



RV Educational institutions

RV Institute of Technology and Management ®

Bangalore – 560076

Department of Information Science Engineering

Event Name	ADVANCED TOOLS AND TECHNIQUES FOR BEST RESEARCH
Theme	Practicing Tools for doing research activities
Date	26 th September 2022 to 30 th September 2022(5 Days)
Venue	Online

Objective of the Program:

The FDP aims at deliberation, sharing knowledge to the target audience about the significance of research skills and ethical research practice by subject matter experts with practical exposure to faculty members and research scholars. This FDP provides the participants with an opportunity to acquire knowledge about contemporary developments that are taking place in various dimensions of research practice and inculcate and enhance the abilities of the faculty members to carry out independent research, write successful research projects, and finally to enable them for the technical communication considering national/international journal/conferences. Lectures on fundamental aspect of relevant research topic selection, literature review, planning of research, project proposal writing and research paper writing will be conducted by the experts along with some hands-on practices which will enable participants to grasp the content methodologically.

Topics Covered:

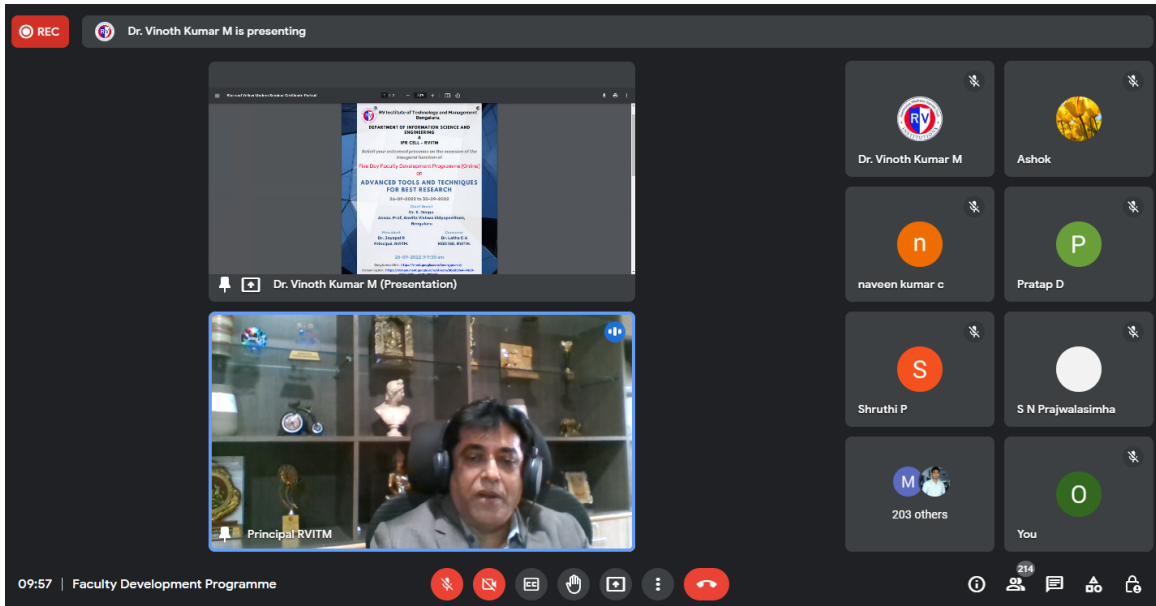
- Best Research practice
- Research Management
- Tools for Research
- PCA and FA analysis
- R-Tool in Research
- Idea for patent

Day 1:26.09.2022

9.30am to 10.00am

Inaugural Function

The program was started with the Inauguration session. Dr. Latha C A, HoD, Department of ISE started the session with the Welcome address. It was then followed by invocation song by Mrs. Chaitra H R, Programmer, RVITM. Dr. Vinoth Kumar M, Associate Professor, Dept of ISE gave details about the objectives and details about the FDP. Dr. Niharika P Kumar Associate Professor, Department of ISE has introduced the chief guest to session. The Chief guest of the session Dr. K. Deepa Assoc. Prof, Amrita Vishwa Vidyapeetham, has set the right tone to the program by delivering Inaugural address to the participants and by outlining the importance of Research and the usage of tools in research. Finally, Prof. Deepak D J, Assistant Professor, Department of ISE proposed vote of thanks to the august gathering and concluded the Inaugural function.



Day 1:26.09.2022

10.00am to 12.00pm

Forenoon Session

Topic:

Best research practice

Resource Person:

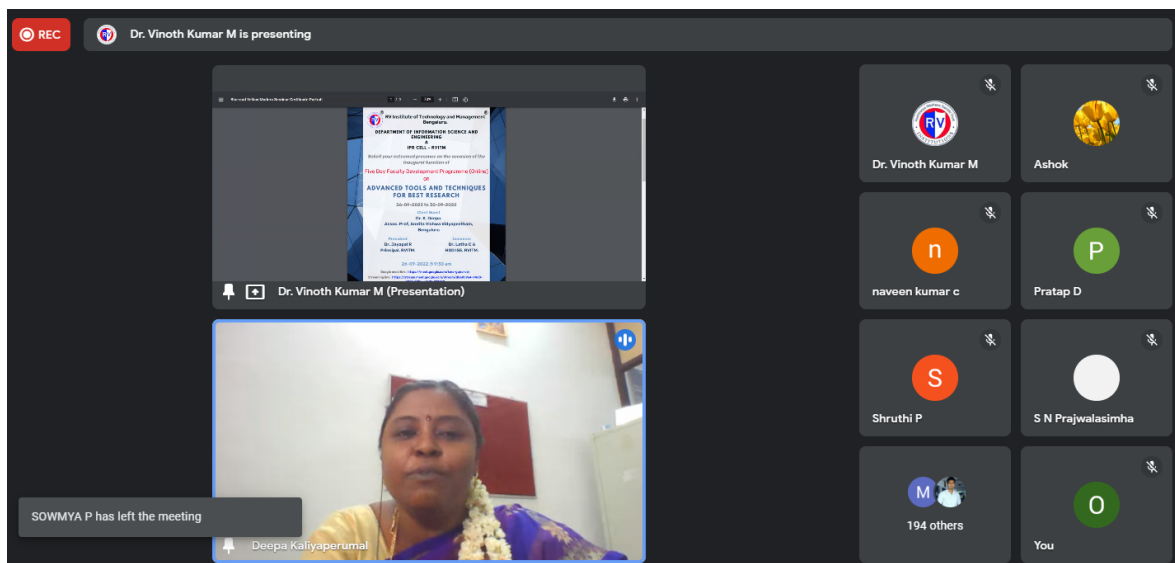
Dr. K. Deepa

Amrita Vishwa Vidyapeetham

Bengaluru

The following titles are covered in the forenoon session

- Good Research Practices
- Research Community
- Values and Research Integrity
- Research Design



Day 1: 26.09.2022

02.00pm to 04.00pm

Afternoon Session

Topic:

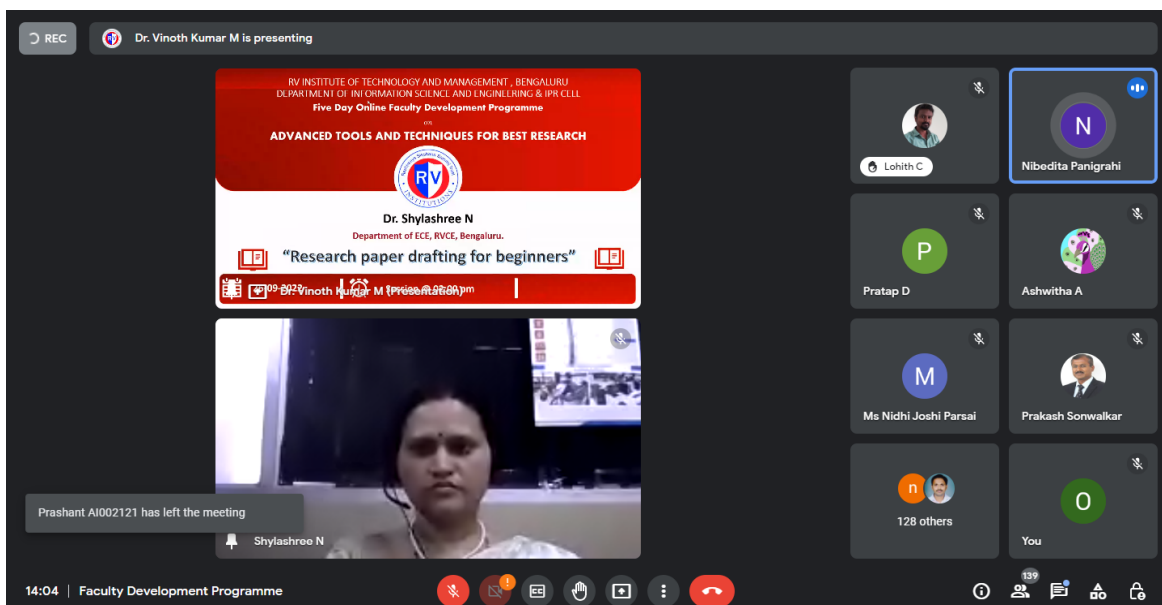
Research paper drafting for beginners.

Resource Person:

Dr. Shylashree N
Department of ECE
RVCE, Bengaluru.

The following titles are covered in the Afternoon session

- Research ideas
- Scientific writing
- Writing abstract, title, keywords, different sections
- Preparing semantics and figures
- Ethics



Day 2:27.09.2022

10.00am to 12.00pm

Forenoon Session

Topic:

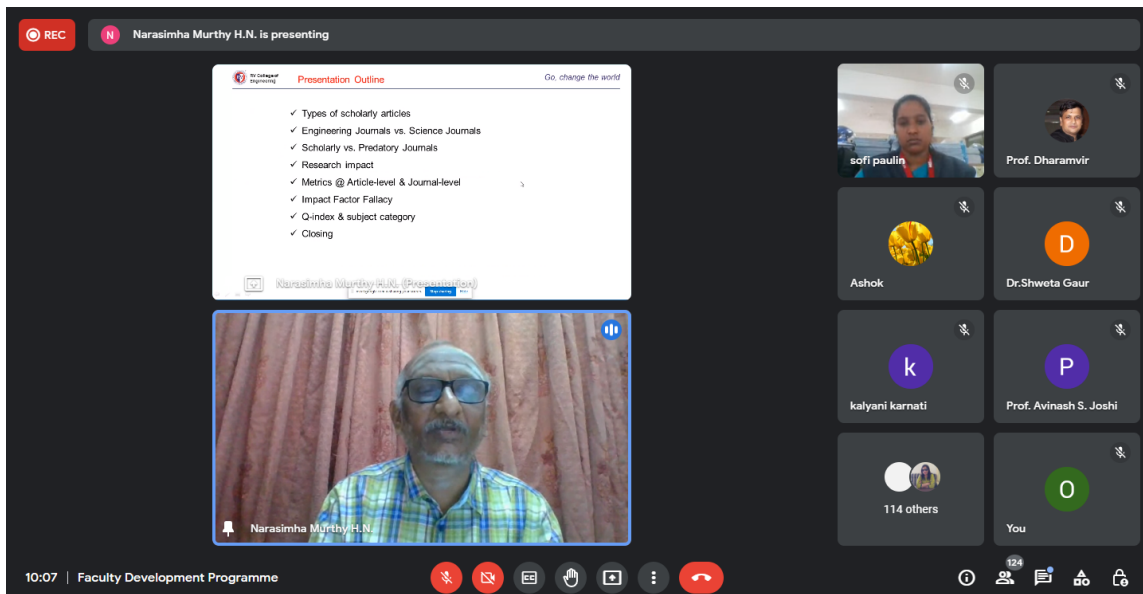
Types of Research publication

Resource Person:

Dr. H N Narasimha Murthy
Professor and Dean
RVCE, Bengaluru.

The following titles are covered in the forenoon session

- Types of scholarly articles
- Engineering journals v/s Science journals
- Scholarly vs Predatory journals
- Research impact, Metrics, Impact factor, Q-Index



Day 2: 27.09.2022

02.00pm to 04.00pm

Afternoon Session

Topic:

High Indexing Paper Publications and Research Management

Resource Person:

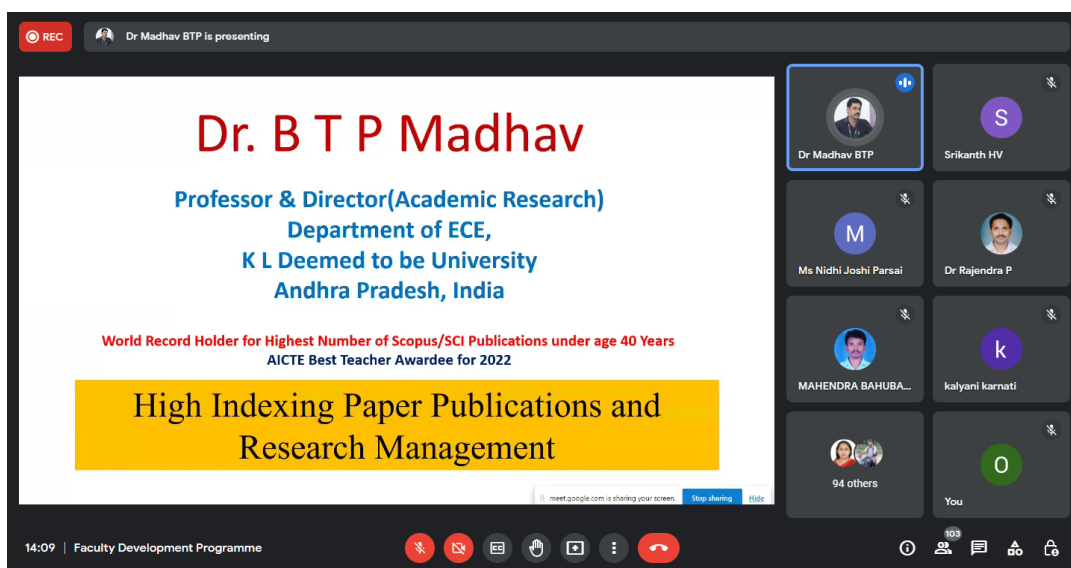
Dr. B T P Madhav

Professor & Director (Academic Research)

Koneru Lakshmaiah Education Foundation, Hyderabad.

The following titles are covered in the afternoon session

- Research Measurement
- Different types of publications – Open access, Subscription based
- Citations, H-index
- Plagiarism
- Reviewers



Day 3: 28.09.2022

10.00am to 12.00pm

Forenoon Session

Topic:

Data Analytics using R Programming.

Resource Person:

Dr. G. Kumaravelan

Pondicherry University

Karaikal

The following titles are covered in the forenoon session

- About Data Science – Life Cycle
- R Programming – R studio and R packages
- Practical sessions using R

The screenshot shows a Zoom meeting interface. The main content is a slide titled "Data Science - Life Cycle". The slide content includes:

- Step 1: Define Problem Statement
- Creating a well-defined problem statement is a first and critical step in data science. It is a brief description of the problem that you are going to solve.
- Predict the pass percentage of a group of students
- Predict whether a customer is going to purchase a product given an offer
- Predict the likelihood of getting a job in Google

A diagram on the slide shows a blue shape labeled "Things we" with four branches. The top branch is labeled "we know" and points to a box labeled "Facts". The middle branch is labeled "we don't know" and points to a box labeled "Questions". The bottom branch is labeled "we know" and points to a box labeled "Intuition". The bottom-most branch is labeled "we don't know" and points to a box labeled "Exploration".

Source: USJournal

The Zoom interface shows a grid of participant avatars on the right side, including Kumaravelan Gopala..., S N Prajwalasimha, Murali Madhu, Ashwitha A, Dakshayini R S, Dr. Kamalakshi Nagan..., 160 others, and You. The bottom status bar shows the time 10:26 and the text "Faculty Development Programme".

Day 3: 28.09.2022

02.00pm to 04.00pm

Afternoon Session

Topic:

Text Analytics using R Programming

Resource Person:

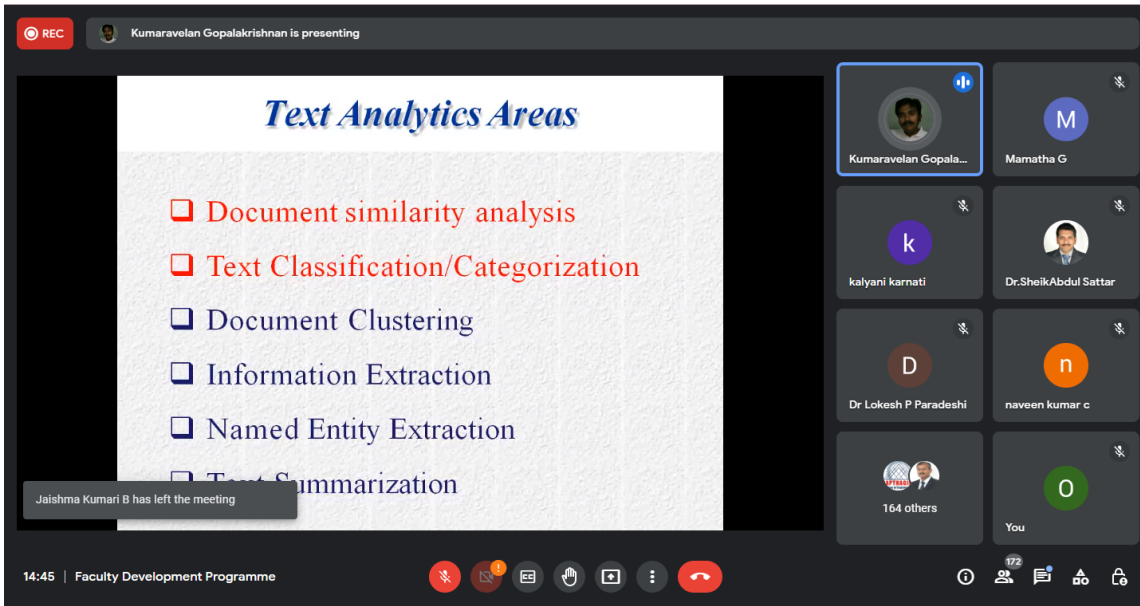
Dr. G. Kumaravelan

Pondicherry University

Karaikal.

The following titles are covered in the forenoon session

- Framework for text analytics
- Document Representation
- Text analytics areas



Day 4: 29.09.2022

10.00am to 12.00pm

Forenoon Session

Topic:

Research Management

Resource Person:

Dr. Mydhili K Nair

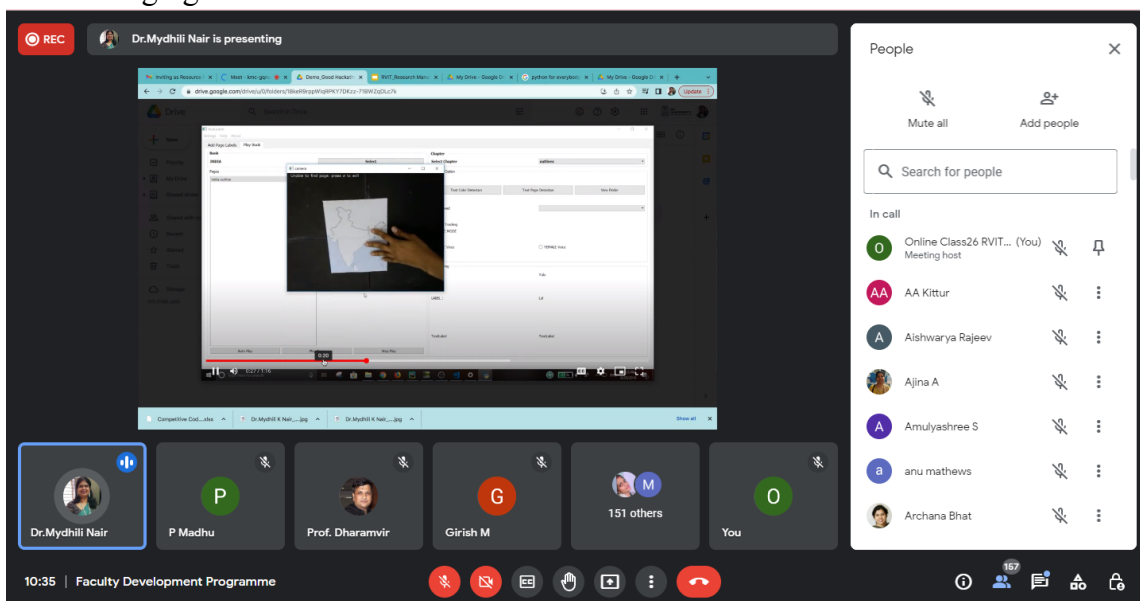
Professor & Head

School of CSE

RV University, Bengaluru.

The following titles are covered in the forenoon session

- Good and bad research
- Difference between project or research
- Finding research problem
- Writing quality literature review
- Managing references



Day 4: 29.09.2022

02.00pm to 04.00pm

Afternoon Session

Topic:

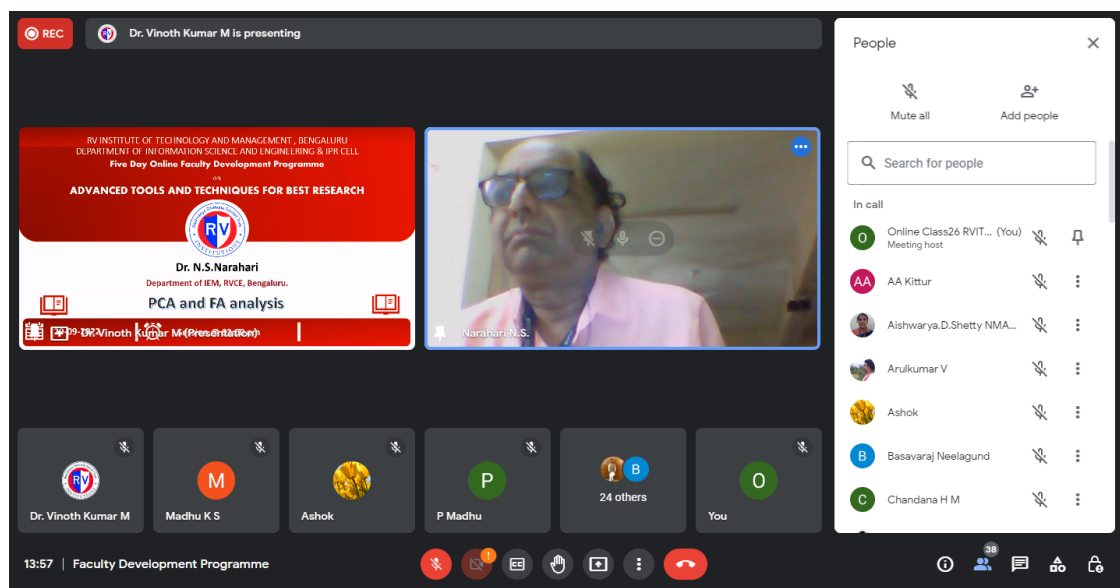
PCA and FA analysis

Resource Person:

Dr. N.S.Narahari
Department of IEM,
RVCE, Bengaluru.

The following titles are covered in the forenoon session

- Dimensionality Reduction using Principal Component Analysis
- Factor Analysis – Exploratory and confirmatory multivariate technique



Day 5: 30.09.2022

10.00am to 12.00pm

Forenoon Session

Topic:

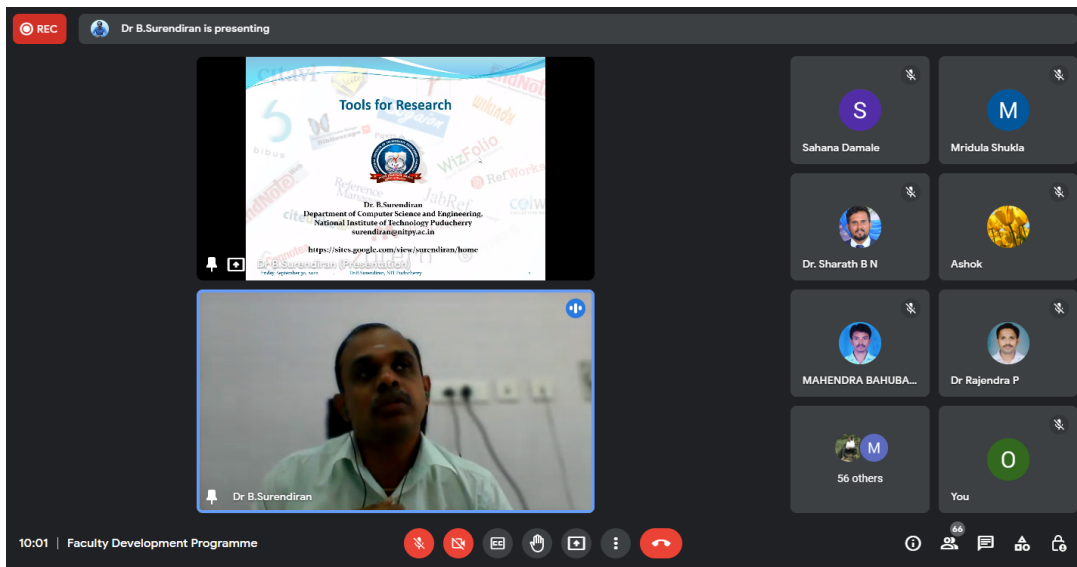
Advanced tools for Research

Resource Person:

Dr Surendiran
Dept. of CSE
NIT Puducherry.

The following titles are covered in the forenoon session

- Document writing tools
- Searching files and contents
- Plagiarism checker
- Tools for Image processing, Data mining, Flowchart, Diagram, Paraphrasing , Data visualization
- Research profiles



Day 5: 30.09.2022

10.00am to 12.00pm

Afternoon Session

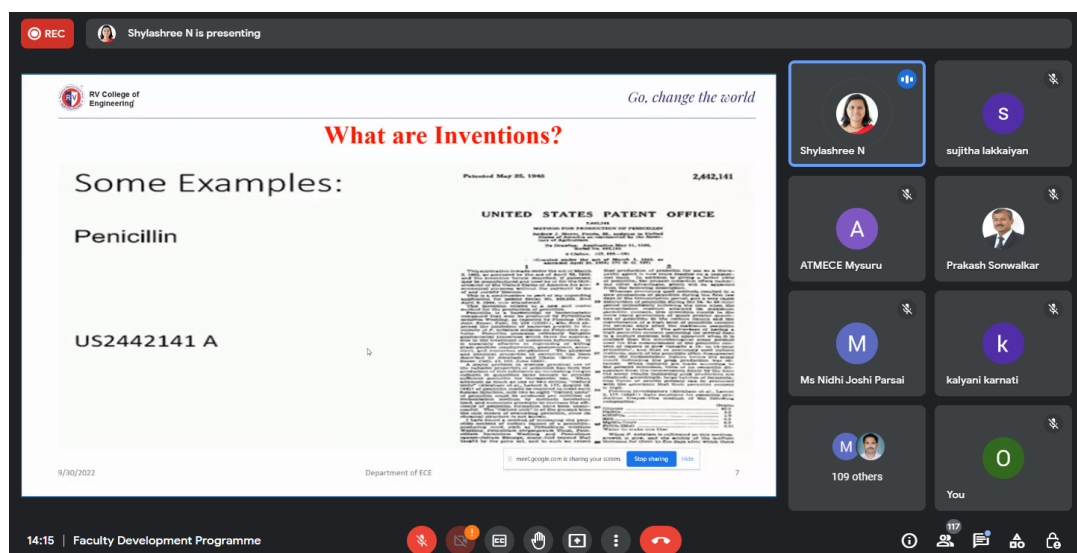
Topic: Patent drafting for beginners

Resource Person:

Dr. Shylashree N
 Department of ECE
 RVCE, Bengaluru.

The following titles are covered in the forenoon session

- What are Inventions?
- Fields of inventions
- How to apply for patents?
- Different types of patents.



Coordinators Signature

HOD's Signature