



ATRIA INSTITUTE OF TECHNOLOGY

Developing a Complete Professional
(Approved by AICTE, Affiliated to VTU and NAAC Accredited)

Dept. of ISE

ACTIVITY REPORT

Activity Name: EMERGING TRENDS IN INNOVATION, RESEARCH METHODOLOGY AND IPR

Organizers: Prof. Srinivas B.V, Prof. Omprakash B, Prof. Syeda Roshni Ahmed
Dr Jyothi Metan, Prof Kavitha S Patil

Date: 28,29 and 30th of September

Duration: 9:30pm to 3:30pm

ACADEMIC YEAR 2021-22

**ATRIA INSTITUTE OF TECHNOLOGY,
Adjacent Bangalore Baptist Hospital, Hebbal, Bengaluru - 560 024**

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APPROVAL LETTER/ BROCHURE/ POSTER

POSTER

Patron:

Dr. T N Sreenivasa

Principal, Atria Institute of Technology,
Bengaluru.

Convener:

Dr. Shanthi Mahesh

Professor and Head, Department of ISE,
Atria Institute of Technology,
Bengaluru.

Organizers

Dr. Jyoti Metan

Associate Prof, Dept of ISE, Atria IT.

Mrs. Kavitha S Patil

Assistant Prof, Dept of ISE, Atria IT.

Mr. Srinivas B V

Assistant Prof, Dept of ISE, Atria IT.

Mr. Omprakash B

Assistant Prof, Dept of ISE, Atria IT.

Ms. Syeda Roshni Ahmed

Assistant Prof, Dept of ISE, Atria IT.

Vision

To develop competent professionals with strong fundamentals in Information Science and Engineering, interdisciplinary research and ethical values for the betterment of the society.

Mission

M1 - To establish a transformational learning ambience with good infrastructure facilities to impart knowledge and the necessary skill set to produce competent professionals.

M2 - To create a new generation of engineers who excel in their career with leadership/entrepreneur qualities.

M3 - To promote sustained research and innovation with an emphasis on ethical values.

ABOUT FDP

In the last two decades, emerging theories in qualitative and quantitative research have drawn attention to the complexities that inherit in research. In light of these theories, research can no longer be regarded unproblematic or value free where data is neutrally and naturally collected, interpreted and contested terrain depicting or double crisis of representation and legitimation, what is (and why) this double crisis? and what implications might it have for the field of qualitative research and for the researcher working in that field?

Attempting to answer those questions and the various issues underlying them is the primary objective of this FDP. We will do this by combining a theoretical and practical approach to the study of qualitative methodology in order to "Learn to attend to the politics of what we do and do not do as researchers".

For undergoing high quality research one requires to collect, interpret and logically document the information. Selection of an appropriate statistical tool as a decision making tool is often a difficult task without proper understanding of the theoretical concept and meaningful interpretation. Thus the decision makers should be made well versed with research methodology and the core philosophy of statistics.

SPEAKERS

Dr. Ramesh Laxminarayan Gardas

Professor, IIT Madras,

Dr. Manjappa Sarathi

Professor & Dean Research
Sahyadri College of engineering,

Dr. Ramesh Kuppuswamy

Research Dean, Atria IT.

Dr. Gajendra Sharma

Professor,
MIET Meerut.

Dr. Abhishek Bajpai

Assistant Professor,
XL University, Guntur.

Ms. Karuna Madhu Sona

Founder, Shiven IP Service,
Bengaluru.

Dr. Shanthi Mahesh

Professor and Head, Department of ISE,
Atria IT.

Dr. Manoj Tolani

Assistant Professor, Dept of ECE,
Atria IT.

Atria Institute of Technology



3 DAY

FACULTY DEVELOPMENT PROGRAMME

ON

**EMERGING TRENDS IN INNOVATION,
RESEARCH METHODOLOGY
AND IPR**

DATE: 28-09-2022 TO 30-09-2022



Organized by

DEPARTMENT OF

**INFORMATION SCIENCE AND
ENGINEERING**

**ATRIA INSTITUTE OF TECHNOLOGY
ASKB CAMPUS, 1ST MAIN ROAD, AGS COLONY
ANAND NAGAR, BENGALURU- 560024**

www.atria.edu

REGISTRATION DETAILS

NAME.....

PHONE.....

EMAIL-ID.....

COLLEGE.....

DEPARTMENT.....

DESIGNATION.....

IMPORTANT DATES

Last Date for Registration: 27/09/2022

Confirmation Through E-Mail: 27/09/2022

REGISTRATION

REGISTRATION FEES Rs.500/-

Account Details:

Name: Srinivas B V

Account Number: 912010008259331

IFSC Code: UTIB0000363

Bank: Axis Bank

Branch: RT Nagar

Phonepe / Gpay payment can also be done to
Phone Number: 8884400020

ONLINE REGISTRATION LINK:

<https://forms.gle/71K9GanjqtrbEjf2Ak>

ABOUT THE INSTITUTION

Atria Institute of Technology (AIT) has made a name for itself as an institute of repute, with a track record of excellent placements. It has a Vibrant city campus in the heart of Bangalore. Atria offers learning beyond the classroom with a new 24/7 platform and pedagogy, dedicated labs for immersive learning experience, centre of Excellence and reputed for building competent professionals are some of the features of Atria. The college offers wide range of undergraduate and postgraduate program in Engineering and Management. The college is approved by AICTE and affiliated to VTU and is accredited by NBA & NAAC. It also incorporates integrated infrastructure for campus Classrooms, Seminar Halls, Research Centres, Labs and Workshops, Industry Interaction Centre, Separate boys and girls hostels, and Staff quarters for those in need.

ABOUT THE DEPARTMENT

The Information Science & Engineering department aims to impart the foundational skills in design, programming, user interface, etc. For graduating students, exciting career opportunities are available in all these areas across the industry, government, and entrepreneurship sectors. The Information Science & Engineering department has State-of-the-art infrastructure for teaching-learning, research and consultancy. The department has MOUs with leading IT companies and research organizations. It has fully equipped Laboratories and Centre of Excellence. Postgraduate and Research Programmes of the department provides ample opportunities for the students to explore emerging technologies and carry out result-oriented research. The placement record of the department has always been impressive.

Programme Objectives

- Concept development of the researchers and faculty to define research problem and framework.
- Help faculty and research scholar to formulate a research proposal.
- Provide exposure to the participants to various multivariate methods in research and understand advanced issues of research like structural equation modeling.
- Train researchers to draw better conclusion from the analysis.
- Guide researchers in writing a research paper.
- Develop the flair for reading & critiquing research articles.

Programme Outcome

- Conceptual clarity of the research process and methodology.
- Insights into different research design
- Familiarity with tools and techniques of management decision making approach.
- Discussions and interaction by experts and sharing experience with co-participants across India
- The programme focuses on maximizing hands-on development of practical skills.

Target Participants

- Academicians and Faculty in the area of Engineering/Management/Humanities.
- Research scholars from different Domains

PROGRAM SCHEDULE

| 3 Day's FDP Program on Emerging Trends in Innovation-Research and IPR | | |
|--|--|---|
| Faculty Development Program Schedule | | |
| Date | Morning (10:00 am - 12:00 pm) | Afternoon (1:30pm - 3:30pm) |
| 28-09-2022 | Research Ethics Dr.Manjappa Sarathi | Research Paper Writing Dr.Ramesh Gardas |
| 29-09-2022 | Importance of Research Dr. Abhishek Bajpai | Research Proposal & Grants Dr.Gajendra Sharma |
| 30-09-2022 | Research Methodology Dr.Shanthi Mahesh & Dr. Manoj | Intellectual Property Rights Dr. Karuna Madhu Sona & Dr.Ramesh Kuppuswamy |

RESOURCE PERSON DETAILS

| Sl. No. | Name | Affiliation |
|---------|--------------------------------|---|
| 1. | Dr. Ramesh Laxminarayan Gardas | Professor, IIT Madras |
| 2. | Dr. Manjappa Sarathi | Professor & Dean Research Sahyadri College of engineering |
| 3. | Dr. Ramesh Kuppuswamy | Dean, Atria IT |
| 4. | Dr. Gajendra Sharma | MIET Meerut |
| 5. | Dr. Abhishek Bajpai | Assistant Professor, KL University, Guntur |
| 6. | Dr. Shanthi Mahesh | Professor and Head, Department of ISE, Atria IT |
| 7. | Dr. Manoj Tolani | Assistant Professor , Dept of ECE |

SESSION REPORT

SESSION REPORT

| | | | | | |
|--|--|------------------|--------|----------------|--------|
| Session Name | EMERGING TRENDS IN INNOVATION, RESEARCH METHODOLOGY AND IPR | | | | |
| Resource Person | Prof Srinivas B.V Prof Omprakash B Prof Syeda Roshni Ahmed Dr Jyothi Metan Prof Kavitha S Patil | | | | |
| Coordinator | Prof Srinivas B.V, Prof Omprakash B, Prof Syeda Roshni Ahmed Prof Kavitha S Patil, Asst. Professors, Dept. of ISE Dr Jyothi Metan, Asso. Professor, Dept. of ISE | | | | |
| Date | 28 th -30 th September 2022 | Time from | 9:30pm | Time to | 3:30pm |
| google links | 1. Video call link: https://meet.google.com/vvp-xabu-ewx Wednesday, September 28 · 10:00am – 3.30pm 2. Video call link: https://meet.google.com/vvp-xabu-ewx Thursday, September 29 · 10:00am – 3.30 pm 3. Video call link: https://meet.google.com/vvp-xabu-ewx Thursday, September 30 · 10:00am – 3.30 pm | | | | |
| Intended Participants | Academician and faculty in the area of engineering/management/humanities Research Scholars from different Domain | | | | |
| List of activities conducted | | | | | |
| <ol style="list-style-type: none"> 1. Conceptual clarity of the research process and methodology. 2. Insights into different research design 3. Familiarity with tools and techniques of management decision making approach. 4. Discussions and interaction by experts and sharing experience with co-participants across India 5. The programme focuses on maximizing hands-on development of practical skills. | | | | | |
| Summary (Provide in detail report of session progress) | | | | | |
| <p>On the 1st day of the session on 28th september had started with the introduction to the Research Ethics and Research paper writing and Research Concept development of the researchers and faculty to define research problem and framework. Helped faculty and research scholar to formulate a research proposal. Provided exposure to the participants to various multivariate methods in research and understand advanced issues of research like structural equation modeling. Trained researchers to draw better conclusion from the analysis. Guided researchers in writing a research paper. Developed the flair for reading & critiquing research articles 2nd day . i.e on 29th of september .Dr Abhishek Bajpai spoke about research importance and to write proposals and get funds. 3rd day Dr. Shanti Mahesh and Dr. Manoj spoke on Intellectual property rights IPR</p> | | | | | |

**FEEDBACK and
ATTENDANCE SHEETS**

| 1 | Timestamp | Email Address | FULL NAME | Section | Institute Name | How satisfied | How relevan | What were you | Which sessions | Which sessions did | How satisfied |
|----|--------------------|--------------------------|--------------------|------------------|----------------------|---------------|-------------|-------------------|----------------|--------------------|---------------|
| 2 | 9/30/2022 15:09:56 | srinivas.bv@atria.edu | Srinivas B V | Research Scholar | Atria Institute of | 5 | 5 | Good Points or | Relevant | Relevant | 5 |
| 3 | 9/30/2022 15:26:25 | vijayalakshmi.v@atria.ed | Vijayalakshmi V | Research Scholar | Atria Institute of | 5 | 5 | Patent filing pro | Very Relevant | Very Relevant | 5 |
| 4 | 9/30/2022 15:27:44 | omprakash@atria.edu | Omprakash B | Research Scholar | Atria Institute of | 5 | 5 | Patent Details | Very Relevant | Very Relevant | 5 |
| 5 | 9/30/2022 15:29:02 | kavitha.patil@atria.edu | kavitha s patil | Research Scholar | Atria institute of t | 5 | 5 | to write effectiv | Very Relevant | Very Relevant | 5 |
| 6 | 9/30/2022 15:43:23 | vasanth.cb@atria.edu | Vasanth C Bhagawat | Research Scholar | Atria Institute of | 5 | 5 | Research Anal | Relevant | Relevant | 5 |
| 7 | 9/30/2022 15:43:44 | mahasha.r@atria.edu | MAHESHA R | Academician | Atria institute of t | 5 | 5 | Good organiza | Very Relevant | Very Relevant | 5 |
| 8 | 9/30/2022 15:44:42 | manjulashiva2020@gma | Manjula HT | Research Scholar | Atria institute of | 5 | 5 | Na | Relevant | Relevant | 5 |
| 9 | 9/30/2022 15:45:47 | veena@atria.edu | Veena S | Academician | Atria Institute of | 5 | 5 | how to write a | Very Relevant | Very Relevant | 4 |
| 10 | 9/30/2022 15:46:57 | keerthipakka85@gmail.c | Keerthi Pakka | Academician | Atria Institute of | 5 | 5 | Good | Relevant | Relevant | 5 |
| 11 | 9/30/2022 15:47:57 | chetan.cs@atria.edu | Chetan C S | Academician | Atria Institute of t | 5 | 5 | About the Pate | Very Relevant | Very Relevant | 5 |
| 12 | 9/30/2022 15:51:01 | gaveena7@gmail.com | Gavina CG | Research Scholar | S J C institute of | 5 | 5 | Research meth | Relevant | Very Relevant | 5 |
| 13 | 9/30/2022 15:51:35 | asma.begum@atria.edu | ASMA BEGUM S | Academician | Atria IT | 4 | 4 | Research prop | Very Relevant | Very Relevant | 4 |
| 14 | 9/30/2022 15:55:10 | ayeshagce@gmail.com | Ayesha Taranum | Research Scholar | Presidency Univ | 5 | 5 | Research takin | Relevant | Very Relevant | 5 |
| 15 | 9/30/2022 15:57:37 | prashanthkumar.s@atria | Prashanth Kumar S | Academician | ATRIA INSTITUT | 4 | 4 | Regarding reas | Relevant | Relevant | 4 |
| 16 | 9/30/2022 15:59:22 | manoj.t@atria.edu | Manoj Tolani | Academician | Atria Institute of | 5 | 5 | Research Impo | Relevant | Relevant | 5 |
| 17 | 9/30/2022 16:05:36 | suhasabhyratae.cs@sah | Suhas A Bhyratae | Research Scholar | Sahyadri College | 5 | 5 | Writing Resear | Relevant | Very Relevant | 5 |
| 18 | 9/30/2022 16:15:37 | jayasudha.k@atria.edu | Dr. Jayasudha K | Academician | Atria Institute of | 4 | 4 | Different types | Relevant | Relevant | 4 |
| 19 | 9/30/2022 18:04:15 | kanchana.sk@atria.edu | KANCHANA SK | Research Scholar | Atria Institute of | 5 | 5 | Verv informativ | Relevant | Relevant | 5 |

Feedback response link

<https://docs.google.com/spreadsheets/d/1NppA14QfzXAoIjazvoWpz1mur18RtIGpn48DW4C17BQ/edit?usp=sharing>

Google Form link

<https://forms.gle/y8UCBeFQnvYKAMsa6>

PHOTOS

meet.google.com/vvp-xabu-ewx

Certified-Toolbar Se... Gmail: Email from G... HP Games Web Slice Gallery New Tab Connection timed o... Meet - SA Class https://sts.karnatak... Other bookmarks

Manjappa Sarathi (Presentati...)

Manjappa Sarathi Jayanthi P

Manjappa Sarathi Srinivas B.V. Syeda Roshni Ahmed

Dr. Shanthi Mahesh 21 others You

11:27 AM | vvp-xabu-ewx

Savithru.png Crane.webp accord_group_logo.png Show all

Type here to search 25°C 11:26 28-09-2022

meet.google.com/vvp-xabu-ewx

Certified-Toolbar Se... Gmail: Email from G... HP Games Web Slice Gallery New Tab Connection timed o... Meet - SA Class https://sts.karnatak... Other bookmarks

Ramesh Gardas is presenting

Research Proposal

- Problem (idea)
- Vision
- Benefits
- Deliverables
- Success Criteria
- Plan (Approach) / Timeline

Creative Ideas

Vasanth Bhagawat has left the meeting

Ramesh Gardas SONIA SB VENKATEGOWD...

Dr. Shanthi Mahe... Uzma Sulthana S Spoorthi Rakesh

Dr JYOTI METAN 16 others You

2:25 PM | vvp-xabu-ewx

Type here to search 28°C 14:25 28-09-2022

abhishek bajpai is presenting

Complexity Analysis

Multiplier complexity = N/L ; Addition Complexity = $(N - ML + M - 1)/L$

| Passes | D | M | A | Passes | D | M | A |
|---------|----|----|----|--------|------|---------|----|
| M,L,N | 27 | 25 | 24 | 27 | 27 | 24 | 24 |
| 5,2,30 | 10 | 29 | 15 | 14 | 12 | 2,5,30 | 36 |
| 5,3,09 | 14 | 36 | 20 | 38 | 16,3 | 5,5,40 | 64 |
| 7,5,42 | 18 | 38 | 14 | 13 | 9 | 3,7,42 | 48 |
| 11,3,36 | 76 | 38 | 22 | 22 | 14,3 | 3,13,40 | 76 |

10:48 AM | vvp-xabu-ewx

Gajendra Sharma is presenting

You're presenting to everyone

Stop presenting

Syeda Roshni Ahmed

Jayanthi P

7 others

In-call messages

Messages can only be seen by people in the call and are deleted when the call ends

You 2:53 PM
gajendra.81a@gmail.com

Ranjitha J 2:54 PM
Thank You Sir

Send a message to everyone

2:54 PM | vvp-xabu-ewx

11 of 24 - Clipboard
Item not Collected: Delete items to increase available space

meet.google.com/vvp-xabu-ewx

Dr. Shanthi Mahesh is presenting

Research?

➤ A careful investigation for new facts in any branch of knowledge

Dr. Shanthi Mahe...

Jayanthi P

Syeda Roshni Ah...

Ranjitha J

MANOJ TOLANI

Kavitha S Patil

Dr JYOTI METAN

16 others

You

10:06 AM | vvp-xabu-ewx

Type here to search

23°C Mostly cloudy

10:06 30-09-2022

MANOJ TOLANI is presenting

| Keyword | Count |
|------------------------------------|-------|
| Data aggregation | 32 |
| Event-Monitoring | 30 |
| ZigBee | 10 |
| Wi-Fi | 10 |
| wireless personal area network | 10 |
| Wireless local area network | 10 |
| k-Means | 10 |
| Wireless sensor network | 25 |
| Two-layer hierarchical aggregation | 25 |
| Data filtration | 25 |
| Railway monitoring | 25 |
| Consistency-guaranteed | 25 |
| Continuous Monitoring | 25 |
| System ontology | 25 |
| Symbiotic systems | 25 |
| Sensors | 25 |
| Safety compliance | 25 |
| Resilient robotics | 25 |
| Non-destructive evaluation | 25 |
| Digital twin | 25 |
| Autonomous systems | 25 |
| Artificial intelligence | 25 |

MANOJ TOLANI

Jayanthi P

Kavitha GL

Dr. Shanthi Mahesh

Srinivas B.V.

Syeda Roshni Ahmed

17 others

You


11:22 AM | vvp-xabu-ewx

Type here to search

24°C

11:22 AM 30/09/2022

Dr. Shanthi Mahesh is presenting



PATENT CERTIFICATE

INTELLECTUAL PROPERTY INDIA
GOVERNMENT OF INDIA
OFFICE OF THE PATENT OFFICER
PATENT CERTIFICATE

Patent No.: 403910
Applicant No.: 20201017420
Date of Filing: 23/04/2020
Inventor: I. LAKSHMI, S. SUNITA, DODDAMMAI S. ARIVYANULAY, DODDAMMAI

INTELLECTUAL PROPERTY INDIA
DESIGNS, TRADE MARKS & PHARMACEUTICAL INDICATIONS

UZMA TAJ

G S Raghavendra

ASMA BEGUM S

12 others

karuna sona

Jayanthi P

Chetan C Shettappanavar

You

2:41 PM | vvp-xabu-ewx

DR Ramesh Kuppuswamy is presenting

OUTLINE OF PRESENTATION

- About the presenter
- Introduction & Background
- Concept of APPLICATION RESEARCH
- Case studies of application research at JAPAN, SINGAPORE & SOUTH AFRICA
- Evolvement of Frugal innovation
 - What is frugal innovation
 - Characteristics of frugal innovation
 - Framework of Frugal innovation
 - Frugal innovation examples
- Conclusions



Dr. Shanthi Mahesh

om prakash

Vijay Lakshmi

Jayanthi P

9 others

UZMA TAJ

DR Ramesh Kuppuswamy

You

2:52 PM | vvp-xabu-ewx

***END OF REPORT ***