

Reflections

BSE / Rf - 2

... In focus for better tomorrow

Department News Letter

2019-20 EVEN Semester

Highlights

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Faculty Achievements

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
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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.

WEBINARS CONDUCTED

WORLD OZONE DAY

Date: 16th September 2020



The “World Ozone Day” was observed by the department through organizing a webinar to create awareness amongst the students towards preserving the ozone layer. **The speaker Mr. Basavaraj** took efforts to sow the seeds of how the ozone layer is depleting and how humans can save it for the well-being of the coming generations.

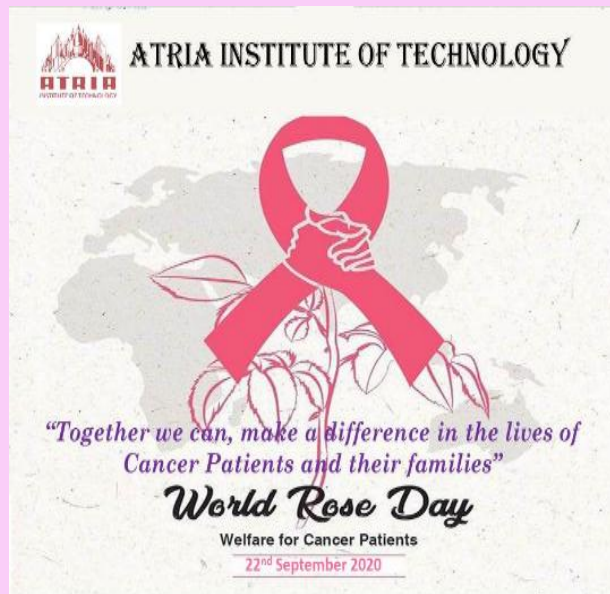
The speaker carefully listed out the various causes that lead to the depletion of the ozone and stated how this depletion has seen a reduction during the pandemic times. Sir had also used statistics to show the range of depletion of the ozone which helped the audience to understand the harm we are doing to our environment. He also motivated the audience to take up primary measures to protect this basic living structure so that the world would be a better place to live in

World Rose Day is observed every year on September 22nd in the memory of Melinda Rose, who was diagnosed with Askin’s Tumor, a rare form of blood cancer. The department had organized a webinar to commemorate this day to help students understand the root cause for the deadly disease and ways to prevent it. **Dr. Niti Raizada** was invited as a speaker who had prepared a presentation in brief about the various types, causes, symptoms and precautions to be undertaken for those who fall in the dead line of being affected with cancer. The speaker threw light on how the illness would affect both the genders and also clearly explained how this chronic illness can be faced, the challenges witnessed by the patients and how to overcome it with a positive light. More emphasis was exerted on the ways to identify the bodily reactions and symptoms towards this illness and how one had to get an access to timely quality diagnosis and treatment.

The speaker had also briefed about the therapies and treatments available in the medical sector and the several ways to get hold of them for speedy recovery. The most important session was the Question and Answer Forum, where the audience actively participated by asking queries. The speaker carefully answered to the questions and tried resolving the doubts of the audiences

WORLD ROSE DAY

Date: 20th September 2020



YOUR EYES IN COVID-19

Date: 28th September 2020

YOUR EYES AND COVID 19
at Atria Institute of Technology

LIVE WEBINAR
MONDAY, 28th SEPTEMBER 2020
3:30 PM TO 4:30 PM

Speaker
Dr. Hardik Nanavati
Narayana Nethralaya, Bangalore

CLICK HERE FOR THE LINK
Meeting ID: 827 2130 0138
Passcode: 215298

TO KNOW THE STATUS OF YOUR EYES DURING PANDEMIC, CLICK HERE

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As a part of health and hygiene, a webinar on "Your Eyes in COVID 19" was organized by the department on the 28th of September 2020. Dr. Hardik Nanavati, from Narayana Nethralaya, Bangalore was invited as the guest speaker, who trained students on the hygiene they had to follow to protect their eyes during the pandemic. The session seemed to be a useful one to all the participants during this pandemic as it gave them the best outcomes. The most interesting part of the webinar was the Question and Answer forum, where audience raised several relevant problems related to ophthalmology particularly relevant to the present situation and the speaker took time to respond to the queries and also gave suggestions for the same.

The BSE Department had organized a webinar on "The Importance of Blood Donation" on the 1st of October 2020 to create an awareness on the importance of blood donation, a life saver to those in need. The speaker Mrs. Soumi Datta a social worker, craftly explained on how, donating blood could save millions and how this activity could also rejuvenate the donor. She laid emphasis on the process of blood donation and how one had to take of oneself before and after donating blood, which is an important aspect in this process. She also explained the process of how the donated blood would be passed on the needy and the ways through which one could get access to the same. This seemed to be an important webinar as it would be helpful at times of emergency.

IMPORTANCE OF BLOOD DONATION

Date: 01st October 2020

ATRIA INSTITUTE OF TECHNOLOGY

Give the gift of life.
Donate Blood.

WEBINAR
ON
"The Importance of Blood Donation"

01st October 2020

WILDLIFE, MANAGEMENT AND BEYOND

Date: 07th October 2020

Atria Institute of Technology
In association with
Foundation for Ecology and Education Development
on occasion of

66TH WILDLIFE WEEK

WEBINAR ON
WILDLIFE, MANAGEMENT AND BEYOND

Speaker:
Ramesh Belegere
Author, Researcher and Founder
FEED.

Guest:
Dr. K.V. Narayanaswamy
Principal, Atria IT

October 07, 2020,
3:30 PM onward

Webinar link:
<https://meet.google.com/eeu-waww-jng>

Webinar Coordinator:
Prof. Vasanthi and Dr. Nalini
Atria IT

On the occasion of World Wildlife Week, a webinar was organized on the topic "Wildlife, Management and Beyond" on 7th of October 2020. The speaker Mr. Ramesh Belegere took a walk through to the titled of the webinar by presenting pictures of few endangered species which was rarely noticed by the human eye. He also quoted multiple examples of how animals were ill-treated by humans for their own benefit and the laws which were passed against them.

Moreover, the main aim of this webinar was to help the audience to understand, how ecological balance would be disturbed if wildlife is left unprotected and which would further lead to a complete imbalance in the earth. He also asked the audience to take up specific managerial ideas to protect wildlife for the well-being of the society and for the future generations

The BSE Dept, had organized a webinar titled "Development and Natural Disaster" on 13th October 2020 by Ms. Sujatha S R. The purpose of this webinar was to delineate, from a social scientific perspective, and concentrate on the major factors involved in disaster rehabilitation from a necessarily superficial but nevertheless accurate and useful viewpoint. The speaker laid emphasis on how natural and human-made disasters affect human population and how it is becoming more common worldwide, due to a myriad of factors related to population growth and urbanization.

She exclaimed how modernization, urbanization and globalization has led to major natural disasters and how humans have become invaders on their own land. She listed several types of disasters, both natural and man-made and how such calamities has posed a threat to human life. Light was specifically thrown on how to overcome and control such disasters and contribute to the development of the nation.

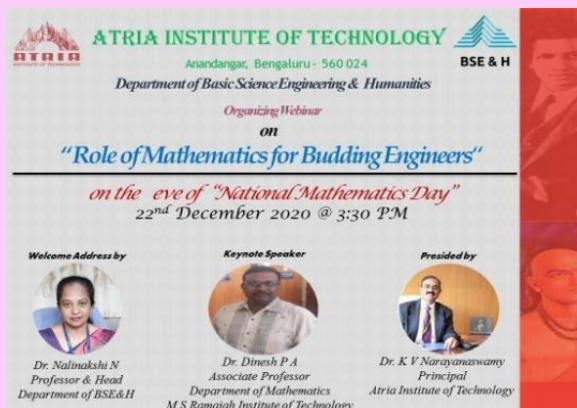
DEVELOPMENT & NATURAL DISASTER

Date: 13th October 2020



Role of Mathematics for budding Engineers on the eve of National Mathematics Day

Date: 22nd December 2020



National Mathematics Day is celebrated on 22 December annually to commemorate the birth anniversary of the famous mathematician Srinivasa Ramanujan. To commemorate this eve a webinar was organized by Department of Basic Science and Humanities. Dr. Dimesh P A, Associate Professor from M. S Ramaiah Institute of technology was invited as the speaker.

The objective of this webinar was to show how the language of mathematics consists of a substrate of many natural languages using technical terms and grammatical conventions which are peculiar to mathematical discourse. The speaker emphasized on the idea that mathematical words have different shades of meaning in the day to day aspects of life. He pointed out on the ideology of how, faced with mathematical problems, students have to find ways to use mathematics to represent the situation, manipulate the representations to find solutions, interpret the solution in the original context, and look for ways to generalize the solution to a whole class of problems. This webinar thus provide a detailed theoretical discussion about ideas concerning mathematics and its implications for society.



CO-CURRICULAR ACTIVITIES

The department had organized a Slogan/Caption Writing Competition on the 17th of November 2020 to give a break to students during the pandemic. The competition took place virtually, where students were sent a Google Form which consisted of the image for which the slogan/caption had to be written. The theme(image) for the slogan writing competition was the “Efforts of the Frontline Warriors”. Students actively participated in the competition which was judged by Prof. Karthik P, Assistant Professor from BGS College and Prof. Krishnamurthy M, Assistant Professor from New Horizon College on the basis of Creativity and Relevance to the theme.

The following Events are conducted:

- Beat Boxing
- Best out of Waste
- Face Painting
- Slogan writing competition

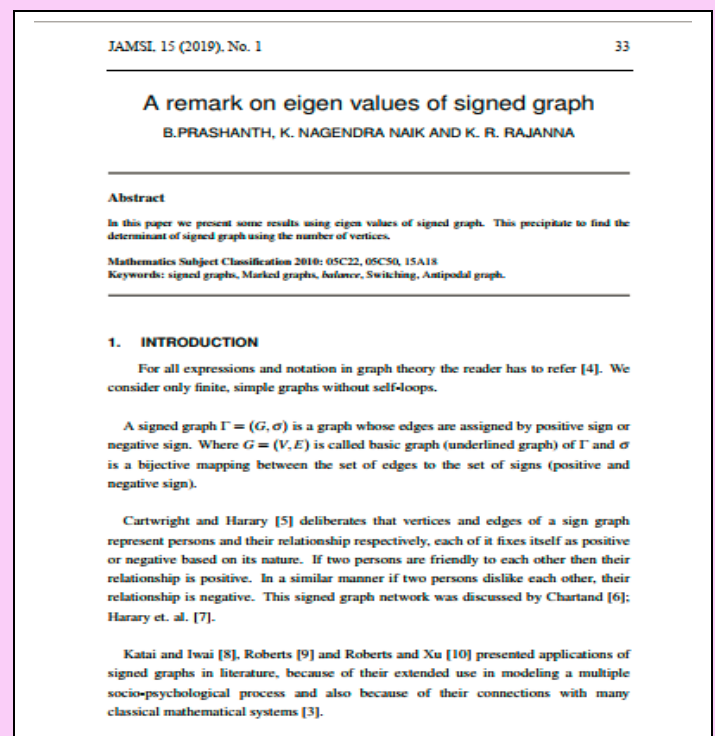


FACULTY ACHIEVEMENTS

Hearty congratulations to Prof. Nagendra Naik



Title: A remark on Eigen values of signed graph in Journal of applied Mathematics, statistics and informatics, 15(1), 2019



FACULTY ACHIEVEMENTS

Hearty Congratulations to Dr. Venkatesh S , Department of Chemistry for getting his research works published.



Dr. Venkatesh Sadhana

1. “Methylene Blue Degradation by AgCuO Bimetallic Nanomaterial, Green Synthesized using Cordia sebestena leaves” in *Research Journal of Pharmacy and Technology*. 13 (7), July (2020)
2. Title: “Antibiotic Potential of Phytochemicals in Punica granatum - Pericarp and Their Proposed In-Silico Mechanism of Action” published in *International Journal of Green Pharmacy-14, (1), Jan-Mar, 2020*

Research J. Pharm. and Tech. 13(7): July 2020

ISSN 0974-3618 (Print) 0974-360X (Online) www.rjptonline.org

RESEARCH ARTICLE

Methylene Blue Degradation by AgCuO Bimetallic Nanomaterial, Green Synthesized using Cordia sebestena leaves

Lokesh Ravi¹, Venkatesh Selvaraj², Saranya Shankar³, Ranjitha Dhevi V. Sundar⁴, Gayathri Segaran⁵, Suganya Kumaresan⁶, Venkatesh Sadhana⁷

¹Department of Botany, St. Joseph's College, Bengaluru, Sri Wris Life Sciences Pvt. Ltd., Vellore. ²School of Biosciences and Technology, VIT University, Vellore. ³Sci Wris Life Sciences Pvt. Ltd., Vellore. ⁴Chemistry Department, Atria Institute of Technology, Bengaluru. ⁵Corresponding Author E-mail: lokeshravi@sjc.ac.in

ABSTRACT:
This study reports green synthesis of AgCuO bimetallic nanomaterial from leaf extract of *Cordia sebestena* and its industrial application as a methylene blue degrading agent. Phytochemical analysis showed that *C. sebestena* leaves are rich in flavonoids, tannins, saponin, phenols and alkaloids. Aqueous extract of *C. sebestena* leaves was used as catalyst (1%) and polyethyleneglycol (PEG) was used as capping agent (0.1%) in a reaction mixture containing 1M AgNO₃ and 1M CuSO₄. The reaction was repeated with AgNO₃ and CuSO₄ individually for comparison. The synthesized nanomaterial were characterized by SEM, EDX and DLS analysis. Synthesized AgCuO nanomaterial demonstrated sharp needle like clusters ranging 671.6 ± 37.3nm in size. Individual Ag and Cu products, were observed to be in micrometer scale. AgCuO nanomaterial demonstrated most efficient degradation of methyleneblue, based on visual and UV spectrum analysis. AgCuO nanomaterial instantly converted the blue colored methylene blue solution into pale green color. Based on gas chromatography mass spectrum (GC-MS) analysis, the mechanism of degradation (chemical attack) was identified, by matching the molecular weight of the fragmented derivatives. AgCuO nanomaterial attacks the Sulphur (S) atom to produce a AgCuO complex, breaking the methylene blue into N, N-dimethylcyclohexa-2,5-dienamine and N, N-dimethylcyclohexa-2,5-diene-1,4-diamine. It was observed that the AgCuO nanomaterials were reusable upto 5times at the tested concentration. The AgCuO Nanomaterial also demonstrated significant antibacterial activity against tested pathogens. These results suggest that the AgCuO Bimetallic Nanomaterial can potentially be applied in treatment of industrial effluents to degrade methylene blue, with added antibacterial effect.

KEYWORDS: AgCuO Nanomaterial, Bimetallic Nanomaterial, Nanomaterial green synthesis, Methylene blue degradation, Industrial effluent treatment, wastewater treatment.

ORIGINAL ARTICLE

Antibiotic potential of phytochemicals in Punica granatum pericarp and their proposed mechanism of action by in silico studies

Lokesh Ravi¹, Venkatesh Sadhana², Divya Jindam³, Suganya Kumaresan⁴, Venkatesh Selvaraj⁵

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Abstract
Aims: *Punica granatum* is a very important plant with commercial interest and is known for its antioxidant potential. The pericarp is a leftover unutilized part of the fruit that has been reported to have several medicinal uses in traditional medicine. This study focuses on analyzing the antibacterial potential of the pericarp extracts and predicts its mechanism of action by *in silico* studies. **Materials and Methods:** Antibacterial activity of *P. granatum* extracts was analyzed using agar-well-diffusion assay. The phytochemicals reported from pericarp of *P. granatum* were analyzed for ADMET properties using SwissADME tool. The molecules were subjected to protein-ligand docking study using AutoDock-4. **Results:** Polar extracts of the pericarp demonstrated significant antibacterial activity against Gram-positive bacteria *Staphylococcus aureus* and methicillin-resistant *S. aureus* (MRSA), i.e., acetone extract showed highest activity with 16 mm zone of inhibition against MRSA and ethanol extract showed 16 mm zone of inhibition against *S. aureus*. The non-polar extract had no significant antibacterial activity. All ten molecules were predicted to be suitable drug-like molecules, with biocompatible physicochemical parameters. Among the analyzed ten phytochemical molecules, flavanone and uronic acid demonstrated significant enzyme inhibition potential against dihydrofolate reductase and topoisomerase IV with a free binding energy of 11.0 kcal/mol and -10.7 kcal/mol, respectively. **Conclusion:** This suggests that the phytochemicals in the polar extracts of *P. granatum* pericarp exhibit a synergistic antagonism against Gram-positive bacteria. Further purification of individual molecules and investigation of their antimicrobial activity are currently in progress.

Key words: ADMET, antibacterial activity, methicillin-resistant *Staphylococcus aureus*, protein-ligand docking, *Punica granatum*

INTRODUCTION

Ever since decades, humans have used plants for their day to day needs such as food, fodder for animals, and also as medicine. Medicinal plants have been studied as a cure for innumerable ailments. In India, Ayurveda system of medicine has been in practice for decades. Ancient literature evidences various plants and their parts to be used in Ayurveda, Siddha, and Unani medicine for treatment and cure of many diseases.^[1] In comparison with synthetic drugs, anticrobials originated from plants are not linked with side effects and have a wide therapeutic potential to cure different infectious diseases.^[2]

Punica granatum is commonly known as pomegranate. Primarily originated from Iran, but also found in Southern India, China, USA, and over the Mediterranean region.^[3] The pomegranate as fruiting plant is anatomically divided into different compartments, including root, bark, flower, leaf, peel, juice, and seeds which are used as potential phytochemical and toxicological activities. The edible fruit of pomegranate is believed to be used

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Hearty Congratulations to Prof. Umadevi R

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Fluid Flow in Composite Cylindrical Regions

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Keywords: Fluid flow, Brinkman equation, Stokes equation, interface boundary conditions, permeability parameter.

Abstract: A steady, 2-D, viscous fluid flow past a fluid solid cylinder of radius 'a' has been considered where the density is constant for incompressible fluid. The flow of fluid happens in 3 regions namely fluid, porous and fluid regions. The constitutive equations for the flow in porous and fluid regions are Brinkman and Stokes equations respectively. The variation of flow patterns by means of streamlines has been analyzed by applying different boundary conditions at the interface of fluid – porous and porous – fluid regions and also on the surface of the solid cylinder assuming that the cross velocity is off from the fluid region. The nature of streamlines is observed for the distinct values of porous parameter 'n' and the corresponding flow behaviour is analyzed graphically. From the obtained results it is noticed that increase in porous parameter, suppress the fluid flow in porous region consequently the fluid moves away from the solid cylinder.

1. Introduction
The idea of fluid flow through a porous media finds its importance in applied sciences and engineering fields such as filtration, geophysics, geomechanics, soil mechanics, rock mechanics, petroleum engineering, biomedical engineering, structural engineering, and in the field of geosciences like hydrogeology, petroleum geology, geophysics, and also in the very disciplinary fields of biology and biophysics, material science. In addition, the principle of porous flow has applications for oil/gas printing and nuclear waste disposal techniques, among others. In the literature, many studies are available on the flow of fluid through the cylindrical permeable medium with the support of Darcy's and Brinkman equations under the different boundary conditions. Raja Sekhar and Ananthanath et al. [2] described the flow field using Darcy's equation. Pop and Cheng et al. [3], Hsiao-ping Hsuan et al. [4] and, Pop and Ingham et al. [4] studied the Stokes flow problem to describe the motion of the fluid over a porous region with the help of Brinkman model. In the presence of a magnetic field, the flow of heat transfer in a certain fluid past a continuously moving porous plate has been studied by Chandran et al. [5]. By showing method they got the analytical solution for velocity and temperature fractions. Sathya Raj and Sekhar et al. [6] analyzed the flow of electrically conducting, steady, and viscous fluid around a circular cylinder with influence of magnetic field applied in the axial direction. The obtained non-linear Navier-Stokes equation was solved using finite difference method. The numerical solution for the fluid flow through and around a permeable cylinder was impacted by Hattasbary et al. [7]. They noticed that, as a result of increase in Darcy number, drag ratio approached from unity to zero. The flow theory of viscous and incompressible fluids with different kinematic viscosities was studied by Negeri Okamoto et al. [8]. Kelvin – Helmholtz's linear study on the instability of the cylindrical interface had been carried out under the influence of a saturated porous bed structure, by exposing the fluids to uniform magnetic fields applied in the axial direction with the help of viscous potential flow theory. It was found that though the effect of porous media on the stability of the system is unstable, the axial electric



Prof. Umadevi R

Title: Fluid flow in composite cylindrical regions- Advanced Engineering Forum – ISSN:2234-991X, Vol 40,pp 63-72 April 2021

COMMUNICATION SKILLS CLASSES FOR LAB INSTRUCTORS

The HR Department in collaboration with the Department of Humanities took an initiative to engage the Lab Instructors of all the departments amidst the pandemic, through an innovative method, namely a Communication Skills Class. The major intent of this class was not only to spend time wisely during the free hours but also to spend it effectively. This class was molded in a way to help the Lab Instructors of all the departments to develop their English speaking skills and gain prominence in the competitive world. The Human Resource Manager Mr. Rohan Aditya Gupta proposed a plan to Dr. Nalinakshi N, the Hod of BSE department and Ms. Jeslin G, Assistant Professor who warmly accepted the proposal and started working on it.

The participants were divided into two groups based on their age and the classes were held every afternoon from 2:00 PM to 4:00 PM beginning from the 8th of June 2020. A closed type syllabus was crafted by the instructor to suit the needs of the participants. The following are a list of topics which was discussed during the class:

- Self-Introduction
- Parts of Speech
- Vocabulary building
- Pronunciation and Intonation
- Tenses
- Diary writing
- Story writing
- Conversation and dialogue building
- Identifying common errors while speaking in English
- Recognizing and correcting the errors made due to Mother Tongue Influence
- Understanding the use age of commonly used words in day to day life
- General Grammar: Tenses, Synonyms, Antonyms, homonyms etc.
- Developing speaking skills
- Group discussions
- Debates
- Pick and speak
- Learning words through movies
- Movie review
- Techniques used in developing Interpersonal Communication
- Overcoming stage fear and developing confidence



| B | C | D | E | F |
|----------------------------|---------|---------------------|------------------------|-----------------------------------|
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| shivaprasad_t@atria.edu | 16 / 20 | Shivaprasad T | Mechanical Engineering | Diploma in Mechanical Engineering |
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The syllabus touched upon various arenas pertaining to communication skills and the same was altered on request by the participants. Apart from the learning criteria, major part of the time was spent on developing speaking skills and a change was witnessed by the participants at the end of the program. In order to check their progress a speech competition was conducted on the 13th of August 2020 which was judge by Mrs. Uma and Ms. Ramya, Assistant Professors of Mathematics from the BSE department.

Cordial Welcome to the New Tutors of the Department



Prof. Pavithra. K

Prof. Pavithra.K holds a Master's Degree in Mathematics, with a specialization in computational fluid dynamics from Central College, Bangalore University. With a passion towards teaching, she started her journey with AIT as an Assistant Professor.

Prof. Ramya N has completed her Masters in Mathematics from Bangalore University with Graph theory and MHD specialization. With a passion towards teaching, she began her career as an Assistant Professor with AIT.



Prof. Ramya. N



Dr. Prakashaiah B G

Dr. Prakashaiah B G received his Doctoral degree from National Institute of Technology Karnataka (NITK), in the field of Chemistry. During his research he had published seven research papers in reputed International journals and presented six research articles in International conferences. His research interest is on the Development of Novel Corrosion Inhibitors and Study on the Electrochemical Behavior of Metal in Different Corrosive Media. Sir has also received the junior and senior research fellowship from National Aerospace Laboratories- CSIR to carry his Ph.D. He has qualified CSIR-NET and GATE and has six years of research experience in NAL-CSIR. Sir is currently working with AIT as Assistant Professor.

Prof. Nagendra Naik



Prof. Nagendra Naik. K holds a Masters' degree in Mathematics from Tumkur University. He is currently pursuing his Ph.D. and has completed his open seminar on Graph Theory. Sir has nearly 7 years of experience in the field of academic and research and has attended several seminars and presented papers at National conferences. Sir is currently working as an Assistant Professor with AIT.



Prof. Jeslin G

Prof. Jeslin G holds a Masters degree in English with three gold medals from Bangalore University. She also holds a diploma degree in English Language Teaching (PGDELT) from the Regional Institute of English, South India. She is working as an Assistant Professor in the department of Humanities, AIT.

Editors:

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Mr. Chethan P.B

Ms. Jeslin G