



**INSTITUTE OF TEACHING AND RESEARCH IN AYURVEDA
(ITRA) JAMNAGAR, GUJARAT**



**&
INSTITUTE OF APPLIED STATISTICS,
KANPUR, UTTAR PRADESH**

Launched

**Two Month Online Certificate Programme
Advance Research Methodology & Biostatistics**



(01 July, 2025 - 30 August, 2025)



Live Session : 06:00 PM to 07:00 PM

In Collaboration with



CENTRAL COUNCIL FOR RESEARCH IN AYURVEDIC SCIENCES (CCRAS), NEW DELHI

Under



MAHARSHI CHARAK AYURVEDA R&D SCHEME

Convener



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Dr. Nisha Parmar

Co-coordinator

Assistant Professor
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CERTIFICATE PROGRAMME ON ADVANCE RESEARCH METHODOLOGY & BIOSTATISTICS



ABOUT ITRA, JAMNAGAR

The Institute of Teaching and Research in Ayurveda (ITRA) is the first 'Institute of National Importance' in the sector of AYUSH (Ayurveda, Yoga and Naturopathy, Unani, Siddha and Homoeopathy). The parliament of India passed the 'Institute of Teaching and Research in Ayurveda Act, 2020' and the provisions of this act came into force on 15 October 2020. The ITRA is formed by the amalgamation of three different institutes namely (i) The Institute of Post Graduate Teaching and Research in Ayurveda (IPGT & RA), (ii) Shree Gulabkunverba Ayurved Mahavidyalaya, and (iii) The Indian Institute of Ayurvedic Pharmaceutical Sciences, Jamnagar. In addition, the Maharshi Patanjali Institute for Yoga Naturopathy Education and Research (MPIYNER), a constituent SFI college of the Gujarat Ayurved University, Jamnagar is also integrated with the ITRA under the department of Swasthavritta.

ABOUT INSTITUTE OF APPLIED STATISTICS

Institute of Applied Statistics (IAS) is a corporate division of the DCS and a prime Institute that serves the upbringing of human resource development in Statistics. The Institute of Applied Statistics conducts training on statistical tools and methodologies to the various professionals all over the country. Besides, the institute carries out participates in multidisciplinary research activities. The Institute of Applied Statistics (IAS) aspires to propagate the knowledge of statistics and global development of statistical system.

ABOUT THE CERTIFICATE PROGRAMME

This course equips scholars to apply advanced biostatistical methods in public health and clinical research in Ayurveda 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 advanced Biostatistics in the context of Ayurveda Research. It emphasizes practical applications in health-related fields such as ayurveda medicine 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 of Ayurveda Science and who are interested in learning advance Statistical methods and Research Methodologies.

REGISTRATION FEE:

1500/- INR Per Participant

- E-Certificates will be provided to all the participants.

REGISTRATION:

For registration please visit our official website:

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 July, 2025 - 30 August, 2025



SCHEDULE AND TIMINGS

06:00 - 07:00 PM

SESSIONS OFFERED ON PLATFORMS



Program Coordinator



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01 JULY 2025 - INAUGURAL OF THE PROGRAMME

01 July 2025	Introduction of Advance Statistical Tools and Techniques
02 July 2025	Introduction of Correlation Analysis
03 July 2025	Correlation Analysis for Quantitative, Ordinal and Nominal Data
04 July 2025	Use of Partial, Semi-Partial, Part and Illusory Correlation
07 July 2025	Practical Session: Correlation Analysis using SPSS
08 July 2025	Fundamental of Regression Analysis and Its use in Research
09 July 2025	Overview of Binary and Multiple Linear Regression Analysis
10 July 2025	Overview of Binary and Multiple Logistic Regression
11 July 2025	Conditional Logistic Regression Analysis
12 July 2025	Logistic Regression for Corrected Data (GEE Model)
13 July 2025	Quiz 1
14 July 2025	Assessing Discriminatory Performance of Logistic Regression (ROC Curve)
15 July 2025	Overview of Ordinal and Poisson Regression and Its use in Research
16 July 2025	Practical Session: Multiple Linear Regression Analysis using SPSS
17 July 2025	Practical Session: Logistic Regression Analysis using SPSS
18 July 2025	Practical Session: Ordinal and Poisson Regression Analysis using SPSS
21 July 2025	Fundamental of Multivariate Analysis and Its use in Research (ANOVA, ANCOVA, MANOVA, MANCOVA)
22 July 2025	Factor Analysis
23 July 2025	Principal Component Analysis
24 July 2025	Discriminant Analysis
25 July 2025	Practical Session: Multivariate Analysis using SPSS
28 July 2025	Practical Session: Factor and Principal Component Analysis using SPSS
29 July 2025	Practical Session: Discriminant Analysis using SPSS
31 July 2025	Assessment 1



01 August 2025	Introduction of Clinical Trials
02 August 2025	Pilot and Feasibility Studies and Its Analysis
04 August 2025	Prevention Trials and Its Analysis
05 August 2025	Screening Trials and Its Analysis
06 August 2025	Animal Trials and Data Analysis
07 August 2025	Randomized Controlled Trial and Its Analysis – 1 (Superiority trials and Non-inferiority trials)
08 August 2025	Randomized Controlled Trial and Its Analysis – 2 (Bioequivalence trials and Factorial trials)
09 August 2025	Treatment trials (Parallel trials, Cross-over trials and Sequential trials)
10 August 2025	Quiz 2
11 August 2025	Multi-arm multi-stage (MAMS) trials
12 August 2025	Practical Session: Clinical Trial using SPSS – 1
13 August 2025	Practical Session: Clinical Trial using SPSS – 2
14 August 2025	Practical Session: Clinical Trial using SPSS – 3
18 August 2025	Sample Size for Prevention, Screening and Animal Trials
19 August 2025	Sample Size for Randomized Controlled Trial
20 August 2025	Sample Size for Parallel trials, Cross-over trials, Sequential trials and MAMS Trials
21 August 2025	Practical Session: Sample Size using G Power -1
22 August 2025	Practical Session: Sample Size using G Power -2
25 August 2025	Appropriate Graphical Presentation – 1
26 August 2025	Appropriate Graphical Presentation – 2
27 August 2025	Practical Session: Graphical Presentation using Graph Pad/Origin Lab etc.
30 August 2025	Assessment 2



CERTIFICATE PROGRAMME HIGHLIGHTS

- ✓ Comprehensive two-month online sessions on Advance Research Methodology & Biostatistics.
- ✓ Expert-led sessions and daily query discussions at the end of each session of the programme to address doubts with experts.
- ✓ Online Assessment Tests at the end of the programme for E-Certification.
- ✓ Online Quiz for revision of the topics learned.
- ✓ Study material in the form of PDFs will be shared with all registered participants of the programme.
- ✓ All registered participants will receive an e-certificate after completion of the programme on their registered email ID.
- ✓ Access to all recorded sessions of the programme for revision purposes.
- ✓ Opportunity to network with researchers and professionals.

