



Dr. Harisingh Gour Vishwavidyalaya
(A Central University)
Sagar (MP)



GLOBAL INITIATIVE OF ACADEMIC NETWORKS



MHRD

Ministry of Human Resource Development
Government of India

**A Course Under
GLOBAL INITIATIVE OF ACADEMIC NETWORKS
Government of India**

on

Epidemiological Research Methods and Analysis

(19-24 February 2018)

Expert Foreign Faculty
Dr. Agnihotram V. Raman Kumar
Adjunct Professor
Dept. of Oncology, McGill
University, Montreal,
Canada

Dr. Reena Basu
Assistant Director
Population Research Centre
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REPORT

Epidemiological research has expanded its tools to accommodate advances in molecular biology and genetics to understand the progressive of disease and their interaction with environmental causes and genetic factors. Modern epidemiology methods should provide a remarkable opportunity for monitoring the occurrence of disease and temporal trends in risk factors, social policies, and medical practices that affect disease. On the other hand, regulatory bodies, ethics review boards, funding agencies, and medical journals audit the strict requirements of these methods on various aspects of research such as unbiased design, appropriative patient recruitment process, and analytical strategies, etc.

On week course under GIAN was organized by PRC Sagar. Professor Agnihotram V Raman Kumar, (foreign faculty) from Dept. Of Oncology, McGill University, Montreal, Canada delivered ten lectures during 19th -24th February, 2018. Host faculties were Reena Basu and Nikhilesh Parchure from PRC, Sagar. Out of 25 participants, 10 of them were faculty members from medical college and 15 were students from different universities. This course featured a combination of lectures, discussions, and classroom presentations. The course covered the following areas: Fundamentals of epidemiological research, overview, and concepts, epidemiological study designs, observational, case-control studies, overview of cohort, retrospective, prospective designs. randomized clinical trials (RCT), Phase I-IV; their relevance; problems, understanding the strengths and limitation of various designs, ethics, conduct, and management issues in epidemiological research analyses, strategies using latest multivariate techniques, (GEE, GLIM,etc.), identifying sources of bias, confounding and effect modification and important aspects of epidemiological research/study proposal and important aspects of epidemiological reports (or) research paper. Context of study and failure in epidemiological research, practice issues, new research ideas and discussion on future plans and possibilities for collaborations, developing research study / proposals in new epidemiological areas were also deliberated upon.

This course provided basic approaches and tools according to the changing landscape of clinical studies as discussed above. This training facilitated to enhance the skills of the future researchers towards their career development. The host faculty interacted with the foreign faculty and several university faculties also participated and interacted. Discussions were held between the vice- chancellor and foreign faculty about collaborating for Massive Open Online Courses (MOOC) programme for university students.

Total expenditure on the course was Rs.4,12,592 whereas budget was Rs.5,44,000.

COURSE SCHEDULE		
February 19, 2018 Monday		
Registration of Participants	09:30–10:00 am	
Inaugural Function	10:00–11:00 am	
High Tea	11:00–11:30 am	
Lecture 1 <i>Prof. A.V. Raman Kumar</i>	11:30 am–01:00 pm	Fundamentals of epidemiological research, overview and concepts
Lunch Break	01:00–01:45 pm	
Lecture 2 <i>Prof. A. V. Raman Kumar</i>	01:45–03:15 pm	Epidemiological study designs, observational, case-control studies
Tea Break	03:15–03:30 pm	
Tutorial 1	03:30–05:00 pm	Examples studies, review the best research in the literature
February 20, 2018 Tuesday		
Lecture 3 <i>Prof. A.V. Raman Kumar</i>	10:00–11:15 am	Overview of cohort, retrospective, prospective designs
Tea Break	11:15–11:30 am	
Lecture 4 <i>Prof. A. V. Raman Kumar</i>	11:30 am–01:00 pm	Randomized clinical trials (RCT), Phase I-IV; their relevance; problems
Lunch Break	01:00–02:00 pm	
Tutorial 2	02:00–05:00 pm	Examples of the cohort, RCT studies, review of some of best studies.
Tea Break	03:45–04:00 pm	
February 21, 2018 Wednesday		
Lecture 5 <i>Prof. A.V. Raman Kumar</i>	10:00–11:15 am	Understanding the strengths and limitation of various designs
Tea Break	11:15–11:30 am	
Lecture 6 <i>Prof. A. V. Raman Kumar</i>	11:30 am–01:00 pm	Ethics, conduct, and management issues in epidemiological research
Lunch Break	01:00–02:00 pm	
Tutorial 3	02:00–05:00 pm	Practical issues, new research ideas
Tea Break	03:45–04:00 pm	
February 22, 2018 Thursday		
Lecture 7 <i>Prof. A.V. Raman Kumar</i>	10:00–11:15 am	Identifying sources of bias, confounding and effect modification
Tea Break	11:15–11:30 am	
Lecture 8 <i>Prof. A. V. Raman Kumar</i>	11:30 am – 01:00 pm	Analyses strategies using latest multivariate techniques (GEE, GLIM, etc.)
Lunch Break	01:00–02:00 pm	
Tutorial 4	02:00–05:00 pm	Context of study and failure in epidemiological research
Tea Break	03:45–04:00 pm	
February 23, 2018 Friday		
Lecture 9 <i>Prof. A.V. Raman Kumar</i>	10:00–11:15 am	Important aspects of epidemiological research/study proposal
Tea Break	11:15–11:30 am	
Lecture 10 <i>Prof. A. V. Raman Kumar</i>	11:30 am–01:00 pm	Discussion on future plans and possibilities for collaborations: Developing research study/proposals in new epidemiological areas
Lunch Break	01:00–02:00 pm	
Tutorial 5	02:00–05:00 pm	Open Discussion and Evaluation of participants
Tea Break	03:45–04:00 pm	
February 24, 2018 Saturday		
Valedictory	11:00–12:00 noon	Valedictory and certificate distribution
High Tea	12:00 noon	

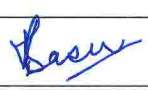






Global Initiative of Academic Network (GIAN) Programme
Population Research Centre
Department of General and Applied Geography
Dr Harisingh Gour Vishwavidyalaya, Sagar, M.P.
Report on Conduct of GIAN Course

Title of GIAN Course	Epidemiological Research Methods and Analysis	
GIAN Course ID	174046G06	
Period of Course	19 th February to 24 th February 2018	
Name and Department of Faculty from <host Institute>		
Course Coordinator		
Name	Dr Reena Basu	
Department	Population Research Centre (Dept. of General and Applied Geography)	
Co-host Faculty, if any		
Name	-	
Department	-	
Name and Affiliation of International Faculty		
Name	Dr.Agnihotram V. Raman Kumar	
Affiliation	Dept. of Oncology, McGill University, Montreal, Canada	
Name and Affiliation of National Faculty, if any		
Name	-	
Affiliation	-	
Structure of the Course		
Duration of course (1 week or 2 weeks)	1 week	
Number of credits (1 or 2)	1	
Total number of lectures in the course	10	
Number of lectures by International Faculty	10	
Number of lectures by Host Faculty	05	
Number of hours of laboratory/tutorial sessions	10	
Participants of the Course		
Number of student participants	15	
Number of participants from Industry/ Research Organisations	-	
Number of Faculty participants	10	

Total Number of participants	25
Number of participants who credited for the course	24
Course Generated Fund	
Sponsorship, if any (in Rs.)	-
Registration Fee Collected	25000
Total amount	25000
Interaction with International Faculty	
<u>Interaction of Host Faculty:</u>	
The host faculty of the University interacted with the foreign expert faculty member actively. The foreign faculty actively with the participants, host faculty and with several faculties from different departments. Discussions were held between the Vice-Chancellor and foreign expert faculty about collaborating for MOOC programme for university students.	
<u>Interaction of other faculty from <host Institute></u>	
The PRC faculty members of the host institute interacted with the foreign faculty and shared different research ideas.	
<u>Interaction of faculty/researchers from other institutes/organizations</u>	
None	
Signature of Course Coordinator	
Date of submission of report	05-03-2018

PRC-GIAN Course (19-24 February, 2018) Participant DD/Cheque details

Sl. No.	Reg.No.	Participants Name	Number	DD/Cheque	Date	Amount
1	2015150372591	ABHISHEK PATHAK	954342	Bankers Cheque	16.02.2018	800
2	2015150770944	AMIT TIWARI	716780	DD	05.02.2018	800
3	2015150470950	CHANDAN TIWARI	716781	DD	05.02.2018	800
4	2015150572398	JYOTI TIWARI	45523	Cheque	16.02.2018	1500
5	2015150271669	MD SENAUL HAQUE	600893	DD	01.02.2018	800
6	2015150072310	PAPRI KARMAKAR	954338	Bankers Cheque	13.02.2018	800
7	2015150772587	ROBIN KUMAR PUNDIR	954343	Bankers Cheque	15.02.2018	800
8	2015150566105	SARLA MORE	4981	Cheque	09.02.2018	400
9	2015150772126	AMARNATH GUPTA	205882	Cheque	17.02.2018	1500
10	2015150872182	ANJU THAKUR JHA	124083	Cheque	19.02.2018	1500
11	2015150572562	DR.RAM KUMAR PANIKA	724620	Cheque	19.02.2018	300
12	2015150471576	RUPESH SAHU				
13	2015150672080	PAWAN KUMAR SHARMA	600748	Cheque	16.02.2018	1500
14	2015150970959	PRACHI PRAJAPATI	954289	Bankers Cheque	15.02.2018	800
15	2015150821682	PRIYANKA PAHADE	853622	Cheque	19.02.2018	1200
16	2015150621517	HEMLATA BHAMDARE				
17	2015150272270	RAJEEB KALITA	949810	Cheque	19.02.2018	1500
18	2015150956972	SANJEEV KUMAR	653523	Cheque	19.02.2018	800
19	2015150671972	SAYALI S. SHILEWANT	109778	Cheque	19.02.2018	800
20	2015150612363	PRONIT BISWAS				
21	2015150372039	SHRADDHA MISHRA	315706	Cheque	19.02.2018	1500
22	2015150071989	SUNIL KANT GULERI	283816	Cheque	19.02.2018	1500
23	2015150410148	GIRRAJ SHARMA	599115	Cheque	19.02.2018	800
24	2015150072542	KUMAR RAGHUBANSH MANI SINGH	964679	Cheque	15.02.2018	1500
25	2015150056342	MUNESHWAR HEMBRAM	653513	Cheque	19.02.2018	400
22 DD/Cheque						2500

(Rupees Twenty five thousand only)

Dr. Reena Basu
Dr. Reena Basu
Course Coordinator, GIAN

Prof. Devasish Bose
Local Coordinator, GIAN

In local coordinator GIAN

Sir, It has been brought to my knowledge that the cheque submitted by Dr. Amarnath Gupta (GIAN course 174046) is erroneous. A fresh cheque is being submitted for Rs 15000/- in the name of Registrar, Dr. Harish Chandra Vishwanidyalaya. *Dr. Reena Basu*
Course Coordinator, GIAN