

# Reflections

BSE / Rf - 4

... In focus for better tomorrow

2020-21 Even Sem

Department News Letter

## Highlights – 2020-21 Even Sem

About the Department

Faculty Achievements

National Science Day

A Cordial Welcome to the new tutors of the Department

### For Internal Circulation

Department of Basic Science Engineering & Humanities

Atria Institute of Technology, Anandanagar, Bengaluru 560024



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## About the Department



**Dr. Nalinakshi N**

M.Sc., M.Phil., Ph.D.

Professor & Head,  
Department of Basic Science Engg. & Humanities  
Atria Institute of Technology  
Anandanagar, Bengaluru – 560 024

The department of Basic Sciences Engineering and Humanities is a first rostrum all the aspiring engineers step on to. It strongly believes that knowledge is the base of all basic sciences and it strives to achieve this power to its best. This Department is devoted to foster the fundamental principles and understanding of Science to enhance the students' basic knowledge of Engineering. It offers excellent introductory courses in Mathematics, Physics, Chemistry and English which will both instruct and stimulate students in all of the University's programs. The department believes that engineers are a significant source of technological innovation and expertise. To achieve this belief, the department continuously fosters students to focus on their brainpower on solving problems through the application of science and mathematics, discovering new ways to make life better for the general public. Students are guided by well experienced and highly qualified faculty members who strive to improve the students learning, research and development processes. The "spark" of creativity is a hallmark of the department and it endeavor to create the same zest amongst all the budding engineers and this process is unceasing.

*This year the Institute was blessed with good number of admissions. Even during the pandemic we had seen students visiting the campus and availing the benefits out of our Institute. The student community was divided into two cycles with four sections under the Physics cycle and four sections under the Chemistry cycle.*

*In order to rejuvenate the students to prepare themselves for a new educational career an Induction Program was conducted for all the newly admitted students between the 14th till the 19th of December 2020. This program mainly concentrated on helping the fresher's get adjusted and feel comfortable in the new environment. It also inculcated in them the ethos and culture of the institution and helped them build bonds with other students and faculty members. The major emphasis was to expose them to a sense of larger purpose and self-exploration within the ATRIAN campus.*

*Students enjoyed the sessions, where they actively participated in all the induction classes and their output was overwhelming. The academic year kick started with an Orientation Program organized by the Admission department on 20/12/2020, where students were given an overview of the campus and to each department. The most important part of the Program was when students were given an opportunity to showcase their talents and were also expected to share their views on the Induction Program. Their responses proved that they were prepared for a new phase of life with ATRIA.*

*The regular classes commenced from the 21st of December 2020 through online mode. The offline classes commenced from the 18th of January 2021. In order to get along with the new environment, the energetic teachers of ATRIA threw a fresher's party for all the students. The day was divided into four slots with students having an open interaction with experts, attended Panel discussions, interacted with the Principal and HoDs and finally had a bonanza through the Cultural Performances put forth by the faculties. With this the academic year commenced and the semester flourished with learning and experiences.*

*To enhance the learning experiences of the students the department had organised various programs and webinars through online and offline mode. Students were actively involved in the learning process and gained the best out of it. The semester came to an end with the final exams and all the students were promoted to the II year. The department had taken an initiative to create a telegram group, to keep in touch with the students and the group has been an active one, where messages pertaining to programs organized by the department are constantly being updated.*

## NBA Internal Audit

*The Department of Basic Science Engineering and Humanities had invited Dr. Shanti Mahesh, HOD, ISE, Prof. Vasanthi, Dean IQAC, Dr. Surendra H J, Professor, CV, as the internal NBA committee members for auditing. Dr. Nalinakshi, HOD, Department of Basic Sciences, presented all the necessary documents being prepared for the upcoming NBA Audit to the committee members. The Course and Personal files of the department faculties were reviewed and necessary suggestions and scope for improvement was shared by the committee. Along with this the student's progress and achievements records were viewed and necessary suggestions were also provided for the same.*



*At the end of the audit it was claimed that, the preparation of the department seemed commendable and few important suggestions were given for improvement.*

## NATIONAL SCIENCE DAY CELEBRATION

To commemorate the invention of ‘The Raman Effect’ by the veteran Indian Physicist, Sir Chandrasekhara Venkata Raman, National Science Day was celebrated at ATRIA Institute of Technology by the Department of Basic Sciences with great enthusiasm on March 3, 2021.

This year the department had organized a one-week intra-departmental fest SCIENTIA-2021, motivating students to implement their subject-related knowledge onto practical day-to-day activities. In this regard, a set of 12 events were conducted namely Quiz, Debate, Pick and Speak, App Development and Management, Slogan Writing, Best out of Waste, Logo Designing, Poster Making, Collage, 60 Seconds Science, Photography, and Project Exhibition. Each of the competitions revolved around a theme picked from the various genres of science and students actively participated and exhibited their ideas creatively. The main intention of these competitions was, to create awareness amongst students to understand the key role of Science in their daily walk and talk of life. The winners of the competition were awarded at the valedictory ceremony of the National Science Day celebration by the Chief Guest.

Dr. T N Sreenivasa, the Principal, and Dr. Nalinakshi N, the HoD of BSE department had shared the stage along with Dr. Sreekanteshwara Swamy, Consultant at Vision Group of Science and Technology who was invited as the Chief Guest to witness the celebration. Dr. Swamy had galvanized the audience with his speech, where he had quoted few historical incidents which revolved during the time of Sir C V Raman, which served to be a boon to mankind. Principal Dr. T N Sreenivasa, addressed the gathering on the relevance of the theme for the 2021 National Science Day celebration “Future of Science Technology and Innovation: Impact on Education Skills and Work”.

This was followed by the distribution of prizes to the winners of the SCIENTIA competition. The celebration was a successful one and we believe that the major objective of the National Science Day was met.

### List of events and winners name

Event	I Prize	Sec	II Prize	Sec	III Prize	Sec
<b>Collage</b>	Abinaya R	G2	Sai Ranjan	G2	Joel Melroy Pinto	I1
	Aaliya Nahid	G2	Hydar Ali	G2	Yuktha Das M	I2
	Likitha Reddy	G2	Chethan H R	G2		
<b>App Development And Management</b>	Mohammed Faizan	H2	Vaibhav Rohila	G2	Karthik	I1
	Sai Shreyas	H2			Aviral	I2
	Umar Farooq	H2			Midhun	A2
<b>Slogan Writing</b>	Aqueel Somsagar	B2	Kirti Pathak	J	Jayalakshmi V	B1
<b>60 Seconds Science</b>	Roshan	I2	-	-	-	-
<b>Debate</b>	Midun Mohan	A2	Aryaman D	I1	Yashvardhan	H1
	Aviral Kanodia	H2	Pranav B S	I2	Sudarshan	H1
	Shravani T S	H2	-	-	Tejashwini	H1
<b>Pick And Speak</b>	Aryaman Datta	I1	Midun Mohan	A2	Rohith N	
<b>Photography</b>	Mubarak		Rakshitha	I1	Karthik	G1
<b>Best Out Of Waste</b>	Swetha Lalitha V Haimavathi A R	A1	Jaspreet Kaur	B1	Manasa Vaishnavi Prajwal	H1
<b>Poster Making Competition</b>	Durgashree	C1	Vidya J	A	Hajira Zuha	I1
<b>Quiz</b>	Vaibhav Rohilla	G2	Rupesh	A2	Ankesh Kumar	C1
	Aditi R N	G2	Monish Kumar	A2	Sheshadri P	C1
	K Sirajuddin	G2	Abdul	A2	S G Sethu	C1
<b>Project Exhibition</b>	Sahil Khan	D2	Saitejas Shivu B D	I2	Mohammed Suhaib	C2
	Aditya Singh	D1	Rakshith	I2	Pawan R	C2
	Rohit Kumar	D2	Sagar Ulli	I2	-	-
<b>Logo Designing</b>	Karthik B	G1	Padmanayan	J	Hajira Zuha	I

## Webinars Conducted



**Topic** : Inverse Problems in Imaging Applications  
**Date and Time** : 5<sup>th</sup> June 2021, 11:00 AM  
**Speaker** : Dr. Venky Krishnan  
Professor,  
Tata Institute of Fundamental  
Research Centre for Applicable  
Mathematic Bangalore

**Topic** : Effective ways of writing a resume

**Date and Time**: 17<sup>th</sup> July 2021

**Speaker**: Prof. Krishnamurthy M

Assistant professor and head  
New Horizon First Grade College  
Bangalore

In the line of webinars organized to widen the horizon of knowledge amongst students, the Department of Basic Sciences Engineering and Humanities, came forward to help students understand the nuances of drafting a resume through the webinar titled “Effective Ways of Writing a Resume”.



Prof. Krishnamurthy M, from New Horizon College was invited as the speaker of the day. The event began with Dr. Nalinakshi N, HoD of the BSE department bidding a formal welcome to the gathering, who gave an overview of the role and importance of a resume in shaping one's professional career. Ma'am had stated that in today's competitive market of professional jobs, a resume is usually a base requirement for moving forward in the interview process and that crafting a resume requires patience and deeper insight into one's background.

This was taken over with Prof. Jeslin G, the event coordinator briefing the profile of the speaker to the audience. This was followed with the speaker taking over the session, who began with helping students understand the title of the webinar through personal and day to day examples taken from the competitive world. The speaker laid emphasis on the structure of a resume, tips for crafting an attractive resume, overcoming the hassles that drop in while drafting an effective resume and the formats to be followed while drafting a resume to a prospective employer.

The webinar was an interesting one, with the speaker often referring to examples and anecdotes through personal experience. The event closed with the question and answer form, where the audience had raised quality questions which were effectively answered by the speaker.

**Department of Basic Science Engineering & Humanities**

**Speaker**  
**Prof. Venkateswarlu Dasari**  
 Assistant Professor, Department of BSE, E.H  
 Atria Institute of Technology, Bengaluru - 560 024

**Join Zoom Meeting**  
<https://atriaweb.zoom.us/j/85111348630?pwd=OS1leW9WUjNMTUo0Q0N3RkZlbnZlT0p>  
 Meeting ID: 851 1134 8630 Passcode: 230409

Ms. Jeeba G  
 Ms. Umadevi R  
 Assistant Professor, Coordinator

Dr. Nalinakshi N  
 Professor & Head,  
 BSE & H

Dr. T N Sreenivasa  
 Principal,  
 Atria IT

Prof. Venkateswarlu Dasari, from the Department of Physics, came forward to galvanize the students on this vast topic. The webinar began with a formal introduction given by Dr. Nalinakshi N, HoD of Basic Sciences Department who traced the lineage of the constant Pi and mentioned how this value is used in studies such as Fast Fourier Transform, and Real Life applications that span over Biology, Medicine, Physics, Civil, Mechanical, Communication Engineering, and Data Sciences.

This was followed by the speaker Prof. Dasari taking over the platform. Sir had touched upon the wide spectrum the area of Pi covered and had paid attention to details of this application using classic examples.

He arranged the topics in an orderly manner and delivered the lecture with ease. Furthermore, live examples were used to show how the value of Pi is applied in real-life scenarios and students actively participated in the due course.

This was followed by the discussion forum, where students and staff came up with their questions which were clarified by the speaker. The event came to a closure with a vote of thanks by thanking all those who have contributed towards the success of the webinar.

**ATRIA INSTITUTE OF TECHNOLOGY**  
 Department of Basic Science Engineering & Humanities

**Speaker:**  
**MURULIDHAR K S**  
 B.E., M.Tech., (Ph.D.), M.ASDF(London), Mvibho  
 (New Delhi), MISTE, MISHRAE  
 Founder Director - Quantum TechnIQ Pvt. Ltd  
 Jataayu Staffing Force Pvt. Ltd

**Join Zoom Meeting**  
<https://atriaweb.zoom.us/j/81396760649?pwd=Q0N1MlRlPjVud0RlUjRkZlbnZlT0p>  
 Meeting ID: 813 9676 0649 Passcode: 017837

Prof. Umadevi R  
 Asst. Prof. Coordinator

Dr. Nalinakshi N  
 Prof. and Head, BSE & H

Dr. T N Sreenivasa  
 Principal

**WEBINAR**  
 on  
**"Production of Biogas using kitchen waste and the applications of Bio waste"**

**18** **11:30 AM**

National Digital Library of India  
 Atria Institute of Technology

The department of Basic Sciences Engineering and Humanities has always been a step ahead in inculcating social values amongst the students. The major aim of the department is not only to mold the students to become innovative engineers but also to be responsible citizens and humanitarians of society. In this regard, the department has joint hands with the chain of Green Initiatives project developed by VTU. To help students to be aware of this program, the department had organized a webinar titled "Production of Biogas using Kitchen Waste and the Application of Bio-Waste" on the 18th of August, 2021 an important area of study especially in the changing environmental conditions of the world.

Prof. Murulidhar K S, the Founder Director of Quantum TEchnIQ Pvt. Ltd. and Jataayu Staffing Force Pvt. Ltd., and a renowned researcher in the area of Biogas was invited to be the guest speaker of the day. The webinar began with a formal introduction given by the HoD Dr. Nalinakshi N, who briefed the participants on the environmental changes being noticed due to man-made disasters and how they could be balanced through Biogas, which would combat the harmful effects of global warming. This was taken over with Prof. Umadevi R introducing the speaker to the audience. The webinar progressed with the speaker explaining the applications of biogas in day-to-day scenarios along with its characteristic features and usage.

This webinar was helpful for students, who would look forth to contribute to the betterment of society in the smallest way possible. The speaker also made efforts to show how biogas can be used for various purposes and how one can produce it naturally in their surroundings. The event came to an end with the discussion forum, where students raised their questions which was resolved by the speaker. The webinar thus came to an end, with the organizer thanking the participants and the organizer for their support rendered.

## Women's Day Celebration

The department had celebrated International Women's day on the 8<sup>th</sup> of March, 2021. The male faculties of the department had organized several games to motivate the female faculty and the winners of the events were awarded by the Head of the Department.

This celebration was an icon to show the spirit of humanity and it broke the gender stereotypes being followed at various situations.



## BLOOD DONATION CAMP

In-order to create awareness on the importance of blood donation amongst budding youth, the Basic Science Department came forward in organizing a Blood Donation Camp in association with the Rotary TTK Blood Bank on the 20<sup>th</sup> of March 2021. An orientation program was held on the 19<sup>th</sup> of March 2021, where Dr. Narasimha Swamy galvanized the students on the positive effects one would gain by donating blood.

The camp was inaugurated by the Chief Guest Shri Kaushik Sunder Raju, Principal Dr T N Sreenivasa and HODs of the respective departments. There were nearly 75 volunteers who included students and staff from AIT who came forward to donate blood voluntarily. Looking The event coordinator Prof. Om Prakash, from the IS Dept. ensured to hold such camps in the future for the benefit and well-being of the society.

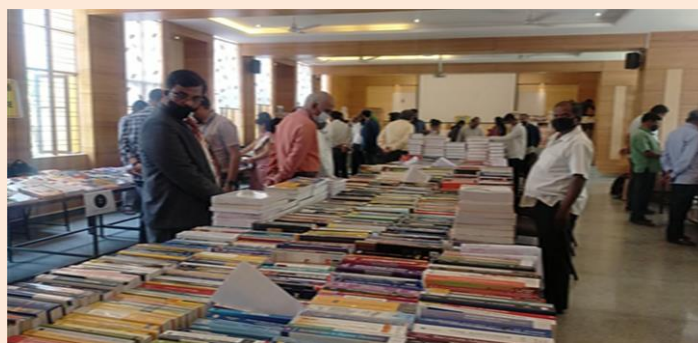


## BOOK EXHIBITION

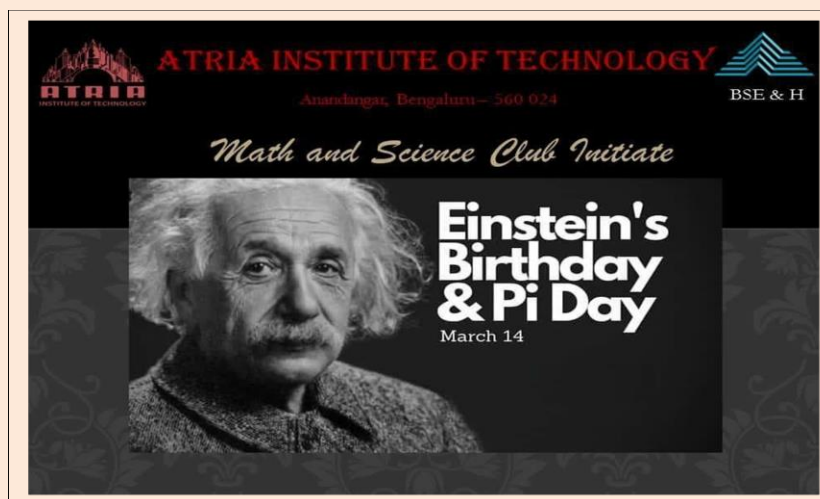
The Library and Information Centre had organised a book exhibition for all the first year pursuing students on the 19<sup>th</sup> and 20<sup>th</sup> of March 2021. A wide array of books was displayed at the Seminar Hall between 10:30 AM to 05:30 PM. The exhibition was inaugurated by Mr. K. Nagarajun, Director of Atria Group of Industries, CEO, Mr. Shaheem Rehman, Principal, Dr. T.N. Sreenivasa and the HODs of the respective departments.

There were nearly ten stalls put up by vendors and book suppliers such as **ACM distributors, Book Paradise, CBS Publishers, INFO Book Distributors, Shroff Publishers, S.K. Publishers and Distributors, Sri Book World, Surya Book Suppliers, Wiley India Private Limited and Southern Book Sellers.**

They displayed a total of **5,750 books**. There were books on Engineering, MBA, M Tech, general books, novels, GATE books and other competitive examination guides.




## International Pi ( $\pi$ ) day



The department of Basic Sciences Engineering and Humanities had celebrated Sir Einstein's Birthday and Pi Day on the 14<sup>th</sup> of March, 2021 to commemorate the contributions of this legend to the field of Science.




## π Approximation day




**DEPARTMENT OF BASIC SCIENCE ENGINEERING & HUMANITIES**

Conducting the following events on the eve of  
celebration of


**"π" Approximation Day**  
(for I Year Students)




**Quiz!**




**Collage**



**Pi Sentence Challenge**



**Essay Writing**



**SCIENCE EXPO**

**Webinar on "Importance of "π" in Mathematics, Science & Engineering"**  
(Mandatory to all students)

Click on the link to register for the events  
<https://forms.gle/48yGvjRhHifmYmW6>

*Ms. Jeslin G & Ms. Umadevi R*  
Assistant Professor, Coordinator

*Dr. Nalinakshi N*  
Professor & Head, RSE & H

*Dr. T N Sreenivasa*  
Principal, Atria IT

Every year July 22 is commemorated as Pi Approximation Day also known as Casual Pi Day, a day dedicated to the mathematical constant Pi. At Atria we witnessed this day to commemorate the celebration of Sankalp on 14th March 2021. The department of Basic Sciences had come forward by organizing several events for the first year students, to help them understand the role of Pi in the field of Sciences.

Events such as Quiz Competition, Best out of Waste, Slogan Writing Competition, Pi Sentence Challenge and Discovery Project Expo were organized by the department faculty. Each of the events revolved around scientific themes and was conducted virtually in a much organized manner. The events were stretched throughout the day and students actively participated in them.

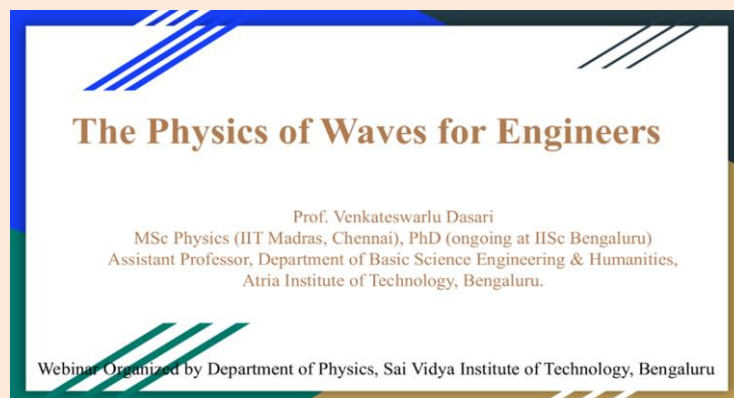
The winners of the competition are as follows:

Sl. No.	EVENTS	WINNERS
1	<b>COLLAGE</b>	Mohammed Aqeel Somsagar
2	<b>QUIZ</b>	Timothy G
		Keerthi Patak
3	<b>PI SENTENCE CHALLENGE</b>	Kirti Pathak
		Hajira Zuha
		Aryamann Datta
4	<b>ESSAY WRITING</b>	Aryamann Datta
		Hajira Zuha

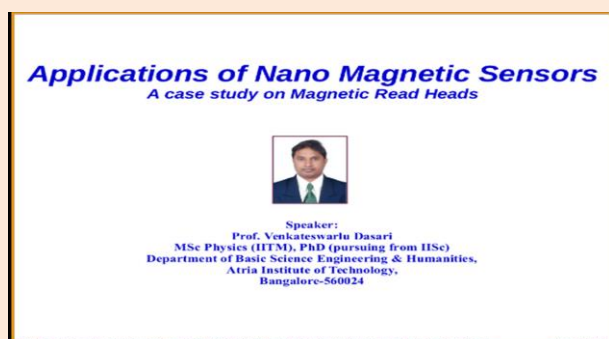
## Faculty Achievements

Prof. Venkateswarlu Dasari has given three invited talks and are listed as follows.

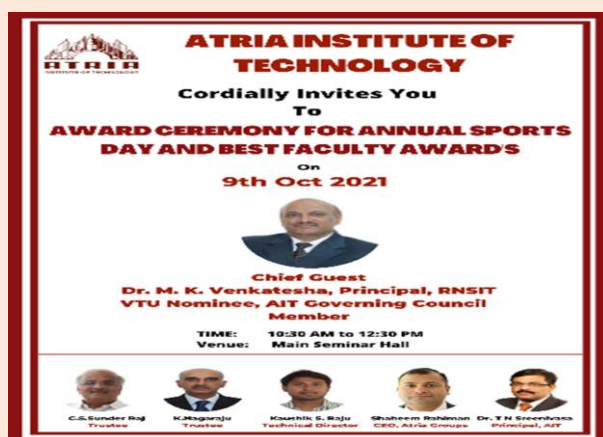
1. An invited talk was given on “Physics of waves for engineers”, through online mode on 10<sup>th</sup> July 2021, organized by Dept. of Physics, Sai Vidya Institute of Technology, Rajanukunte, Bangalore-64. More than 100 students and faculty members were benefited from the webinar.



2. An invited guest lecture on “Applications of Nano Magnetic Sensors” was given through online mode for the event of “Dr APJ Abdul Kalam Memorial Lecture – 2021”, held on 27<sup>th</sup> July 2021, organized by the “Rotract Club of Bangalore Seshadripuram”. More than 100 students, faculty members and researchers were benefited from the webinar.



3. Mr. Chethan P B was awarded as best teacher of BSE department for the academic year 2020-21 on the occasion of “Award Ceremony for Annual Sports day and Best Faculty awards” held on 9th October 2021.



## Faculty Achievements



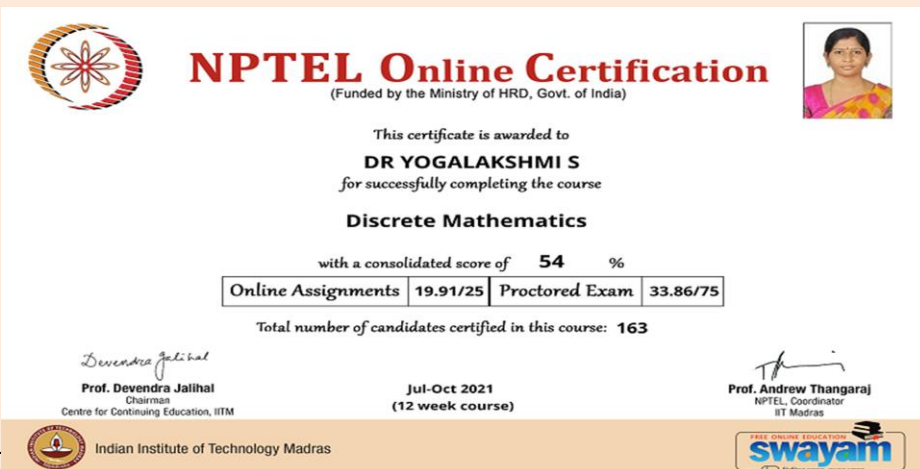
Congratulation to Dr. Prakashaiah B G who has received the best paper award in Asia's Largest Conference on Corrosion – CORCON 2021, Title of the research paper is “Effect of organic corrosion inhibitor sealed oxide layer on the corrosion behaviour of aluminum alloy 2024-T3”, organised by NACE International Gateway India Section, 18-21 November 2021.



Congratulation to Dr. Venkatesh S and Team, for securing Grade B in the project “Waste Management of Perishable Fruit and Vegetables (Project Oriented Problem Based Learning) program conducted by IUCEE Foundation during Aug-Dec 2021.



Congratulation to Dr. Yogalakshmi S for completing the NPTEL online certification course on Discrete Mathematics.



## Cordial Welcome to the New Tutors of the Department

**Dr. Yogalakshmi S**



*Dr. Yogalakshmi S has completed her doctoral degree on the thesis titled*

*“Certain Classes of Multilevel Distance Labeling” from VTU, Belagavi. She holds a Master’s degree in Mathematics from Bangalore University, Bengaluru. She has 14 years of teaching experience. She has published five articles in the reputed International Journals and also presented papers in National and International Conferences. She has also visited Mahidol University, Bangkok, Thailand for presenting a paper in the year 2018. She has a Lifetime membership in Academy of Discrete Mathematics and Applications (ADMA).*

*We are glad to have Dr. Yogalakshmi. S at our department and we wish, her contribution would strengthen the growth of the department.*

**Prof. Vanitha N**

*We welcome Prof. Vanitha N who has joined the Department of Physics as an Assistant Professor. She holds a Masters’ degree in Physics from the University of Bangalore and has 3 years of teaching experience. She has participated in a National level lecture competition organized by the KRVP representing the rural districts in Bangalore.*



**Ms. Chaitra H**



*We welcome Ms. Chaitra H who joined the Department of chemistry as a lab instructor from 05-03-21. She holds a Masters’ degree in Molecular Biology from the University of Mysore.*

**Mr Gangadhar**

*Mr Gangadhar holds a Bachelor’s degree in Science from Bangalore University with Electronics specialization. He has worked as Lab instructor at Sambhram Institute of Technology, Bangalore. He also takes part in many book exhibitions and pursuing his Master’s degree in Physics. He started his journey as lab instructor with BSE, AIT since 5th October 2021 we wish his contributions would help in the growth of the*



*Editors:*

*Dr. Nalinakshi N*

*Dr. Prakashaiah B G*

*Mr. Chethan P.B*

*Ms. Anu.*

*Ms. Jeslin G*