciplines and graduates from selected backgrounds other than these, may be taken by the Universities, when considering the overall aptitude and eligibility of a certain candidate.

Eligibility in Akal College of health and Allied sciences:

Bachelor's Degree in Health sciences / Medical Sciences / Allied Health Sciences streams : MBBS, BDS, BAMS, BHMS, B.Sc. Nursing, B. Pharma, BPT, B.Sc. Med, B.Sc. Micro, B.Sc. Lab Tech (Med), B. Sc. Radiography with 55%.

Bachelor's degree in Veterinary Sciences, Engineering (BE/BTech) with minimum 55% marks. Master's degree(MA/MSc) with minimum 50% marks in Physiotherapy, Occupational Therapy, Nutrition, Pharmacology, Pharmacy, Agriculture Sciences, Social Sciences or any other Science degree. **Demonstrated work experience in a healthcare-related field is highly desirable.**

2. Duration of the course:

This course is designed to be a two years' full time program including internship and dissertation.

3. Course outline

The MPH course will comprise of 15 Core modules and several elective modules which may be offered by Universities depending on their capacity and capability. **Four** elective streams comprising five modules each have been suggested in this document in addition to **15 Core** modules. A candidate will need to pass 15 Core (compulsory) modules, and five (5) elective modules of the chosen stream to successfully complete the program.

A. Core modules (compulsory for all four streams)

- a. Principles and practice of Public Health
- b. Introduction to health system and policy in Developing countries
- c. Health Management: Management Principles and practices
- d. Basic Epidemiology
- e. Basic Biostatistics
- f. Demography and population sciences
- g. Introduction to health economics
- h. Health promotions approaches and methods and evaluation
- i. Introduction to financial management and budgeting
- j. Social and behaviour change, effective communication in health care
- k. Reproductive, Maternal, Neonatal, Child Health and Adolescent Health (RMNCH+A) also to include Family Planning
- l. Introduction to health programme evaluation
- m. Principles of social research methods
- n. Environment and occupational health
- o. Law and ethics in public health

B. Elective streams

• Epidemiology

- i. Advanced Biostatistics
- ii. Advanced Epidemiology
- iii. Survey design and methods
- iv. Infectious disease epidemiology

- v. NCD epidemiology

Note: *Modules (i) to (v) compulsory for Epidemiology Stream*

• **Health system management**

- i. Strategic management in health care and Health Entrepreneurship
- ii. Advanced Operational research
- iii. Advanced Financial management and budgeting
- iv. Organizational management and services
- v. Effective advocacy and communication in Public Health

Note: *Modules (i) to (v) compulsory for Health Management Stream*

• **Health Programme, Policy and Planning**

- i. Health policy, process and planning
- ii. Programme planning and evaluation of public health programmes (including current NHPs)
- iii. Translating research into policy and health advocacy
- iv. Current issues in Health Policy: National and global perspective
- v. Role of non-governmental organizations in health care

Note: *Modules (i) to (v) compulsory for Health Programme, Policy and Planning Stream*

• **RMNCH+A**

- i. Sexual and Reproductive health
- ii. Maternal and child health
- iii. Adolescent health
- iv. Gender and health
- v. Public health nutrition

Note: *Modules (i) to (v) compulsory for RMNCH+A Stream*

Note: Each elective stream **MUST** contain coursework for at least **10 credits or 350 hours**.

C. Internship

D. Dissertation

Semester Distribution of Master's Program in Akal College of health and Allied sciences

Suggested calendar of activities

Semesters	Months	In/out Campus
Semester 1	6 months (4 month)	In campus classes
Semester 2	4 months	In campus classes
	2 months	Internship
Semester 3	6 months (4 months)	In campus classes
Semester 4	2 months	Internship
	4 months	Research, submission and defence of dissertation

SEMESTER 1 MODULES

Principles and Practices of Public Health

Introduction to Health System and Policy in Developing Countries

Health Management : Management Principles and Practices (Strategic management)

Demography and Population Sciences

Principles of Social Research Methods and Basic Biostatistics

Basic Epidemiology

SEMESTER 2 MODULES

Introduction to Health Economics

Health Promotion Approaches and Methods

Introduction to Financial Management and Budgeting

Social and Behaviour Change, Effective Communication in Health Care

Elective Stream modules (3 subjects)

SEMESTER 3 MODULES

Reproductive, Maternal Health, Child Health and adolescent (RMNCH+A)

Introduction to Health Programs and evaluation

Environment and Occupational Health

Law and Ethics in Public Health

Elective Stream modules (subjects 2)

SEMESTER 4

Research, submission and defence of dissertation

Internship

A	CORE MODULES
a	Principles and Practices of Public Health
b	Introduction to Health System and Policy In Developing Countries
c	Health Management : Management Principles and Practices (Strategic management) and Introduction to Operational Research
d	Basic Epidemiology including Non-Communicable and Communicable diseases
e	Demography and Population Sciences
f	Introduction to Health Economics
g	Health Promotion Approaches and Methods
h	Introduction to Financial Management and Budgeting
i	Social and Behaviour Change, Effective Communication in Health Care
j	Reproductive, Maternal Health, Child Health and adolescent (RMNCH+A)
k	Introduction to Health Programme design and evaluation
l	Principles of Research Methods and Basic Biostatistics
m	Environment and Occupational Health
n	Law and Ethics in Public Health
	TOTAL FOR CORE MODULES
B	ELECTIVE MODULES
B1	Epidemiology
i	Advanced Biostatistics
ii	Advanced Epidemiology
iii	Survey Design and Methods
iv	Infectious Disease Epidemiology including live Outbreak Investigation
v	NCD Epidemiology
	TOTAL FOR ELECTIVE MODULE
B2	Program Policy and Planning
i	Health Policy, Process and Planning
ii	Programme Planning and Evaluation of Public Health Programmes (including current NHPs) – (1 week) – All Programs
iii	Translating Research into Policy and Health Advocacy
iv	Current Issues in Health Policy: National and Global Perspective
v	Role of Non-Governmental Organization in Health Care
	TOTAL FOR ELECTIVE MODULE

B3	Health Management
i.	Strategic management and Entrepreneurship in health care
ii.	Operational Research (Advanced)
iii.	Advanced Financial Management and Budgeting
iv.	Organizational Management and Services
v.	Effective Communication in Public Health
	TOTAL FOR ELECTIVE MODULE
B4	RMNCH+A
i.	Reproductive and Sexual Health
ii.	Maternal and child Health-Advanced
iii.	Adolescent Health
iv.	Gender and Health
v.	Public Health Nutrition
	TOTAL FOR ELECTIVE MODULE
	Internship and Dissertation
C	Internship
D	Dissertation
	Total (Core modules +one elective stream + Internship + Dissertation)

Importance of Professionalism, values and communication: During orientation week, the course is expected to provide the candidate an overview of professionalism, importance of professional values and communication including;

- Professional values- Integrity, objectivity, professional competence and confidentiality.
- Core values- Accountability, Altruism, Compassion/ caring, excellence, integrity, professional duties, social responsibility
- Personal values- ethical or moral values
- Attitude and behaviour- professional behaviour, treating people equally
- Code of conduct, professional accountability and responsibility, misconduct
- Cultural issues in the healthcare environment
- Differences between the various healthcare professions and importance of team efforts
- Entry level health care practitioner, direct access, autonomy in profession, practitioner of medical practice and evidence based practice

General evaluation:

Each semester will have theory exam and practical examination at the end of the semester and in addition the fourth semester will also be evaluated on the basis of the Dissertation.

**Master in Public Health
(MPH) Odd Semester-1
Teaching & Training Scheme: (Batch: 2020-2022)**

Course Code	Name of the Course	*L	*T	*P	Credit Hours/week
PH-519	Principles and Practices of Public health	3	0	1	4
PH-520	Introduction to Health System and Policy in Developing Countries	3	1	0	4
PH-521	Health Management :Management Principles And Practices (Strategic management)	3	1	0	4
PH-522	Basic Epidemiology	3	1	0	4
PH-523	Principles of social Research Methods and Biostatistics	3	1	0	4
PH-524	Demography And Population	3	0	1	4
TOTAL	*L =Lecture; *T = Tutorial; *P = Practical	18	4	2	24
PH-590	Project Work–For Winter: Internship/Survey and dissertation writing & Research Publications				

The students will be asked to make a repository of the research articles according to the subject code. Thereafter, this repository will be updated in the upcoming batches creating a research data base in order to sharpen their research acumen.

Workshops; Conferences; Consortia; Seminars; Journal Clubs; Symposia of National/ International level will be organised along with the teaching and training sessions of credit courses.

By the end of 1st Semester: during winter break of Project work, the organisation(s) to be taken up will include: Sub-centre (the peripheral health facility); PHC; CHC; NGOs; Schools; Colleges or the Community itself. The project work will include Portfolio writing, data collection on the Topic allotted along with the attendance for the period of their working. The data thus collected will be entered, tabulated, presented and analysed during the first month of 2nd Semester. This project work will help them to carry out the thesis work in the second semester.

Efforts will be made to organise the guest lectures for the department on monthly basis where the faculty or distinguished working professionals from other institutes as well as Eternal University will be invited to provide insight on the topics of public health.

**Master in Public Health
(MPH) Even Semester-2
Teaching & Training Scheme: (Batch: 2020-2022)**

Course Code	Name of the Course	*L	*T	*P	Credit Hours/week
PH-525	Introduction to Health Economics	3	1	0	4
PH-526	Health Promotions Approaches And Methods	3	0	1	4
PH-527	Introduction To Financial Management And Budgeting	3	1	0	4
PH-528	Social and Behaviour change, Effective Communication in Health care	3	0	1	4
PH-529	Elective Module-I				
Epidemiology	Advanced Biostatistics and Epidemiology				
Health program, Policy and Planning	Policy components and evaluation of public health programs	3	1	0	4
Health System Management	Organisational management and Effective communication in public health				
RMNCH+A	Fundamentals of Reproductive Health and MCH services				
PH-530	Elective Module –II				
Epidemiology	Communicable disease epidemiology				
Health program, Policy and Planning	Translating research for health Policy and advocacy	3	1	0	4
Health System Management	Strategic management, Innovations and Entrepreneurship in healthcare				
RMNCH+A	Gender and Health				
TOTAL	*L =Lecture; *T = Tutorial; *P = Practical	18	4	2	24
PH-590	Project Work–Summar: Internship/Survey and dissertation writing & Research Publications				

The students will be asked to make a repository of the research articles according to the subject code. Thereafter, this repository will be updated in the upcoming batches creating a research data base in order to sharpen their research acumen. Workshops; Conferences; Consortia; Seminars; Journal Clubs; Symposia of National/ International level will be organised along with the teaching and training sessions of credit courses.

A workshop on research writing will be organised by the department in order to provide the students with an outline of the research system. In campus health promotional activities will be organised by the students in the form of street plays or putting up posters to sensitise the university on various health issues. Also, various field visits as and when necessary will be undertaken to various SCs, PHCs and CHCs.

The students will be asked to prepare their research synopsis and efforts will be made to submit it in the second semester for which the pilot can be conducted in the mid semester break provided by the university.

**Master in Public Health
(MPH) Odd Semester-3
Teaching & Training Scheme: (Batch: 2020-2022)**

Course Code	Name of the Course	*L	*T	*P	Credit Hours/week
PH-531	Reproductive, Maternal Health, Child Health, and Adolescent (RMNCH+A)	3	1	0	4
PH-532	Introduction to Health Programs and Evaluation	3	0	1	4
PH-533	Environment and Occupational Health	3	0	1	4
PH-534	Law and Ethics in Public Health	3	1	0	4
PH-535	Elective Module III				
Epidemiology	Non-communicable diseases (NCD) epidemiology				
Health program, Policy and Planning	Current issues in health policy: National and Global perspective	3	1	0	4
Health System Management	Advanced Operations Research				
RMNCH+A	Adolescent Health				
PH-536	Elective Module IV				
Epidemiology	Survey Designs and Methods				
Health program, Policy and Planning	Role of Non-governmental Organisations (NGOs) in health care	3	1	0	4
Health System Management	Advanced Financial management and budgeting				
RMNCH+A	Public Health Nutrition				
TOTAL	*L=Lecture; *T = Tutorial; *P = Practical	18	4	2	24
PH-590	Project Work–Summar: Internship/Survey and dissertation writing & Research Publications				

The students will be asked to make a repository of the research articles according to the subject code. Thereafter, this repository will be updated in the upcoming batches creating a research data base in order to sharpen their research acumen.

Workshops; Conferences; Consortia; Seminars; Journal Clubs; Symposia of National/International level will be organised along with the teaching and training sessions of credit courses.

The thesis work will start in the third semester and will continue in the fourth semester. There will be a workshop organised by the department on how to publish the research in the journals of national and international repute.

**Master in Public Health
(MPH) Even Semester-4
Teaching & Training Scheme: (Batch: 2020-2022)**

Course Code	Name of the Course	*L	*T	*P	Credit Hours/ week
PH-590	Internship Training will be undertaken before or after the submission of Masters Research Theses till July: Theses will be submitted by 31 st May, till 5.00 pm of the year. Internship Training period has been made flexible as per the availability of the training slots with the concerned organisation(s).				
Family and Community Study					
PH-600	Field visits & survey, primary data collection, presentation, analysis Masters Research and Thesis Writing Journal Club/ Workshops/Trainings	0	0	0	18
TOTAL	*L =Lecture; *T = Tutorial; *P = Practical				18
<p>The students will be asked to make a repository of the research articles according to the subject code. Thereafter, this repository will be updated in the upcoming batches creating a research data base in order to sharpen their research acumen.</p> <p>Workshops; Conferences; Consortia; Seminars; Journal Clubs; Symposia of National/ International level will be organised along with the teaching and training sessions of credit courses.</p> <p>A workshop on research writing will be organised by the department in order to provide the students with an outline of the research system.</p> <p>In campus health promotional activities will be organised by the students in the form of street plays or putting up posters to sensitise the university on various health issues. Also, various field visits as and when necessary will be undertaken to various SCs, PHCs and CHCs.</p>					

Master in Public Health
Details of the Syllabi & Courses of Study:
Odd semester -1
Teaching & Training Scheme: (Batch: 2020-2022)

Paper-1	Principles and Practices of Public health	Course Code: PH-519
Course Title		
Course Contents:		
Unit-I	Public Health- what it is; causation, prevention, social determinants of health, health systems and health policy	
Unit-II	Health equity	
Unit-III	Environment and health	
Unit-IV	Public Health action	

Paper-2	Introduction to Health System and Policy in Developing Countries	Course Code: PH-520
Course Title		
Course Contents:		
Unit-I	Basic theoretical approaches and concepts used in policy analysis	
Unit-II	Understanding of global and national health policies, including current trends	
Unit-III	Annalise the political system within which policies are made	
Unit-IV	Contextual factors that influence to policy change Changing global health policy environment	

Paper-3	Health Management: Management Principles	Course Code: PH-521
Course Title	and Practices (Strategic Management)	
Course Contents:		
Unit-I	<ul style="list-style-type: none"> -Basic knowledge of health care systems and the environment in which health care managers and providers functions, -Effective management of Health Management Information Systems (HMIS) and its application 	
Unit-II	<ul style="list-style-type: none"> -Health Programme: planning, implementation, Monitoring and Evaluation -Components of strategic management and Project management 	
Unit-III	<ul style="list-style-type: none"> -Behavioral aspects of governmental, faith based and other non – governmental organizations -Introduction to logistics management and Introduction to human resource management 	
Unit-IV	<ul style="list-style-type: none"> -Quality: define quality, its importance in public health, measures to manage and improve equality -Introduction to Operational Research, Risk management - Public Health Leadership 	
Paper4	Basic Epidemiology	Course Code: PH-522
Course Title		
Course Contents:		
Unit-I	<ul style="list-style-type: none"> -History of Epidemiology -Measurements in Epidemiology -Incidence and prevalence - Causation and association -Measures of association 	
Unit-II	<ul style="list-style-type: none"> - Outline of study designs -cross sectional study design ,case control study design -cohort study design -Randomised control trials 	
Unit-III	<ul style="list-style-type: none"> -Introduction to confounding and bias - Screening tests- validity and reliability methods -Disease surveillance - Outbreak investigation 	
Unit-IV	Epidemiology of Communicable and non-communicable diseases	

Paper-5	Principles of social Research Methods and Biostatistics	Course Code: PH-523
Course Title		
Course Contents:		
Unit-I	<ul style="list-style-type: none"> -Objectives of research, Ethical issues in research, Research design -Types of variables, Scales of measurement, -Measures of central tendency, Measures of dispersion 	
Unit-II	<ul style="list-style-type: none"> -Tools and Measurements in research - Types of distribution, Bayes theorem - Sample/sampling and population distribution - Central limit theorem 	
Unit-III	<ul style="list-style-type: none"> - Sample size and sampling, Public health surveillance and research - Type1 and type 2 error and power calculation, P-value and 95% confidence Interval - Parametric and non-parametric test - How to choose the statistical test 	
Unit-IV	<ul style="list-style-type: none"> - Understanding and analysis of Qualitative data and research; Quantitative data and research; Mixed methods - Correlation - Basics of regression - One statistical software (SPSS/Stata) 	
Paper-6	Demography and population sciences	Course Code: PH-524
Course Title		
Course Contents:		
Unit-I	<ul style="list-style-type: none"> - Factors affecting population -Measures of fertility and mortality 	
Unit-II	<ul style="list-style-type: none"> -Standardisation methods -Population growth and projection 	
Unit-III	<ul style="list-style-type: none"> -Demographic transition -Implication of rapid population growth - Demographic dividend or disaster 	
Unit-IV	<ul style="list-style-type: none"> - Life table -Urbanization 	

Master in Public Health
Details of the Syllabi & Courses of Study:
Even semester -2
Teaching & Training Scheme: (Batch: 2020-2022)

Paper-7	Introduction to health economics	Course Code: PH-525
Course title		
Course Contents:		
Unit-I	-Key concepts of economics ,micro and macro economics -Strategizing and prioritizing within scarce resources (decision making)	
Unit-II	-Determinants of demand ,supply and costs of production -Concepts of efficiency, effectiveness, equity, elasticity of demand ,costing production ,marginal cost analysis, and opportunity cost	
Unit-III	-Market model ,market failure ,and the roles and limitations of markets in health care -Universal health coverage and role of health care financing	
Unit-IV	Principles and applications of economic evaluation in health care including Cost Benefit Analysis (CBA) and Cost Effective Analysis (CEA)	

Paper-8	Health promotion approaches & methods	Course Code: PH-526
Course Title		
Course Contents:		
Unit-I	<ul style="list-style-type: none"> • Introduction to health promotion • Foundations for health promotion • Social determinants and health promotion • Communication strategies for health promotion 	
Unit-II	<ul style="list-style-type: none"> • Overview of current national health policies, national health programs their health promotion strategies • Community need assessment for designing an effective health promotion activity 	
Unit-III	<ul style="list-style-type: none"> • Evaluation of health promotion plans • Substance abuse epidemic in parts of India • Smokeless (chewable) and smoked tobacco addictions in parts of India • Drunken driving: social and personal responsibilities and control measures 	
Unit-IV	<ul style="list-style-type: none"> • Stigmatization of health conditions • Behavioural issues in children and teens: substance abuse, suicide patterns • TV and other media as influencers of healthy/non healthy lifestyle 	

Paper-9	Introduction to Financial Management And Budgeting	Course Code: PH-527
Course Title		
Course Contents:		
Unit-I	<ul style="list-style-type: none"> -Introduction to financial management -Tools of financial analysis and planning in health care 	
Unit-II	<ul style="list-style-type: none"> -Cash flow, accounts and balancing budgets -Cost and dividends for health outcomes 	
Unit-III	<ul style="list-style-type: none"> Effectiveness and efficiency Sustainability of Health Programs 	

Paper-10	Social and Behavioral Change, Effective Communication in Health Care	Course Code: PH-528
Course Title		
Course Contents:		
Unit-I	<ul style="list-style-type: none"> -Introduction on sociological perspectives on health -Key concepts in sociology as applied to the study of health -Social and cultural processes impacting health status and access to health services 	
Unit-II	<ul style="list-style-type: none"> -Introduction to behavior change theories and communication, -Information Education and Communication (IEC), -Inter Personal Communication (IPC), -Behavior Change Communication (BCC), -Social Behavior Change Communication (SBCC) 	
Unit-III	<ul style="list-style-type: none"> -Health and human behavior, -Public health problems and its solutions, -Etiquettes and professionalism -Medical anthropology -Public speaking 	
Unit-IV	<ul style="list-style-type: none"> -Verbal vs. Non-verbal communication, -Various forms of written communication, - Evidence based advocacy, -Consensus building, -Using audio visual aid in communication 	

Paper-11	Elective Module I - Epidemiology	Course Code: PH-529
Course Title	Advanced Biostatistics and Epidemiology	
Course Contents:		
Unit-I	Principles of regression, Methods of regression, Linear regression, Logistic Regression, Poisson regression, Cox proportional hazards regression, Regression diagnostics, Introduction to multilevel modelling, Introduction to data imputations and choosing the best method	
Unit-II	Advanced Epidemiology: Directed acyclic graphs and conceptual framework, Confounding bias and methods to reduce confounding, Selection bias Information bias, Measures of validity and reliability, Nested study designs, Advanced designs in clinical trial, Systematic reviews and meta-analysis overview, Epidemiology and management of Vector Borne Diseases, Health measures following disasters, Various public data sources: CRS, SRS, Census, NFHS, DLHS, HMIS, MCTS, etc.	

Paper-11	Elective Module I - Health program, Policy and Planning	Course Code: PH-529
Course Title	Policy components and evaluation of public health programs	
Course Contents:		
Unit-I	<ul style="list-style-type: none"> • Policy making: key components • Policy framework • Stake holders in policy making • Effects of different interest and advocacy groups in influencing health policy • Translating research in policy making Effects of national and international affairs on health policy • Introduction to different national population, disease control, tobacco control, nutrition, maternal and child health policies • Short term versus long term policies • Resources allocation to optimize health • Using research and data to drive good policy making 	
Unit-II	<ul style="list-style-type: none"> • Concepts underlying the design of health programs; • Basic approaches to the design in health programmes, with a focus on low resource settings • Analysis and interpretation of studies/programs • Communication in conducting public health research • National health program in India (including goals, objectives, purposes, organisation, man power, sources, activities, roles and responsibilities) 	

Paper-11	Elective Module I - Health System Management	Course Code: PH-529
Course Title	Organisational management and Effective communication in public health	
Course Contents:		
Unit-I	<ul style="list-style-type: none"> • Components of organization: Purpose, Coordination, Division of labour and Hierarchy • Project management lifecycle • Setting common goals and objectives 	
Unit-II	<ul style="list-style-type: none"> • Analytical thinking • Risk identification and control • Leadership • Priority setting and resource allocation • Why organizations fail? learning from case stories 	
Unit-III	<ul style="list-style-type: none"> • Public speaking • Effective Communication: Verbal versus Non – verbal communication • Various forms of written communication 	
Unit-IV	<ul style="list-style-type: none"> • Evidence based advocacy • Consensus building • Using audio-visual aid in communication • Etiquettes and professionalism 	

Paper-11	Elective Module I - RMNCH+A	Course Code: PH-529
Course Title	Fundamentals of Reproductive Health and MCH services	
Course Contents:		
Unit-I	Reproductive and Sexual Health; Fundamentals of reproductive biology; Adolescent Sexual and Reproductive Health	
Unit-II	Understanding Reproductive Health Policy; Family Welfare and Reproductive Health measures; Reproductive Health programs in India	
Unit-III	Introduction to maternal, new-born and child health programs and their behavioural basis; Historical developments in MCH in India; Reproductive & Perinatal Epidemiology; Prenatal and Infant Growth and Development	
Unit-IV	Issues in the Reduction of Maternal and Neonatal Mortality; Preventing peri-natal and infant mortality; Infectious Disease and Child Survival; Nutrition and Growth in Maternal and Child Health Legislations and programs in MCH	

Paper-12	Elective module II - Epidemiology	Course Code: PH-530
Course Title	Communicable disease epidemiology	
Course Contents:		
Unit-1	Recognize the burden of communicable diseases (CD) affecting the population, Examine factors contributing to the persistence of infectious diseases, Understand reasons for emergence and re-emergence of infectious diseases	
Unit-II	Key concepts covered are: Incubation periods, Epidemic patterns, Modes of transmission, Transmission dynamics, Measures of infectiousness, Secondary attack rates	
Unit -III	Analyze the transmission dynamics of diseases and design appropriate control measures Apply basic infectious diseases epidemiological skills to address major emerging and reemerging communicable diseases Surveillance : Case in point :Integrated Diseases Surveillance Program (IDSP)	
Unit IV	Epidemiology of common communicable diseases like TB, Malaria, Leprosy, Polio, STIs, AIDS, Meningococcal meningitis, Hepatitis B, and Measles, (mathematical models of infection dynamics, outbreak investigation and surveillance, schedules, adverse reactions, contraindications, vaccine efficacy, impact assessment) Live Outbreak investigation; Adverse Event Following Immunization (AEFI) investigation	

Paper-12	Elective module II - Health Program, Policy and Planning	Course Code: PH-530
Course Title	Translating research for health Policy and advocacy	
Course Contents:		
Unit-I	-Different forms of power influential to policy making -Concepts of Governance and Institutions -Different Theories useful in policy analysis	
Unit-II	-Political nature of evidence for policy making in health -Written and verbal competence in communicating evidence to inform policy Critical appraisal of issue in health policy and financing	

Paper-12	Elective module II – Health System Management	Course Code: PH-530
Course Title	Strategic management, Innovations and Entrepreneurship in healthcare	
Course Contents:		
Unit-I	<ul style="list-style-type: none"> • Strategy: various definitions • Major concepts and frameworks in strategic management: SWOT, experience curve, portfolio theory, value chain • Strategic thinking and decision making • Strategic planning: Environmental, scenario, implementation and evaluation • Sustainability • Health informatics, e-Health • Telemedicine, m-Health • Conflicts management and negotiations in business world • Business modelling: preparing your own business model • Peer review of individual business model 	
Unit II	<ul style="list-style-type: none"> • Various sources for financing a new venture :finalize your target audience • Preparing a business speech ,elevator pitch • Innovation in public health • Tele medicine ,m health 	

Paper-12	Elective module II – RMNCH+A	Course Code: PH-530
Course Title	Gender and Health	
Course Contents:		
Unit-I	Define concepts - Gender, vulnerable populations, gender equality and equity and emerging issues; Understand the difference between equity and equality; Understand different forms of social exclusion	
Unit-II	Explain the difference between sex and gender and how these variables, combined with other forms of social exclusion impacts on health a) To increase understanding of the importance, benefits and urgency to identify and reduce barriers and address the needs of women and socially excluded groups, and promote their agency in the context of accessing health care and related information b) To increase understanding of the inter- sectionalism between gender and other types of social exclusion/inclusion and patients’ experiences in accessing and utilizing health services and the impacts on uptake and utilization of services c) To increase understanding of the realities of discrimination from the grass root perspective d) To identify good practices in Gender and Social Inclusion (GSI) within India e) To become familiar with toolkits for including GSI in public health research, programs, policies and advocacy	

Master in Public Health
Details of the Syllabi & Courses of Study:
Odd semester -3
Teaching & Training Scheme: (Batch: 2020-2022)

Paper-13	Reproductive, Maternal Health, Child Health, and Adolescent (RMNCH+A)	Course Code: PH-531
Course Title		
Course Contents:		
Unit-I	<ul style="list-style-type: none"> • Introduction to the RMNCH+A services – historical context, evolution, coverage and innovations • Various components of service delivery under RMNCH+A (including GoI programs) 	
Unit-II	<ul style="list-style-type: none"> • Maternal, New-born and Child Health (MNCH) services in the country • Adolescent health • Role of gender in public health programs 	
Unit-III	<ul style="list-style-type: none"> • Evolution of RCH services in the country – Millennium Development Goals (MDGs) and Sustainable Development Goals (SDGs) 	
Unit-IV	<ul style="list-style-type: none"> • Innovations in service delivery • Framework for evaluation of services 	

Paper-14	Introduction to Health program & Evaluation	Course Code: PH-532
Course Title		
Course Contents:		
Unit-I	<ul style="list-style-type: none"> • Concepts underlying the design of health programs • Basic approaches to the design, analysis and interpretation of health programs 	
Unit-II	<ul style="list-style-type: none"> • Communicate in public health research • Framework to evaluate the effectiveness of health programme implementation 	
Unit-III	<ul style="list-style-type: none"> • Case Study: how to integrate a package of care for a specific problem into a platform of healthcare delivery • Process, outcome and impact evaluation 	

Paper-15	Environmental and Occupational Health	Course Code: PH-533
Course Title		
Course Contents:		
Unit-I	<ul style="list-style-type: none"> • Theories and history of environmental health • Environmental health policy and legal mechanisms in a national and international context • Ecosystems in various settings (linking the built environment, transport, housing and green space to human health) 	
Unit-II	<ul style="list-style-type: none"> • Environmental pollution, waste disposal and treatment • Lifestyle and dietary effects on health, food safety and sanitation • Climate Change & Health 	
Unit-III	<ul style="list-style-type: none"> • Occupational Health: Hazards at workplace and work safety; • Prevention of occupational hazards; Laws related to occupational health; Various government and other schemes for working population in India 	
Unit-IV	<ul style="list-style-type: none"> • Biomedical Waste Management • Management of environmental hazards, natural disasters • Central Pollution Control Board (CPCB) guidelines • Environmental health impact assessment • Climate change and health 	
Paper-16	Laws and Ethics in Public Health	Course Code: PH-534
Course Title		
Course Contents:		
Unit-I	Public health laws and ethics; Role of government in managing health of people; Public health regulations in Indian context; Public health information and privacy; Research ethics in public health; Regulations during emergencies and outbreaks	
Unit-II	Human rights in public health Addressing newer challenges: Bioterrorism, conflicts, and emerging infectious diseases, Public health law in global economy Global health hazards and security Different forms of power, influential to policy making	
Unit-III	Different theories useful in policy analysis Concept of governance and institution	
Unit-IV	Political nature of evidence for policy making in health Written and verbal competency in communicating evidence to inform policy	

Paper-17	Elective Module III - Epidemiology	Course Code: PH-535
Course Title	Non-communicable diseases (NCD) epidemiology	
Course Contents:		
Unit-I	<p>-Describe and understand the epidemiology of NCDs: Cardiovascular diseases, Hypertension, Diabetes mellitus, Cancers, Mental health, Stroke, Burns/trauma/ accidents etc.</p> <p>-Comprehend the upstream and downstream determinants of NCDs</p>	
Unit-II	<p>-Understand the Individual approaches/or high-risk approaches and population based/ or public health approaches to prevent NCDs, Recognize the risk factor approach to prevent non-communicable diseases</p> <p>-Comprehend the Population based/public health approaches to prevention of common NCD risk factors (physical inactivity, tobacco and unhealthy diet)</p> <p>-Comprehend the upstream and downstream determinants of NCDs</p>	
Unit III	<p>-Familiarize with the current projects on targeting the prevention of NCDs including ,innovations in prevention</p> <p>-How prevention of NCDs interlinks with communicable diseases .How women and child health ,health of the girl child links to prevention of NCDs</p> <p>-Recognize economic burden of NCDs and benefits of prevention</p>	
Unit IV	<p>-Comprehend how sustainable development and prevention of NCDs go hand in hand</p> <p>-Comprehend the power of policy and role of environment in the prevention of NCDs</p> <p>-Prevention based screening</p> <p>-Surveillance of cancers including cancer registry</p>	

Paper-17	Elective Module III - Health Program, Policy and Planning	Course Code: PH-535
Course Title	Current issues in health policy: National and Global perspective	
Course Contents:		
Unit-I	<ul style="list-style-type: none"> • Theory explaining public health action, its evolution and application in health policy • Methods of assessing the health impact of different types of policy; national and global perspective 	
Unit-II	<ul style="list-style-type: none"> • Assessing health impacts of different policies across sectors • Impact of health threats and interventions to counter health threats including crisis management 	

Paper-17	Elective Module III - Health system management	Course Code: PH-535
Course Title	Advanced Operations Research	
Course Contents:		
Unit-I	<ul style="list-style-type: none"> • History of operation research and seven stages of OR • Safety, Acceptability, Feasibility and Effectiveness (SAFE) in designing Public Health Interventions • Field interventions and field trials 	
Unit-II	<p>Stage 1: Formulate/define organisational problem Stage 2: Observe the system Stage 3: Create a mathematical model of the problem Stage 4: Model validation and application to the problem Stage 5: Identification of a suitable alternative Stage 6: Results discussion and conclusion Stage 7: Implementation and evaluation of the recommendation</p>	

Paper-17	Elective Module III - RMNCH+A	Course Code: PH-535
Course Title	Adolescent Health	
Course Contents:		
Unit-I	<ul style="list-style-type: none"> • Overview of population health approaches for adolescents • Adolescent Health and Development • The Social Context of Adolescent Health and Development • International Adolescent Health 	
Unit-II	<ul style="list-style-type: none"> • Adolescent Health status in India • Adolescent Health Development - policy and systems • Health issues specific to adolescents: anaemia, teenage pregnancy, menstrual hygiene, obesity, mental health promotion and illness prevention, substance use prevention, violence, media etc. 	

Paper-18	Elective Module IV - Epidemiology	Course Code: PH-536
Course Title	Survey Designs and Methods	
Course Contents:		
Unit-I	<ul style="list-style-type: none"> • Pre survey formative research • Sampling and sample size calculations • Ethical issues in surveys, Tool development • Conduct of surveys, Quality control and assurance in survey 	
Unit-II	<ul style="list-style-type: none"> • Survey data analysis • Identify appropriate research designs for a range of questions in health • Describe the steps involved in planning and conducting a research project • Evaluate the strengths and weaknesses of various data collection methods. 	

Paper-18	Elective Module IV - Health Program, Policy and Planning	Course Code: PH-536
Course Title	Role of Non-governmental Organisations (NGOs) in health care	
Course Contents:		
Unit-I	<ul style="list-style-type: none"> • Health service delivery and program Implementation • Research and evidence generation • Training and education 	
Unit-II	<ul style="list-style-type: none"> • Inter-sectoral coordination in health including Public Private Partnership • Advocacy and planning in health care 	

Paper-18	Elective Module IV - Health system management	Course Code: PH-536
Course Title	Advanced Financial management and budgeting	
Course Contents:		
Unit-I	<ul style="list-style-type: none"> • Introduction to financial management • Tools of financial analysis and planning in healthcare • Cash flow, accounts and balancing budget 	
Unit-II	<ul style="list-style-type: none"> • Cost and dividend for health outcomes • Effectiveness and efficiency • Sustainability of health programs 	

Paper-18	Elective Module IV - RMNCH+A	Course Code: PH-536
Course Title	Public Health Nutrition	
Course Contents:		
Unit-I	<ul style="list-style-type: none"> • Appreciate the basic concepts and principles of foods and nutrition relevant to human health, Summarize population based dietary and nutritional recommendations • Define the concept, purpose and scope of Public Health Nutrition , Understand the definition, utility and applications of epidemiology in nutritional sciences • Recognize the role of community nutrition in improving human health • Utilize suitable data and assessment methodologies to conduct community needs assessment • Recognize the pillars of a healthy community 	
Unit-II	<ul style="list-style-type: none"> • Identify the most relevant nutrition concerns in the community at present and enlist strategies for their prevention and management (Adolescent, Women, Maternal and child under-nutrition, nutrition transition, over-nutrition and chronic diseases) • Demonstrate an understanding of principles of nutrition education and enlist the steps of developing nutrition education programs • Demonstrate an understanding of project planning and management in nutrition programmes • Demonstrating an understanding of principles of nutrition education and enlist the steps of developing nutrition education program <ul style="list-style-type: none"> • Appreciate inter-sectoral nature of nutrition and food policy • Enlist the features of various ongoing nutrition program • Under /over nutrition 	

INTERNSHIP

Two months' internship will be undertaken by all the candidates with an aim to integrate learning and practice in an active public health organisation. This can be undertaken at governmental or non-governmental public health organisations or program management units. The internship should include the candidate's role and support in assessing, monitoring, or conducting surveillance of health problems/services in a population; research on population-based health problems; developing and/or implementing policies and intervention strategies to meet public health needs. Overall it should contribute to the organisation, and should help in understanding public health management and coordination and gaining personal confidence and leadership experience. Although finding a suitable internship opportunity lie with the candidate him/herself, mentors will facilitate the process. After the completion of 2 months of internship, candidates will be expected to submit a brief summary of public health program/challenge dealt with and solution proposed/implemented by the candidate at the end of second semester. Candidates should submit their project plan and preliminary time scale with their chosen topic for dissertation at the end of the internship to their mentor/tutor to seek appropriate approvals before embarking on the full investigation and project. **The internship is worth two (2) credits.**

DISSERTATION

At the end of the fourth semester, candidates will submit their **dissertation** on previously chosen and approved topic for assessment. **This will be a 10 credit course.** The dissertation will be evaluated by an internal examiner (60% weightage) and an external examiner (40% weightage) including a viva-voce.