

Dear M.Phil./Ph.D./PDF Scholar

It gives us an immense pleasure to cordially invite you to participate in the Ten Days Research Methodology Course on “Advanced Data Analytics in Multidisciplinary Research Using R Language”(Sponsored by ICSSR, New Delhi) from 1st to 11th August, 2023 collectively organised by Department of Education, Department of Statistics, Department of Tourism Management, IGNTU, Amarkantak.

About IGNTU

One of the fastest growing Universities in India and it was established by the act of the parliament in year 2007. The University started functioning from July 2008. Though the University is meant of the tribal students, all other community students are also imparted quality education. The jurisdiction of the University extends to the whole country and it is fully funded by the Central Government through the University Grants Commission.

Department of Education

The Department of Education under the Faculty of Education was established in 2013 and offering with B.Sc.B.Ed./B.A.B.Ed. With its competent faculty, since 2017 onwards it offers B.Ed. two-year program, M.A. in Education and Ph.D. program which are remarkably set its strides towards the tribal development. Further, these programs are totally aimed at fostering the fullest progress of the future teachers who carries the academic velour to the rest part of the country as a whole.

Department of Statistics

Department of Statistics was established in the academic year 2016-17 to inculcate knowledge in the field of Statistics and its related disciplines. The Department is running M.Sc. and Ph.D. Programs that facilitate rich learning experiences for the learners. The department aims to train students in the development and applications of Statistical techniques for analyzing data from the scientific investigation of problems in various disciplines.

Department of Tourism Management

The Department of Tourism Management was established in the year 2010, under the Faculty of Commerce and Management. The Department at present offers BBA in Tourism and Travel, and, MBA in Tourism & Travel Management, and Ph.D. in Tourism Management. The Department has collaboration with Vidzemes University of Applied Sciences, Latvia, Indian Institute of Tourism and Travel Management, and the Indian Culinary Institute for collaborative programs are operational since 2017.

Last date for the receipt of application form	10 th July, 2023 ignturmc2023@gmail.com
Confirmation to the selected participants	15 th July, 2023
Course Dates	1 st – 11 th August, 2023
Venue	Seminar Hall, University Guest House, IGNTU, Amarkantak, (MP)



Patron

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Hon'ble Vice-Chancellor
IGNTU, Amarkantak (MP)

Course Director

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Ten Days RESEARCH METHODOLOGY COURSE

on

ADVANCED DATA ANALYTICS IN MULTIDISCIPLINARY RESEARCH USING R LANGUAGE

(Sponsored by ICSSR, New Delhi)



1st to 11th August, 2023

Organized by

Department of Education
Department of Statistics
Department of Tourism Management
Indira Gandhi National Tribal University
Amarkantak - 484887 (MP)

About the Course

This research methodology course is a platform to teach and give hands on training to the researchers from social science, management studies and other allied disciplines. Nowadays there is continuously growing demand of the researchers for the statistical data analysis, their need for statistical methods to be applied in statistical data processing through Statistical Software like SPSS and R Language (Open Source) are essential to deal with the huge data sets and to draw the interpretations. This course aims to discuss the integration and co-ordination of statistical tools at the advanced statistical and data analytic techniques to train the researchers of multi-disciplinary. This course also majorly highlighted the open access publication, usage of software tools for plagiarism detection, database and research metrics along with new statistical programs like SPSS and R Language, giving hands-on training in R-language, which are currently being used by scientists/researchers. The goal of the program is to build Data Analytical Skills among prospective young researchers from diversified fields. This training will develop the analytical skills and motivate them to get advanced knowledge in their domain. This will help them to grow into independent entrepreneurs by utilizing domain specific knowledge. The proposed course is a part of the endeavors of the Department of Education, Department of Statistics, and Department of Tourism Management of Indira Gandhi National Tribal University, Amarkantak to meet the growing need for Data Analytic Expertise in Central India.

Objectives of the course

- To discuss the philosophy and publication ethics of the research
- To generate knowledge on research tool construction and its validation.
- To explain the importance of Parametric, Non-Parametric, and Multivariate Statistical Techniques in Social Science, Life Sciences and other allied disciplines and its applications in specific research.

- To create an awareness for process and analyse huge data with proper statistical tools.
- To provide hands on training using Statistical Software like SPSS and R Language.
- To explore the new reforms in the software tools for plagiarism detection and writing of the research report.

Topics to be covered in the Course using R

- ✓ Collection and Handling of Data
- ✓ Descriptive Statistics using real time data
- ✓ Various Graphical Techniques
- ✓ Independent and Paired Samples t-tests
- ✓ Analysis of Variance, Multivariate Analysis of Variance and Analysis of Covariance
- ✓ Correlation and Regression Analysis – Univariate and Multivariate
- ✓ Different types of Cluster Analysis
- ✓ Principle Component Analysis and Factor Analysis
- ✓ Non Parametric Statistical Techniques
- ✓ Multivariate Statistical Techniques
- ✓ Advancement of Statistical Techniques in Data Analysis.
- ✓ Plagiarism detection tools like Turnitin, Urkundu, etc.

Eligibility Criteria

All registered M.Phil./Ph.D./PDF Scholars in Social Science disciplines from the UGC recognized university/deemed university/colleges/ institutes of national importance and ICSSR research institutes. Preference will be given to Scheduled Caste, and Scheduled Tribe applicants. However, in case of non-availability of requisite SC/ST participants, preference may be given to OBC, Women, and Persons with benchmark disability and minorities. Candidate will be selected on the basis of

- ✓ the strength of their research proposal (500 words in English)
- ✓ stage of research (pre-data collection / fieldwork phase), and
- ✓ first time applicants for Research Methodology/similar workshops.

Intake

The intake for the Course shall be a **maximum of 30 participants from social science disciplines (10 must be within the IGNTU, 10 from the Madhya Pradesh state, and 10 from outside the state)**. Those who have attended any such type of program sponsored by either UGC or ICSSR should not apply. The selection committee will select the participants based on Disciplines, Social Background, Gender, etc. while selecting the Candidates. Notification for selected candidates will be communicated through the registered email. Attendance for all the sessions is mandatory or otherwise the certificate shall not be issued.

How to Apply

Interested candidates can apply for the Research Methodology Course to the Course Director with duly filled registration form cum Forward letter (enclosed with this notification) on or before **10th July, 2023**. Registration form and brochure can also be downloaded from the University website www.igntu.ac.in. The candidates are required to send the filled registration form duly forwarded by the supervisor and Head of the Department/Institution and attested copy of caste to the Course Director on ignturmc2023@gmail.com

Requirements

1. Registration form cum Forwarding letter along with caste certificate (if applicable).
2. Why do you want to attend this Research Methodology course? (Write in 500 words).

Registration Fee, Accommodation, and Travel

- There is **no registration fee**.
- Free Accommodation for outstation participants only.
- Arrangement of Food, and refreshments for all participants on all the days.
- Travelling Allowance would be payable to the selected out station participants only for Train (second-class / sleeper class), or regular bus fare subject to a maximum of Rs.1000/- per participant (Up and Down) as per ICSSR rules subject to production of original tickets. No local conveyance would be reimbursed.



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Indira Gandhi National Tribal University, Amarkantak, Madhya Pradesh – 484887



REGISTRATION FORM CUM FORWARDING LETTER

1. Name (in capital letters):
2. Date of Birth:
3. Educational Qualifications:
4. Gender:
5. Social Category (General/SC/ST/OBC/PHs/Minorities):
6. Date of M.Phil./Ph.D./PDF Registration:
7. Topic of Research:
8. Area of Specialization:
9. Present Status of Research:
10. Department:
11. Name of the Institution/University where M.Phil./Ph.D./PDF enrolled:
12. Address for Communication:
13. Email and Mobile No.:
14. Accommodation required: Yes/No
15. Have you attended any Research Methodology Programme earlier sponsored by UGC/ICSSR?
16. If yes, please give the details:
17. Why do you want to attend this Research Methodology course? (write in 500 words):



I am here by submitting my registration form along with photograph and duly forwarded by Research Supervisor/Head/Dean of the Faculty.

Date and Place:

(Signature of applicant)

Supervisor
(with signature and seal)

Head/ Dean
(with signature and seal)

Note: Mail this Filled registration form cum forwarding letter to ignturmc2023@gmail.com