Distance Learning

Prospectus

Session: 2016-2017

Post Graduate Diploma In Applied Epidemiology



National Institute of Health and Family Welfare Munirka, New Delhi -110067.

1

DATES TO REMEMBER

SI. No.	ITEM SUBMISSION	LAST DATE	LAST DATE (With late fee of Rs.500/-)
1	Completed application form with fees	31 st May, 2016	15 th June, 2016
2	Assignment I	30 th Dec, 2016	16 th Jan, 2017
3	Assignment II	31 st March, 2017	14 th April, 2017
4	Project Report	15 th May, 2017	31 st May, 2017

- a. Application forms submitted to NIHFW without enclosing the requisite course fee of Rs.21,000/- (Rupees twenty-one thousand only) in the form of Bank draft in favour of Director, NIHFW payable at New Delhi, would not be accepted.
- b. Late fee of Rs.500/- (Rupees five hundred) for each item to be submitted separately in the form of Demand Draft, in favour of Director, NIHFW, payable at New Delhi.
- c. Submission of the above items at Nos. 2, 3, 4, after last date will not be valid for eligibility to sit in the examination in the current year, under any circumstances. However, she/he will be eligible to appear in the examination in subsequent years as stated at Para 3 of the prospectus.
- d. If the last date happens to be a Govt. holiday, the last date will automatically be extended to the next working day.

SI. No.	ACTIVITY	TENTATIVE DATE
1	1 st Contact Session	November/December ,2016*
2	2 nd Contact Session	March/April, 2017*
3	Final Examination	July/August, 2017*

- *The exact date for the commencement of above activities will be posted at the NIHFW web site: www.nihfw.org
- All are directed to visit the NIHFW web site regularly to keep them up to date with the latest information on the respective distance learning courses.

1. Introduction and Rationale About the Institute

With the adoption of new strategy of delivering both Health and Family Welfare Services as an integrated package during the Fifth Five Year Plan period, Government of India recognized the need for an independent agency which could act as an apex technical institution, both in the field of Health and Family Welfare. Consequently on March 9, 1977 the National Institute of Health and

Family Welfare (NIHFW) came into existence by the merger of two erstwhile autonomous organizations previously named as National Institute of Family Planning (NIFP) and National Institute of Health Administration and Education (NIHAE) which were established in the year 1962 and 1964 respectively. NIHFW since then has been functioning as a multi-disciplinary Institute under the Ministry of Health and Family Welfare, Government of India.

NIHFW has been engaged in providing Education and Training to health manager through its regular courses of MD (CHA), DHA and other in service training programs. The Post Graduate Diploma in Public Health Management started in 2008-09 in collaboration with MOHFW has gained popularity nationwide. However the in service training arrangements have not been able to meet the demands expeditiously. Moreover, there is a need for continuous and consistent training in management especially for management of district health system.

In order to facilitate continuous up gradation of knowledge and skills of various health personnel across the country, NIHFW conducts the following courses through distance learning mode:

- (i) Post Graduate Diploma in Health and Family Welfare Management
- (ii) Post Graduate Diploma in Hospital Management
- (iii)Post Graduate Diploma in Health Promotion
- (iv)Post Graduate Diploma in Applied Epidemiology
- (v) Post Graduate Diploma in Health Communication
- (vi)Post Graduate Diploma in Public Health Nutrition

2 About the Programme

2.1. Importance of the Programme:

A pragmatic approach with a focus on issues of major health and socioeconomic concern is vital for the development of successful public health services. Striking a balance between different service providers after taking into account overall resource constraints, efficacy of service delivery and welfare gains is a key challenge. Among the other challenges facing the public health community is the need for coordinated multi-sectoral approaches to preventing and controlling complex disease problems.

Epidemiology—once viewed by health care executives as a fringe element of public health—is in fact an essential discipline for the management of contemporary health systems. Knowledge of health and disease in a population is as important to the health care executive as it is to the public health officer. The on-going evolution of health care administration requires additional disciplines and tools. Epidemiology has a wealth of principles and applications that will affect planning, marketing, quality control, and policy formulation, which are fully dependent on epidemiologic data. It is

now however, increasingly becoming evident that Epidemiology needs to move beyond the traditional biomedical sciences based approaches to the study of sociocultural determinants, impact of disasters and climate change.

To enhance the capacity of health systems of the states in the shortest possible time; the National Institute of Health and Family Welfare (NIHFW) developed a **Post Graduate Diploma in Applied Epidemiology**; which is now delivered through Distance Learning.

NIHFW, with the financial assistance from The Institutional and Technical Strengthening Project (ITS) a part of the European Union and Government of India (EU-GoI) Sector Policy Support Programme to the National Rural Health Mission (NRHM) and the Reproductive and Child Health II (RCH-II), developed this course.

This programme endeavours to build capacity in using analytic tools and processes to critically analyse information received thereby adapting a pro-active approach to decision-making whenever public health action is warranted.

2.2. Nature of the Diploma Course

This course has been designed keeping in mind the requirement of personnel who practice various applications of epidemiology to priorities health issues, plan for their mitigation and implement the same in the field. It will also help the participants acquire skills to operate and strengthen the public health surveillance and response systems for *both communicable and non-communicable diseases* and disasters and use the information for more effective detection, control, and prevention.

3. Details of the Course

- i. The total duration of the course is one year.
- ii. The course comprises of theory and practical components.
- iii. Once admitted to the course, the candidate will get an opportunity to appear for the examination in four successive years including the year of admission without payment of the course fee again. However, he/she has to deposit a continuation fee of Rs.500/- (Rupees five hundred) only in the year in which they want to complete the course.
- iv. After 4 years the candidate has to re-enrol as a fresh candidate again with the re-submission of application and requisite course fee.

4. Medium of Study

The medium of study is English. The course is imparted by means of supplying printed study materials for self study and through two contact programs, submission of assignments and project report.

5. Eligibility

SI. No.	QUALIFICATION	ELIGIBILITY
1.	All Medical Graduates: MBBS/ AYUSH/ Dental / Diploma in Public Health	Must be registered with concerned State Council or Indian Medical Council. Doctor qualifying MBBS from abroad must clear the MCI test.
2.	PHN/ B.Sc. Nursing	One Year of field experience in Public Health as on 31 st May,2016.
3.	Masters/ Graduation in Science/Social Science / Epidemiology / Statistics	Two Years experience of working in Public Health Field as on 31 st May,2016.

Who should attend?

- Professionals working in public and private health organizations, disease control agencies and field situations, who seek to acquire knowledge about application of epidemiologic principles and methods
- Graduates who seek knowledge for further (personal) professional development.

6. Objectives of the Course

The candidates on successful completion of the course will be able to:

- 1. Acquire knowledge of various epidemiological techniques and uses of epidemiology.
- 2. Conduct Epidemiological investigation into disease causation and outbreak.
- 3. Demonstrate ability to use the skills related to epidemiology for improvement in health system.

7. Course Design

The entire course has been divided into four parts.

- (i) Self reading by candidates:
 - Each candidate must devote at least 600 hours for the course study materials in the year
 - Test question practice at the end of each chapter (Check your progress) to assess knowledge gain.
- (ii) Internal Assessment
 - Writing Assignments
 - Attendance in the contact sessions
 - Proiect work
- (iii) Theory Component
 - Final Theory examination
- (iv) Practical Component
 - Final Practical Examination

8. The Curriculum

The curriculum is divided into 6 Courses consisting of 20 blocks. The sixth course gives the guidelines for the project work. The break-up of the curriculum is given below:

Course	Block	Unit No.	Unit Title
	I. Introduction to	1.	Advent of Epidemiology in the arena of
Course 1:	Epidemiology	''	Public Health
Principles and		2.	Epidemiology in public health practice
methods of		3.	Measuring Health and Disease
Epidemiologic		4.	Measuring Disease Frequency
practice	II. Epidemiologic Study	5.	Observational Studies:
	Designs		A. Descriptive Studies; B. Ecological
			Studies
		6.	Analytic Studies Designs: Cohort Studies
		7.	Analytic Studies Designs: Case-control Studies
		8.	Interventional Studies: Experimental Studies
	III. Ethics	9.	Ethics in Human Research
	III. Ettilos	10.	Ethics in Bio-medical Research
		10.	Publications
Course 2:	I. Scales of	11.	Measurement Scales
Basic	Measurement	12.	Measures of Central Location and
BioStatistics			Dispersion
		13.	Normal distribution
	II. Tests of Significance	14.	Measures of Association and Effect
		15.	Confidence interval
		16.	Parametric tests of significance
	III. Sampling	17.	Sample Size
		18.	Sampling Techniques
	IV. Interpretation of epidemiologic study	19.	Interpretation of Statistical Analysis
		20.	Causality
	data	21.	Data Analysis
	V. Use of Routine Data	22.	HMIS
	for Epidemiologic Purpose	23.	Data Analysis
	I. Infectious Diseases:	24. 25.	Data Triangulation Epidemiology of communicable diseases
Course 3A:	Epidemiology and,	26.	Lpideimology of communicable diseases
Epidemiology	Control and	20.	Control of communicable diseases
of Diseases of	Prevention		Control of confindational diodecco
Public Health	II. Recent Trends of	27.	Major types of Non-communicable
importance:	Non-communicable		diseases (NCDs)
Communicabl	Diseases (NCDs)	28.	Morbidity and Mortality due to NCDs
e diseases -	III. NCD Prevention	29.	Levels of Prevention of NCDs
control and prevention		30.	Concept and Criteria for Screening of NCDs

		31.	Programs for Prevention of Non-
Course 3 B:			communicable diseases in the country
Epidemiology	IV. Emerging Challenges	32.	Diseases due to changing demographics
of Diseases of			and lifestyles
Public Health		33.	Newer Emerging Infectious Diseases
importance:		34.	
Non- Communicabl			
e diseases –			Disease prioritization
control and			
prevention			
•	I. Surveillance – Why?	35.	Introduction to Surveillance in Public
			Health
		36.	Surveillance system in the country
	II. Establish and Manage	37.	Establish a surveillance system
Course 4 A:	a Public Health Surveillance System	38.	Operationalize Surveillance System
Public Health	Surveillance System	39.	Surveillance data collection and analysis
Surveillance,	III. Outbreak Detection	40.	Investigation of an Outbreak
Disasters and Response	and Response	41.	Causal and Support Hypothesis
Response		42.	Public Health Response to an Outbreak
	IV. Disasters	43.	Types of Disasters
		44.	Bioterrorism Warfare
		45.	Emergency preparedness and response
0	I. Public Health	46.	Laboratory structure
Course 4 B: Working with	Laboratories	47.	Diagnostic functions
Public Health	II. Validate Field	48.	Analyse and interpret laboratory data
Laboratories	Findings	49.	Specimen collection and management in
			the field
	I. Health Systems	50.	Concept of Health Systems Research
Course 5:	Research	51.	Write a problem statement
Health	II. Scientific Manuscripts	52. 53.	Writing an abstract Creating Scientific reports
Research		54.	
Methodology		<u> </u>	Writing a grant application
Course 6:			
Project Work			
Practical	·	55 - 64	Will include exercises on surveillance,
Manual		(10 Linita)	outbreak investigation, demonstrations on
	-	Units)	laboratory management and guided
	III. Training on		sessions on how to conduct a health
	Statistical Packages IV. Case Studies		research.
	IV. Case Studies		

9. The Project Work

- Selection of the topic will be done in 1st contact session.
- Synopsis of one page inclusive of Title, objectives & methodology to be submitted before start of project work.
- Project should ordinarily not exceed 15000 words. For details, please refer to detailed guide lines in the project module.
- The project should be submitted as per last date notified, failing which the candidate will be debarred from appearing in final examination of the current session; however he/she can appear in subsequent years after submitting the project.
- The date of submission of project is 15th May, 2017, extended up to 31st May 2017 with late fees of Rs.500/- (Rupees five hundred) only.

10. Contact Programs

There will be two contact programs of 5 days duration each:

- (i) November/December,2016
- (ii) March/April, 2017

The contact programs will be held in program study centres. The exact date and place of contact session will be put on the Institute Web site. The themes covered in contact programme are:

1st Contact Programme

Course	Block		Unit No.	Unit Title
Course 1:		О	1.	Advent of Epidemiology in the arena of
Principles and	Epidemiology			Public Health
methods of			2.	Epidemiology in public health practice
Epidemiologic			3.	Measuring Health and Disease
practice			4.	Measuring Disease Frequency
	II. Epidemiologic		5.	Observational Studies:
	Study Designs			A. Descriptive Studies; B. Ecological
				Studies
			6.	Analytic Studies Designs: Cohort
				Studies
			7.	Analytic Studies Designs: Case-control
				Studies
			8.	Interventional Studies: Experimental
				Studies
Course 2:	I. Scales of		9.	Measurement Scales
Basic	Measurement		10.	Measures of Central Location and
BioStatistics				Dispersion
			11.	Normal distribution

Course	Block	Unit No.	Unit Title
	II. Tests of	12.	Measures of Association and Effect
	Significance	13.	
		14.	Parametric tests of significance
	III. Sampling	15.	Sample Size
		16.	Sampling Techniques
	IV. Interpretation	17.	Interpretation of Statistical Analysis
	of epidemiologic	18.	,
	study data	19.	,
Course 4 A: Public Health	I. Surveillance – Why?	20.	Introduction to Surveillance in Public Health
Surveillance,		21.	Surveillance system in the country
Disasters and	II. Establish and	22.	Establish a surveillance system
Response	Manage a Public	23.	Operationalize Surveillance System
	Health Surveillance System	24.	Surveillance data collection and analysis
	III. Outbreak	25.	Investigation of an Outbreak
	Detection and	26.	Causal and Support Hypothesis
	Response	27.	Public Health Response to an
			Outbreak
	IV. Disasters	28.	Types of Disasters
		29.	
		30.	Emergency preparedness and
			response
	I. Health Systems	31.	Concept of Health Systems Research
Health Research Methodology	Research	32.	Write a problem statement

Course 6- Project Work 2nd Contact Programme

Course	Block	Unit No.	Unit Title
Course 1: Principles and	I. Ethics	1.	Ethics in Human Research
methods of Epidemiologic practice		2.	Ethics in Bio-medical Research Publications
Course 2:	I. Use of Routine	3.	HMIS
Basic	Data for	4.	Data Analysis
BioStatistics	Epidemiologic Purpose	5.	Data Triangulation
Course 3A: Epidemiology	I. Infectious Diseases:	6.	Epidemiology of communicable diseases
of Diseases of	Epidemiology and,	7.	Control of communicable diseases

Public Health	Control and		
importance:	Prevention	•	
Communicable	II.Recent Trends of	8.	Major types of Non-communicable
diseases -	Non-		diseases (NCDs)
control and	communicable	9.	Morbidity and Mortality due to NCDs
prevention	Diseases (NCDs)		, ,
Course 3 B:	III. NCD	10.	Levels of Prevention of NCDs
Epidemiology	Prevention	11.	Concept and Criteria for Screening of
of Diseases of			NCDs
Public Health		12.	Programs for Prevention of Non-
importance:			communicable diseases in the country
Non-	IV. Emerging	13.	Diseases due to changing
Communicable	Challenges		demographics and lifestyles
diseases-	J - 3 - 3 - 3	14.	Newer Emerging Infectious Diseases
control and		15.	Ŭ Ü
prevention			Disease prioritization
Course 4 B:	I. Public Health	16.	Laboratory structure
Working with	Laboratories	17.	Diagnostic functions
Public Health	II. Validate Field	18.	Analyse and interpret laboratory data
Laboratories	Findings	19.	Specimen collection and management
			in the field
Course 5:	I. Scientific	20.	Multip property of
Health	Manuscripts		Writing an abstract
Research		21.	Creating Scientific reports
Methodology		22.	Writing a grant application
	I. Data Analysis		5 5 11
	II. Training on		
	Statistical		
	Packages		
	III. Case Studies		

Each contact program carries a weightage of 20 marks. 10 marks are for attendance and 10 marks are for assessment of feedback during contact session.

- Full attendance in contact classes is compulsory
- Candidates may bring with them the queries on the relevant topics for discussion during contact session.
- The candidates have to attend the contact programs at their own cost at the identified centre.
- The allocation of the center for contact programs will be notified in NIHFW website.

11. Assignments

- Students are required to write 2 sets of assignments.
- The assignment question papers will be posted on the institute web site (www.nihfw.org).

- All the assignments will be **hand written** in A-4 size paper.
- Illustration with diagrams, tables, examples will help to get good marks.
- Each assignment should be written in separate note book.
- Photocopy of any printed material in the assignment or **typed assignments** will not be accepted.
- Assignments received after due date will debar the candidate to sit in the final examination of the current year. However he/she can appear in the subsequent year.
- Each assignment will carry a weightage of 30 marks. It will be included in theory internal assessment.
- A photo copy of each assignment is to be retained by the student for future reference.
- Assignments can be written in Hindi also.

Item	Due date of Submission	With late fees. of Rs.500/- by DD
Assignment - 1	30 th Dec, 2016	16 th Jan,2017
Assignment - 2	31 st March, 2017	14 th April, 2017

If the last date happens to be a Government Holiday, the period will automatically extend to the following working day.

Assignments should be sent by registered post along with a self-addressed post card for acknowledgement in the following address.

Applied Epidemiology Unit Distance Learning Cell Room No. 417, 4th Floor, Academic Block, NIHFW, Baba Gangnath Marg Munirka, New Delhi-110067.

12. Course Evaluation

The diploma course has two tiers of evaluation.

- (i) Formative
- (ii) Terminal

(i) Formative Evaluation (During the course)

Internal Assessment

- Attendance with feedback in the contact program.
- Submission of assignment within stipulated date.
- Submission of project report within stipulated date

(ii) <u>Terminal Evaluation (Final Exam.)</u>

- (A) Theory Paper-I Theory Paper-II
- (B) Practical will comprise of problem solving tests in respect of various issues in applied epidemiology from the practical manual and spotting.

Note: The details about Practical will be discussed during contact session.

- (C) Viva voce
 - Project Viva
 - Grand Viva

13. Qualification for appearing in Final Examination

- Submission of assignments on time.
- Submission of Project Work on time.
- Full attendance in the contact sessions.
- Internal Assessment 50% marks in
 - a. Assignments
 - b. Contact Programs
 - c. Project Work

14. Distribution of Marks

•	Theory Paper I	100
•	Theory Paper II	100
•	Practical	50
•	Viva Voce	50
•	Internal Assessment	150
	o (Assignments – 60, C	ontact sessions – 40, Project – 50)
•	Total	450

Note:

- Any candidate caught using unfair means during examination will be debarred from appearing in examination for a period of three years.
- Any request for appearing for final examination after the extended period of 4
 years including the year of admission will not be entertained with the same
 course fees.

15. Re-Evaluation

There is no provision for re-evaluation.

16. Examination Result

A candidate will be declared pass if he/she secures:

- 50% in aggregate = 225 out of 450 and
- 50% in aggregate in Theory = 100 out of 200 and
- 50% in aggregate in Practical & viva = 50 out of 100

If a candidate passes in theory and fails in practical component he or she will reappear in practical component only.

If a candidate fails in theory and passes in practical component, he/ she will reappear for theory only.

Results for theory and practical components will be declared separately.

17. Best Student Award

The Candidate who obtains highest aggregate marks will be honored with 'Best student award" (A medal with certificate) on 9th March (Annual day of the Institute) of the following year. However it will be only be applicable to the Current Batch candidate.

18. Examination Venue

The final examination will be held in the NIHFW campus, New Delhi. For the State sponsored candidate the examination will be held in the respective state institutes.

19. Type of Fees

- Course admission fee Rs.21,000/- [Rupees twenty one thousand only] including 1st year examination fee.
- Prospectus with application form can be downloaded from the website www.nihfw.org.
- Once the application with requisite fees is received in this office, no request for withdrawl is permissible and fees deposited will not be refunded in any circumstances.
- The fee will be refunded only to those, who have not been selected for the course by the screening committee.
- Those who fail to complete the course in the same year have to deposit a continuation fee of Rs.500/- in subsequent years in which candidates want to complete the course.

• All types of fees to be deposited separately by Demand draft drawn in favor of "Director, NIHFW" payable at New- Delhi.

20. Duplicate Certificate/Mark Sheet

For successful candidates a duplicate certificate can only be issued under following conditions:

- A written request for duplicate certificate giving valid reasons
- A penalty fee of Rs.500/- (Rupees five hundred) only in the form of demand draft.
- An undertaking to the effect that the original certificate has been lost to best of his knowledge attested by a Notary or copy of police FIR.

21. How to Apply

- a. A candidate seeking admission to the course is required to send his/her application in the prescribed format, given at the end of the prospectus duly completed, along with requisite fees.
- b. Following enclosures must be attached along with the application form:
 - Demand draft of requisite amount.
 - Self attested copy of certificate of Birth.
 - Self attested copy of relevant degree certificate.
 - Copy of Registration certificate with respective National / State council.
 - Experience certificate from the Employer, if any.
 - No objection certificate from the employer, for those in Govt. services.

Incomplete application in any respect is likely to be rejected.

The duly completed, legible application form along with enclosures should be submitted by hand / or through registered/Speed post to:

Applied Epidemiology Unit,
Distance Learning Cell
Room No. 417, 4th Floor,
Academic Block,
NIHFW,
Baba Gangnath Marg Munirka,
New Delhi-110067

On or before the following dates:

- a. 31st May, 2016 without late fee.
- b. **15thJune**, **2016** with late fee of **Rs.500/-** (Rupees five hundred only) in the form of demand draft.

22. Selection

- a. Selection will be made by a selection / screening committee of NIHFW and only the selected candidates will be informed accordingly.
- b. The list of selected candidates will be up loaded in the institute web site.
- **c.** The decision of the committee will be final and binding. No correspondence in this regard will be entertained.

All communications may be mailed to:

Applied Epidemiology Unit,
Distance Learning Cell
Room No. 417, 4th Floor,
Academic Block,
NIHFW,
Baba Gangnath Marg Munirka,
New Delhi - 110067

Web Site: www.nihfw.org

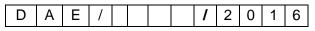
Phone Direct: 91-11-26183416

Phone EPBX: 91-11-26165959, 26166441, 26188485, 26107773

Ext: 336, 239, 240 FAX: 91-11-26183416

E.mail I.D. - dae@nihfw.org

Enrolment No.
(to be filled by the office)







NATIONAL INSTITUTE OF HEALTH AND FAMILY WELFARE NEW DELHI – 110067

APPLICATION FORM FOR ADMISSION TO P.G. DIPLOMA IN APPLIED EPIDEMIOLOGY

THROUGH DISTANCE LEARNING

BATCH 2016 – 2017																					
COURSE FEE Rs.21, 000/- (Rupees Twenty one thousand only) through Demand Draft drawn in favour of the Director, NIHFW, payable at New Delhi																					
Demand Draft No.												AFFIX RECENT									
Dated D	D M M Y Y Y Y													PASSPORT SIZE PHOTOGRAPH							
Drawn on Bank and Branch																					
Name of the Applicant in full (Block Letters)	In English Dr / Mr / Ms																				
	In Hindi (as you would like it on the certificate)																				
2. Sex	Male Female																				
3. Father's/Husband's Name																					
4. Date of Birth				L										D	D	М	М	Υ	YYY		
5. Present Designation & Official Address	District: State: Pin Code:																				

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7. Mailing Address																					
	District:																				
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toSC/ST/OBC/PH		Te																No			
12. Examination Passed	Examination Passed Subject / Discipline Board / University & College												Year			Division					
Graduate in any discipline (Mention the discipline in the column)	Examination	Sui	bject	DISC	ipiine				oaru /	Oniv	/ersit	y & C	ollege	•		Year		INISION			
and disciplinio in the defanini,																					
										-											
13. Total experience of working (in years)																		Yea	rs		
14. Kindly enclose the experience	Service Reco	ord (s	starti	ng fr	om p	orese	nt en	nplo	ymer	nt)											
certificates (present/past) and all the attested copies of	Designation				0	Organization/Institution From To												_			
testimonials mentioned in the application form, duly signed	1.														_						
by Competent Authorities.	2.																				
	3.																				
																					_
15. From where did you get to know about this course?												_									
	Newspaper				Instit	tution	al we	bsite	:			Jo	ourna	ıls				Oth	ers		
			L	-													'				
I declare that the particulars give	en above are al	ll corr	rect t	o the	e bes	on by t t of m f NIHI	ny kno	owle	dge a	and b	elief.	l wil	l, on	admi	ssio	n, ad	here	to th	e rule	s and	d
Name					Signature						 Date										
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