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Frontier

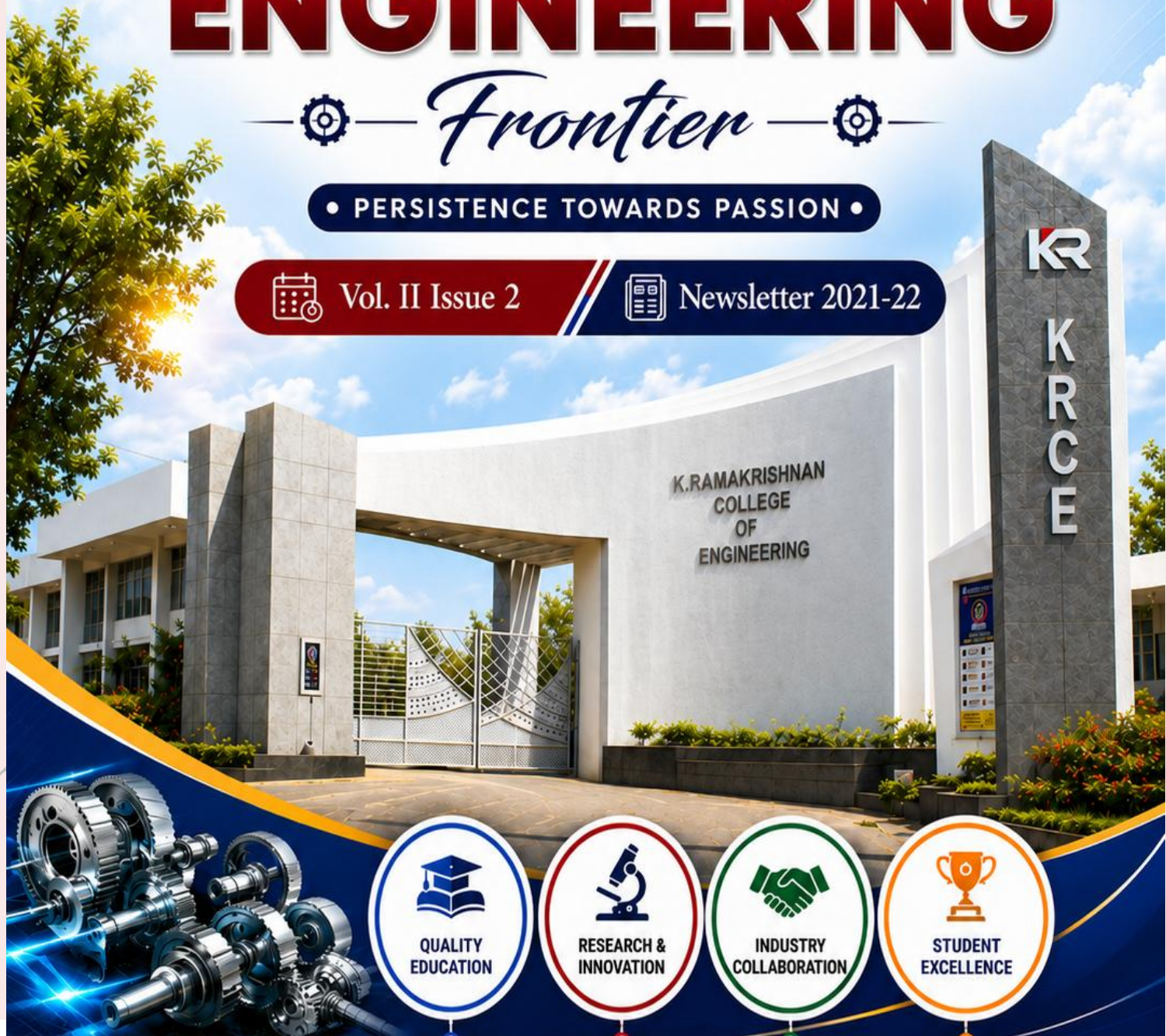
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Vol. II Issue 2



Newsletter 2021-22



QUALITY
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INDUSTRY
COLLABORATION



STUDENT
EXCELLENCE



Together We Engineer The Future





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Persistence towards Passion



K.RAMAKRISHNAN
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Vol. II Issue 2

Newsletter 2021-22

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A newsletter is a reflection of the department's achievements, innovations, and aspirations. Through this publication, we celebrate academic excellence, research contributions, student accomplishments, and the collective efforts of our Mechanical Engineering family.

”

DEPARTMENT OF MECHANICAL ENGINEERING

Frontier – Persistence Towards Passion



LEADERSHIP MESSAGES



CHAIRMAN MESSAGE

The Department of Mechanical Engineering at K. Ramakrishnan College of Engineering is dedicated to shaping innovative and skilled engineers through quality education, practical exposure, and research excellence. The department strives to empower students with technical knowledge, professional ethics, and leadership skills to meet global industrial challenges and contribute effectively to society.



Dr. K. RAMAKRISHNAN
CHAIRMAN – KR Group



Dr. S. KUPPUSAMY
EXECUTIVE DIRECTOR –
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EXECUTIVE DIRECTOR'S MESSAGE

The Department of Mechanical Engineering at K. Ramakrishnan College of Engineering is committed to academic excellence, innovation, and industry-oriented learning. With advanced laboratories, experienced faculty, and a strong research culture, the department prepares students to become competent mechanical engineers with technical expertise, ethical values, and leadership skills to excel in their careers and serve society.



★ LEADERSHIP MESSAGES ★



PRINCIPAL'S MESSAGE

The Department of Mechanical Engineering at K. Ramakrishnan College of Engineering plays a vital role in shaping technically proficient and innovative engineers. The department focuses on delivering quality education through modern laboratories, experienced faculty, and research-driven learning. It strives to equip students with technical knowledge, practical skills, and ethical values to meet industrial challenges and emerge as successful professionals who contribute meaningfully to society.



Dr. D. SRINIVASAN
 PRINCIPAL - KRCE



Dr. M. MEIGNANAMOORTHY
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HOD'S MESSAGE



Welcome to the Department of Mechanical Engineering. Our mission is to bridge the gap between academic excellence and industrial requirement. Through our state-of-the-art laboratories and robust industry partnerships, we ensure our students gain the technical proficiency and practical experience necessary for a successful career. We take pride in our commitment to developing disciplined, competent, and ethical professionals who contribute meaningfully to the engineering community and society at large.

QUALITY
EDUCATIONRESEARCH &
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COLLABORATIONSTUDENT
EXCELLENCE

ABOUT THE INSTITUTION

K. Ramakrishnan College of Engineering (KRCE) is a private autonomous engineering institution established in 2008 near Samayapuram, Tiruchirappalli, affiliated with Anna University and approved by AICTE, with NAAC “A” grade accreditation and NBA accreditation for selected departments; the college offers undergraduate and postgraduate programs including CSE, AI & Data Science, IT, ECE, EEE, Mechanical Engineering, MBA, and M.E., and is known for its decent infrastructure, hostel facilities, digital library, placement training, technical clubs, and industry-oriented activities on its roughly 30-acre campus. KRCE is generally considered a mid-tier but improving engineering college in Tamil Nadu, particularly stronger in CSE/IT-related placements compared to core branches, with recruiters mainly from IT and service companies, while maintaining a comparatively strict academic and attendance system; the institution also promotes research through faculty publications and patents and is viewed as a reasonable option for students seeking affordable engineering education with good placement support in the Trichy region.

VISION & MISSION OF THE COLLEGE

VISION

- ❖ To achieve a prominent position among the top technical institutions

MISSION

- ❖ To bestow standard technical education par excellence through state of the art infrastructure, competent faculty and high ethical standards.
- ❖ To nurture research and entrepreneurship skills among the students in cutting edge technologies.
- ❖ To provide education that can be used as a tool to transform the students.

ABOUT THE DEPARTMENT

The Department of Mechanical Engineering was established in 2008 and currently offers undergraduate and postgraduate programs, namely B.E. Mechanical Engineering and M.E. Engineering Design. The department has an intake of 180 students for UG and 24 students for PG. It is an NBA-accredited department and has been recognized as an Anna University approved research centre with Ph.D. supervisors for both full- time and part-time research scholars. The department achieved NAAC “A” grade accreditation and holds autonomous status from the academic year 2020–2021 onwards. It is also recognized under UGC 2F & 12B status and certified with ISO 9001:2015 and ISO 14000 standards. The department is equipped with ten well-established laboratories along with a state-of-the-art Material Testing Laboratory. It also has advanced facilities such as Turnitin plagiarism detection software and an SAE garage for automotive innovation and student competitions. The faculty members are highly experienced, with an average experience of 8.9 years, and many hold doctoral degrees with strong research publications in reputed journals. The department promotes active student involvement in SAE activities such as BAJA, Auto Sports, Mega ATV, QBDC, SUVC, E-CART, Go-KART, and EFFI-CYCLE competitions. The department focuses on producing competent, ethical, and employable mechanical engineers with strong technical, professional, and soft skills. It aims to prepare graduates who can contribute effectively to industry and society through innovation and engineering excellence.

VISION

- ❖ To provide eminent mechanical engineers to the industries and society through quality education.

MISSION

- ❖ To impart quality professional education through state-of-the-art infrastructures.
- ❖ To motivate students and faculty to undertake research and development activities in the thrust areas of mechanical engineering.
- ❖ To carry out collaborative projects with industries and academics.

PROGRAM EDUCATIONAL OBJECTIVES

The PEOs of the programme are

PEO 1: Have a successful career in industry or opt for higher studies/research.

PEO 2: Analyze, synthesize and design mechanical & allied products addressing societal issues.

PEO 3: Exhibit technical expertise, communication skills and teamwork with Professionalism and ethical values.

PROGRAM SPECIFIC OUTCOMES

PSO1: Identify, formulate and solve engineering problems in three core streams of Mechanical Engineering, i.e., design engineering, thermal and fluids engineering and manufacturing engineering.

PSO2: Design, develop, test and implement energy efficient systems for required engineering applications.

FACULTY ACHIEVEMENTS:

JOURNAL PUBLICATIONS:

- ❖ Dharmalingam, S., Lenin, K., & Srinivasan, D. (2022). Investigating the FSW parameter's role on microstructure and mechanical properties of welding AZ31B-AA8110 alloy. Bulletin of the Polish Academy of Sciences. Technical Sciences, 70(1).
- ❖ Kannan, V. S., Lenin, K., & Kumar, J. S. (2022). A parametric study on laser square hole machining of AA7475/SiC/ZrSiO₄ composites. Materials Today: Proceedings, 68, 1375-1380.
- ❖ Dharmalingam, S., Lenin, K., & Ramakrishnan, K. (2022). Investigations of some of the tool pin performance in friction stir welding of AA7475-AA8011 and AA8011-AZ31 B. Materials Today: Proceedings, 68, 1355-1374.

- ❖ Palanisamy, D., Naidu, B. V. V., Lenin, K., Parthiban, A., &Gnanarathinam, A. (2022). Machinability investigation on nickel based super alloys using textured inserts. *Materials Today: Proceedings*, 68, 1617-1621.
- ❖ K. Natarajan, H. Ramakrishnan, Amel Gacem, V. Vijayan , K. Karthiga,H. Elhosiny Ali, B. Prakash, and AddisalemMekonnen. 'Study on Optimization of WEDM Process Parameters on Stainless Steel'. *Journal of Nanomaterials*, Volume 2022, Article ID 6765721, 7 pages, <https://doi.org/10.1155/2022/6765721>.SCIE. Q2.
- ❖ D. Srinivasan, N.Ganesh, Jafrey Daniel James.D ,H.Ramakrishnan, R.Balasundaram et.al, 'Investigation of surface roughness and material removal rate of WEDM of SS304 using ANOVA and regression models', *Surface Topography :Metrologyand Properties*. 10 (2022) 025014. SCI-E. Q2.
- ❖ Vijay, R., James, D. J. D., & Sarangi, S. K. (2022). Investigation of the mechanical properties of treated and untreated Vachellia farnesiana fiber based epoxy composites. In *Advances in Bio-Based Fiber* (pp. 487-497). Woodhead Publishing.
- ❖ Karthik Pandiyan, G., Prabaharan, T., Jafrey Daniel James, D., & Sivalingam, V. (2022). Machinability Analysis and Optimization of Electrical Discharge Machining in AA6061-T6/15wt.% SiC Composite by the Multi-criteria Decision-Making Approach. *Journal of Materials Engineering and Performance*, 1-12.
- ❖ T. Sathish, R. Saravanan, V. Vijayan, R. Karthick, N. Karthikeyan, and S. Raj Kumar published the research article titled “High Speed Grinding of EN31 with Alumina Nano Fluid Coolant” in Hindawi’s *Advances in Materials Science and Engineering*, Volume 2022, Article ID 3324008, in 2022.

- ❖ Sathish, T., Sabarirajan, N., Prasad Jones Christydass, S., Sivananthan, S., Kamalakannan, R., Vijayan, V., & Paramasivam, P. (2022). Synthesis and Optimization of Deesterified Acacia-Alginate Nanohydrogel for Amethopterin Delivery. *Bioinorganic Chemistry and Applications*, 2022.
- ❖ Gnaneswaran, P., Hariharan, V., Chelladurai, S. J. S., Rajeshkumar, G., Gnanasekaran, S., Sivananthan, S., & Debtera, B. (2022). Investigation on Mechanical and Wear Behaviors of LM6 Aluminium Alloy-Based Hybrid Metal Matrix Composites Using Stir Casting Process. *Advances in Materials Science and Engineering*, 2022.
- ❖ Jafrey Daniel James D., Ramakrishnan H., Karthik Pandiyan G., Bharath M., Gokul P., Akash G., & Arun R. . Experimental investigation and optimization by evaluation based on distance from average solution approach for wire electrical discharge machining of super duplex stainless steels. *Journal not specified* (Submitted October 23, 2022; Revised January 31, 2023; Accepted February 18, 2023).
- ❖ Albert, F. A., Jafrey Daniel James D., Karthik Pandiyan G., John I. W., Hariharan S., Guna A., Haribaskar L., Sathish Kumar G., & Mohanraj C. (Year not provided). Tribological studies and optimization of two-body abrasive wear of NaOH-treated Vachellia farnesiana fiber by additive ratio assessment method. *Journal not specified*.
- ❖ Naveenkumar, R., Ravichandran, M., Mohanavel, V., Karthick, A., Aswin, L. S. R. L., Priyanka, S. S. H., Kiran Kumar, S. K., & Pradeep Kumar, S. (2022). Review on phase change materials for solar energy storage applications. *Environmental Science and Pollution Research*, 29(7), 9491–9532.
- ❖ Mr. K. Chellamuthu, G. Sakthi Balan, R. Balasundaram, S. Nandha Gopan, S. Dinesh, V. Vijayan, T. Sathish, and S. Rajkumar, **published a research article titled** “Flame Resistance Characteristics of Woven Jute

Fiber Reinforced Fly Ash Filled Polymer Composite” **in the** Journal of Nanomaterials (SCI Indexed, ISSN: 1687-4129, Volume 2022, pp. 1–12) **in** February 2022.

- ❖ Dr. M. Sridharan, S. Sathyanarayanan, S. Suresh, and others, published the research article “Effect of Sucrose Catalyst in the Catalytic Converter on Performance and Emission of Spark Ignition Engine” in the Journal of Thermal Science & Engineering Applications (Scopus/SCIE/WoS Indexed) in 2022.
- ❖ Dr. M. Sridharan, D.B. Sivakumar, M. Arulmozhi, and S. Sathyanarayanan, published the paper “Optimization of Gasoline Engine Operating Parameters Fueled with DIPE-Gasoline Blend” in Process Safety and Environmental Protection (Scopus/SCIE/WoS Indexed) in 2022.

PATENT PUBLICATIONS

- ❖ The patent titled “A Variable Pitch Multi-Fastener Extractor” was invented by M. Manimaran, H. Ramakrishnan, K. Ramakrishnan, R. Vidhuran, M. Mubhash, and S. Vikrama Adithyan. It was granted in India under Patent Application No. 201741034422 and was officially published/granted on 27 April 2022.
- ❖ Ramesh, M., Suriyanarayan, R., Surendar, K. A., Thivagar, K., & Venkatesan, S. (2022). A Dispenser Machine (Indian Patent Application No. 202041032024; Publication No. 04/2022). Published January 28, 2022.
- ❖ Aakash Antony, S., Chandramouleeswaran, N., Ravichandran, M., & Mohanakrishnan, A. (2022). Floating Oil Absorbing Device (Indian Patent Application No. 202041032032; Publication No. 04/2022). Published January 28, 2022.

- ❖ Ranjith Kumar, B., Sunil Kumar, R., Hari Baskar, R., Shankar, P., & Ramakrishnan, H. (2022). Solar Panel Cleaning Machine (Indian Patent Application No. 202041034993; Publication No. 07/2022). Published February 18, 2022.
- ❖ Lenin, K., Palanisamy, D., Ramesh Raju, Manikandan, N., Thejasree, & Arulkirubakaran. (2021). Smart Helmet Inbuilt Wireless Communication Kit and System (Indian Patent Application No. 202141028849; Publication No. 28/2021). Published July 9, 2021.
- ❖ Sanjeevi, R., Raveendhran, M., Sabreshwar, S., Sreenivasan, S., Yogesh, M., & Kiran Bala, B. (2022). A Paint Spraying Machine (Indian Patent Application No. 202241035231; Publication No. 25/2022). Published June 24, 2022.

FDP/WORKSHOP/SEMINAR/CONFERENCE

- ❖ Mr. K. Chellamuthu has participated in the Faculty Development Programme on “Recent Advancement in Modeling Analysis of Porous Materials” organized by the National Institute of Technology (NIT), Surathkal, from 28.02.2022 to 04.03.2022.
- ❖ Dr. M. Sridharan participated in the Workshop on “Bio-inspired Optimization Algorithms” organized by the National Institute of Technology, Tiruchirappalli, from 04.01.2022 to 08.01.2022.
- ❖ Dr. M. Sridharan participated in the Short-Term Course on “Artificial Intelligence, Machine Learning and Deep Learning” conducted by the National Institute of Technology, Warangal, from 27.01.2022 to 31.01.2022.
- ❖ Dr. M. Sridharan participated in the Faculty Development Programme on “3D Printing & Design” organized by PSG College of Technology, Coimbatore, from 18.01.2022 to 22.01.2022.

PLACEMENT DETAILS

- ❖ The Department of Mechanical Engineering proudly congratulates **Arsath Akram Sha** and **R. Dinesh Aravindhan** on securing placements at **Acoustics** with an annual package of **₹1.80 LPA**.

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- ❖ The Department of Mechanical Engineering proudly congratulates **M. Abul Kalam Azad** and **S. Sharveshvaran** on securing placements at **Capgemini** with an annual package of **₹4.00 LPA**.
- ❖ The Department of Mechanical Engineering proudly congratulates **P. Ajay, G. Akash, P. Akash, K. Cherma, S. Gowtham, S. Karan, A.P. Kavin, L. Leo Aswin, D. Logeshkumar, T. Magivarma, F. Mohamed Suhaith, M. Pozhingiyan, M. Rakesh, B. Santhosh, S. Shajid, K. Vinith, M. Dinesh Kumar, J.B. Logesvar, and S. Sai Ganesh** on securing placements at **CTS** with an annual package of **₹4.02 LPA**.

- ❖ The Department of Mechanical Engineering proudly congratulates D. Arjun, P. Deepak Kumar, R. Devarajan, P. Gokul Kannan, R. Karthikeyan, K. Meganathan, S. Pradeep Kumar, V. Sarath, P.C. Sathish, S. Selvakumar, S. Selvin Joe Francis, R. Srinivasan, M.G. Sriram, M. Sunilsha, E.M. Tamilselvan, P. Sudharsan, C. Harish Kumar, R. Jamson, S.L. Krishnaprasath, N. Mathivanan, A. Ramprasath, A. Saiharan, and V. Sanjay on securing placements at **Election** with an impressive annual package of ₹4.75 LPA.



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 Naveen S MECHANICAL ENGINEERING	 Pradeep K MECHANICAL ENGINEERING	 Prasanna V MECHANICAL ENGINEERING	 Ragavendran K MECHANICAL ENGINEERING	 Ramesh B MECHANICAL ENGINEERING	 Rithick A MECHANICAL ENGINEERING	 Sakthi M MECHANICAL ENGINEERING	 Saran K MECHANICAL ENGINEERING	 Suresh D MECHANICAL ENGINEERING	 Vignesh P MECHANICAL ENGINEERING
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- ❖ The Department of Mechanical Engineering proudly congratulates R.K. Satheya Narayanan, M. Surya, A.R. Vaishnav, and D. Vijaysankar on securing placements at **GESCO** with an annual package of ₹2.11 LPA. Their achievement reflects their commitment, technical competence, and the department's continuous efforts in developing skilled and industry-ready professionals.

- ❖ The Department of Mechanical Engineering proudly congratulates **A. Ajithkumar** and **R. Balaji** on securing placements at **GRG Polydynamics** with an annual package of **₹2.22 LPA**. Their accomplishment reflects their technical proficiency, dedication, and the department's commitment to nurturing competent and industry-ready engineers.
- ❖ The Department of Mechanical Engineering proudly congratulates **K. Saravana Kumar** and **A. Rohith** on securing placements at **Infosys** with an annual package of **₹3.60 LPA**.



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Rohith A

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- ❖ The Department of Mechanical Engineering proudly congratulates **S. Akileshwar, S. Anbalagan, M. Gowtham, N. Sanjai Kumar, P. Aravindan, S. Lingeshwaran, and M. Vasanth** on securing placements at **Leewon Precision** with an annual package of **₹1.68**

LPA. Their success reflects their perseverance, technical competence, and the department's commitment to producing industry-ready professionals.

- ❖ The Department of Mechanical Engineering proudly congratulates **V.C. Amarnath, A. Dinesh Kumar, J. Richu Abraham, and S. Susthiga** on securing placements at **Mindtree** with an annual package of **₹4.00 LPA**. Their achievement reflects their dedication, technical excellence, and the department's commitment to nurturing skilled and industry-ready professionals.



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We wish them a successful and prosperous career ahead!

- ❖ The Department of Mechanical Engineering proudly congratulates **S. Sriram Prasath, J. Jyothivel, and S. Prabhu** on securing placements at **MRF** with an annual package of **₹2.64 LPA**.



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We wish them a successful and prosperous career ahead!



- ❖ The Department of Mechanical Engineering proudly congratulates **R. Hariharan, K. Kaniskar, S. Mohamed Abthulla, E. Jagadish, A. Paul Christopher, M. Siva Prakash, and S. Yogeshwaran** on securing placements at **SAEW** with an annual package of **₹1.56 LPA**. Their success reflects their dedication, technical proficiency, and the department's commitment to preparing competent professionals for the manufacturing industry.
- ❖ The Department of Mechanical Engineering proudly congratulates **M. Dhanush, J.R.R. Giridhar, G. Gokul, T.J. Hareesh Kumar, M. Hariharan, P. Karthikeyan, M. Kavin, J. Libin Lawrance, S. Mohamed Salmankhan, V. Pazhanivel, U. Rahul Gandhi, B. Sharathish Khanna, and S. Sri Arunmurugan** on securing placements at **Shree Motherplast** with an annual package of **₹1.80 LPA**. Their achievement reflects their dedication, technical competence, and the department's continuous efforts in developing skilled and industry-ready engineers.

- ❖ The Department of Mechanical Engineering proudly congratulates **K. Yogeshwaran, K. Bhuvaneshwar, V. Mohan Kumar, and U. Mohan Raj** on securing placements at **Super Auto Forge** with an annual package of **₹1.80 LPA**. Their success reflects their technical skills, perseverance, and the department's commitment to nurturing competent and industry-ready professionals.
- ❖ The Department of Mechanical Engineering proudly congratulates **R. Kiran Kumar, M. Mohamed Sheik Abdullah, and M. Mohamed Maheer** on securing placements at **TCS** with an annual package of **₹3.37 LPA**. Their achievement reflects their dedication, technical competence, and the department's commitment to nurturing skilled and industry-ready professionals.

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We wish them a successful and prosperous career ahead!

- ❖ The Department of Mechanical Engineering proudly congratulates **N. Balamurugan, S. Santhosh, S. Sree Ram, M. Jayachandran, K. Jeeva, and R. Thatchanamoorthy** on securing placements at **TDS** with an annual package of **₹1.80 LPA**. Their success reflects their

perseverance, technical proficiency, and the department's continuous efforts in developing competent and industry-ready engineers.

- ❖ The Department of Mechanical Engineering proudly congratulates **N. Amarthiyasen, E.S. Aravinth, K. Balasubramanian, J. Jaivishal, T. Jaya Surya, Y. Josuva Bright, J. Joywin Ruskin, R. Matheswaran, and C. Nitheeswaran** on securing placements at **Sureti IMF** with an annual package of **₹3.00 LPA**.
- ❖ The Department of Mechanical Engineering proudly congratulates **E. Cheran** and **F. Simpson Jones Froehly** on securing placements at **Wipro** with an annual package of **₹3.50 LPA**. Their achievement reflects their dedication, technical excellence, and the department's commitment to developing skilled and industry-ready professionals.



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*We wish them a successful and prosperous career ahead!*

FACULTY CONTRIBUTIONS AS RESOURCE PERSONS/GUEST LECTURE

- ❖ The Department proudly congratulates **Dr. K. Lenin** for delivering a technical lecture on **“Recent Developments in Automobile Engineering”** at **Sri Krishna College of Engineering, Chennai**, on **20 March 2022**. His session focused on emerging trends and technological advancements in the automobile sector.
- ❖ The Department appreciates **Dr. M. Ravichandran** for presenting on **“The Effect of Basalt Fiber and MoS₂ on the Microstructure and Properties of Epoxy-Based Composites”** at **Chennai Institute of Technology, Chennai**, on **15 February 2022**. His presentation showcased innovative research findings in advanced composite materials.



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Samayapuram, Tiruchirappalli – 621 112, Tamil Nadu, India.



DEPARTMENT OF MECHANICAL ENGINEERING



Hearty Congratulations
to our esteemed faculty member

Dr. M. Ravichandran

for presenting on
**“The Effect of Basalt Fiber and MoS₂
on the Microstructure and Properties
of Epoxy-Based Composites”**
at Chennai Institute of Technology,
Chennai,
on **15 February 2022**.

His presentation showcased innovative research
findings in advanced composite materials.

**RESOURCE
PERSON**



We appreciate his valuable contribution to academic excellence!

- ❖ The Department congratulates **Dr. K. Lenin** for serving as a **Resource Person** on “**Additive Manufacturing in Recent Era**” at **Jayaram College of Engineering and Technology, Thuraiyur**, on **14 March 2022**. The session emphasized recent developments and future opportunities in additive manufacturing.



K. RAMAKRISHNAN COLLEGE OF ENGINEERING
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Hearty Congratulations
to our esteemed faculty member

Dr. H. Ramakrishnan

for delivering an expert lecture on
“Automotive Engineering”
at Dhanalakshmi Srinivasan Engineering College,
Perambalur,
on **10 April 2022**.

His session provided participants with
valuable knowledge on modern automotive
technologies and industry practices.

RESOURCE PERSON



Towards Excellence

We appreciate his valuable contribution to academic excellence!

- ❖ The Department proudly acknowledges **Dr. H. Ramakrishnan** for delivering an expert lecture on “**Automotive Engineering**” at **Dhanalakshmi Srinivasan Engineering College, Perambalur**, on **10 April 2022**. His session provided participants with valuable knowledge on modern automotive technologies and industry practices.