

(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi)
Moodlakatte - 576217, Kundapura Taluk, Udupi District, Karnataka

# TWO DAYS ONLINE WORKSHOP

ON

EMERGING TRENDS IN APPLIED SCIENCE-2024 (ETAS-2024)

Organized by
Department of Basic Science and Humanities

An IQAC Initiative
Date: 1st and 2nd August 2024



# **About the College**

Established in 2004 under the leadership of the philanthropic technocrat Late I M Jayaram Shetty and the iconic MNBS Trust, MITK has reached out to rural communities as a symbol of hope for availing technical education. Over time, it has become a hub of higher education, imparting quality education in engineering and management. The institution inspires economically disadvantaged young minds to pursue professional degrees and become successful entrepreneurs, technocrats, or employees. MITK is affiliated with Visveswaraya Technological University, Belagavi, and is approved by AICTE, New Delhi.

# **Department Overview**

Providing an interdisciplinary approach with strong essence and ethics of the Engineering branch, the department of Basic Sciences is dedicated to foster the understanding of basic scientific principles to young learners. The department offers several UG and research programs and is fully equipped to meet the demands of the dynamic world of technology. With well-versed faculty and resources, the department of Basic Science has been conducive in conferring a model of development through numerous innovative programs, research initiatives, industry-institute partnerships to name a few. Furthermore, the department aims to deliver the best for society by imparting quality education to stimulate the spirit of inquiry in the students, a passion to acquire skills, knowledge to enrich their lives to widen their intellectual and entrepreneurship qualities.

# **About Workshop**

This workshop focuses on the emerging trends in applied science, featuring indepth lectures on cutting-edge topics. Participants will gain valuable insights into Powder Metallurgy, a revolutionary method for preparing nano-structured alloys, and the Physics of Nano Composites/Nano Materials, exploring their properties and applications. Additionally, the workshop will cover essential Research Methods in Science, providing a robust framework for conducting impactful studies, and delve into various Optimization Techniques, equipping attendees with tools to enhance efficiency and effectiveness in scientific research. Join us to expand your knowledge and skills in these dynamic areas of applied science.

# PROGRAMME SCHEDULE

Day 1: 01/08/2024

Session-1 Time: 11:45 am - 1:00 pm

# Dr. Shashanka Rajendrachari

Department of Metallurgical and Materials Engineering, Bartin University, Bartin-74100, Turkey



Topic: Powder Metallurgy: A method to prepare nano-structured alloys

Session-2 Time: 02:30 pm - 03:45 pm

# **Dr. Vincent Crasta**

Professor
Department of Physics
St. Joseph College of Engineering Mangalore



Topic: Physics of nano composites/Nano materials

# Day 2: 02/08/2024

Session-1 Time: 10:45 am - 12:00 pm

# Dr. Sudhakar Y N

Assistant Professor (Senior Scale) Department of Chemistry, MIT, MAHE, Manipal.



**Topic: Research Methods In Science** 

Session-2 Time: 02:45 pm - 03:45 pm

# Dr. Chandru Hegde

Assistant Professor Department of Mathematics Mangalore University, Mangalagangothri



**Topic: Some Optimization Techniques** 

# **Organizing Committee**

Prof. Deepak Shetty M (HOD, BSH Department)

Dr. Nikhila Pai (Sr. Assistant Professor in Chemistry)

Prof. Asha Kumari (Assistant Professor in Chemistry)

**Prof. Chaithra (Assistant Professor in Mathematics)** 

**Prof.** Akshatha Shetty (Assistant Professor in Mathematics)

Prof. Kamalakshi Adiga (Assistant Professor in Mathematics)

Prof. Subrahmanya Naik (Assistant Professor in Physics)

# **REGISTRATION FEE Rs 150/-**

Last Date for Registration: 31-07-2024

Link & QR Code for Registration <a href="https://forms.gle/MNxpSDNJZad77W5x8">https://forms.gle/MNxpSDNJZad77W5x8</a>



Certificate will be issued for the registered participants

For more details contact:

Dr. Nikhila Pai (9844171732)

Prof. Asha Kumari (7353354602)



# Invitation to present a talk on Powder Metallurgy: A method to prepare nanostructured alloys in ETAS-2024

2 messages

**Dr. Nikhila Pai** <nikhila@mitkundapura.com>
To: shashanka ic <shashankaic@gmail.com>

Fri, Jul 26, 2024 at 1:30 PM

I am immensely pleased to invite you as a guest speaker on **Powder Metallurgy: A method to prepare nanostructured alloys.** Your thoughts would enable our audience to gain knowledge from your expertise and experience.

The date for the talk is **01-August-2024**. Your session duration is **11:45 AM-1:00 PM** including a question and answer session.

Kindly oblige your acceptance at the earliest. This will enable us to prepare for a successful talk.

# Thanking You

Dr. Nikhila Pai Sr. Assistant Professor Basic Science and Humanities Moodlakatte Institute of Technology Kundapura-576217

Mob: 9844171732

shashanka ic <shashankaic@gmail.com>
To: "Dr. Nikhila Pai" <nikhila@mitkundapura.com>

Fri, Jul 26, 2024 at 1:34 PM

Dear Dr. Nikhila Pai, Thank you for the invitation and I am very happy to accept your invitation and deliver my presentation to the audience.

[Quoted text hidden]



# Invitation to present a talk on Some Optimization Techniques in ETAS-2024

2 messages

Dr. Nikhila Pai <nikhila@mitkundapura.com>

Fri, Jul 26, 2024 at 2:41 PM

To: Chandru Hegde <chandrugh@gmail.com>

Cc: IQAC MITK <iqac@mitkundapura.com>, HOD BSH <hodbsh@mitkundapura.com>, "MOODLAKATTE INSTITUTE OF TECHNOLOGY, KUNDAPURA MITK" <pri>cprincipal@mitkundapura.com>

I am immensely pleased to invite you as a guest speaker on **Some Optimization Techniques.** Your thoughts would enable our audience to gain knowledge from your expertise and experience.

The date for the talk is **01-August-2024**. Your session duration is **02:45 PM-03:45 PM** including a question and answer session.

Kindly oblige your acceptance at the earliest. This will enable us to prepare for a successful talk.

# Thanking You

Dr. Nikhila Pai Sr. Assistant Professor Basic Science and Humanities Moodlakatte Institute of Technology Kundapura-576217

Mob: 9844171732

**Chandru Hegde** <chandrugh@gmail.com>
To: "Dr. Nikhila Pai" <nikhila@mitkundapura.com>

Fri, Jul 26, 2024 at 3:57 PM

I accept the invitation.

With regards [Quoted text hidden]



# Invitation to present a talk on Physics of nano composites/Nano materials in ETAS-2024

2 messages

Dr. Nikhila Pai <nikhila@mitkundapura.com>

Fri, Jul 26, 2024 at 2:13 PM

To: vincentc@sjec.ac.in

Cc: "MOODLAKATTE INSTITUTE OF TECHNOLOGY, KUNDAPURA MITK" <principal@mitkundapura.com>, IQAC MITK <iqac@mitkundapura.com>, HOD BSH <hodbsh@mitkundapura.com>

I am immensely pleased to invite you as a guest speaker on **Physics of nanocomposites/Nano materials** Your thoughts would enable our audience to gain knowledge from your expertise and experience.

The date for the talk is **01-August-2024**. Your session duration is **02:30 PM-03:45 PM** including a question and answer session.

Kindly oblige your acceptance at the earliest. This will enable us to prepare for a successful talk.

# Thanking You

Dr. Nikhila Pai Sr. Assistant Professor Basic Science and Humanities Moodlakatte Institute of Technology Kundapura-576217

Mob: 9844171732

### Vincent Crasta <vincentc@sjec.ac.in>

Fri, Jul 26, 2024 at 4:49 PM

To: "Dr. Nikhila Pai" <nikhila@mitkundapura.com>

Cc: "MOODLAKATTE INSTITUTE OF TECHNOLOGY, KUNDAPURA MITK" <principal@mitkundapura.com>, IQAC MITK <iqac@mitkundapura.com>, HOD BSH <hodbsh@mitkundapura.com>

### Good day madam,

I am happy to accept your invitation to deliver a talk on 1st August 2024 for the faculty development program. thanks

Dr Vincent Crasta,

Professor, Dept of Physics

St Joseph Engineering College, Mangaluru

### [Quoted text hidden]

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# Invitation to present a talk on research Methods In Science in ETAS-2024

2 messages

Dr. Nikhila Pai <nikhila@mitkundapura.com>

Fri, Jul 26, 2024 at 2:16 PM

To: sudhakar.yn@manipal.edu

Cc: IQAC MITK <iqac@mitkundapura.com>, HOD BSH <hodbsh@mitkundapura.com>, "MOODLAKATTE INSTITUTE OF TECHNOLOGY, KUNDAPURA MITK" <pri>principal@mitkundapura.com>

I am immensely pleased to invite you as a guest speaker on **Research Methods In Science** Your thoughts would enable our audience to gain knowledge from your expertise and experience.

The date for the talk is **02 August 2024**. Your session duration is **10:45 AM-12:00 PM** including a question and answer session.

Kindly oblige your acceptance at the earliest. This will enable us to prepare for a successful talk.

# Thanking You

Dr. Nikhila Pai Sr. Assistant Professor Basic Science and Humanities Moodlakatte Institute of Technology

Kundapura-576217 Mob: 9844171732

## Sudhakar Y N [MAHE-MIT] <sudhakar.yn@manipal.edu>

Sat, Jul 27, 2024 at 11:44 AM

To: "Dr. Nikhila Pai" <nikhila@mitkundapura.com>

Cc: IQAC MITK <iqac@mitkundapura.com>, HOD BSH <hodbsh@mitkundapura.com>, "MOODLAKATTE INSTITUTE OF TECHNOLOGY, KUNDAPURA MITK" <pri>cprincipal@mitkundapura.com>

Dear Dr Nikhila,

Thank you for the invitation. I am pleased to accept this invitation to deliver a talk on **Research Methods In Science.** 

Looking forward to the success of the Workshop.

Thanks and Kind Regards

Dr. Sudhakar Y N

Assistant Professor (Senior Scale)

Department of Chemistry

Manipal Institute of Technology | MAHE | Manipal | 576 104 | Karnataka | India

Phone: +91 9880577024 | Research Website: Sudhakar, Y. N. - Author details - Scopus

From: Dr. Nikhila Pai <nikhila@mitkundapura.com>

Sent: Friday, July 26, 2024 2:16 PM

To: Sudhakar Y N [MAHE-MIT] < sudhakar.yn@manipal.edu>

Cc: IQAC MITK <igac@mitkundapura.com>; HOD BSH <hodbsh@mitkundapura.com>; MOODLAKATTE

INSTITUTE OF TECHNOLOGY, KUNDAPURA MITK <pri>principal@mitkundapura.com
Subject: Invitation to present a talk on research Methods In Science in ETAS-2024

You don't often get email from nikhila@mitkundapura.com. Learn why this is important

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AS A PART OF TWO DAYS ONLINE WORKSHOP- ETAS-2024 DEPARTMENT OF BSH ORGANISES WEBINAR ON POWDER METALLURGY: A METHOD TO PREPARE NANO-STRUCTURED ALLOYS



## FEATURED SPEAKER

# Dr. Shashanka Rajendrachari

Department of Metallurgical and Materials Engineering, Bartin University, Bartin-74100, Turkey



Thursday, 1st August 2024 (



11:45 AM - 1:00 PM



mitkundapura.com office@mitkundapura.com



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AS A PART OF TWO DAYS ONLINE WORKSHOP- ETAS-2024 DEPARTMENT OF BSH ORGANISES WEBINAR ON PHYSICS OF NANO COMPOSITES/NANO MATERIALS



### FEATURED SPEAKER

# **Dr. Vincent Crasta**

Professor Department of Physics St. Joseph College of Engineering Mangalore

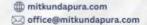


Thursday, 1st August 2024 (



02:30 PM - 03:45 PM







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AS A PART OF TWO DAYS ONLINE WORKSHOP- ETAS-2024 DEPARTMENT OF BSH ORGANISES WEBINAR ON RESEARCH METHODS IN SCIENCE



# FEATURED SPEAKER

# Dr. Sudhakar Y N

Assistant Professor (Senior Scale) Department of Chemistry, MIT, MAHE, Manipal.

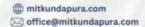


Friday, 2nd August 2024



10:45 AM - 12:00 PM







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AS A PART OF TWO DAYS ONLINE WORKSHOP- ETAS-2024 DEPARTMENT OF BSH ORGANISES WEBINAR ON SOME OPTIMIZATION TECHNIQUES



# FEATURED SPEAKER

# Dr. Chandru Hegde

Assistant Professor Department of Mathematics Mangalore University, Mangalagangothri

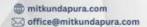


Friday, 2nd August 2024



02:45 PM - 03:45 PM









## **Preamble**

This workshop focuses on the emerging trends in applied science, featuring in depth lectures on cutting-edge topics. Participants will gain valuable insights into Powder Metallurgy, a revolutionary method for preparing nano-structured alloys, and the Physics of Nano Composites/Nano Materials, exploring their properties and applications. Additionally, the workshop will cover essential Research Methods in Science, providing a robust framework for conducting impactful studies, and delve into various Optimization Techniques, equipping attendees with tools to enhance efficiency and effectiveness in scientific research. Join us to expand your knowledge and skills in these dynamic areas of applied science.

# Day 1 (01/08/2024)

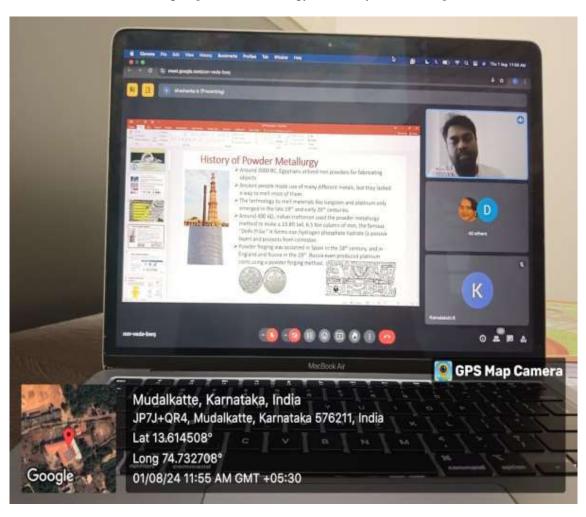
# Session 1: Powder Metallurgy: A method to prepare nano-structured alloys Resource person: Dr. Shashanka R

Dr. Shashanka R is currently working as an Assistant Professor in the Department of Metallurgical and Materials Engineering, Bartin University, Turkey. He has obtained Ph.D in powder metallurgy from the Department of Metallurgical and Materials Engineering, NIT Rourkela. He is experienced in preparing nano-structured stainless-steel powders, high entropy alloys, and shape memory alloys by the mechanical alloying method. His areas of research are powder metallurgy, mechanical alloying, nanomaterials, corrosion, electrochemical sensors, etc.

## Report

In the first session Dr Shashank discussed on how nowadays, most metallurgists fabricate ferrous and non-ferrous alloys by powder metallurgy (PM) routes due to their various advantages over conventional methods. The lecture gave in-depth information about powder metallurgy, processing of powders, compaction, sintering, types, advantages, applications, and future perspectives of the PM market. Presentation also focused on powder-binder-based manufacturing methods and their characterizations; role of binders and their effects on various properties. Dr. Shashank also provided information on shaping processes, binder removal, and sintering densification. Detailed explanation of various powder production techniques followed by their evolution of microstructure with the fabricated methods. An insight on how to achieve

greater densities along with improved properties using different advanced sintering techniques. The structure-property relation and the chemistry behind the powder metallurgy are also explained in detail. The present lecture may benefit engineering, science, master's students, and Ph.D. students working in powder metallurgy or closely allied disciplines.



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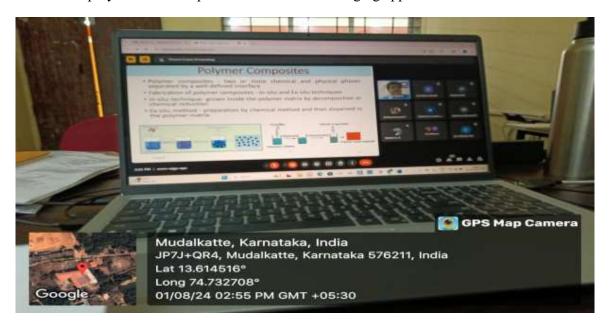
# Session 2: Physics of Nano Composites/Nano Materials

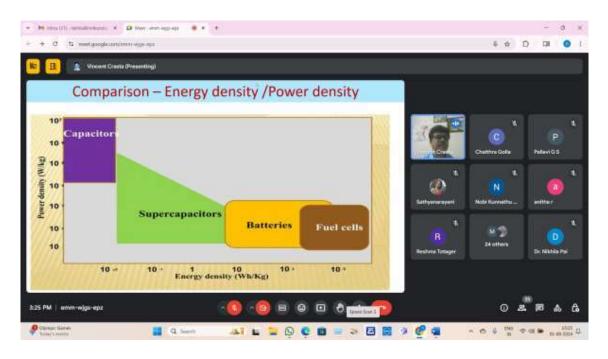
Resource Person: Dr. Vincent Crasta

Dr. Vincent Crasta, Professor in the Department of Physics at St. Joseph Engineering College, Mangaluru. Dr. Crasta holds a Ph.D. in Physics from Mangalore University. Demonstrating his versatile interests, he further completed an MBA from Indira Gandhi National Open University, New Delhi. Dr. Crasta's research is focused on the characterization of non-linear optical materials, polymer nanocomposites, IR radiation studies on polymers and NLO materials. His scholarly contributions are evidenced by the publication of 33 papers in reputed international journals. Moreover, he has presented 56 papers at both national and international conferences.

### Report

Dr. Crasta gave a brief introduction about nanomaterials and polymers. The presentation provided a comprehensive insight into the synthesis of polymer nanocomposites and explained how the reinforcement of nanomaterials can change the properties and applications of polymers. Dr. Crasta highlighted the applications of polymer nanocomposites in various fields, including automobiles, aerospace, packaging, electronics, and electrical engineering. Additionally, he discussed the potential of these materials in biomedical applications, construction, energy storage, and smart textiles, showcasing their versatility and significant impact on technological advancements. This presentation helped the faculty members to learn more about polymer nanocomposites and their wide-ranging applications.





Day 2 (02/08/2024)

# **Session 1: Research Methods in Science**

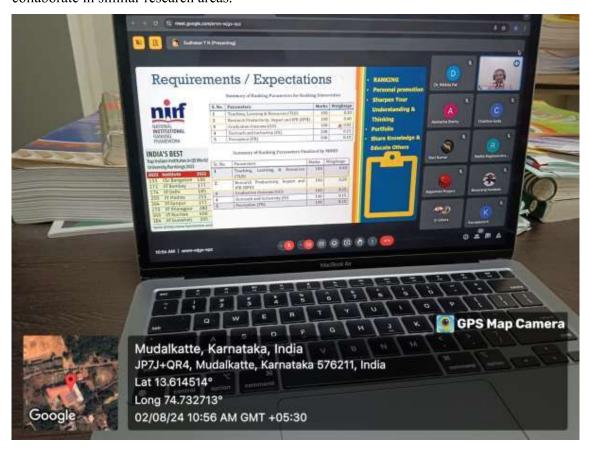
### Resource Person: Dr. Sudhakar Y N

Dr. Sudhakar Y N is Assistant Professor (Senior Scale) in the Department of Chemistry at MIT, MAHE, Manipal. With over 14 years of experience in teaching and research, Dr. Sudhakar has made significant contributions to the field of electrochemistry. His expertise includes polymer analysis software and tools, spectroscopic analysis software, testing energy storage devices, and electrochemical characterization. With a robust publication record, Dr. Sudhakar has authored 70 Scopus-indexed articles, and 7 review articles. His research impact is reflected in his h-index of 22 and 1716 citations. He has presented 19 papers at international conferences and 8 at national conferences, along with 15 other technical presentations. Furthermore, he has authored 2 books, contributed 4 book chapters, and holds 3 published patents.

## Report

Dr. Sudhakar highlighted the importance of research for career growth in the academic field. His presentation focused on how to identify cloned/predatory journals and explained where and how to find good quality research articles and theses. He demonstrated how to access Shodhaganga, Journal Finder, and other resources. The presentation also covered the usage of

AI tools such as ChatGPT, Jenni, and Quillbot for writing research articles. During the session, Dr. Sudhakar answered participants' queries about research opportunities in Mahe and encouraged them to conduct research and publish articles. He also expressed willingness to collaborate in similar research areas.



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### **Session 2: Some Optimization Techniques**

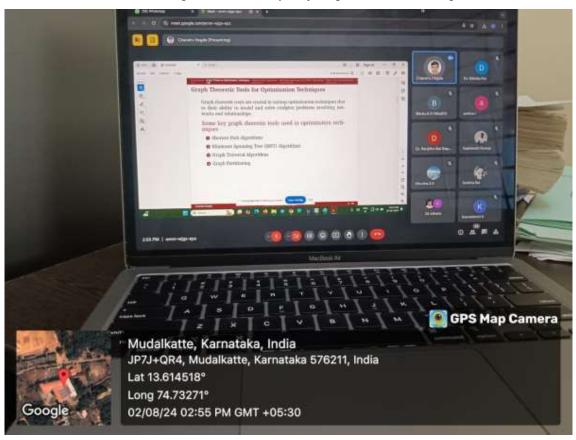
## Resource Person: Dr. Chandru Hegde

Dr. Chandru Hegde is an Assistant Professor at the Department of Mathematics, Mangalore University. With over 13 years of teaching and research experience, specializing in Discrete Mathematics, Graph Theory, and Optimization Techniques. Dr. Hegde has published 19 research papers in prestigious international journals, with an additional 3 papers currently under review. His work spans various aspects of graph theory, including metric dimensions, radio numbers, and secure sets, reflecting his diverse expertise and contributions to the field.

### Report

Dr. Chandru explained some major applications of optimization techniques in the graph theoretical approach. Complex algorithms used to trace these techniques were analyzed in a much simpler way. The presentation demonstrated why optimization techniques are powerful in the modern world. Graph theoretical tools used for optimization, such as shortest path algorithms, MST (Minimum Spanning Tree) algorithms, graph traversal algorithms, and graph partitioning, were illustrated by the speaker. He justified how optimization techniques help

enhance the efficiency of outcomes within given constraints while reducing costs and improving overall performance. He emphasized why graph theoretical tools play a crucial role due to their ability to model and solve complex problems involving networks and relationships. He encouraged the group to pursue research in this field by highlighting some open problems, such as the construction of algorithms to study major optimization techniques.



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# **Organizing Committee:**

- Prof. Deepak Shetty M (HOD, BSH Department)
- Dr. Nikhila Pai (Sr. Assistant Professor in Chemistry)
- Prof. Asha Kumari (Assistant Professor in Chemistry)
- Prof. Chaithra (Assistant Professor in Mathematics)
- Prof. Akshatha Shetty (Assistant Professor in Mathematics)
- Prof. Kamalakshi Adiga (Assistant Professor in Mathematics)
- Prof . Subrahmanya Naik (Assistant Professor in Physics)

Report prepared by

Dr. Nikhila Pai Convenor HOD, BSH Department

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Dr	Dr	
O Prof	O Prof	
O Mr	O Mr	
O Ms	O Ms	
Full Name * NIkhila Pai		

Designation *	
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Department *	
Chemistry	
Institution's Name *	
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Session 1	
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Dr. Shashanka Rajendrachari (Topic : Powder Metallurgy: structured alloys)  How would you rate your overall experience with the  Excellent	

How relevant was the content presented during this session to the topic? *
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How effective were the presenter's communication and presentation skills? *
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Dr. Sudhakar Y N ( Topic : Research Methods in Science)	
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Session 4
Dr. Chandru Hegde (Topic : Some Optimization Techniques)
How would you rate your overall experience with the session? *
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Dr Nikhila Pai

Convenor

Prof. Deepak Shetty M

HOD, BSH Department



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Institute of Technology held on 1st and 2nd of August 2024.



Dr. Nikhila Pai

Convenor

**Prof. Deepak Shetty M** 

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Dr. Nikhila Pai

Convenor

Prof. Deepak Shetty M

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**Dr. Abdul Kareem**Principal MIT Kundapura