

ஆர்கலி உலகத்து மக்கட்கு எல்லாம்-
ஓதலின் சிறந்தன்று ஒழுக்கம் உடைமை.
-மதுரைக் கூடலூர் கிழார், முதுமொழிக்காஞ்சி, சிறந்த பத்து.



*For all people, in this ocean-bound world-
Discipline is more important than learning.*
-Madurai Kudalur Kizhar, Muthumozhikkanji

RAJALAKSHMI ENGINEERING COLLEGE (AUTONOMOUS)

DEPARTMENT OF HUMANITIES AND SCIENCES

Hum Sci 360⁰

July - September, 2020

NEWSLETTER

Volume 02 Issue 01

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 issue of our Department's newsletter, HumSci360^o, finds you in good health and state.

It is pleasing to place on record my appreciation to our faculty members who, despite their busy academic schedule, have published a good number of research papers in reputed journals and have participated in numerous programs and events hosted internally and externally. Also, many programs have been conducted at the department level during the last quarterly period. I am sure the number of publications and activities will go up in the days to come.

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

Dr. M. Muthusamy
Professor & Head of the Department

FACULTY PUBLICATIONS

- Dr. P. Ragukumar published a paper titled "Binomial Trees are Graceful" in the journal "AKCE International Journal of Graphs and Combinatorics", Volume 17, Issue 1.
- Mr. K. Senthilkumar published a paper titled " Single Crystal X-ray Diffraction, Spectral Characterization, Evaluation of Electronic and Chemical Reactivity of Tert-Butylammonium N-Acetylglycinate Monohydrate a DFT Study " In The Journal " Journal of Molecular Structure ", Volume 1220, Issue 128764.
- Mr. R. Sakthi published a paper titled "Optimality of State Dependent Single Server Queue with MMPP Input" in the journal "Advances in Mathematics: Scientific Journal", Volume 9, Issue 3.
- Dr. S. Mohandoss published a paper titled "Surface Modification of 316L Stainless Steel Dental Implants by Novel Bioinert Nano Zirconia Coating" in the journal "Trends Biomaterials and Artificial Organs", Volume 34, Issue 3.
- Dr. D. Udhayakumari & Mr. V. Inbaraj published a paper titled "A Review on Schiff Base Fluorescent Chemosensors for Cell Imaging Applications" in the journal "Journal of Fluorescence", Volume 30, Issue 5.
- Dr. V.Lakshmi published a paper titled "Magnetic field and Hall Effects on Flow Past a Parabolic Accelerated Isothermal Vertical Plate with Varying Mass Diffusion in the Presence of Thermal Radiation" in the journal "Journal of Shanghai Jiaotong University", Volume 16, Issue 8.
- Dr. P. Vasudevan, Mr. G. Anumantha Kannan & Mr. M. Sankar Kumar published a paper titled "Studies on Optical Constants and Solid State Parameters of a Semi-Organic Nonlinear Optical Material L-Methinium Nitrate for Optoelectronic Device Fabrication" in the journal "International Journal of Chemtech Research", Volume 13, Issue 3.
- Mr. M. Infant Shyam Kumar published a paper titled "Growth and Characterisation of a Third Order Nonlinear Optical Crystal 4-Dimethylamino Pyridinium p-bromophenolate" in the journal "Journal of Molecular Structure", Volume 1224, Issue 2021.

- Mr. K. Senthilkumar published a paper titled "Structural, Optical and Photo-luminescence Studies on N-acetylglycine Single Crystal" in the journal "Journal of Optoelectronics and Advanced Materials", Volume 22, Issue 7-8.
- Mr. K. Suresh Babu published a paper titled "A Series of ZnCo₂O₄/rGO/Pt Nanocubes with Excellent Photocatalytic Activity Towards Visible Light" in the journal "Chemical Physics Letters", Volume 759, September Issue.
- Mrs. B. S. Renuka published a paper titled "Enhancing the Professional Communication Skills of Engineering Students Through Four (LSRW) Skills" in the journal "GIS SCIENCE JOURNAL - UGC Care Group II Journal", Volume 7, Issue 9.
- Mrs. R. Bhavani published a paper titled "Quantum Chemical Computational Studies of Nitrogen Rich Energetic Organic Crystalline Salt: 2,4-Diamino-6-methyl-1,3,5-triazinium Trifluoroacetate" in the journal "Asian Journal of Chemistry", Volume 32, Issue 10.

PAPER PRESENTED

- Mrs. S. Bhavani participated and presented a paper titled "An Innovative Approach to Categorize the Dependence and Independence of Attributes" in the Online International Conference on "Continuity, Consistency and Innovation in Applied Sciences and Humanities (ICCIASH-2020)" on 13.08.2020, organized by St.Martin's Engineering College, Secunderabad.

AWARDS, HONOURS, AND ACHIEVEMENTS

- Dr. S. Jasmine Francis successfully defended her thesis for the award of Ph.D. degree on 17th February 2020.
- Dr. B. Latha successfully defended her thesis for the award of Ph.D. degree on 27th July 2020.
- Dr. K. Seethalakshmi successfully defended her thesis for the award of Ph.D. degree on 22nd September 2020.

PROGRAMS CONDUCTED

- Dr. M. Muthusamy, Faculty of Mathematics, organised an Expert Webinar on 01.07.2020 through Google Meet; **Dr. T. Venugopal**, Professor of Mathematics, Controller of Examinations, SCSVMV University, Kanchipuram, participated as the resource person and delivered his lecture on the topic "*Basic Graph Theory with GRIN*".
- Dr. S. Jasmine, Faculty of Chemistry, organised an Expert Webinar on 02.07.2020 through Google Meet; **Dr. S. Ananda Kumar**, Associate Professor, Department of Chemistry, Anna University, Chennai, participated as the resource person and delivered his lecture on the topic "*Natural Fibre Reinforced Polymer Composites*".
- Mr. K. Vijayanarasimhan, Faculty of Physics, organised an Expert Webinar on 03.07.2020 through Google Meet; **Dr. D. Uthra**, Associate Professor & Head, D.G. Vaishnav College, Chennai, participated as the resource person and delivered her lecture on the topic "*Science and Technology Innovations for COVID-19 : A Teaching Perspective*".
- Mr. M. Anand Raj, Faculty of Physics, organised an Expert Webinar on 04.07.2020 through Google Meet; **Dr. D. Paul Joseph**, Assistant Professor, Department of Physics, National Institute of Technology, Warangal, Telangana, participated as the resource person and delivered his lecture on the topic "*Proximity Effect In Superconducting-Halffmetallic Multilayers*".
- Mr.R.Sakthi, Faculty of Mathematics, organised an Expert Webinar on 06.07.2020 through Google Meet;

Dr. V. Vidhya, participated as the resource person and delivered her lecture on the topic "*Mathematical Modelling on Infectious Disease*".

• Dr. P. Ragukumar, Faculty of Mathematics, organised an Expert Webinar on 07.07.2020 through Google Meet; **Dr. E. Natarajan**, Associate Professor, Department of Mathematics, IIST, Trivandrum, participated as the resource person and delivered his lecture on the topic "*Apriori Error Estimates In Finite Element Method*".

• Mrs. C. Shanthini, Faculty of Mathematics, organised an Expert Webinar on 08.07.2020 through Google Meet; **Dr. J. Arivukkarasu**, Associate Professor, Department of Mathematics, Vivekanandha College of Technology for Women, Namakkal, participated as the resource person and delivered his lecture on the topic "*Application of Mathematics in Engineering*".

• Mrs. B. S. Renuka, Faculty of English, organised an Expert Webinar on 09.07.2020 through Google Meet; **Dr. P. Vasuki**, Associate Professor & Head, PG & Research, Department of English, Govt. Thirumagal Mills College, participated as the resource person and delivered her lecture on the topic "*Co-operative Learning Strategies*".

• Dr. R. Manonmani, Faculty of Chemistry, organised an Expert Webinar on 10.07.2020 through Google Meet; **Dr. P. Muthumareeswaran**, DST-Inspire Faculty, Department of Industrial Chemistry, Alagappa University, Karaikudi, participated as the resource person and delivered his lecture on the topic "*Conducting Polymer and Photovoltaic device*".

• Mr. G. Sri Hari, Faculty of English, organised an Expert Webinar on 13.07.2020 through Google Meet; **Dr. Shrimathy Venkatalakshmi**, Professor and Head, Department of English, Anna University, Chennai, participated as the resource person and delivered her lecture on the topic "*Teacher Feedback and Learner Development*".

• Mr. Hastin Fernandez, Faculty of English, organised an Expert Webinar on 14.07.2020 through Google Meet; **Dr. S.Vijayakumar**, Assistant Professor, Department of English, Crescent Institute of Science and Technology, participated as the resource person and delivered his lecture on the topic "*Designing an Impactful Research Outline*".

• Mrs. G. Alamelu, Faculty of English, organised an Expert Webinar on 15.07.2020 through Google Meet; **Dr. M. Ilankumaran**, Research Programme Coordinator & Professor of English, Noorul Islam Centre for Higher Education, Kumaracoil, Kanyakumari District, participated as the resource person and delivered his lecture on the topic "*How to be a Scholarly Language Teacher*".

INVITED TALKS

• Dr. V. Vasumathi acted as Resource Person and delivered a lecture titled "*Polymer Matrix Composites I*" in the FDP hosted by Department of Mechanical Engineering, Rajalakshmi Engineering College (Autonomous), from 14.07.2020 to 18.07.2020.

• Dr. S. Mohandoss acted as Resource Person and delivered a lecture titled "*Corrosion*" in the AICTE Sponsored Webinar hosted by Department of Mechanical Engineering, Rajalakshmi Engineering College (Autonomous), on 18.07.2020.

• Dr. V. Vasumathi acted as Resource Person and delivered a lecture titled "*Polymer Matrix Composites II*" in the FDP hosted by Department of Mechanical Engineering, Rajalakshmi Engineering College (Autonomous), from 31.08.2020 to 05.09.2020.

• Mr. M. Anand Raj acted as Resource Person and delivered a lecture titled "*Google Sheet Training Programme for Non-Teaching and Admin staffs of Rajalakshmi Engineering College*" in the Workshop hosted by IQAC, Rajalakshmi Engineering College (Autonomous), from 04.09.2020 to 05.09.2020.

• Dr. S. Mohandoss acted as Resource Person and delivered a lecture titled "*Corrosion*" in the AICTE Sponsored Short Term Training Programme hosted by Department of Mechanical Engineering, Rajalakshmi Engineering College (Autonomous), 04.09.2020.

CONFERENCES / PROGRAMS / WORKSHOPS ATTENDED

- Dr. D. Udhayakumari & Mr. V. Inbaraj participated in the Faculty development program on "Embracing the Creative Side of Teaching and Learning Methods" from 29.06.2020 to 03.07.2020 conducted by R.M.K College of Engineering and Technology Chennai.
- Dr. V. Vasumathi participated in the Faculty development program Digital knowledge series - Skycampus on the theme of "Digital Teacher" from 29.06.2020 to 04.07.2020 conducted by ICT Academy.
- Mr. G. Sri Hari, Mrs. G. Janet & Mr. G. Babu participated in the 5-day Faculty development program on "Teaching, Learning, and Research in Literature and Language" from 01.07.2020 to 05.07.2020 conducted by Government V.Y.T.P.G Autonomous College, Durg.
- Mrs. B. Rajalakshmi participated in the Faculty development program on "Recent Trends in Teaching and Learning Process of English Language" from 02.07.2020 to 04.07.2020 conducted by C. Abdul Hakim College of Engineering and Technology.
- Dr. R. Manonmani participated in the Faculty development programme on "Innovation and Intellectual Property Rights" on 06.07.2020 conducted by A.P.C. Mahalaxmi College for Women.
- Mrs. Geetha Chandrasekran participated in the 6-day Online Faculty development programme on "Nanomaterial Synthesis, Process, Characterisation, and its Functional Applications" from 06.07.2020 to 11.07.2020 conducted by Hindusthan College of Engineering and Technology.
- Mr. K. Suresh Babu participated in the International online Faculty development programme on "Advancement in Applied Chemistry" from 06.07.2020 to 08.07.2020 conducted by Department of Science, St.Joseph's College of Engineering.
- Mrs. B.S. Renuka participated in the Online Faculty development programme on "An Introduction To Literary Theories For Young Brains" from 06.07.2020 to 12.07.2020 conducted by the Department of English, Milagres College, Kallianpur.
- Mr. G. Sri Hari, Mr. B. Lakshmanan, Mrs. B. Rajalakshmi & Mr. G. Babu participated in the 5-Day Online Faculty development programme on "Empowerment as Enrichment: The Language Teacher and the New Order" from 06.07.2020 to 10.07.2020 conducted by Department of English, SRM Institute of Science and Technology, Chennai.
- Dr. R. Manonmani, Mr. K. Suresh Babu & Dr. D. Udhayakumari participated in the Faculty development programme from 07.07.2020 to 09.07.2020 conducted by Department of Chemistry, Kongu Engineering College.
- Mr. K. Suresh Babu, Mr. V. Inbaraj, Mrs. Geetha Chandrasekran & Dr. D. Udhayakumari participated in the Online Faculty development programme on "Recent Advanced Research in Chemistry" from 15.07.2020 to 19.07.2020 conducted by Department of Science and Humanities – Chemistry, C. Abdul Hakeem College of Engineering and Technology.
- Mr. G. Sri Hari participated in the Hands-on Faculty workshop on "Developing Self Guiding Support Materials Using Interactive Web Tools" on 17.07.2020 conducted by Vellore Institute of Technology, Chennai.
- Mrs. C. Shanthini participated in the Faculty development programme on "Mathematical Science" from 18.07.2020 to 24.07.2020 conducted by Vignan's Foundation for Science, Technology & Research.
- Dr. Rubarani P. Gangadharan, Dr. B. Latha & Mrs. S. Bhavani participated in the Faculty development programme on "Advanced Materials for Energy Storage Applications" from 18.07.2020 to 22.07.2020 conducted by Velammal Institute of Technology, Ponneri.

- Mrs. C. Renuga participated in the Faculty development programme on “Applications and Techniques in Mathematics” from 20.07.2020 to 24.07.2020 conducted by Sai Ram Institute of Technology.
- Mrs. R. Kavitha, Mrs. S. Anu, Mrs. S. Janaki & Dr. G. Saravana Kumar participated in the 2-Day Workshop on "Aligning Yourself to the Publishing Process" from 23.07.2020 to 24.07.2020 conducted by Elsevier Research academy.
- Mr. G. Sri Hari & Mr. K. Suresh Babu participated in the 2-Day Workshop on "Aligning Yourself to the Publishing Process" from 7/24/2020 to 7/25/2020 conducted by Elsevier Research academy.
- Dr. P. Ramadevi participated in the National workshop on “Science is Fun” on 27.07.2020 conducted by St. Joseph's College of Engineering, Chennai.
- Mr. G. Sri Hari participated in the Faculty development program on "Guided Walk-through to NBA-SAR" from 27.07.2020 to 01.08.2020 conducted by AICTE Margdarshan – Rajalakshmi Engineering College.
- Mr. G. Sri Hari participated in the Workshop on “Business Communication, Interview and Presentation” on 31.07.2020 conducted by University of Engineering and Management & Institute of Engineering and Management.
- Mrs. S. Bhavani participated in the 5-Day online Faculty development programme on “Role of Mathematics in Engineering Disciplines” from 03.08.2020 to 07.08.2020 conducted by Stella Marry College of Engineering, Arthenganvilai, Kanyakumari district.
- Mr. V. James participated in the Faculty development programme on “SAGEMATH” from 10.08.2020 to 14.08.2020 conducted by Amal Jyothi College of Engineering, Kerala.
- Mrs. Geetha Chandrasekran participated in the International virtual conference on "Advances in Chemical Sciences - 2020" from 13.08.2020 to 14.08.2020 conducted by Easwari Engineering College.
- Mrs. S. Bhavani participated in the International Conference on “Recent Trends in Mathematics-2020” from 25.08.2020 to 26.08.2020 conducted by Vellore Institute of Technology, Chennai.
- Mrs. R. Kavitha participated in the International Virtual Conference on “Recent Advance in Organic Medicinal and Biological Chemistry (RAOMBC) 2020” from 08.09.2020 to 09.09.2020 conducted by Vellore Institute of Technology.
- Dr. Rubarani P. Gangadharan participated in the 5-day Online International Faculty development program on “Smart and Nano Materials” from 14.09.2020 to 18.09.2020 conducted by Easwari Engineering College.
- Mr. M. Anand Raj & Dr. D. Udhayakumari participated in the International Online Faculty development program on "Frontiers in Chemistry" (FC-2020) from 16.09.2020 to 18.09.2020 conducted by Department of Science, St. Joseph's College of Engineering, Chennai.
- Dr. P. Ragukumar participated in the 5-Day Atal Faculty development programme on “Internet of Things” from 21.09.2020 to 25.09.2020 conducted by Anna University.
- Mr. M. Anand Raj participated in the National Level Workshop on “Functional Materials, Dye-sensitized Solar Cells and Perovskite Solar Cells” from 21.09.2020 to 25.09.2020 conducted by Department of Physics, School of Science and Humanities, Kongu Engineering College, Perundurai, Erode.
- Dr. P. Ragukumar participated in the E-short term course on “Advanced Mathematical Techniques for Engineers and Scientists” from 28.09.2020 to 30.09.2020 conducted by NIT Rourkela.

WEBINARS ATTENDED

The faculty members of the department have attended a total of 459 webinars during the period from 1st July to 30th September, 2020. The number of webinars attended by each faculty member is tabulated below:

Faculty of Mathematis

Name of the Faculty - No. of Webinars Attended	
Dr. V. Lakshmi	05
Dr. B. Sivakumar	06
Mr. V. Gopalakrishnan	04
Mr. V. James	12
Mrs. D. Rajalakshmy	09
Mrs. P. Helen Vijitha	04
Dr. J. Venkatesan	04
Dr. J. Julie	08
Mrs. R. Krithika	07
Mr. V.R. Sunilkumar	03
Mrs. C. Renuga	09
Mrs. R. Hema	05
Mrs. S. Vasanthi	15
Mrs. K. Uma	04
Mrs. R. Nathiya	04
Mr. R. Sakthi	05
Dr. P. Ragukumar	05
Dr. A. Velankanni	06
Mr. A. Azhagarasu	04
Mr. V. Rajkumar	04
Mr. R. Siluvai Dasan	04
Mrs. V. Shakila	04
Mrs. C. Shanthini	09
Mrs. S. Bhavani	09

Faculty of Physics

Name of the Faculty - No. of Webinars Attended	
Dr. P. Vasudevan	04
Mr. M. Anand Raj	09
Mrs. R. Kavitha	07
Mr. K.Senthilkumar	05
Dr. Rubarani P. G.	04
Dr. B. Latha	04
Mr. G. Anumantha Kannan	06
Mr. M. Sankar Kumar	04
Mr. K. Vijayanarasimhan	05
Mr. M. Infant shyam Kumar	07
Dr. G. Saravana Kumar	04
Mrs. R. Bhavani	04

Faculty of English

Name of the Faculty - No. of Webinars Attended	
Mr. G. Srihari	12
Mr. M. Vijay	07
Mrs. G. Alamelu	27
Mr. Hastin Fernandez	07
Mrs. G. Janet	06
Mrs. Andria Babu	11
Mrs. B.S. Renuka	21
Dr. P. Duvaraganathan	05
Dr. Thomas Alwa Edison	03
Mrs. S. Vadivel	01
Mr. G. Babu	17
Mr. B. Lakshmanan	04
Mrs. B. Rajalakshmi	18
Mrs. N. Sudha	07

Faculty of Chemistry

Name of the Faculty - No. of Webinars Attended	
Dr. S. Jayakumar	07
Dr. P. Ramadevi	07
Dr. S. Mohandoss	01
Mrs. S. Anu	07
Dr. S. Jasmine	10
Dr. R. Manonmani	10
Dr. K. Seethalakshmi	08
Mrs. S. Janaki	10
Mr. K. Suresh Babu	10
Mr. S. Mohan	05
Mr. V. Inbaraj	04
Mrs. Geetha Chandrasekran	11
Dr. D. Udhayakumari	10
Dr. S. Suresh Kumar	01

QUIZZES ATTENDED

- Dr. P. Ramadevi has participated in the following e-quiz programs conducted by various institutions:
 1. Chemistry E-Quiz-2020 conducted by Department of Chemistry, Sri Akilandeswari Women's College, Wandiwash, on 10.06.2020.
 2. National Quiz Contest on Fundamentals of Chemistry, E-Quiz 2020 conducted by Sir Theagaraya College, Chennai, on 10.06.2020.
 3. National E-Quiz on Fundamentals of Chemistry and Chemical Reactions conducted by C. Abdul Hakeem College of Engineering and Technology, Ranipet, on 24.07.2020.
- Mrs. S. JANAKI and Dr. S. Jasmine have participated in the Online E - quiz on General Chemistry conducted by Government Arts College, Trichy, on 10.07.2020.



“Learn everything that is good from others, but bring it in, and in your own way adsorb it; do not become others.”

-Swami Vivekanandar

Editorial Team

Editor-in-chief:

Dr. M. Muthusamy, Professor & Head

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Mr. K. Vijayanarasimhan, Asst. Prof. (SS) - Physics

Faculty & Student Coordinators:

Ms. R. Krithika, Asst. Prof. (SG) - Mathematics

Ms. R. Bhavani, Asst. Prof. (SS) - Physics

Mr. Hastin Fernandez, Asst. Prof. (SS) - English

Ms. S. Janaki, Asst. Prof. (SS) - Chemistry