



# One Week Online Workshop on Biomedical Research

Aug 21-27, 2024

Organized by

Department of Health Research-Multidisciplinary Research Unit

Uttar Pradesh University of Medical Sciences, Saifai, Etawah, UP

(As per UP Government Act No 15 of 2016 to provide for establishment of a Medical Sciences University)

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Science Tech Institute, Lucknow, UP, India



**About Uttar Pradesh University of Medical Sciences:** The Uttar Pradesh University of Medical Sciences, is a medical college, hospital, and medical research institution in Saifai, Etawah, U.P., India., running with full-fledged Medical College, Dental College (postgraduate), Paramedical College, Nursing College, Pharmacy College, Multi-Specialty 850 bedded hospital, 150 bedded trauma and burn centre and 500 bedded Super Specialty hospital. The Medical University is transforming in order to support clinical research and offer better patient care.

**About Department of Health Research-Multidisciplinary Research Unit:** Established under aegis of DHR, MoHFW, Govt. of India at Uttar Pradesh University of Medical Sciences, Saifai, Etawah (206130). The Unit is to perform cutting-edge research in the field of health sciences, with a special emphasis on patient care in non-communicable diseases, and provide a central instrumentation facility and research environment for faculties and SR/JR PG students to choose and carry out their top research priorities on their own premises.

**Science-Tech Institute(Run By: MKS Educational Society Lucknow)**

The Science-Tech is one of the premier Institutes of Lucknow dedicated to organize various academic activities like Conferences, FDP, seminars, workshops and Training programme and Certificates Course in collaboration with many National & International organizations and Institute have own Publications House and Journals to be publish various fields of books, Research papers and Magazine. The Institute is run by Manraj Kuwar Singh Educational Society, Lucknow. The Society is working for the development of deprived socio-economic students by providing them quality education.

## About the Workshop

Research is the systematic and objective process of gathering, recording and analyzing data for taking appropriate & meaningful decisions. It connotes patient study and scientific investment, wherein the researcher takes a more careful look at data to discover all that could be known more deeply about the subject under study. Applied research facilitates managerial decision-making and reduces uncertainty. To keep pace with the recent advancement in any discipline, one has to be well versed with the latest analytical techniques. Keeping in view the importance of statistical data analysis, **One Week Online Workshop on Biomedical Research** aims to explore the basic dimensions of data analysis for decision making. In this workshop we are exploring basic statistical techniques used in bio medical research and hands on SPSS software for advance statistical data analysis through online interactive and practice sessions along with theory behind. Training sessions are structured to cover the topics outlined in the schedule. The topics have been so chosen that the intricacy of research methods and data analysis may be understood by participants. Sample data set to analyze and study material and video lectures will be shared by emails to the participants for practice and to gain confidence to handle their respective data while conducting researches in their respective subject domains

**Objective:** The course will explain the fundamental concepts of research methodology in health. Course materials include video lectures reading/resource materials, example accompaniments, workbooks, lecture handouts. The methodology of the course will comprise of: Online lecture, participatory discussion, Demonstrations Problem solving.

Date and Time	Course Content
<b>Day- 1</b> ( 21 Aug , 2024) Timing: 06:30 PM- 08.30 PM	<b><i>Conceptualizing a research study</i></b> <ul style="list-style-type: none"><li>❖ Introduction to health research</li><li>❖ Formulating research question, hypothesis and objectives</li><li>❖ Literature review</li></ul>
<b>Day- 2</b> (22 Aug , 2024) Timing: 06:30 PM- 08.30 PM	<b><i>Epidemiological considerations in designing a research study</i></b> <ul style="list-style-type: none"><li>❖ Measures of disease frequency</li><li>❖ Descriptive study designs</li><li>❖ Analytical study design</li><li>❖ Experimental study designs</li><li>❖ Validity of epidemiological studies</li></ul>
<b>Day- 3</b> (23 Aug, 2024) Timing: 06:30 PM- 08.30 PM	<b><i>Bio-statistical considerations in designing a research study</i></b> <ul style="list-style-type: none"><li>❖ Sampling methods</li><li>❖ Sample size calculation using G –Power software</li></ul>
<b>Day- 4</b> (24 Aug, 2024) Timing: 06:30 PM- 08.30 PM	<b><i>Planning a research study</i></b> <ul style="list-style-type: none"><li>❖ Selection of study population</li><li>❖ Study plan and project management</li><li>❖ Designing data collection tools</li><li>❖ Principles of data collection</li><li>❖ Data management</li><li>❖ Overview of data analysis</li></ul>
<b>Day- 5</b> (25 Aug, 2024) Timing: 06:30 PM- 08.30 PM	<b><i>Ethical issues in conducting a research study</i></b> <ul style="list-style-type: none"><li>❖ Ethical framework for health research</li><li>❖ Conducting clinical trials</li></ul>
<b>Day-6</b> (26 Aug, 2024) Timing: 06:30 PM- 08.30 PM	<b><i>Writing a research protocol</i></b> <ul style="list-style-type: none"><li>❖ Preparing a concept paper for research projects</li><li>❖ Elements of a protocol for research studies</li><li>❖ Publication ethics</li></ul>
<b>Day- 7</b> (27 Aug, 2024) Timing: 06:30 PM- 08.30 PM	<ul style="list-style-type: none"><li>❖ Systematic Review and Meta Analysis</li></ul>

## Workshop Rule

### Highlights of the Workshop-

1. Registered participants will get e-certificates mentioned with Credit Hour.
2. Study material in the form of ppt and video recording of all sessions will be provided to all registered participants.
3. **Workshop** by Subject Experts from and other reputed Institute & Universities
4. **Workshop** will be on the Zoom meeting platform.

For further queries, please mail us at:

[sciencetech487@gmail.com](mailto:sciencetech487@gmail.com)

## REGISTRATION & PAYMENT DETAILS

### Details of Registration Fees:

1. For Indian Participants : INR 600/(Non-Refundable)
2. For Foreigner :USD(\$ ) 10/- (Non-Refundable)

**For registration & payment please click on the given link:**

<https://sciencetechinstitute.com/one-week-online-workshop-on-basic-course-in-biomedical-research-aug-2024/>

### Nature of Participants

Workshop is open for Medical & Nursing faculties, PG JR/ SR from all Institutions, Colleges, and Universities. SIHFW and Demographers, Epidemiologist from Govt. and Pvt. organization are eligible to apply and also all Ph.D. Students & Researcher and M.Sc., MBBS & MD, MPT & BPT Paramedical Students from any University or College and all students of the medical, Public health, Science & Social Sciences background are eligible.

**Note:** After successful registration , the participants will receive a confirmation via email. Please keep checking the spam folder of the email as the bulk email sent may end up in the spam folder. An official group has been made for communication with the participants on "Whatsapp." The link to join the official group will be provided in the confirmation mail.

### About the Recourse Person

**Dr. Ravinder Singh** Scientists at ICMR Headquarters (Department of Health Research, Ministry of Health & Family Welfare, Government of India), New Delhi

**Dr. Ashoo Grover** Scientist F (Medical) Deputy Director General Senior Grade at ICMR

**Dr. Gayatri Vishwakarma** Biostatistician at The George Institute for Global Health, New Delhi, India

**Dr. Smita Asthana**, Scientist E ICMR-National Institute of Cancer Prevention & Research, Noida, India

**Dr. Anup Kumar** , Associate Professor, Department of Biostatistics, & Health Informatics, SGPGIMS, Lucknow, UP, India

**Dr. Shweta Goswami**, Assistant Professor, Department of Community Medicine ESIC Medical College & Hospital, Faridabad, Haryana.

## Organising Team of the Workshop

### Chief Patron



**Dr. Prabhat Kumar Singh**  
Honourable Vice Chancellor,  
U P University of Medical  
Sciences, Saifai, Etawah, U. P

### Co- Patrons



**Dr. Ramakant Yadav**  
Pro Vice Chancellor  
U P University of  
Medical Sciences, Saifai  
Etawah, U. P



**Prof. (Dr.) C. V Singh,**  
Registrar  
**UPUMS, Saifai**  
Etawah, U. P



**Dr. Adesh Kumar**  
Dean  
U P University of  
Medical Sciences,  
Saifai Etawah,  
U. P



**Dr. S. P. Singh**  
M S  
U P University of  
Medical Sciences,  
Saifai Etawah,  
U. P



**Mrs. Shweta Singh**  
Chairman  
Governing Body  
MKSES Educational  
Society Lucknow,  
UP, India,

### Convener



**Dr. Sushil Kumar Shukla**  
Professor in Statistics  
U P University of  
Medical Sciences, Saifai  
Etawah,  
U. P.

### Course Coordinator



**Dr. S.K. Singh**  
Science-Tech Institute  
MKSES Educational Society  
Lucknow, UP, India

**MOb. No. 8299547952**

### Course Coordinator



**Dr. D.K. Yadav**  
National Institute of Health and  
Family Welfare ,  
New Delhi, India

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