தொட்டனைத்து ஊறும் மணற்கேணி மாந்தர்க்குக் கற்றனைத்து ஊறும் அறிவு. -திருக்குறள், 396, பொருட்பால் - கல்வி



As deep you dig the sand spring flows
As deep you learn the knowledge grows.
-Yogi Shuddhananda's Translation

RAJALAKSHMI ENGINEERING COLLEGE (AUTONOMOUS) DEPARTMENT OF HUMANITIES AND SCIENCES

January - March, 2020

NEWSLETTER

Volume 01 Issue 03

VISION

To become a Department of Excellence in Mathematical education, Physical Sciences and Research and Development

And

Setting the standards of Excellence in Communication skills and preparing the learners to meet the challenging trends in the professional career.

MISSION

The Department is Committed

- To impart high quality education in Applied Mathematics and Physical Sciences at various levels of programmes in engineering and technology.
- To build confidence in engineering students in using mathematical and scientific tools for designing industrial products and systems in a better, faster and effective way.
- To improve the Communication Skills of engineering students and make them suitable for employment.

EDITOR'S MESSAGE

Greetings,

I hope this **third issue** of our Department's Newsletter, *HumSci 360*°, finds you in good health and state. The *COVID-19 pandemic* has shaken up our routines and schedules, however it has also forced us to seek and embrace newer technologies and modes of communications to carry out our duties and tasks even from home amidst strict lockdown restrictions. We have to upgrade and equip ourselves to not just cope with it, but to exceed and far excel in our fields through these redefined modes of teaching and communication.

In this regard, I am very much pleased to place on record that our faculty members are doing an excellent job in continuing with their teaching processes through online mode, without any dip in quality, with the limited equipment and technology available to them. I am also glad about the numerous research and academic activities being taken up by our faculty members as evidenced in the pages of this issue.

Let us all move forward with a strong spirit and hope that things will turn out to be better and keep doing our duties despite the hardships thrown at us by the nature, ever true to the praise 'the noble profession'.

Dr. M. Muthusamy Professor & Head of the Department

PROGRAMS CONDUCTED

The Faculty of Physics organized a **Two-day Workshop** on "X-Ray Diffraction Data Analysis" from 21.02.2020 to 22.02.2020 in the Heritage Hall, Academic Science Block.

Eminent personalities such as **Dr. C. Venkateswaran**, Professor and Head, Department of Nuclear Physics, University of Madras, Chennai, **Dr. V. Anbarasu**, Associate Professor, Department of Physics, PSG College of Arts and Science, Coimbatore, **Dr. P. K. Sudhadevi Antharjanam**, Technical officer, SAIF, IIT Madras, Chennai, and **Dr. K. Saravanakumar**, Assistant Professor, Department of Physics, Sri Ramasamy Naidu Memorial College, Sattur, acted as resource persons and delivered key note lectures and hands-on training on various thrust area topics in materials science and analytical instrumentation fields.



Department of Humanities and Sciences

Rajalakshmi Engineering College (Autonomous)

A guest lecture was organized on the topic "Nanotechnology for Biotechnologists", on 25.02.2020, in Heritage Hall, to help the students of Biotechnology to attain additional knowledge in the emerging topic of nanotechnology.

Dr. D. Vasudevan, Principal Scientist, CSIR – Centre for Electro-chemical Research Institute (CECRI), Karaikudi, acted as resource person and expounded on nanoscale materials, sciences and technologies to the students.

AWARDS, HONOURS, AND ACHIEVEMENTS

- Dr. V. Lakshmi **chaired a technical session** in the National Conference on "Advances in Science, Humanities and Technology (NCASHT-2020)" from 12.03.2020 to 13.03.2020 at Saveetha School of Engineering (SIMATS).
- Dr. P. Ragukumar **delivered an Invited Talk** on "Introduction to NP-Complete problems" in the International Workshop on "Discrete Mathematics and Theoretical Computer Science" on 05.03.2020 at Sri Venkateswara College of Engineering, Sriperumbudur.
- The paper titled "Influence of Citric acid and Tartaric acids on Nano Duplex Coatings on 316L SS in Artificial Saliva", presented in the International Conference on "Heat Treatment & Surface Engineering 6th ACHTSE-2020" from 05.03.2020 to 07.03.2020 at Chennai Trade Center, by Dr. S. Mohandoss was selected as the **Best Paper**.
- The paper titled "Graphene Nanocomposites for Supercapacitors Application", presented in the National Conference on "Advances in Science, Humanities and Technology (NCASHT-2020)" from 12.03.2020 to 13.03.2020 at Saveetha School of Engineering (SIMATS), by Mr. M. Infant Shyam Kumar was selected as the **Best Paper**.

FACULTY PUBLICATIONS

- Dr.S.Sureshkumar published a paper titled "Incorporation of Hydrophobic Nanochitosan Improves Wear Resistance of Dental Sealants" In The Journal "International Journal of Polymeric Materials and Polymeric Biomaterials."
- Dr.L.Renuka published a paper titled "MnFe2O4/ZrO2 Nanocomposite as an Efficient Magnetically Separable Photocatalyst with Good Response to Sunlight: Preparation, Characterization and Catalytic Mechanism" in the journal "SN Applied Science", Vol. 2.
- Dr.R.Manonmani published a paper titled "Sintering Temperature Effects on Nano Triphasic Bioceramic Composite Coated 316l Ss for Corrosion Resistance, Adhesion Strength, and Cell Proliferation on Implants" in the journal "Journal of Materials Research", Vol. 35, Issue 6.
- Mr. S.Vadivel published a paper titled "Learning Approaches A Paradigm Shift in Learner's Perspective" in the journal "IJRAR International Journal of Research and Analytical Reviews", Vol. 7, Issue 1.

- Mrs. Andria Babu published a paper titled "Patriarchy's Unlikely Victims: Men as Unconscious Victims of Patriarchal Society in 'That Long Silence' by Shashi Deshpande" in the journal "IJCHSSR International Journal of Current Humanities and Social Science Researches", Vol. 4, Issue 1.
- Dr. D. Udhayakumari published a paper titled "Detection of Toxic Fluoride Ion via Chromogenic and Fluorogenic sensing A Comprehensive Review of the Year 2015–2019" in the journal "Spectrochimica

PAPER PRESENTED

- Mrs. K. Seethalakshmi participated and presented a paper titled "Fabrication of PCL/β-TCP Based Nanoscaffolds Using Electrospinning for Biomedical Applications" in the International Conference on "Advances in Chemistry ICACSEM-2020" from 09.01.2020 to 10.01.2020 at Madras University, Chennai.
- Dr. L. Renuka participated and presented a paper titled "ZrO2/ZnFe2O4 Porous Network Ceramic Nanocomposite for Photocatalytic Water Purification: Synergetic Catalytic Effect and Elucidation of Photo-Mechanism" in the International Conference on "Advances in Materials, Ceramics & Engineering Sciences (AMCES 2020)" from 17.01.2020 to 18.01.2020 at Dayananda Sagar College of Engineering, Bengaluru.
- Dr. R. Manonmani participated and presented a paper titled "Enhancing Corrosion Resistance and Cells Proliferation with Osteocompatible Nano Triphasic Bioceramics Coatings" in the International Conference on "Heat Treatment & Surface Engineering 6th ACHTSE-2020" from 05.03.2020 to 07.03.2020 at Chennai Trade Center.
- Dr. S. Mohandoss participated and presented a paper titled "Influence of Citric acid and Tartaric acids on Nano Duplex Coatings on 316L SS in Artificial Saliva" in the International Conference on "Heat Treatment & Surface Engineering 6th ACHTSE-2020" from 05.03.2020 to 07.03.2020 at Chennai Trade Center.
- Dr. P. Vasudevan participated and presented a paper titled "Biological Activity of DL-Methioninium Maleate Single Crystals" in the National Conference on "Functional Materials and Its Applicational Aspects (NCFMAA-2020)" from 05.03.2020 to 06.03.2020 at Saveetha School of Engineering (SIMATS).
- Mr. M. Infant Shyam Kumar participated and presented a paper titled "Graphene Nanocomposites for Supercapacitors Application" in the National Conference on "Advances in Science, Humanities and Technology (NCASHT-2020)" from 12.03.2020 to 13.03.2020 at Saveetha School of Engineering (SIMATS).
- Mrs. P.Helen Vijitha participated and presented a paper titled "Closure Properties of Oxide Tiling System" in the National Conference on "Advances in Science, Humanities and Technology (NCASHT-2020)" from 12.03.2020 to 13.03.2020 at Saveetha School of Engineering (SIMATS).

• Mrs. S. Jasmine Francis participated and presented a paper titled "UV-A and UV-B Banning Highly Soluble Photocrosslinkable Thermotropic Liquid Crystalline Copolyesters with Ether Linkage in the Backbone" in the National Conference on "Advances in Science, Humanities and Technology (NCASHT-2020)" from 12.03.2020 to 13.03.2020 at Saveetha School of Engineering (SIMATS).

CONFERENCES / PROGRAMS / WORKSHOPS ATTENDED

- Dr. P. Vasudevan participated in the International Conference on "Advances in Chemistry with Specific Reference to Catalysis, Sensors, Drug Delivery and Energy Materials" from 09.01.2020 to 10.01.2020 at University of Madras, Guidy Campus.
- Dr. P. Duvaraganathan and Dr. K. Thomas Alwa Edison participated in the Workshop on "Introduction to International Journal Publication" on 31.01.2020 at Thiruvalluvar University, Vellore.
- Mrs. N. Sudha participated in the Conference on "Deutschlehrertagung: Sudindien und Sri Lanka 2020" from 01.02.2020 to 03.02.2020 at ITC Chola Sheraton Chennai.
- Mr. K. Vijayanarasimhan participated in the Management Development Program on "Understanding Indian Economy" from 03.02.2020 to 08.02.2020 at SASTRA University, Chennai Campus.
- Dr. J. Venkatesan participated in the National Workshop on "Stochastic Processes and Applications" on 08.02.2020 at SSN College of Engineering, Kalavakkam, Chennai.
- Mrs. Andria Babu participated in the Workshop on "Web- based Tools for Designing and Developing Teaching Materials" on 15.02.2020 at Anna University, Chennai.
- Dr. A. Velankanni and Dr. J.Julie participated in the International Conference on "Mathematical Computer Engineering" from 21.02.2020 to 22.02.2020 at VIT, Chennai.
- Mr. Hastin Fernandez and Mrs. B. S. Renuka participated in the Workshop on "Resistance in Literature, Theory and Performance" on 22.02.2020 at Women's Christian College, Chennai.
- Mr. V.Inbaraj and Mrs. GeethaChandrasekran participated in the Workshop on "Interpretation of Gas Chromatography- WINGC-2020" from 27.02.2020 to 29.02.2020 at Sathyabama Institute of Science and technology.
- Dr. Rubarani P. Gangadharan, Dr. P. Ramadevi, Mr. M. Sankar Kumar, and Mr. S.Mohan participated in the National Conference on "Impact of E-waste on Environment and Mitigation Measures for Climate Changes" on 29.02.2020 at Loganatha Narayanasamy Govt. College, Ponneri, chennai.
- Mr. G. Anumanthakannan and Dr. G. Saravana Kumar participated in the National Conference on "Functional Materials and Its Applicational Aspects (NCFMAA-2020)" from 05.03.2020 to 06.03.2020 at Saveetha School of Engineering (SIMATS).

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- Mr. V.Gopalakrishnan, Mrs. S. Janaki, and Mrs. V. Shakila participated in the National Conference on "Advances in Science, Humanities and Technology" from 12.03.2020 to 13.03.2020 at Saveetha Engineering College, Chennai.
- Mrs. R. Krithika, Mrs. R. Hema, and Mrs. K.Uma participated in the National Conference on "Recent Trends in Mathematics and Its Applications 2020" on 13.03.2020 at SRM IST, Vadapalani Campus, Chennai.

"We are what our thoughts have made us; so take care about what you think. Words are secondary. Thoughts live; they travel far."

-Swami Vivekanandar



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