



**Indian Council of Social Science Research (ICSSR) Sponsored
Research Methodology Course on
Advanced Data Analytics in Multidisciplinary Research using R Language
(1st – 11th August, 2023)**

Organized by

Department of Education, Department of Statistics, Department of Tourism Management
Indira Gandhi National Tribal University, Amarkantak, Madhya Pradesh – 484887

Lr.No. IGNTU/RMC/2023/13

Date: 14/07/2023

To

Honey Soni

Department of Commerce

Dr. Hari Singh Gour University, Sagar

Dear Participant,

Sub: IGNTU-ICSSR sponsored Ten Days Research Methodology Course - Offer Letter to participate - Reg.

I am so pleased to share with you that the Department of Education, Department of Statistics and Department of Tourism Management jointly organizing the ICSSR sponsored **Research Methodology Course on Advanced Data Analytics in Multidisciplinary Research using R Language** during **1st – 11th August, 2023** at Indira Gandhi National Tribal University, Amarkantak, MP (**Offline mode**).

I am happy to inform you that you have been selected to participate in the above said course. In this connection, you are requested to confirm your participation through email **ignturmc2023@gmail.com** on or before 16.7.2023 @ 5 PM.

It is also informed that, you are required to submit the relieving order from your parent institution before the start of the course, without which you are not allowed to attend the course.

The TA will be given 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. Accommodation may provide from **31.07.2023 6 PM onwards to 11.8.2023 6 PM**.

I request you to share your journey details (Up and Down) at the earliest to **ignturmc2023@gmail.com**.

Note: You are compulsorily requested to carry your own Laptop for the course.

Thanking you,

Sincerely,

(Prof. M.T.V. Nagaraju)

Course Director

Contact for further information if any,

Dr. S. Balaswamy (Co-course Director, Mobile: 9100539430)

Dr. Jayaprakashnarayana G (Co-course Director, Mobile: 9963611676)



DEPARTMENT OF COMMERCE
Dr. Hari Singh Gour Vishwavidyalaya, SAGAR (M.P.) 470 003
(A Grade University Accredited by National Assessment and Accreditation Council)
(Central University)

क. वाणिज्य / 2023/4109

दिनांक 27/7/23

Relieving Letter

To,

The Course Director

Department of Education, Statistics and Tourism Management

Indira Gandhi National Tribal University, Amarkantak (M.P.)

Subject: Relieving Letter

Reference: Your formal invitation letter to participate in ICSSR Sponsored Ten Days Research Methodology Course by e-mail, Dated- 14th July, 2023.

This is in reference cited above, Ms. Honey Soni (Y21481008), Research Scholar, Department of Commerce, Dr. Harisingh Gour Vishwavidyalaya, Sagar (M.P.) will be hereby relieved from the department from 1st – 11th August, 2023 to attend the aforesaid course on "Advanced Data Analytics in Multidisciplinary Research using R Language" organized by Department of Education, Statistics and Tourism Management IGNTU, Amarkantak M.P. (1st - 11th August 2023). She may be relieved on 11th August, 2023 to join the parent department.

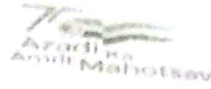
Head of the Department
Head of the Department

प्रोफेसर एवं अध्यक्ष/Professor and Head
वाणिज्य विभाग/Department of Commerce
डॉक्टर हरीसिंह गौर विश्वविद्यालय, सागर (म.प्र.)
Doctor Hari Singh Gour Vishwavidyalaya, Sagar (M.P.)

Copy to:

1. Ms. Honey Soni, Research Scholar, Department of Commerce, Dr. Harisingh Gour Vishwavidyalaya, Sagar (M.P.)





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Research Methodology Course on
Advanced Data Analytics in Multidisciplinary Research using R Language
(1st – 11th August, 2023)**

Organized by
Department of Education, Department of Statistics, Department of Tourism Management
Indira Gandhi National Tribal University, Amarkantak, Madhya Pradesh – 484887

Lr. No. IGNTU/ICSSR/RMC/2023/ 13

Date: 11/08/2023

ATTENDANCE CERTIFICATE CUM RELIEVING ORDER

This is to certify that ..Honey Seno, Research scholar, Department of Commerce,
Dr. Hareish Singh Chauhan Vasthavidyalaya, Sagar (M.P.) - 474003 has
participated in the ICSSR Sponsored *Research Methodology Course on Advanced Data Analytics in
Multidisciplinary Research using R Language* during 1st – 11th August, 2023 organized by Department of
Education, Department of Statistics and Department of Tourism Management Indira Gandhi National Tribal
University, Amarkantak, Madhya Pradesh and he/she is relieved on 11th August, 2023 at 6PM.

Thanking you,

Sincerely


(Prof. M.T.V. Nagaraju)
Course Director

Contact for further information if any,
Dr. S. Balaswamy (Co-course Director, Mobile: 9100539430)
Dr. Jayaprakashnarayana G (Co-course Director, Mobile: 9963611676)



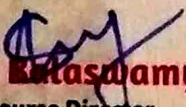
**ICSSR Sponsored
Research Methodology Course
on**

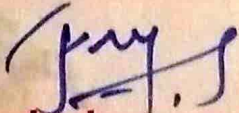
**ADVANCED DATA ANALYTICS IN
MULTIDISCIPLINARY RESEARCH USING R LANGUAGE**

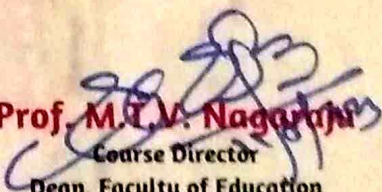
1st-11th August, 2023

CERTIFICATE

This is to certify that Ms. Honey Soni, Research Scholar, Department of Commerce, Dr. Hari Singh Gour University, Sagar, Madhya Pradesh, has participated in **ICSSR Sponsored Ten Days Research Methodology Course** on 'Advanced Data Analytics in Multidisciplinary Research using R Language' organized by the **Department of Education, Department of Statistics, and Department of Tourism Management, Indira Gandhi National Tribal University, Amarkantak, Madhya Pradesh** and successfully completed the course.


Dr. S. Balasubramany
Co-course Director
Assistant Professor,
Dept. of Statistics
IGNTU, Amarkantak M.P.


Dr. Jayaprakashnarayana G
Co-course Director
Assistant Professor,
Dept. of Tourism Management
IGNTU, Amarkantak M.P.


Prof. M. T. V. Nagarajan
Course Director
Dean, Faculty of Education
IGNTU, Amarkantak M.P.



INDIRA GANDHI NATIONAL TRIBAL UNIVERSITY, AMARKANTAK (M.P.)

ICSSR SPONSORED



TEN DAYS RESEARCH METHODOLOGY COURSE ON



**Indian Council of
Social Science Research**

ADVANCED DATA ANALYTICS IN MULTIDISCIPLINARY RESEARCH USING R LANGUAGE

(1st to 11th August, 2023)



Organized by

**Department of Education
Department of Statistics**

**Department of Tourism Management
Indira Gandhi National Tribal University, Amarkantak, Madhya Pradesh**

Co-Course Directors

**Dr. S. Balaswamy
Assistant Professor**

**Department of Statistics
IGNTU, Amarkantak (M.P.)**

**Dr. Jayaprakashanarayana G.
Assistant Professor**

**Department of Tourism Management
IGNTU, Amarkantak (M.P.)**

Course Director

Prof. M.T.V. Nagaraju

**Dean, Faculty of Education
Indira Gandhi National Tribal
University, Amarkantak (M.P.)**

DEPARTMENT OF COMMERCE
DR. HARISINGH GOUR VISHWAVIDYALAYA, SAGAR (M.P.)

PARTICIPATION REPORT

Ten Days Research Methodology Course

On

“Advanced Data Analytics in Multidisciplinary Research using R Language”

(Sponsored by ICSSR, New Delhi)

Date: 1st to 11th August, 2023

Organized by:

Department of Education

Department of Statistics

Department of Tourism Management

Indira Gandhi National Tribal University, Amarkantak (M.P.)

Course Director

Prof. M.T.V. Nagaraju
Dean, Faculty of Education

Co-Course Directors

Dr. S. Balaswamy
Assistant Prof. of Statistics

Dr. Jayprakashnarayana G
Assistant Prof. of Tourism Management

Participant:

Name- Honey Soni (Research Scholar)

Reg.No. Y21481008

Department of Commerce

Dr. Harisingh Gour Vishwavidyalaya, Sagar (M.P.)

Date of application for the Participation: 30/06/2023

Reliving form the parent dept.: 01/08/2023

Rejoin in the parent dept.: 14/08/2023

Course objectives:

1. To discuss the philosophy and publication ethics of the research.
2. To generate knowledge on research tool construction and its validation.
3. To explain the importance of parametric, non-parametric, and multivariate statistical techniques in social science and other allied disciplines.
4. To provide hands on training using statistical software like SPSS and R Language.
5. To explore the new reforms in the software tools for plagiarism detection and writing of the research report.

Schedule of the Programme

Date/ Session	1 st Session	2 nd Session	3 rd Session	4 th Session
01/08/2023	Inaugural Session Resource Person: Honourable vice-chancellor of IGNTU Prof. Shri Prakash Mani Tripathi,	Resource Person: Prof. D.K. Dey Topic: Designing of sampling techniques for social science research	Resource Person: Dr. Vinod Sen Topic: Research topic selection and objective framing	Resource Person: Prof. G.B.S. Johri Topic: Research methods and approaches
Lecture Summary	The Inaugural session has been started in the presence of the honourable vice-chancellor of IGNTU Prof. Shri Prakash Mani Tripathi, Prof. M.T.V. Nagaraju, Prof. D.K. Dey, and other faculty members.	Dr. Dey taught us the value of numbers in statistics. He has discussed various sampling techniques that we use in social science research.	Dr. Vinod has discussed how to select and frame research topics and objectives for our study. He has also explained how to identify research problems.	Prof. Johri has explained the various research methods and approaches by which we try to find the truth of any phenomenon and answer the problem.
02/08/2023	Resource Person: Dr. Ramesh M Topic: Validity and trustworthiness of research	Resource Person: Prof. G.K. Rout Topic: Research tools	Resource Person: Dr. Sanjeev Bakshi Topic: Introduction to statistical software for handling data	Resource Person: Dr. Sanjeev Bakshi Topic: Practical session of statistical software

Lecture Summary	Dr. Ramesh has explained how we will measure the validity and trustworthiness of our research.	Prof. Rout has explained the basics of research & its types, variables, research tools, and measurement scales.	Dr. Bakshi has introduced the basics of SPSS and R language. In which he has demonstrated some practical problems.	Sir has provided hands on training on R using different statistical tests such as t-test, ANOVA, Correlation, Regression etc.
03/08/2023	Resource Person: Dr. Samson R Victor Topic: MOOCS	Resource Person: Dr. Samson R Victor Topic: Learning Management System	Resource Person: Dr. Akash Ranjan Singh Topic: Statistics and its uses in medical sciences	
Lecture Summary	Dr. Samson has discussed all about the MOOCS platform and explained how we can create our own content on these platforms.	Sir has explained about various statistical software like SPSS, Gnomio, Jamovi.	Dr. Akash has explained about the research process, research writing and types of distribution (parametric & non-parametric) in the hospital and healthcare setting.	
04/08/2023	Resource Person: Prof. Ranjan Kumar Sahoo Topic: Parametric and Non-parametric data techniques		Resource Person: Dr. Charles Varghese Topic: Ethnographic studies	Resource Person: Dr. Balaswamy Topic: Data analysis using R
Lecture Summary	Prof. Sahoo has taught us the importance of data in statistics and discussed about various parametric and non-parametric techniques, sampling & non-sampling errors etc.		Sir has given lecture on “Doing critical ethnography: some reflections”	Sir has taken practical session on R language.
05/08/2023	Resource Person: Dr. Sankar Reddy Kolle Topic: Library and E-library training	Resource Person: Dr. Sankar Reddy Kolle Topic: Practical Session on E-resources	Resource Person: Dr. Mohit Garg Topic: Resources and referencing styles	Resource Person: Dr. Mohit Garg Topic: Practical session on plagiarism detection tools
Lecture Summary	Dr. Kolle has introduced various e-resources that we can use in our research study.	Sir has taken a practical session on E-resources in which we have done some practical work related to accessing e-material from different publications.	Dr. Garg has discussed about three “RRR” which refers to Resources, Research, and References.	Sir has demonstrated various plagiarism detection tools, software and referencing styles.

07/08/2023	Resource Person: Dr. Ramesh Kumar Miryala Topic: Correlation & regression analysis using SPSS & R language		Resource Person: Dr. R. Vishnu Vardhan Topic: Univariate and multivariate graphical procedures using R
Lecture Summary	Sir has discussed about the use of collective measures of statistics and which tool have to be used in our study. He has given hands on training of correlation and regression on R.		Sir has given lecture on “Statistician: The Data Doctor”. In this, he has explained about real time data analysis, univariate and multivariate graphical procedures using R.
08/08/2023	Resource Person: Dr. Sanjeev Bakshi Topic: Practical session on R language		Resource Person: Prof. Shamim Ahmad, Dr. Anil Kumar Tamta Topic: Presentation
Lecture Summary	Dr. Bakshi has taken practical session on R and explained which tool has to be used in the research study with some examples.		All the students have given his/her power point presentation on any specific topic according to their area of interest.
09/08/2023	Resource Person: Dr. Biswajit Patra Topic: Univariate and multivariate Analysis		Resource Person: Prof. Raksha Singh Topic: Research ethics
Lecture Summary	Dr. Patra has discussed various data type and time series analysis. He has also taught how we can analyze univariate and multivariate data using R software.		Prof. Raksha has explained all about research and publication ethics with some case studies.
10/08/2023	Resource Person: Dr. N. Srinu Topic: E-views		Resource Person: Prof. M. Rabindranath Topic: Role of media in social science research
Lecture Summary	Dr. Srinu has introduced all about E-Views and given hands on experience on that.		Sir has discussed the importance of media in social science research.
11/08/2023	Test Dr. Balaswamy	Practice on R Dr. Balaswamy	Chief Guest: Shri Guntha Laxman Valedictory Session

Lecture Summary	We have given online 30 minutes objective type test on R Language.	Queries and doubt session has been taken by Dr. Balaswamy sir.	Valedictory session has been completed in the presence of the honourable vice-chancellor of IGNTU Prof. Shri Prakash Mani Tripathi, Chief Guest Shri Guntha Laxman, Prof. M.T.V. Nagaraju, Prof. Johri and other faculty members.
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Research Methodology Course Outcome:

1. This course has brought deeper understanding of advanced statistical techniques and its application for multidisciplinary research project.
2. From this course, participants have enhanced their proficiency in utilizing the SPSS and R programming language for advanced data analysis.
3. This course has improved capability to interpret and draw insights from diverse data sources.
4. This course has made clear understanding of how to conduct research process including framing good title for research study, constructing objectives and hypothesis testing etc.
5. In this course, participants have learned about various types of useful e-contents, data analysis software, plagiarism detection tools, and referencing styles.

Remark:

1. This course is highly commendable for its comprehensive coverage of advanced data analysis. Participants have gained necessary skills using SPSS and R language from esteemed resource persons. Overall, this course served as a valuable resource for researchers.