

'கைப்பொருள் தன்னின் மெய்ப்பொருள் கல்வி'  
-கொன்றை வேந்தன், ஓளவையார்.



'Education is the true wealth,  
better than material wealth'  
-Konrai Venthan, Avvaiyar

**RAJALAKSHMI ENGINEERING COLLEGE (AUTONOMOUS)**

**DEPARTMENT OF HUMANITIES AND SCIENCES**

# Hum Sci 360<sup>0</sup>

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**NEWSLETTER**

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## **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 trust this issue of our Department's newsletter, HumSci 360°, finds you in good vigour.

We are once again forced to switch to online teaching mode due to the second wave of the pandemic. It shows that our precautions and safety protocols should be more intensive. I wish to insist the same to everyone. Our faculty members are now equipped well, in both skills and tools, to continue their teaching and other academic and research related activities without any compromise on quality. I therefore am very much pleased to express my appreciations to them.

We are always grateful to the Management and the Principal for their constant motivation and support which helps us to reach our fullest potential.

**Dr. M. Muthusamy**  
Professor & Head of the Department

## FACULTY PUBLICATIONS

- Dr. S. Mohandoss, Dr. S. Sureshkumar, and Mrs. L. Renuka published a paper titled "A Detailed Study on Electrochemical Performance and Cell Viability of Nano-YSZ-coated 316L SS Sample for Dental Applications" in the International journal "Journal of Materials Research", Volume 35, Issue 21.
- Dr. G. Saravana Kumar et al. published a paper titled "Development of Organic Crystalline Nature Guanidinium Nitrate (GuN): Structural, Frontier Molecular Orbital, Optical, Thermal, Mechanical, Theoretical and Experimental SHG and Z-scan Properties for NLO Device Uses" in the International journal "Journal of Materials Science : Materials in Electronics", Volume 32, Issue 4.
- Dr. K. Seethalakshmi et al. published a paper titled "Nanohydroxyapatite-doped Polycaprolactone -Based Nanoscaffolds as a Viable Drug Delivery Agent in Bone Tissue Engineering" in the International journal "Journal of Materials Research", Volume 36, Issue 2.
- Dr. R. Manonmani published a paper titled "Novel Nano Triphasic Bioceramic Composite Coating on 316l Ss by Electrophoretic Deposition Process for Enhanced Corrosion Resistance and Cell Proliferation" in the International journal "Journal of the Australian Ceramic Society", Volume 57, Issue 1.
- Dr. S. Sureshkumar et al. published a paper titled "Synthesis and Characterization of Activated Carbon/ ZnO Nanocomposite from Water Hyacinth for Heavy Metal Adsorption and its Antimicrobial Activity" in the International journal "Asian Journal Chemistry", Volume 33, Issue 3.

- Dr. G. Saravana Kumar and Mr. K. Vijayanarasimhan published a paper titled "Quantum Chemical Analysis, Biological Activity and ADME Properties of N,N' - Diphenylguanidinium Hydrogen (+) –L-Tartrate Monohydrate" in the International journal "International Journal of Chemtech Research", Volume 14, Issue 1.

## PAPER PRESENTED

- Dr. P. Ragukumar participated and presented a paper titled "Generation of Anti-magic Graphs from Binary Graph Products" in the "International Conference on Mathematical Modelling and Computational Intelligence Techniques (ICMMCIT-2021)" from 10.02.2021 to 12.02.2021, organized by Hybrid - Gandhigram Rural University and sponsored by CSIR, DST-SERB.
- Dr. P. Ragukumar, Mrs. R. Nathiya, Mrs. C. Renuga, and Mr. R. Siluvai Dasan participated and presented a paper titled "Edge Irregularity Strength of Binomial Trees" in the "International Conference on Mathematical Modelling and Computational Intelligence Techniques (ICMMCIT-2021)" from 10.02.2021 to 12.02.2021, organized by Hybrid - Gandhigram Rural University and sponsored by CSIR, DST-SERB.
- Mr. M. Anand Raj participated and presented a paper titled "Electrochemical Impedance Spectroscopy Study to Identify the Electrode Kinetics of NiCoCu Alloy Prepared by Pulsed Electrodeposition Method" in the "6th International Conference on Nanoscience and Nanotechnology" on February 01.03.2021, organized by SRM Institute of Science and Technology.

## CONFERENCE SESSION CHAIRED

- Dr. B. Sivakumar acted as a Session Chair in the "International Conference on Applied Mathematics & Civil Structures (ICAMCS 2021)" organized by the Department of Mathematics and Department of Civil Engineering, Sri Sivasubramaniya Nadar College of Engineering conducted during 12.02.2021 to 13.02.2021.

## STUDENTS ACHIEVEMENTS

- Mr. Joshua David, Mr. M. Sidharthan, and Mr. M. Tharun, students from I year B.E. Computer Science and Engineering, have participated in the event Top Coders 21 organized by E-Box Colleges in association with Virtusa and TIE, and have won the I place with a cash award of Rs. 6000.

## ARTICLE: *PROFESSION AND PROFESSIONALS*

*‘Teachers of higher education institutions are regarded as professionals’.* They have a special obligation in their minds towards the well-being of this society. The faculty members should contemplate what the society anticipates from them as professionals. Every faculty member has to internalize what makes their profession distinctive compared to other occupations.

Bayles (1989) explicates the term **‘profession’** as *‘those forms of work, which involves advanced expertise, self-regulation and concerted service to the public welfare’.*

From this explication it is obvious that:

- i. Professionals deal with vast and complex knowledge
- ii. Professionals continue to create new knowledge in their profession
- iii. Professionals deal with high-stake activities
- iv. Professionals work based on trust with clients
- v. Professionals are self-regulating

In case you need to decide whether your occupation may be termed as a profession or not, you must check the nearness of these five fundamental characteristics. Indeed, on the off chance that one of the five characteristics is lost, at that point the occupation cannot be named as a profession. The culmination of this recommendation is that, in case the so-called *‘professionals’* do not observe these five characteristics in their profession, they no more stay as genuine professionals.

*‘A faculty member of an higher education institute should make efforts to create new knowledge in his/her field of specialization (by reading journals/attending conferences and so on) and contribute to the creation of new knowledge by engaging in research or guiding student’s research, teaching, etc...’*

Being a professional, we should constantly try to identify which one of the five fundamental characteristics is missing or diminishing in us and work to address the same.

**Dr. G. Saravana Kumar**  
*Assistant Professor of Physics*

### Reference:

Bayles M.D., *“Professional Ethics”*, Belmont, (Calif.) : Wadsworth, 1989.



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