

SKCET



25th - 31st May 2024



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HACKATHON ACCOLADES



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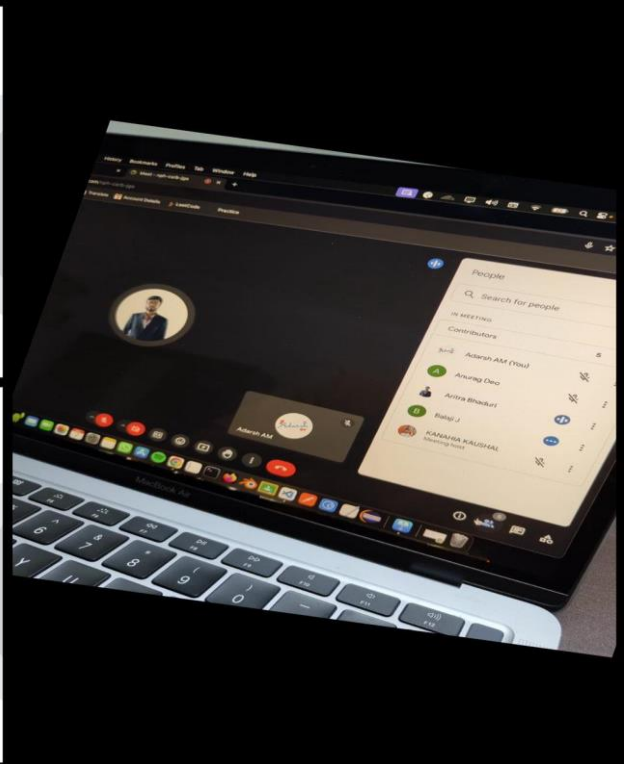


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IT | HACKMATIX HACKATHON 2024



Second year students of IT Department have secured the First Place among 750 incredible teams with a Special Cash prize of Rs.1 lakh in the 36-hour long Online Hackmatix Hackathon 2024 organized by Apeireon, NJACK'S Annual fest in collaboration with E-CELL. The event was hosted by Indian Institute of Technology, Patna on 5th May 2024.

Team Members:

- Balaji J - II IT A
- Adarsh A M - II IT A

Mentor: Dr. T. Keerthika, Associate Professor / IT



STUDENTS PROGRESSION



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CSBS | HOCKEY WORLD CHAMPIONSHIP 2024!



இன்லைன் ஸ்கேட்டிங் ஆக்கி உலக சாம்பியன்ஷிப் போட்டிக்கு தஞ்சையை சேர்ந்த கல்லூரி மாணவி தேர்வு

தஞ்சாவூர், மே.27- தஞ்சை மாதாக்கோட்டை ரோடு பகுதியைச் சேர்ந்தவர் பாஸ்கரன். முன்னாள் தமிழக ஆக்கி வீரர். இவருடைய மனைவி ராணி. இவர் ஆசிரியையாக உள்ளார். இவர்களது 2-வது மகள் பூர்ணிஷா (வயது19). இவர் தற் போது கோவையில் உள்ள ஒரு தனியார் கல்லூரியில் பி.டெக். படித்து வருகிறார். இவர், இன்லைன் ஸ்கேட்டிங் ஆக்கி விளையாட்டில் கடந்த 14 ஆண்டுகளாக பயிற்சி பெற்று, மாநில, தேசிய அளவிலும், ஆசிய அளவிலும் விளையாடி தங்கம், வெள்ளி, வெங்கலப் பதக்கங்களை பெற்றுள்ளார். இதற்கிடையில் இத்தாலி நாட்டில் இன்லைன் ஸ்கேட்டிங் ஆக்கி உலக சாம்பியன்ஷிப் போட்டி வருகிற செப்டம்பர் மாதம் நடக்கிறது. இந்த போட்டியில் விளையாட இந்திய அணி சார்பில் சீனியர் பெண்கள் பிரிவில் பஞ்சாப் அணி மூலம் பூர்ணிஷா தேர்வாகி இருக்கிறார். இதற்கான அறிவிப்பு தற் போது வெளியாகி உள்ளது.

இது குறித்து பூர்ணிஷா கூறும்போது, தமிழகம் சார்பில் இந்த விளையாட்டுக்கான அணி இல்லாத காரணத்தால், நான் பஞ்சாப் மாநில அணியில் கலந்துகொண்டு விளையாடி வருகிறேன். வருகிற செப்டம்பர் மாதம் இத்தாலியில் உலக சாம்பியன்ஷிப் போட்டி நடக்கிறது. இதில் விளையாட நான் தேர்வாகி இருக்கிறேன். இதற்காக ராஜஸ்தான் மாநிலம் ஜோத்பூரில் 15 நாட்களுக்கு சிறப்பு பயிற்சி உள்ளது. அதில் பங்கேற்கதயாராகி கொண்டிருக்கிறேன். அந்த பயிற்சி ஜூன் 10-ந் தேதி முதல் 25-ந் தேதி வரை நடக்கிறது. கடந்த 2021-ல் நடந்த உலக சாம்பியன்ஷிப் போட்டியின் போது கடைசி நேரத்தில் பங்கேற்க முடியாமல் போனது. இந்த முறை தேர்வாகி இந்தியாவுக்காக வெற்றிவாகை சூடி வருவேன் என்றார்.

இன்லைன் ஸ்கேட்டிங் ஹாக்கி உலக சாம்பியன்ஷிப் போட்டி

இந்திய அணியில் இடம் பெற்ற தஞ்சாவூர் மாணவி

தஞ்சாவூர் மாதாக்கோட்டை சாலைபைச் சேர்ந்தவர் முன்னாள் தமிழக ஹாக்கி வீரர் பாஸ்கரன். இவரது மனைவி ராணி, ஆசிரியையாக உள்ளார். இவர்களது 2-வது மகள் பூர்ணிஷா (19). கோவை தனியார் கல்லூரியில் பி.டெக் படித்து வருகிறார்.

இன்லைன் ஸ்கேட்டிங் ஹாக்கி விளையாடு விராங்கனையான பூர்ணிஷா, மாநில, தேசிய, ஆசிய அளவிலான போட்டிகளில் பங்கேற்ற அணிகளில் இடம் பெற்று விளையாடி பதக்கம் வென்றுள்ளார். இந்நிலையில், இத்தாலியில், செப்டம்பர் மாதம் நடைபெற உள்ள இன்லைன் ஸ்கேட்டிங் ஹாக்கி உலக சாம்பியன்ஷிப் போட்டியில் பங்கேற்கும் இந்திய அணியில், பஞ்சாப் அணி மூலம் தேர்வாகியுள்ளார்.

இதுகுறித்து பூர்ணிஷா கூறியது: தமிழகம் சார்பில் இந்த விளையாட்டுக்கான அணி இல்லாத காரணத்தால், பஞ்சாப் மாநில அணியில் கலந்துகொண்டு விளையாடி வருகிறேன். செப்டம்பர் மாதம் இத்தாலியில் நடைபெறவுள்ள உலக சாம்பியன்ஷிப் போட்டியில் பங்கேற்கும் இந்திய அணிக்குத் தேர்வாகியுள்ளேன். இந்தப் போட்டிக்காக ராஜஸ்தான் மாநிலம் ஜோத்பூரில் 15 நாட்கள் சிறப்பு பயிற்சி நடைபெறவுள்ளது. இந்தப் போட்டியில் இந்தியாவுக்காக வெற்றிவாகை சூடி வருவேன் என்றார்.

Poornisha B, student of Second year **CSBS** has been selected to represent India at the prestigious Inline Hockey World Championship 2024! The selection process took place on April 22, 2024, in Chandigarh, marking a significant milestone in her athletic career. This remarkable achievement underscores her dedication, skill and relentless hard work in the sport of inline hockey.



CIVIL | STUDENT ACHIEVEMENT



Third year students of **Civil Engineering** Department have participated in **CEA Fest 2024** - Annual Technical Festival of Civil Engineering Department, IIT ,Chennai on 30th March 2024 and have won First and Third prize with cash awards in the following events.

EVENT: Terraquake- First Prize with a cash award of Rs.6000/-

- Harisudhan.N
- Nithish Kumar .M
- Yogaraj.M

CIVIL | STUDENT ACHIEVEMENT



Event : Concrete Challenge - First Prize with a cash award of Rs.6000/-

- Abilash.c
- Adharsh .S.R
- J aison .B
- Naresh kamar.G
- Navin Kishore .K

Event :Bon-Auto Routier- Third Prize with a cash award of Rs.1000/-

- Kavinraj.A.G
- Navin Kishore .K

Best ambassador award - R.Gunanandhini.

AI&DS | ACE-EPIC IDEA EXPLORATION 4.0



Nivedhitha R, Nivetha R and Miruthula S, students of **First year AI & DS** has participated in the **ACE-EPIC Idea Exploration 4.0: “Emerging Technology - Improve Readability of faded or Obscure Images”** organized by Entrepreneurship Promotion and Incubation Council, a Technology Business Incubation center promoted by Ambala College of Engineering and Applied Research, Ambala held on May 28, 2024.



STUDENTS CERTIFICATION



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ECE | INPLANT TRAINING



Logesh V, Marimuthu Santhosh, Nandhakumaran M, Naraen Harrish M P and **Rathipriya B**, students of Third year ECE have been shortlisted to attend one month Inplant Training Programme in Airport Authority of India (AAI), Coimbatore.



EVENTS



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EEE | IIC WORKSHOP



IIC of SKCET in association with Department of **Electrical and Electronics Engineering** organized a Workshop on '**From Idea to Impact: Inspiring Motivation in Startup Ventures and Ethical Steps**' for First year EEE students on 27.05.2024.

Resource Person: Mr. M. Shibi Chakaravarthy, Technical Head, Murugu Electrical Integrators, Coimbatore.

Session Highlights:

- Startup ideas and Lifelong learning.
- Steps to improve leadership quantities.
- Different Business model and Marketing strategies.
- Ethical Startup and social impact.
- Motivation to start startup ventures.
- Activities to enhance the focus and to achieve the business goals.

MECH | IIC WORKSHOP ON ENTREPRENEURSHIP AND INNOVATION AS CAREER OPPORTUNITY



IIC of SKCET organized a Workshop on “**Entrepreneurship and Innovation as Career Opportunity**” on 27.05.2024. **Mr.Roopan Sanjeev Raju**, Business Development Manager, TVS Training and Services Limited, Chennai was the Resource Person.



TUTOR WARD MEETING



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MCT | TUTOR WARD MEETING



Mrs.S.Nithyapriya, Dr.S.Dinesh, Dr.R.Manikandan, Mrs.S.Kannaki and Mrs.R.Priyadharshini, Assistant Professors of MCT have conducted Tutor Ward Meeting for the Second year MCT students on 27.05.2024.

Pointers of Discussion:

- Submission deadlines for internal components in all subjects.
- Completion of the ICT Skillathon course.
- Finalizing the online placement portal test.
- Preparedness for the CIA 2 exams.
- Reminder for students to consistently wear their ID cards on campus.
- Awareness raised among students about the drug menace and its serious consequences.

MCT | TUTOR WARD MEETING



Dr. M. Bhuvaneshwari, Assistant Professor of **MCT** conducted Tutor ward meeting for First year MCT B on 27.5.2023.

Pointers of Discussion:

- Submission deadlines for internal components in all subjects.
- Completion of the ICT Skillathon course.
- Finalizing the online placement portal test.
- Preparedness for the CIA 2 exams.
- Reminder for students to consistently wear their ID cards on campus.



PLACEMENT AND TRAINING



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EEE | PLACEMENT TESTIMONIALS

I am **Divya Dhanya K.** I am delighted to share my enriching experience as a student of the **Electrical and Electronics Engineering** programme at SKCET. Throughout my journey, SKCET has not only provided an exceptional academic foundation but also fostered an environment conducive to holistic growth. The opportunities presented at SKCET, be it through engaging research projects or insightful internships, have significantly contributed to my academic and personal development. SKCET's emphasis on both extracurricular activities and academics has equipped me with a diverse skill set essential for thriving in the professional world.

SKCET's focus on nurturing technical proficiency, leadership acumen and effective communication skills has been pivotal in shaping my career trajectory. It is due to these honed abilities that I have been fortunate to receive offers from industry leaders like **Schwing Stetter and Capgemini.**

I extend my sincere gratitude to the placement cell for their unwavering support and guidance throughout the placement process. I am thankful to the faculty members whose dedication has been instrumental in my growth and success. As I embark on this new chapter of my career, I carry with me the invaluable lessons and experiences gained at SKCET. I am deeply appreciative of the opportunities provided and the encouraging learning environment fostered by SKCET.

Divya Dhanya K
EEE (2024 Batch)
SCHWING STETTER
AND CAPGEMINI



PLACEMENT TESTIMONIALS

I am overjoyed to pen down my heartfelt gratitude towards our placement cell and department for the exceptional support and guidance provided throughout my placement journey. The entire experience has been transformative and I owe my successful placement to the dedicated efforts of the college and incredible placement cell. The college's strong network with top companies opened doors to numerous opportunities. I am thrilled to share that I have secured a position at AppViewX. This opportunity would have remained a dream without the relentless efforts of our placement cell. Reflecting on my time at college, I am filled with immense gratitude and pride. The college has equipped me with the knowledge, skills and confidence to embark on my professional journey. I would also like to acknowledge the collaborative environment and the culture of mutual support and motivation. They were key factors in my success. Thanking everyone for the unwavering support and for being a cornerstone in my journey towards achieving my career goals.

HARINIE K
IT (2024 Batch)
APPVIEWX



PLACEMENT TESTIMONIALS

My time at SKCET has been incredibly awesome and wonderful. It's a fantastic location that has assisted me in expanding my theoretical and practical expertise. My technical, managerial and communication abilities have greatly improved as a result of the numerous workshops, guest lectures, symposiums, events, and many other things that have assisted me. These skills are essential for a successful job in the future. I want to express my gratitude to the management for providing us with the inspiration and moral support to take part in a variety of National events. In addition, I want to express my gratitude to the Placement Cell for helping me along the way and giving me a solid professional platform, both of which enabled me to get hired by BOSCH Ltd. I am grateful to SKCET Management, Principal, Faculty and the entire SKCET family for my amazing four years.

**DHEERAJ A,
MCT (2024 Batch)
BOSCH LTD**





RESEARCH AND DEVELOPMENT



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R&D | PAPER PUBLICATION | ECE

Survey of Livestock Monitoring and Management System Using a Machine Learning Algorithm

M. Mahaboob^{1(a)}, B. Anish Fathima^{2(b)}

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Abstract. Health of Livestock is one of the growing concerns in today's world due to the increased population and the increased need for Dairy products. So, a regular checkup is required to improve the cattle's life duration and be kept in good health. Many dairies and farms have many farm animals, making it tough to care for them and routinely monitor the health of dairy cattle. The livestock health monitoring system aims to monitor each cattle's health. In this system, we use the Internet of Things and machine learning to observe the aspects of cattle's physical characteristics like temperature, heart rate, etc. In this paper, we have discussed the existing approaches to monitoring cattle's health and location tracking. Finally, a method has been discussed to improve the efficiency of the process.

Keywords—Internet of Things (IoT), Machine learning, livestock health monitoring system, location tracking

INTRODUCTION

Livestock has a significant impact on the economy of India. Most of the people in India depend on livestock for their daily life. Livestock is vital for small families that do farming work since livestock is essential in producing income for agriculture dependent families. In rural areas such as villages, the main occupation would be agriculture, in which livestock plays a vital role in their daily income. In India resource of livestock is large. Nowadays, many farmers are learning to take care of livestock as they are facing many problems in taking care of the cattle as they don't know how to take care of the cattle and don't know to check their health. The significant contribution of this paper is to understand the better technology used in existing works on monitoring the health and location of livestock. To determine how implementing machine learning with other technology can improve the monitoring of the health of livestock.

There are some parameters or factors that affect the health of the cattle they are,
A. Physiological Factors
B. Other Factors

A. Physiological Factors:
Body temperature: The body of the animal can work adequately only at a particular temperature. It plays a significant role in maintaining the health of the body. The average temperature of the cattle, especially cows, is 32 degrees Celsius to 42 degrees Celsius. When the temperature of the cattle falls below 32 degrees, then there is a possibility that the cattle will suffer from indigestion and milk fever. If the temperature rises above 42 degrees, it will suffer from influenza or even cause death.

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AIP Conf. Proc. 2013, 020002, 1-020002, <https://doi.org/10.1063/1.3602733>
Published by AIP Publishing, 978-0-7354-4870-9/2020/1-020002-1

Ms.B.Anish Fathima, Assistant Professor, Department of ECE has presented and published her conference paper titled “Survey of livestock monitoring and management system using a machine learning algorithm” in the 3rd International Conference on Industrial Electronics, Mechatronics, Electrical and Mechanical Power (IEMPOWER). It is a Scopus Indexed Conference.

R&D | BOOK PUBLICATION | M.TECH CSE

Mr.J.Senthil, Assistant Professor, Department of M.Tech CSE has successfully published a book titled “Artificial Intelligence and Machine Learning” - Principles and Applications”, in SAN International publications with ISBN Number:978-81-9734-289-9 published on 25/05/2024.

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING
PRINCIPLES AND APPLICATIONS

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING
PRINCIPLES AND APPLICATIONS

Dr. R. Senthil Kumar, B.E., M.E., PhD is Working as an Associate Professor in Department Computer Science and Engineering at Sri Krishna College of Engineering and Technology, Erode Tamilnadu, India. He has 10 years experience in Teaching and 5 Years experience in Research & Development. He is very much interested in Cloud Computing, Data Science & Machine Learning. He authored several research papers and chapters in reputed International Journals and presented research papers at International Conferences under various domains. He acted as reviewer cum Board member in various reputed International Journals. He received awards from different Research academy & his professional society membership's in his field. He has been guiding the students in their research projects.

Dr. S. Gokulraj, B.E., M.E., PhD is Working as an Associate Professor in Department Computer Science and Engineering at Vadar College of Engineering and Technology, Erode Tamilnadu, India. He Completed BE (CSE) in 2005 and M.E (CSE) in 2010. He Awarded Ph.D. from Anna University, Chennai in 2021. He Published papers in 20 International Journals & Presented around 15 papers in National and International Conferences. He delivered around 15 lectures in Data Structures, Blockchain Technology, Big Data Analytics, Machine Learning, Deep Learning etc. in reputed institutions. He Received a grant from AICTE, K.J. Somaiya IITCE sponsored Training and Learning Faculty Development Program on Augmented Reality (AR)/Virtual Reality (VR) for Rs. 53000. He published the patent in the relevant areas.

Mr. J. Senthil, B.Tech., M.E. is working as an Assistant Professor of M.Tech Computer Science and Engineering at Sri Krishna College of Engineering and Technology, Coimbatore, Tamilnadu, India. He received Master Degree in Computer Science and Engineering from Anna University in the year of 2012. He has More than 15 years of experience as Assistant and 5 years of Industrial Experience. He had published more than 10 Papers in National, International Journals & Conferences. He is interested in Internet of Things & Machine Learning.

Mrs. M. Sumandini, B.E., M.E. is Working as an Assistant Professor in Department of Electronics and Communication Engineering at Sri Krishna College of Engineering and Technology, Erode Tamilnadu, India. She Completed B.E in Anna University, Trichy and M.E in VJSS at Anna University Coimbatore. She published research papers in reputed International peer review journal and presented various international conferences. She published book chapters and patent in artificial intelligence field, her area of interest in the field of communications systems and VLSI Design.

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R & D | BOOK PUBLICATION | M.TECH CSE

Ms. Ram K Shivany, Assistant Professor, Department of **M.Tech CSE** and Engineering has successfully published a book titled **“Data Science”**, in SAN International publications published on 25/05/2024.

DATA SCIENCE

DATA SCIENCE

Dr. R. SenthilKumar, B.E., M.E., Ph.D., is working as an Associate Professor in Department Computer Science and Engineering at Shree Venkateshwara Hi-Tech Engineering College, Golu, Tamil Nadu, India. He has 18 years experience in teaching and 5 years experience in Research & Development. He is very much interested in Cloud Computing, Data Science & Machine Learning. He authored several research papers and Chapters in reputed International Journals and presented research papers International Conferences under various domains. He acted as reviewer cum chair member in various reputed international journals. He received awards from different Research academy & has professional society membership in his field. He has been guiding the students in their research projects.

Mrs. Ram K Shivany, B.E., M.E., is working as an Assistant Professor M.Tech Computer Science and Engineering at Sri Krishna College of Engineering and Technology, Coimbatore, Tamil Nadu, India. She received her B.E. Computer Science and Engineering in the year of 2010 and M.E. Computer Science and Engineering in the year of 2020. She has more than 4 years experience in Academic. She is very much interested in Data Science & Machine Learning. She published many papers in International peer review journals.

Mr. K. Narayanan, B.E., M.E., Ph.D. is presently working as an Assistant Professor, Department of Computer Science and Engineering, Government College of Engineering Erode, Tamil Nadu, India. He has received B.E. in Computer Science and Engineering from University of Madras, Chennai, Tamil Nadu, India, in 1988. M.E. in Computer Science and Engineering from Anna University, Chennai, Tamil Nadu, India, in 2004 and Ph.D. A from University of Madras, Chennai, Tamil Nadu, India in 2018. His research interests include image processing and pattern recognition.

Ms. K. Indhumathi, B.E., M.E., is currently working as an Assistant Professor, Department of Computer Science and Engineering in Shree Venkateshwara Hi-Tech Engineering College, Golu, Tamil Nadu, India. She received the M.E.(CSE) degree from Shree Venkateshwara Hi-Tech under Anna University Chennai, Tamil Nadu, India in 2020 and secured university rank. She has attended the 13 National & International Conferences. Her area of interest include Machine Learning and Big data analysis.

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- Mrs. Ram K Shivany
- Mr. K. Narayanan
- Ms. K. Indhumathi

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R & D | BOOK PUBLICATION | EEE

Diabetes is one of the chronic disease, which paves way for many uninvited diseases. It is our duty to keep track of our glucose level in blood every time. In recent days many invasive methods are practiced for glucose measurement. Those invasive methods are not enjoyable. They include pricking of finger for blood and usage of strips every time which is not cost efficient. Objectives of this project is to develop a non-invasive glucometer with simple design and less cost. This glucometer has a setup with IR LED and Phototransistor to measure the glucose level through light intensity. The output is passed to Arduino (AT mega 328P MCU). Voltage divider is calibrated to give blood glucose level as output. The intensity to be measured is of low voltage, which is then amplified. The amplified voltage is fed to a filter circuit and given to the microcontroller. Glucose level is displayed using and LCD display. Accuracy is increased by machine learning technique using MATLAB.

Mahalakshmi Gunasekaran

Non-Invasive Technology for Blood Glucose Monitoring Device

GlucoseSense: The Future of Blood Sugar Monitoring

G. Mahalakshmi working as Assistant Professor at Sri Krishna College of Engineering and Technology, Coimbatore.

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LAMBERT Academic Publishing

Ms. G. Mahalakshmi, Assistant Professor, **EEE** Department has published a book chapter entitled on **“Non-Invasive Technology for Blood Glucose Monitoring Device”** by LAMBERT Academic Publishing **ISBN: 978-620-7-64960-0.**

EEE | INTERNATIONAL RESEARCH FELLOWSHIP

INTI
International University

YOUR FUTURE BUILT TODAY

14 May 2024

Assoc. Prof. Dr. P. Vinoth Kumar

Dear Assoc. Prof. Dr. P. Vinoth Kumar,

LETTER OF RESEARCH FELLOW

On behalf of INTI International University, we would like to extend this invitation to you as our Research Fellow from **14 May 2024 to 31 December 2025**. The aim of our research fellowship program is to enable researchers to pursue excellence in producing quality research outputs in their respective fields and to further enhance our research activities and standards.

As our Research Fellow, you can expect research funding for your projects in collaboration with our colleagues and financial support for research output disseminations and/or publications as well opportunities to supervise our postgraduate research activities. You will also be provided access to facilities of the University throughout your tenure.

Besides, there will be a faculty host working with you as you engage in our university activities such as involvement in research cluster of your interest, participation and organization of research symposium and academic conferences, provision of research consultancy services, development, and review of academic or research programs, delivery of guest lectures, etc.

We believe that you will have a productive and rewarding experience with us and that our university community will gain from the fellowship.

We look forward to welcoming you to INTI International University soon.

Yours sincerely,
(For and on behalf of INTI INTERNATIONAL UNIVERSITY)

Joseph Lee, PhD
Joseph Lee, PhD
Vice - Chancellor

Our Ref: IIU/HR/JL/NHZ/14711/24

PRIVATE & CONFIDENTIAL

Dr. P. Vinoth Kumar, Associate Professor, Department of **EEE**, has been chosen as a **Research Fellow** at **INTI International University, Malaysia** from May 2024 to December 2025. He has successfully passed the University Syndicate through evaluation phases and was approved by the University Vice Chancellor.

As a Research Fellow, he will receive funding for collaborative projects with INTI and financial support for his research. He will also have the opportunity to supervise postgraduate research activities, participate and organize academic conferences, and review academic and research programs.

R & D | PAPER PUBLICATION | ECE

AIP Publishing AIP Conference Proceedings

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Volume 2853, Issue 1
7 May 2024

RESEARCH ARTICLE | MAY 07 2024

Performance analysis of 6G terahertz antenna design using micro strip patch feed

N. M. Mothesvar, V. Nandalal

Check for updates

Author & Article Information
AIP Conf. Proc. 2853, 020271 (2024)
<https://doi.org/10.1063/1.5199388>

Share Tools

In recent years, more electric antennas and optical switches have been developed for a variety of applications. Graphene material serves as a substrate material for basic permittivity system design. The antenna acts as the electronic ear and eye of the world. They are our connection to the universe. With the rapid growth of wireless communication systems, future technologies require antennas with decisive and best applications. Antennas play an important role in the field of wireless applications. Performance and benefits of microstrip antennas, including features such as light weight, thinness, and low cost, make it an ideal choice for communication system engineers. It can be combined with microwave circuits, making it ideal for applications such as cellular devices. Patches and feeds are designed and the results are compared to single-patch and multi-patch antennas obtained from insert feeds from edge feed design and analysis, optimal for good bandwidth and reflection attenuation. The design method is determined. The feed is designed to work in 0.3-3 THz 6G applications, depending on the position of the feed, such as electric and magnetic field strength, polarization, immobility and polar plots, gain plots, reflection attenuation ANSYS HFSS software, etc. Various electric field strengths are detected.

INTERNATIONAL CONFERENCE ON ADVANCEMENT IN DESIGN, DEVELOPMENT, ENGINEERING, PROCESSING, AND CHARACTERIZATION: ADDEPC 2021
1-2 December 2021
Virtual Conference

Dr. V. Nandalal, Professor, Department of **ECE** presented and published his conference paper **“Performance analysis of 6G terahertz antenna design using micro strip patch feed”** in the International Conference on Advancement in Design, Development, Engineering, Processing, and Characterization. It is a Scopus Indexed Conference.

R&D | JOURNAL PUBLICATION | MECH

Dr. R. Soundararajan, Associate Professor, **MECH**, has published a research article titled **“Mechanical, wear, fatigue, and water absorption behavior of epoxy biocomposite toughened using marine waste Sepioteuthis sepioidea pen chitosan biopolymer and pineapple plain-weaved fiber”**, in Biomass Conversion and Biorefinery Journal with an Impact Factor 4. It is indexed in Scopus and WoS.

Biomass Conversion and Biorefinery
<https://doi.org/10.1007/s13399-024-05762-4>

ORIGINAL ARTICLE



Mechanical, wear, fatigue, and water absorption behavior of epoxy biocomposite toughened using marine waste *Sepioteuthis sepioidea* pen chitosan biopolymer and pineapple plain-weaved fiber

V. Boobesh nathan¹ · R. Soundararajan¹ · B. Sanjay Gandhi² · P. Sathiya³

Received: 17 December 2023 / Revised: 8 May 2024 / Accepted: 14 May 2024
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Abstract

This study investigates the characteristics of epoxy biocomposites strengthened using *Sepioteuthis sepioidea* chitosan biopolymer and reinforced using plain-weaved pineapple fiber mats. Fabricated through the hand layup method, these composites underwent systematic characterization, evaluating their mechanical, wear, fatigue, and water absorption behaviors in compliance with ASTM standards. Among the various composite designs, EP3 (chitosan of 3 vol.%), comprising 30 vol.% pineapple fiber and 2 vol.% chitosan particles, demonstrated superior mechanical strength and fatigue resistance. In terms of mechanical properties, EP3 exhibited a tensile strength of 132 MPa, flexural strength of 191 MPa, compressive strength of 171 MPa, impact energy of 4.27 J, V-notch rail shear of 24 MPa, and plane shear of 81 MPa. Additionally, composite EP3 demonstrated improved fatigue life counts with the applied stress level of 18.4 MPa for 1×10^6 life counts. This indicates that the composites are suitable for repeated load-bearing applications. The incorporation of *Sepioteuthis sepioidea* chitosan biopolymer as a toughening agent in the epoxy matrix enhanced the overall mechanical and fatigue performance, while the pineapple plain-weaved fiber mats acted as reinforcing elements, strengthening structural integrity and strength. Furthermore, a higher chitosan concentration led to improved wear resistance, as evidenced by EP4's (chitosan of 5 vol.%) reduced specific wear rate of 0.009 mm³/Nm and coefficient of friction of 0.22. However, the larger chitosan content also resulted in increased water absorption, with EP4 (chitosan of 3 vol.%) reaching a water absorption percentage of 0.36%. These findings provide valuable insights into the collaborative impact of *Sepioteuthis sepioidea* chitosan biopolymer and pineapple fiber reinforcement on the mechanical, wear, fatigue, and water absorption properties of epoxy biocomposites. These properties improved composites that could be used in making car door inner panels, modular kitchen slabs, temporary partitions, and thermal insulated food storage tanks.



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AI & DS | INNOVATION AMBASSADOR (IA) TRAINING



Mr.G.S.Pugalendhi and Mr.K.Balaji, Assistant Professor, Department of AI & DS has undergone Innovation Ambassador (IA) Training “Foundation Level” and “Advanced Level” conducted by MoE’S Innovation Cell & AICTE during the IIC Calendar Year.

M.TECH CSE | INNOVATION AMBASSADOR (IA) TRAINING



Ms. Ram K Shivany, Assistant Professor, Department of **M.Tech CSE** has successfully participated in Innovation ambassador Advanced Level (IA) Training course conducted by MoE Innovation Cell and AICTE on 19.5.2024.

AI & DS | INFOSYS CERTIFICATION



Dr.D.Rasi and Ms.Pooranam N, faculty members of **CSE** Department have successfully completed the course “**Java Tools**” offered by Infosys Springboard Certification course on May 20,2024.

IT | FDP ON GENERATIVE AI MODELS & APPLICATION OF ML



Ms.R.Janani, Assistant Professor, IT has participated in the FDP on **Generative AI Models and Application of Machine Learning** from 21-05-2024 to 25-05-2024 organized by the Department of Computer Science and Engineering at Shri Vishnu Engineering college for Women, Bhimavaram, Andhra Pradesh.

IT | INFOSYS CERTIFICATION



Mr.S.Shiva Shankar, Assistant Professor, IT has successfully completed the course on **Linux for Beginners** on May 24,2024 certified by Infosys Springboard.



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ECE | WORLD NO TOBACCO DAY



World No Tobacco Day, observed annually on May 31st, stands as a global reminder of the urgent need to address one of the most pressing public health challenges of our time: tobacco use. This day serves as a beacon of awareness, rallying individuals, communities and governments worldwide to confront the devastating toll inflicted by tobacco on health, society and economies. As we unite to mark World No Tobacco Day, let us reaffirm our commitment to promoting a tobacco-free future and safeguarding the well-being of current and future generations.

World No Tobacco Day: Addressing Health, Advocacy, and Societal impact:

- ✓ **Health Preservation:** World No Tobacco Day underscores the critical importance of preserving public health by raising awareness about the harmful effects of tobacco use, which can lead to various diseases such as cancer, heart disease and respiratory disorders.
- ✓ **Disease Prevention:** By advocating for tobacco cessation and prevention, this day plays a vital role in preventing tobacco-related diseases and reducing the burden on healthcare systems worldwide.
- ✓ **Tobacco Control Advocacy:** World No Tobacco Day serves as a platform for advocating for effective tobacco control policies and measures, including tobacco taxation, smoke-free environments, and bans on tobacco advertising, promotion, and sponsorship.
- ✓ **Social Impact:** Beyond individual health, this day highlights the social impact of tobacco use, including its adverse effects on families, communities, and societies, such as increased poverty, social inequalities, and environmental degradation.

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