About Integral University

Integral University is a premier University located in the North-Eastern part of the UP-State capital city Lucknow. It is a state private university established in 2004 and approved by UGC under section 2(f) and 12(B) of UGC act 1956. The University is accredited A+ by the National Assessment and Accreditation Council (NAAC) which is an autonomous institution of the University Grants Commission (UGC). It is recognized as a Scientific and Industrial Research Organization (SIRO) by the Department of Scientific and Industrial Research (DSIR), Ministry of Science & Technology, Government of India. It has marvellous ambience and academically, lively and vibrant environment, highly conducive to higher and dedicated academic pursuits. The university is committed to generating, disseminating, and preserving knowledge. The University offers more than 240 programs across 47 disciplines, and currently hosts around 12000 students at its 120-cre campus. In a lush green, safe, serene and ragging-free environment, the campus provides state-of-the art hostel accommodation, with the capacity to host 2600 students in the hostels and houses a 850-bedded hospital, as part of the Medical College, with state-of-the-art medical facilities, and more than 200 doctors. Academic programs like engineering, medicine, science, arts, architecture and management equip students with the academic rigor and intellectual capacity to meet the corporate business challenges.

About AIU

About the Association of Indian University Association of Indian Universities (AIU) is an apex inter university representative body if universities and other higher education institutions in the country. Established in 1925 a the Inter University Board (IUB) of India, it acquired its legal status as a registered society in 1967 under the Societies Registration Act 1860 and was rechristened as Association of Indian Universities (AIU) in 1973. AIU is the second oldest university association in the world next to the Association of Commonwealth Universities which was established in 1913. It has the distinct feature of having the largest network of universities and other HEIs under its ambit with 982 members of Foreign Countries. The membership of AIU includes all types of universities e.g. conventional Universities, Open Universities, Deemed to be Universities, State Universities, Central Universities, Private Universities and Institutes of National Importance. In addition to Indian Universities, Universities/Institutes from Bangladesh, Bhutan, Republish of Kazakhsthan, Malasia, Mauritius, Nepal, Thailand, United Arab Emirates and United Kingdom are its Associate Members. Since inception AIU has played a very significant role in the development of Education in the Country. Some of the eminent scholars and visionary leaders like Dr. Sarvepalli Radhakrishnan, Dr. Shyama Prasad Mukherjee, Dr. Zakir Hussain, Sir A.L. Mudaliar have given leadership to AIU. During such a long journey, AIU has carved a niche for itself by serving by the Ministry of Education, Government of India as a research-based policy advisory body.

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AIU-Integral University – Academic & Administrative Development Centre (AIU- IU – AADC) In Collaboration with Department of Business Management Under the Aegis of HRDC, Integral University

Organizes

Five Days Online Faculty Development Program on

Statistical Analysis for Research: Techniques and Software

21st - 26th November, 2024

About the Program

The "Five Days Online Faculty Development Program on Statistical Analysis for Research: Advanced Techniques and Software" aims to enhance the research capabilities of faculty members by introducing advanced statistical methods and tools. Participants will gain hands-on experience with cutting-edge software for data analysis, covering topics such as regression analysis, multivariate techniques, and statistical modelling.

The program will focus on applying these techniques to real-world research data, ensuring faculty are equipped with the skills to conduct rigorous and impactful research. By the end of the program, participants will be proficient in advanced statistical methods and data analysis software for academic research

Resource Persons

- Prof Prabhat Mittal, Professor, Satyawati College, University of Delhi, New Delhi
- Dr. Arun Mittal – Assistant Professor, Birla Institute of Technology, Ranchi
- Dr. Anoop Pandey, Professor in Commerce, HNB Garhwal University, Uttarakhand
- Padmajapriyadarshini B.N, Statistician, Entrepreneur, Author & Researcher, Sarada Krishna Homoeopathic Medical College, Pondicherry University, Chengalpattu, Tamil Nadu
- Dr. Thiyagu Suri, Assistant Professor, University of Karnataka, Karnataka.
- Dr. Azarudheen S, Assistant professor, Department of Statistics and data science CHRIST (Deemed to be University), Bangalore, Karnataka
- Dr. Shayamala, Associate Professor, S.DN.B Vaishnav College for Women
- Prof. Masood H. Siddiqui, Professor & Head, Department of Statistics, University of Lucknow, Lucknow.
- Prof. Rajiv Pandey, Professor, Department of Statistics, University of Lucknow, Lucknow.
- Dr. Subhasri R, Associate Professor, S.DN.B Vaishnav College for Women
- Dr. Rajiv Ranjan, Professor & Dean, Integral Business School, Integral University, Lucknow
- Dr. Divya R. Panjwani, Assistant Professor, Department of Education, Integral University, Lucknow

E-certificate will be given to all the participants after completion of assignments

SCHEDULE OF SESSIONS

Day	Date	Session 1 9:30 AM - 10:45 AM	Session 2 10:45 AM - 12:00 Noon	Session 3 1:15 PM - 2:30 PM	Session 4 2:30 PM to 3:30 PM
Day 1	21.11.2024	Experiments - The Gold Standard of Management and Social Science Research		Overview of Statistical Software	Data Cleaning and Preprocessing
Thursday		Experimental Design in Management Science Research, Quasi-Experimental Designs like IVs, R-D design, Parity Matching		Introduction to popular software for research: SPSS	Cleaning missing data, outliers, and transformations.
Day 2	22.11.2024	Descriptive Statistics	Visualizing Data	Hypothesis Testing Basics	Presentation and Discussion
Friday		Measures of central tendency and dispersion.	Creating histograms, boxplots, and scatter plots.	Introduction to p-value, confidence intervals, t-tests.	
Day 3	23.11.2024	ANOVA (Analysis of variance)		Regression Analysis: Multiple Linear	Assumptions of Regression Models
Saturday		Introduction to ANOVA and its Applications		Introduction to multiple regression models.	Checking assumptions: Normality, Homoscedasticity.
Day 4	25.11.2024	Free Statistical Software and tools		Non-Parametric Tests	Presentation and Discussion
Monday		Data Analysis through JAMOVI		Introduction to non-parametric tests: Mann-Whitney, Kruskal-Wallis.	
Day 5	26.11.2024	Time Series Analysis	Cluster Analysis	Advanced Statistical Models (e.g., Logistic Regression)	Presentation and Discussion
Tuesday		Understanding trends, seasonality, and forecasting.	Introduction to clustering methods: K-means, Hierarchical.	Introduction to logistic regression for binary outcomes.	