



# MICROBIOLOGISTS SOCIETY INDIA & INSTITUTE OF APPLIED STATISTICS



*Jointly Organizing*

**Certificate Programme  
on**

## **Effective Research Writing**

**One Month Online Certificate Programme  
(01 May, 2024 - 31 May, 2024)**

*under*



**DR. PADAM SINGH RESEARCH & DEVELOPMENT SCHEME**

**Convener**



**Dr. A. M. Deshmukh**  
President  
Microbiologists Society India



**Dr. A. Archana**  
Vice President  
Microbiologists Society India



**Dr. Shubham Pandey**  
National Coordinator  
Dr. Padam Singh R&D Scheme  
Institute of Applied Statistics  
Kanpur, Uttar Pradesh



**Advisor**

**Dr. Vijay Jagdish Upadhye**  
Deputy Director  
Research and Development Cell (RDC)  
Parul University, Vadodara, Gujarat



**Program Coordinator**

**Er. Amit Tiwari**  
IT Head  
Research & Development Schemes  
Institute of Applied Statistics, Kanpur

# ONLINE CERTIFICATE PROGRAMME ON EFFECTIVE RESEARCH WRITING



## ABOUT THE CERTIFICATE PROGRAMME

This course equips students to apply research methodologies and biostatistical methods in public health and clinical research in Medical Science. They'll gain skills to write journal articles and reports, including selecting appropriate analytical methods, conducting analysis using statistical software, and drawing valid conclusions. Topics include one-way ANOVA, linear regression, model building, logistic regression, count data analysis, and time-to-event analysis. Learning methods include lectures, hands-on tutorials, and practical sessions.

## OBJECTIVE

This course aims to deepen understanding of Research Methodology and Biostatistics in the context of Medical Research. It emphasizes practical applications in health-related fields as well as the creation of innovative methodologies for in-depth comprehension of advanced statistical theory. The curriculum covers fundamental concepts in biostatistics and provides hands-on experience in executing computations for advanced statistical techniques.

## WHO SHOULD ATTEND ?

Academicians, Faculties and Research Scholars from Medical Science, Ayurveda, Homoeopathy, Dental, Nursing, Microbiology, Statistics and Biostatistics and who are interested in learning Statistical methods and Research Methodologies.

FOLLOW US



**REGISTRATION FEE:**  
**1180/- INR Per Participant**

### REGISTRATION:

For registration please visit our official website: [www.iasdcs.com](http://www.iasdcs.com)

- **E-Certificates will be provided to all the participants.**
- **Access of Recorded Session and PDF Notes will be provided.**



### DURATION OF THE PROGRAMME

01 May, 2024 to 31 May, 2024



### SCHEDULE AND TIMINGS

07:30 - 08:30 PM

### SESSIONS OFFERED ON PLATFORMS



Program Coordinator



**Er. Amit Tiwari**

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# ONLINE CERTIFICATE PROGRAMME ON EFFECTIVE RESEARCH WRITING

## Resource Person



**Dr. Padam Singh**

Former  
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**Dr. Atul Juneja**

Former Scientist F  
National Institute of Medical  
Statistics (NIMS), ICMR  
New Delhi



**Dr. Indranil Saha**

Scientist E  
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**Dr. Ratan Kumar Srivastava**

Dean Academics  
Prasad Institute of Medical  
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**Dr. Kalpana K. Mahajan**

Former Professor  
Department of Statistics,  
Panjab University  
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**Dr Girish K J**

Professor & Vice Principal  
Department of Kayachikitsa  
Patanjali Bhartiya Ayurvigyan  
Evem Anusandhan Sansthan  
Haridwar, Uttarakhand



**Dr. S. Muhammad Salim Khan**

Professor and Head  
Dept. of Community Medicine  
Government Medical College  
Srinagar, Jammu and Kashmir



**Dr. Suresh Kumar Sharma**

Professor and Ex-Chairman  
Department of Statistics  
Panjab University  
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**Dr. Manushi Srivastava**

Professor of Medical Sociology  
Institute of Medical Science  
Banaras Hindu University,  
Varanasi



**Dr. Hitesh Khurana**

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Institute of Mental Health  
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**Dr. R. K. Soni**

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Dept. of Community Medicine  
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**Dr. Bindu Garg**

Professor & Head  
Department of Physiology  
Shri Ram Murti Smarak  
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Sanjay Gandhi Postgraduate  
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Lucknow, Uttar Pradesh



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**Dr. Manoj Kalita**

Scientist C  
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Mental Health, Indian Council  
of Medical Research (ICMR),  
Kolkata



**Dr. Sudip Ghosh**

Senior Statistician  
Burdwan Medical College  
Burdwan, West Bengal

# ONLINE CERTIFICATE PROGRAMME ON EFFECTIVE RESEARCH WRITING



## Program Schedule May 2024

S. No.	Date	Topic	Resource Person
1	01 May 2024	Importance of Effective Research Communication	Dr. Indranil Saha
2	02 May 2024	Selecting a Research Topic, Formulating a Research Question, Objectives and the title of the study	Dr. Manushi Srivastava
3	03 May 2024	Basic Steps of Introduction Writing for Synopsis and Thesis	Dr. S. Muhammad Salim Khan
4	04 May 2024	Five Steps to conduct a Literature Review for Synopsis, Thesis	Dr. Shweta Goswami
5	06 May 2024	Methodology Section (Basic Components)	Dr. Manushi Srivastava
6	07 May 2024	Research Design : Fundamental of Study Design and Observational Study Design and Its Measures	Dr. Ratan Kumar Srivastava
7	09 May 2024	Research Design : Experimental and Hybrid Study Design and Its Measures	Dr. Ratan Kumar Srivastava
8	10 May 2024	Sampling Design : Probability and Non-Probability Sampling	Dr. Padam Singh
9	11 May 2024	Sample Size Estimation for Observational and Experimental Study	Dr. Padam Singh
<b>12 May, 2024</b>		<b>Quiz 1</b>	
10	13 May 2024	Practical Session : Sample Size using G Power	Dr. Manoj Kalita
11	14 May 2024	How to Write Inclusion and Exclusion Criteria	Dr. G. Kranthi Kumar
12	15 May 2024	Components of Result Writing	Dr. Hitesh Khurana
13	16 May 2024	Fundamental of Biostatistics Collection, classification of data and response structure	Dr. R. K. Soni
14	17 May 2024	Data Quality, Master Chart Preparation and Presentation of Data (Graphical and Tabular Presentation of Data)	Dr. Atul Juneja
15	18 May 2024	Descriptive Statistics (Measure of Central Tendency, Variability and Normality of Data)	Dr. Sudip Ghosh
<b>19 May, 2024</b>		<b>Assessment 1</b>	



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## Program Schedule May 2024

S. No.	Date	Topic	Resource Person
16	20 May 2024	Inferential Statistics : Fundamental of Testing of Hypothesis	Dr. Atul Juneja
17	21 May 2024	Inferential Statistics : Parametric Test	Dr. Kalpana K. Mahajan
18	22 May 2024	Inferential Statistics : Non-Parametric Test	Dr. Anup Kumar
19	23 May 2024	Computation of Correlations and Regression Analysis	Dr. Suresh Sharma
20	24 May 2024	Effective Discussion Writing	Dr. Rashmi Kumari
21	25 May 2024	Effective Conclusion Writing	Dr. Bindu Garg
<b>26 May 2024</b>		<b>Quiz 2</b>	
22	27 May 2024	How to Write Recommendation and Limitation of the Study	Dr. Bindu Garg
23	28 May 2024	Fundamental of Reference Writing for Synopsis and Thesis	Dr. Hitesh Khurana
24	29 May 2024	Practical Session : Software Management Tools for Reference Writing like Mendeley	Dr. Indranil Saha
25	30 May 2024	Plagiarism Check and Guidelines	Dr. Girish KJ
<b>31 May 2024</b>		<b>Assessment 2</b>	

**VALEDICTORY SESSION: 03 JUNE 2024**

**E-CERTIFICATE DISTRIBUTION: 04 TO 06 JUNE 2024**



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