

KARNATAKA SCIENCE AND TECHNOLOGY ACADEMY (KSTA)

DEPARTMENT OF SCIENCE AND TECHNOLOGY, GOVERNMENT OF KARNATAKA

FIVE DAY TRAINING PROGRAM

ON

Research Methodology, Research & Publication Ethics

OCTOBER 3 - 7, 2023 (TUESDAY - SATURDAY)

TIME: 10.00 AM - 5.30 PM | VENUE: KSTA AUDITORIUM

Introduction

Research is the cornerstone to broaden the horizon of our knowledge through systematic investigation. It will establish or confirm facts or reaffirm results of previous work or solve new or existing problems or support theorems or develop new theories. Further, it could also be an extension of previous works in the field. In view of this, it is essential to design a sound research methodological process to overcome challenges, while carrying out research. A good research methodology is a key to get quality output.

In this context, it is necessary to expose PG Students and Research Scholars to Research Methodology. Hence, a short term training workshop has been designed to cover fundamentals of research

methodology, focusing on various aspects related to defining research problems, designing of research method, sampling design, testing of hypothesis, Intellectual Property Rights (IPRs), interpretation & report writing etc. as per Visvesvaraya Technological University (VTU) syllabus. Thus, the proposed workshop intends to provide an opportunity to participants to broaden the horizon of their knowledge in research methodology as well as to enrich their skills in conducting quality research. This workshop will also focus on basics of philosophy of science and ethics, research integrity, publication ethics, and identifying research misconduct and predatory publications. Indexing and citation database, open access publications, research metrics and plagiarism tools will be discussed.

About KSTA

KSTA is an autonomous organization under the Department of Science and Technology, Govt. of Karnataka. KSTA was established under the Chairmanship of Distinguished Space Scientist, Late Prof. U R Rao, Padma Vibhushan Awardee, Former Chairman, ISRO / Secretary, DOS, Govt. of India in 2005.

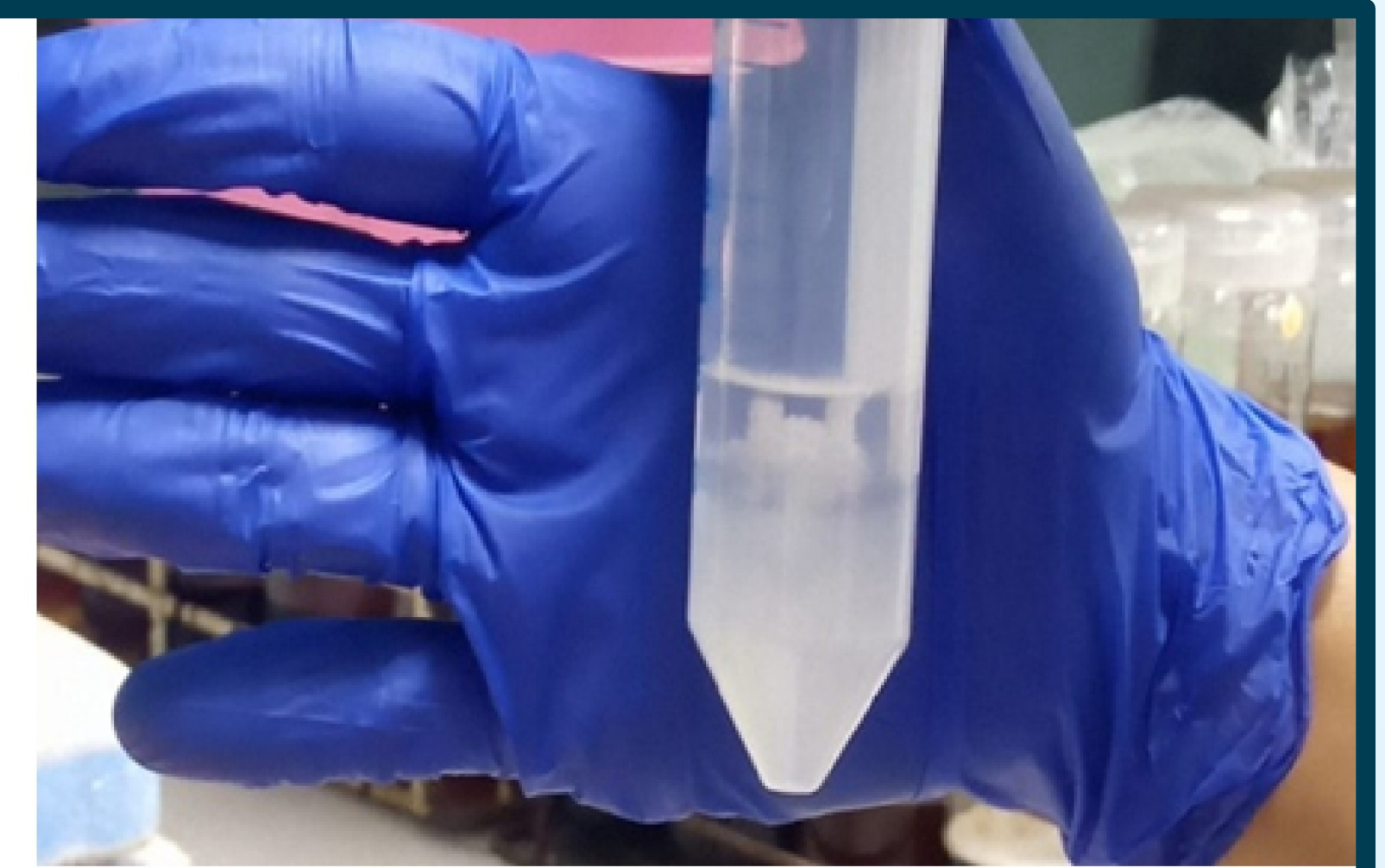
Some of the major programs of KSTA include: KSTA Annual Science and Technology Conference; S&T Conference in Kannada; Prof. C.N.R. Rao Lifetime Achievement Award in STEAM (Science, Technology, Engineering, Agriculture & Medicine); Lifetime Achievement Award in STEAM Communication in Kannada; Award for Young Innovators (Dr. S. K. Shiva Kumar Award for UG students & Prof. U. R. Rao Award for PG Students) and KSTA Award for

innovation by the General Public; Digital Content Generation; PG Special Lecture Series; Certificate Courses; Quiz, Essay, Science Modelling Competitions; Collaborative Programs with R & D Institutions, Small Grants for short term studies and science promotion; publication of Policy/Strategy/Status/Approach papers on important topics; Academy Fellowships & associateship and so on.

KSTA has been bestowed with the prestigious national award for "Outstanding Efforts in Science and Technology Communication - 2022" by the National Council for Science and Technology Communication (NCSTC), the Department of Science and Technology, Government of India.

Objective

- ✦ To enable participants to understand various aspects of Research Methodology
- ✦ To expose the participants to new & emerging trends in research
- ✦ To enable the participants to understand how to define a research problem and to learn about Qualitative & Quantitative Research Techniques
- ✦ To help participants to know the various stages of research process and to prepare Research Papers/Reports



Contact

Chief Executive Officer

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Topics to be Covered

Day 1- October 3, 2023 (Tuesday):

- Introduction, Meaning of Research, Objectives of Research, Types of Research; Significance of Research, Research Methods versus Methodology, Research and Scientific Method, Research Process
- Criteria of Good Research, Problems Encountered by Researchers in India
- Research Problem, Necessity of Defining the Problem & Technique Involved in Defining a Problem
- Meaning & Need for Research Design, Features of a Good Design & Important Concepts relating to Research Design

Day 2- October 4, 2023 (Wednesday):

- The literature review in research, bringing clarity and focus to research problem, Improving research methodology, broadening knowledge base in research area; Developing a theoretical, a conceptual framework
- Introduction to Sampling Design, Sampling and Non-sampling; Errors, Sample Survey versus Census Survey
- Introduction to Data Collection, Qualitative and Quantitative Data Collection & Classifications of Measurement Scales
- Chi-square Test & Cautions in Using Chi Square Tests & Case Study Methods

Day 3- October 5, 2023 (Thursday):

- Types of Reports, Steps & Precautions in Writing Report; Report Interpretation & Significance of Report Writing
- The Concept, Intellectual Property System in India & Regime in India
- The Protection of Plant Varieties and Farmers' Rights Act & The Semi-Conductor Integrated Circuits Layout Design Act; Trade Secrets & Utility Models
- IPR and Biodiversity, Paris Convention for the Protection of Industrial Property, National Treatment, Right of Priority, Patent Cooperation Treaty (PCT)

Day 4- October 6, 2023 (Friday):

- Berne Convention for the Protection of Literary and Artistic Works, Basic Principles, Duration of Protection, Trade Related Aspects of Intellectual Property Rights
- Introduction to Philosophy & Ethics with respect to Science and Research
- Writing Research Proposal & Research Papers
- Publication ethics, Violation of publication ethics and authorship

Day 5- October 7, 2023 (Saturday):

- Intellectual honesty and research integrity & Selective reporting and misrepresentation of data
- Open access publications & Software tools to identify predatory publications & Plagiarism
- Bibliography Management in LaTeX

PARTICIPANTS : PG Students/Faculty Members/Research Scholars of Science and Engineering Disciplines

REGISTRATION FEES

- PG/Research Scholars/KSTA Associates/Students of Institutional Members Rs. 2,500/- without accommodation and with accommodation Rs. 3,500/-
- Teaching Faculty/Mid Career Scientist/Faculty: Rs. 3,000/- without accommodation and with accommodation Rs. 4,500/-

The registration fee covers Breakfast, Tea/Coffee, Lunch and Dinner on the training days. The mode of payment of fee will be through online.

REGISTRATION FEE - NON REFUNDABLE

Dr A M Ramesh

CEO, KSTA

Shri V. K. Srinivas

Course Coordinator, KSTA

REGISTRATION

<https://forms.gle/MQsVcBZ2YuDcHVCP7>

**LAST DATE FOR
REGISTRATION:**

SEPTEMBER 30, 2023

