भारतीय प्रौद्योगिकी संस्थान तिरुपति

IIT TIRUPATI

Workshop on

RESEARCH METHODOLOGY & MULTIVARIATE DATA ANALYSIS

20th -24th May, 2024

Indian Institute of Technology Tirupati
Department of Humanities and Social Sciences

About IIT Tirupati

Indian Institute of Technology Tirupati is the first among the third generation of IITs, announced in 2014, to have its foundation stone laid in March 2015. Initially mentored by IIT Madras, now IIT Tirupati, the fastest growing 3rd generation IIT, is located in Yerpedu, Tirupati, and has a size of 539 acres, including a proposed research park. The academic program was launched in August 2015 by admitting students in the B. Tech programme in the fields of Civil Engineering, Computer Science & Engineering, Electrical Engineering and Mechanical Engineering. The curriculum has an emphasis on theoretical knowledge and practice-oriented laboratories. Courses are planned to nurture innovation, creativity, quality, teamwork, communication skills, ethics and societal interaction.

About the Programme

The Department of Humanities and Social Sciences, Indian Institute of Technology Tirupati, is offering a 5-Day Workshop on “Research Methodology and Multivariate Data Analysis” from May 20 to 24, 2024. The programme has been designed to provide participants with exposure to the fundamentals of the research process, identification of the research problem, literature review, selection of appropriate research design and various other phases of research. The 5-day workshop includes a detailed discussion on various tools and techniques for data analysis and hands-on sessions with statistical software.

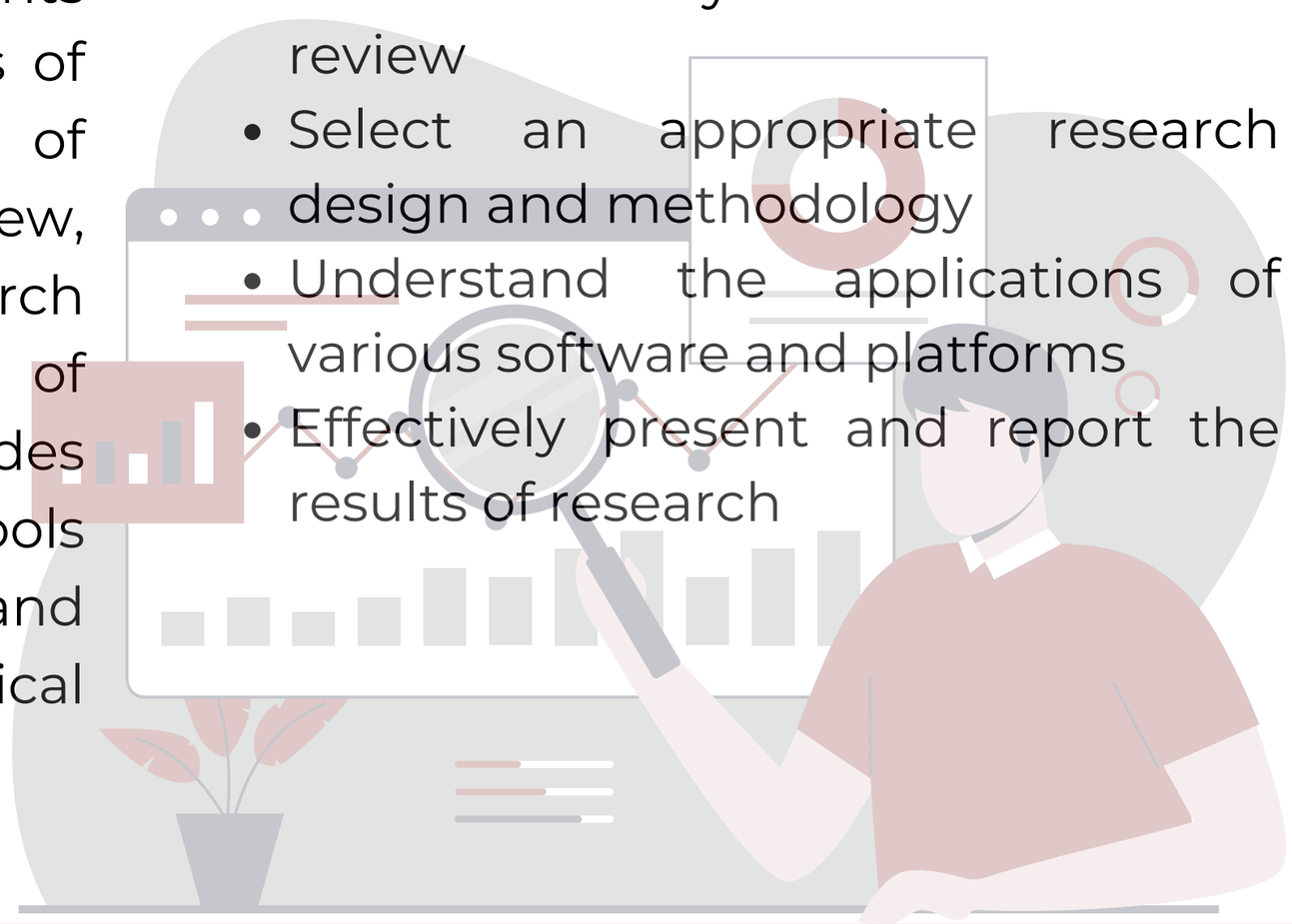
About the Department

The Department of Humanities and Social Sciences at IIT Tirupati, established in 2015, offers a two-year post-graduate programme titled Master of Public Policy as well as PhD in various disciplines. The department is active in research areas of social and political philosophy, contemporary Indian thought, development economics, climate change economics, environmental economics, natural resource management, behavioral economics, Indian theories of language and literature, conflict literature, empirical asset pricing, financial engineering and risk management, organizational leadership, sustainable HRM, decent work and work engagement, operations management, industrial engineering, operations research and supply chain management.

Programme Objectives

The main objective of this programme is to help participants develop research skills. To this end, the programme will help participants to:

- Identify and define a research problem
- Conduct a systematic literature review
- Select an appropriate research design and methodology
- Understand the applications of various software and platforms
- Effectively present and report the results of research



Who should attend ?

The programme is open for faculty and research scholars from various disciplines including management, humanities and social sciences, engineering, etc. PG students who are interested in learning the basics of research methodology are also encouraged to apply.

Programme Fee & Registration Process

The programme fee is **Rs. 5000/-** per participant. The fee includes workshop materials, lunch and snacks for all five days. The participants will have to make their own arrangements for boarding and lodging. However, limited accommodation will be available on first-cum-first-serve basis on a nominal charge.

The fee shall be paid online via given Bank account details/UPI/QR code:

Account Name	Indian Institute of Technology Tirupati
Account Number	42225683319
Bank	State Bank of India
IFSC Code	SBIN0061587
Branch Name	Yerped - 61587
UPI	9493173679@sbi

After paying the fee, the candidate should fill out the registration form and upload the payment receipt using this link.

Contact the workshop coordinators for details regarding group registration.

The deadline for registration is 12 May 2024.

Programme Contents

- Overview of Research Process
- Systematic Literature Review & Bibliometric Analysis
- Fundamentals of Data Analysis
- Multivariate Data Analysis Techniques
- MANOVA
- Exploratory and Confirmatory Factor Analysis, Structural Equation Modeling
- Cluster Analysis
- Logistic Regression and Discriminant Analysis
- Conditional Process Analysis
- Research Ethics
- Academic Writing

All participants are strongly advised to bring their laptops to actively engage in the hands-on sessions.

Programme Coordinators

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