

**MHRD (IMPRESS Scheme) and ICSSR,
New Delhi sponsored**

**NATIONAL WORKSHOP
ON
RESEARCH METHODOLOGY & DATA ANALYSIS
(RMDA 2019)**

**WORKSHOP DURATION: 24-30 JUNE 2019
VENUE: National Institute of Technology, Hamirpur**

INFORMATION BROCHURE



**DEPARTMENT OF HUMANITIES AND SOCIAL SCIENCES
NATIONAL INSTITUTE OF TECHNOLOGY
HAMIRPUR – 177 005
HIMACHAL PRADESH, INDIA**

ORGANISING COMMITTEE

Patron

Prof. Chandra Shakher
Chairman BoG, NIT Hamirpur

Chairman

Prof. Vinod Yadava
Director, NIT Hamirpur

Co-Chairman

Dr Saroj Thakur
Head
Department of Humanities and Social Sciences, NIT Hamirpur

Convener & Coordinator

Dr Manoj Sharma
Assistant Professor Grade I
Department of Humanities and Social Sciences, NIT Hamirpur

Organising Team Members

**Prof Piar Chand, Dr Yogesh Gupta, Dr. Vivek Tiwari,
Dr. Mohd. Adil, Dr. Manoj Kumar Yadav, Dr Sunder Kala Negi**

ABOUT THE INSTITUTION

National Institute of Technology, Hamirpur is one of the premium institutions of India. It was established in 1986 as Regional Engineering College, a joint and cooperative enterprise of the Government of India and Himachal Pradesh. The institute was declared as the Institute of national importance under the Act of Parliament in 2007. It offers Graduate, Postgraduate and Doctorate Education in Engineering, Architecture, Sciences, Humanities, Social Sciences and Management. The Institute emphasises on basic and applied research by maintaining close interaction with the relevant industries and organisations. The institute is located in the footsteps of Shivalik ranges and provides a panoramic view of snow-covered Dhauladhar ranges. Over a period of time, the institute has made its rank among the leading technical institutions of the country.

ABOUT THE DEPARTMENT

The Department of Humanities and Social Sciences has an interdisciplinary orientation and expertise in diversified fields of Communication Skills, Economics and Behavioral Science in order to cater to the needs of B.Tech, B.Arch. and PhD students of the institute. Faculty members possess a blend of academic and professional experience which facilitates disseminating of knowledge to the students through classroom sessions and independent student activities.

ABOUT THE WORKSHOP ON RESEARCH METHODOLOGY AND DATA ANALYSIS (RMDA 2019)

Research is the systematic and objective process of gathering, recording and analysing data for taking appropriate & meaningful decisions. It connotes patient study and scientific investment, wherein the researcher takes a more careful look at data to discover all that

could be known more deeply about the subject under study. Applied research facilitates managerial decision-making and reduces uncertainty. To keep pace with the recent advancement in any discipline, one has to be well versed with the latest developments in research methodology. Keeping in view the importance of research methodology, Workshop on Research Methodology & Data Analysis (RMDA 2019) aims to explore the basic dimensions of research and the concomitant need for participants to rethink about the assumptions that underlie historic paradigms of research.

The workshop is designed to offer the participants a hands-on approach to conduct research. On completion of the workshop, participants are likely to have developed the skills to review the literature, develop hypotheses, frame research design, identify sampling techniques and comprehend the role and relevance of the tools for data collection and analysis. The seven-day workshop will expose the participants to brief theoretical as well as practical inputs. The participants are expected to bring their research problem & data if they have to work on during the workshop and at the end, they would perform data analysis independently and would make a presentation before the class.

RMDA 2019 FOR WHOM

The PG Students, PhD Scholars, Academicians, Practitioners and Researchers from the related areas of Social Sciences, Humanities, Management, Medical Science, Engineering and Science can attend the workshop if the contents covered found relevant.

OBJECTIVES

- To provide an overview of Contemporary Research Methodology & Review of Literature.
- To provide the platform for discussion on the methodological requirements of research and to simulate & capture new approaches.
- To enable researchers, irrespective of their discipline, in developing the most appropriate methodology for their research studies.
- To make them familiar with the art of using different research methods and techniques.
- To provide the platform for discussion on the statistical requirements of the research.
- To train and inculcate the skills for Data Analytics.
- To guide participants for Publishable Technical Writings (including Research Ethics)

EXPECTED LEARNING OUTCOME

- Understanding of Research Concepts & Methodology.
- Choose the right statistical technique for different research questions.
- Analyse data using basic and advance statistical techniques in Statistical Software.
- Interpret analysis of output tables and report findings for publishing.

CONTENT TO BE COVERED IN RMDA 2019

<ul style="list-style-type: none"> • Introduction to Research, Fundamentals of Research Uses of Software in Research 	<ul style="list-style-type: none"> • Data Analysis: Introduction to SPSS & Basic Terminology
<ul style="list-style-type: none"> • Types of Research: Fundamental, Applied, Exploratory, Multidisciplinary Research 	<ul style="list-style-type: none"> • Data Analysis: Data Entry, Coding & Cleaning
<ul style="list-style-type: none"> • Conceptualization of Variables and Measurement: Types of Variables, Measurement of Variables, Reliability and Validity in Measurement 	<ul style="list-style-type: none"> • Testing of Hypothesis: Parametric & Non-Parametric Tests • Analysis & Compilation of Results: Hands-on experience with applied problems
<ul style="list-style-type: none"> • Research Problem: Qualitative and Quantitative Research 	<ul style="list-style-type: none"> • Multiple Regression Analysis: Variables in Multiple Regression, Scale of Measurement
<ul style="list-style-type: none"> • Research Design, Identification of Research Topics, Hypothesis Formulation 	<ul style="list-style-type: none"> • Estimation of Multiple Regression Equation and Interpretation
<ul style="list-style-type: none"> • Review of Literature, Referencing in Writing using software 	<ul style="list-style-type: none"> • Additive and Multiple Regression Models
<ul style="list-style-type: none"> • Tools & Techniques of Data Collection: Primary & Secondary, Data Collection Questionnaire Design & Testing 	<ul style="list-style-type: none"> • Use of Qualitative Variables in Multiple Regression • Hands-on Experience: Multiple regression
<ul style="list-style-type: none"> • Sampling and its application: Determining the size of the sample Practical considerations in sampling and sample size, sample size determination 	<ul style="list-style-type: none"> • Factor Analysis: Exploratory and confirmatory factor analysis • Methods and concepts of factor analysis
<ul style="list-style-type: none"> • Reliability and Validity of Measurement and Data 	<ul style="list-style-type: none"> • Choosing cut off value for Factor Loading, • Decision on The Number of the Factors to Extract
<ul style="list-style-type: none"> • Tabulation and Graphic presentation of data: Master Table, frequency table • Descriptive Statistics & Inferential Statistics 	<ul style="list-style-type: none"> • Dissertation / Thesis / Report Writing, Writing Academic Research Papers, Referencing in Writing • Writing Academic Research Papers
<ul style="list-style-type: none"> • Bivariate Tools and their application 	<ul style="list-style-type: none"> • Ethical and Copyright Issues (Plagiarism) in Research • Problems faced during Research and their Remedies

IMPORTANT INFORMATION

ELIGIBILITY: The PG Students, PhD Scholars, Academicians, Practitioners and Researchers are eligible to attend the workshop to whom the contents of the workshop are relevant.

NUMBER OF SEATS: A maximum intake for the workshop will be 30 participants only.

STAY ARRANGEMENTS: Participants may stay in Institute Hostels (*if available*).

REGISTRATION DETAILS

LAST DATE FOR application: 20 June, 2019
Last Date for REGISTRATION: 22 June, 2019

REGISTRATION FEE

Rs. 500 per Participant

PAYMENT MODE

**Demand Draft (DD) in favour of The Director, NIT Hamirpur,
Payable at SBI, NIT Hamirpur (HP)**

ADDRESS FOR CORRESPONDENCE

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Convener & Coordinator (RMDA 2019)

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**Department of Humanities and Social Sciences
National Institute of Technology
Hamirpur – 177 005
Himachal Pradesh, India**

Note: The eligible and willing candidates need to email the filled registration form at rmda.nith2019@gmail.com. The selected candidates will be informed on 21st June, 2019 by email only.

NOTE: No TA/DA will be paid to the participants.

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NATIONAL INSTITUTE OF TECHNOLOGY HAMIRPUR, HIMACHAL PRADESH, INDIA**

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Workshop on Research Methodology & Data Analysis (RMDA 2019)
on 24-30 June 2019**

REGISTRATION FORM

SECTION – A: BASIC DETAILS

Name (Dr./Mr./Ms.): _____

Designation: _____

Gender Male Female

Participant's Category: Faculty Research Scholar Student Other

Research area/ Discipline _____

Teaching/ Research Experience (if Applicable) _____

Affiliation: _____

Postal Address: _____

District _____ State _____ PIN: _____

Email ID: _____ Contact No.: _____

SECTION – B: REGISTRATION FEE DETAILS

Bank Name & Branch: _____ DD No.: _____ Date: _____

SECTION – C: ACCOMMODATION

Do you want Accommodation for workshop days 24-30, 2019 at NIT Hamirpur?

(NOTE: Accommodation will be provided on sharing basis as per the availability)

Yes No

Place:

Date:

Signature of the Participant