

RESPONSIBLE CONDUCT OF RESEARCH – AN OVERVIEW OF ETHICAL PRINCIPLES FOR SCIENTIFIC RESEARCHERS

JULY 6-10, 2020, MAHATMA GANDHI UNIVERSITY, KOTTAYAM, KERALA

Overview:

Responsible conduct of research (RCR) is defined as "the practice of scientific investigation with integrity." It involves the awareness and application of established professional norms and ethical principles in the performance of all activities related to scientific research. Ethical and responsible conduct of research is critical for excellence, as well as public trust, in science and engineering. Consequently, education in the responsible and ethical conduct of research is considered essential in the preparation of future scientists and engineers. Funding agencies and research institutions are increasingly pro-active in insuring that researchers and graduate students in research disciplines learn about the ethics related to their work. This course will provide an overview of all the major components of responsible conduct of research. Through lecture and case studies, current major ethical issues in the biomedical sciences will be discussed. Students will learn the skills of ethical analysis essential to making moral choices and have the opportunity for critical reflection on one's personal values and obligations as a scientist.

Objectives:

The primary objectives of this course are as follows.

1. Explore ethical analysis essential to making moral choices in science.
2. Identify the substantive ethical assumptions underlying scientific decisions.
3. Raise sensitivities to ethical issues in the work place.
4. Enhance critical reflection on one's personal values and obligations as a scientist and mentor.
5. Understand the impact of integrity in research on science and the public.
6. Describe the elements of responsible conduct of research.
7. Understand ethical foundations in Scientific Research.

In addition to the above-mentioned goals, this course will also help stakeholders to develop skills for scientific communication, independent research, team building, and collaboration. The course will also provide exposure and guidance for grant submission to funding agencies.

FACULTIES

This course will be led by Dr. Maya Nair, Associate Director, Environmental Health and Safety, Assistant Professor at the University of North Texas Health Science Center. She is an experienced researcher, academician and trainer. Her research is focused on developing nanoparticle based targeted drug delivery system for cancer chemotherapy. She is a Registered Biosafety Professional with American Biological Safety Association and has immense experience in developing and conducting research compliance training courses at national and international conferences. She is also the Coordinator for NIH training Programms at UNTHSC and has vast experience in training students and faculty on Responsible Conduct of Research.



Dr. Maya Nair

Prof. Nandakumar Kalarikkal, Director and Professor at School of Pure and Applied Physics (SPAP) and International and Inter University centre for Nanoscience and technology (IIUCNN), Mahatma Gandhi University, Kottayam, Kerala will co-lead the course. He has a distinguished academic profile and had recently awarded 'Professor at Lorrain' by University of Lorraine, France. He is an accomplished researcher with numerous publications to his credit and is an editor of several books in diverse fields.



Prof. Nandakumar Kalarikkal

VENUE:

**Mahatma Gandhi University,
Kottayam , Kerala**

Duration: 5 Days

Date: July 6-10 , 2020

Who can attend?

- Researchers from any field, material science researchers, professionals and government organizations including R&D laboratories and regulatory agencies
- Students at all levels (B.Sc./BTech/MSc/MTech/PhD) or Faculty from reputed academic institutions and technical institutions

Course Fees

Students: INR 1000

Foreign Students: USD100

Faculties: INR 2000

Person from Industries: INR5000

Pay at the Venue

Please fill the registration form and send to the following Address

**Director,
International and Inter University
Centre for Nanoscience and
Technology
Mahatma Gandhi University,
Kottayam, Kerala-686560**

Important:

**Do Online Registration in GIAN
website:**

<https://gian.iitkgp.ac.in/>

DAY 1

Time	Topic	Faculty
9:00 AM– 9:30 AM	Inaugural session and Orientation	Drs. Nair and Prof. Kalarikkal
9:30 AM – 10:30 AM	Scientific Integrity	Dr. Nair
10:30AM to 11:00 AM	Break	
11:00 AM – 12:00 PM	Data Acquisition and Management	Dr. Nair
12:00 Noon – 1:00PM	Workshop/ case study on Scientific Integrity Data acquisition and management	Dr. Nair

DAY 2

Time	Topic	Faculty
9:00 AM – 10:00 AM	Publication and authorship Peer review	Dr. Nair
10:00AM to 10:30 AM	Break	
10:30 AM – 11:30 AM	Peer review	Dr. Nair
11:30 AM -12:30PM	Workshop/ case study on Publication and authorship and Peer review	Dr. Nair
12:30PM -1:00PM	Quiz/Test	Dr. Nair

DAY 3

Time	Topic	Faculty
9:00 AM – 10:00 AM	Mentor/trainee Relationships	Prof. Kalarikkal
10:00AM to 10:30 AM	Break	
10:30 AM – 11:30 AM	Collaborative Research	Prof. Kalarikkal
11:30 AM -12:30PM	Problem based learning activity on - Mentor/trainee Relationships and Collaborative Research	Dr. Nair
12:30PM -1:00PM	Quiz/Test	Dr. Nair

DAY 4

Time	Topic	Faculty
9:00 AM – 10:00 AM	Research involving human subjects.	Dr. Nair
10:00AM to 10:30 AM	Break	
10:30 AM – 11:30 AM	Research involving animal subjects.	Dr Nair
11:30 AM -12:30PM	Workshop/ case study – Protocol review exercise for study involving Human and animal subjects	Dr. Nair
12:30PM -1:00PM	Quiz/Test	Dr. Nair

DAY 5

Time	Topic	Faculty
9:00 AM – 10:00 AM	Conflict of interest and commitment.	Dr. Nair
10:00AM – 11:00AM	Institutional Biosafety Committee	Dr. Nair
10:00AM to 10:30 AM	Break	
10:30 AM – 12:30PM	Scientific Communication	Dr. Nair
12:30 PM – 1:30 PM	Lunch	
1:30PM – 4:30 PM	Team based Learning activity (TBL) - Grant proposal review by the Ethical Committee. The participants will form the ethical committee and be assigned designated roles from lecture topics (1-5) and review the proposals.	Drs. Nair and Prof. Kalarikkal
4:30 PM – 5:00PM	Summary and Closing Course evaluation	Drs. Nair and Prof. Kalarikkal

INTERNATIONAL AND INTERUNIVERSITY CENTRE FOR NANOSCIENCE AND NANOTECHNOLOGY , MAHATMAGANDHI UNIVERSITY WELCOMES YOU!

For more details

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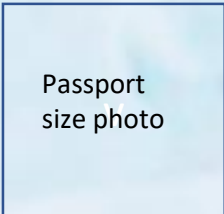
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REGISTRATION FORM
[Course ID: 196048G01]

1. GIAN Registration/Application Number: _____
2. Full Name: _____
3. Date of Birth: _____
4. Participation type (Industry/Academic/Student): _____
5. Qualification/Degree Programme: _____
6. Organization: _____
7. Address: _____

8. E-mail ID: _____ Mobile No.: _____
9. Accommodation Required: Yes/No: _____ in Hostel/ Guest House

(Rent of Hostel and Guest House as per University rules)
- Place : _____
Date : _____
Signature of the Applicant: _____



NB: Kindly ensure the fee payment at the venue.