

Jul' 22 – Dec' 22



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**Jul' 22 – Dec' 22**

**Chief Editor:** Dr. C. Krishnaraj

**Editor:** Mr. V.V. Arun Sankar

**Co-Editor:** Mr. R.A. Hari Baalaaji

**Student Editorial Board:** Hamish G Hugh (20M114), Mownidharan (717821M130), Rizwan Khan (717821M239)

#### **WARM WELCOME TO THE NEW FACULTY:**

- ❖ Mr. K. Arunkumar has joined KCE on 25.11.2022.

#### **DEPARTMENT ACTIVITIES**

##### **Development Programmes:**

- ❖ Organized a One Day Workshop on "An Insight into the Career Opportunities in Mechanical Engineering to KCEians by KCEians" for the students of 2<sup>nd</sup> year Mechanical Engineering on 12.08.2022.
- ❖ Organized a One Day Workshop on "An Insight into the Career Opportunities in Mechanical Engineering to KCEians by KCEians" for the students of 3<sup>rd</sup> year Mechanical Engineering on 13.08.2022.
- ❖ Organized a "Systemic Knowledge Enrichment Program (SKEP)" in association with 'CADD Center, Coimbatore' on 22.09.2022 for the students of 2<sup>nd</sup> year Mechanical Engineering.
- ❖ Organized a "Systemic Knowledge Enrichment Program (SKEP)" in association with 'CADD Center, Coimbatore' on 24.09.2022 for the students of 3<sup>rd</sup> year Mechanical Engineering.



##### **Seminars / Workshops / FDP / STTP - conducted**

- ❖ Organized a Five days Faculty Development Programme on "Recent Trends in Additive manufacturing Process and its applications" from 01.08.2022 to 05.08.2022.
- ❖ Organized a "One week Faculty Training Programme on Laboratory Practices" from 01.08.2022 to 06.08.2022.
- ❖ Organized a "One day Workshop on Role of Mechanical Engineering" for the students of Mechanical Engineering on 27.08.2022.



- ❖ Organized a "One day Workshop on Fusion 360" by 'Autodesk India Pvt. Ltd. Bangalore' for the students of Mechanical Engineering on 06.09.2022.
- ❖ Organized a "One day faculty training program on Fusion 360 Design Module" by 'Autodesk India Pvt. Ltd. Bangalore' on 07.09.2022.
- ❖ Organized a "Two days Autodesk Boot Camp for Fusion Design Challenge" in association with 'Autodesk India Pvt.Ltd. Bangalore' under Naan Mudhalvan Scheme under the aegis of Government of Tamil Nadu on 20.09.2022 and 21.09.2022.
- ❖ Organized a One-day Workshop on 'Technology Awareness Workshop for Enabling Mutli-Disciplinary research' on "3D Designing and Printing – From Idea to Prototype" on 16.09.2022.
- ❖ Organized a Grooming Session (Online) for the students of Mechanical Engineering by CADD Centre on 28.09.2022.
- ❖ Organized a 12 hours "Design Hackathon" in association with ICT Academy on 30.09.2022.
- ❖ Organized a One-day Workshop on 'Dismantling and assembly of Mahindra XUV 300, TUV 300 Engines' on 15.10.2022.
- ❖ Organized a Grooming Session (Offline) for the students of Mechanical Engineering by CADD Centre on 08.10.2022.
- ❖ Organized a "One Day workshop on Industrial Automation" on 04.11.2022.
- ❖ Organized a "Alumni Talk" for the students of Mechanical Engineering on 05.11.2022.
- ❖ Organized a "Design Workshop – Day 2" in association with ICT Academy, Coimbatore on 07.11.2022.
- ❖ Organized a "Two Days workshop on Role of Robotics & Artificial Intelligence in Mechanical Domain" on 11.11.2022 and 12.11.2022.
- ❖ Organized a "One Day workshop on Certified Solidworks Associate (CSWA) certification" in association with CADD Centre on 19.11.2022.

#### **MOU Signed:**

- ❖ MoU has been signed with "Centre of Excellence – Karpagam Academy of Higher Education" on 11.08.2022.
- ❖ Non-Disclosure Agreement (NDA) has been signed with "Eppinger" on 19.10.2022.

#### **Students Chapter:**

- ❖ Inauguration of "Institute of Indian Foundrymen (IIF)" Students Chapter was held on 01.09.2022 at Karpagam College of Engineering.

### **FACULTY ACHIEVEMENTS**

#### **Journal Publications**

##### **Dr. C. Krishnaraj, Professor & Head**

- ❖ Published a paper titled "Optimization of Performance and Emission Characteristics of Biodiesel from Non-Edible Raphanus sativus Oil with Nano-Additive", Journal of Theoretical Foundations of Chemical Engineering, 2022.

##### **Dr. S. Vimalanand, Associate Professor**

- ❖ Published a paper titled "Vibration Analysis of Composite Laminated and Sandwich Conical Shell Structures: Numerical and Experimental Investigation," International Journal of Structural Stability and Dynamics, 2022

##### **Dr. K. Ananthakumar Associate Professor**

- ❖ Published a paper titled "Comparative Study of Mechanical Strength and Piezoelectric Coefficient of Post-processed Polyvinylidene Fluoride Nanofibrous Films," Materials, Design and Manufacturing for Sustainable Environment: Select Proceedings of ICMDMSE 2022.

##### **Mr. N. Subramani, Assistant Professor**

- ❖ Published a paper titled "Parametric Evaluation of AA6063 TIG welded samples in Taguchi Method", AIP Conference Proceedings, 2022
- ❖ Published a paper titled "Investigation on input Constraints of 6 Series aluminium alloy TIG welded Samples", AIP Conference Proceedings, 2022.

##### **Mr. Arun Sankar. V. V., Assistant Professor**

- ❖ Published a paper titled "Asbestos-Free Brake Lining Material Using Sea Shell", MATERIALE PLASTICE, 2022.

##### **Mr.P. Muraleedharan, Assistant Professor**

- ❖ Published a paper titled "Six sigma - DMAIC method for choice of material in natural fibers in polymer composite based wall brick", AIP Conference Proceedings, 2022.

##### **Mr. R. Sathish, Assistant Professor**

- ❖ Published a paper titled "Preparation and Characterization of Magneto Rheological Fluid for Vibration Damping", AIP Conference Proceedings, 2022.

##### **Mr. R.A. Hari Baalaaji, Assistant Professor**

- ❖ Published a paper titled "Experimental Analysis on Machining Properties of Aluminium hybrid Composite materials", SAE International, 2022.

#### **Ph.D Guided:**

- ❖ Dr. C. Krishnaraj, Professor & Head, has guided Mr. N. Kandavel, (Reg No: 1514269743) to successfully complete his Ph.D. and his Viva-Voce examination on 12.07.2022.
- ❖ Dr. J. Ganesh Murali, Professor, has guided Mr. G. Sekar, (Reg No: 16172697260) to successfully complete his Ph.D. and his Viva-Voce examination on 22.07.2022.

#### **Ph.D Guideship:**

- ❖ Dr. K. Ananthakumar, Associate Professor received his Ph.D. Guideship from Centre for Research – Anna University on 19.12.2022.
- ❖ Dr. Titus Thankachan, Associate Professor received his Ph.D. Guideship from Centre for Research – Anna University on 19.12.2022.

**Seminars / Workshops / FDPs / STTPs - Presented / Attended**

- ❖ Dr. C. Krishnaraj, Professor & Head, attended NPTEL - FDP on "Advanced Machining Process" during 15<sup>th</sup> August 2022 – 30<sup>th</sup> October. 2022.
- ❖ Dr. K.Ananthakumar, Associate Professor, attended NPTEL - FDP on "Advanced Machining Process" during 15<sup>th</sup> August 2022 – 30<sup>th</sup> October. 2022.
- ❖ Dr. C. Krishnaraj, Professor & Head, attended FDP on "Managerial Skills for Technical Teachers & Administrators" conducted by National Institute of Technical Teachers Training and Research (NITTTR) during 26<sup>th</sup> Sep 2022 - 30<sup>th</sup> Sep 2022.
- ❖ Dr. S.Vimal Anand, Assistant Professor attended FDP on "Futuristic Research in Mechanical Engineering" conducted by SRM Institute of Science and Technology (SRMIST) during 8<sup>th</sup> Aug 2022 - 13<sup>th</sup> Aug 2022.
- ❖ Dr. K.Ananthakumar, Associate Professor attended FDP on "Managerial Skills for Technical Teachers & Administrators" conducted by National Institute of Technical Teachers Training and Research (NITTTR) during 26<sup>th</sup> Sep 2022 - 30<sup>th</sup> Sep 2022.
- ❖ Dr. Titus Thankachan, Associate Professor attended FDP on "Managerial Skills for Technical Teachers & Administrators" conducted by National Institute of Technical Teachers Training and Research (NITTTR) during 26<sup>th</sup> Sep 2022 - 30<sup>th</sup> Sep 2022.
- ❖ Mr.N Subramani, Assistant Professor attended FDP on "Managerial Skills for Technical Teachers & Administrators" conducted by National Institute of Technical Teachers Training and Research (NITTTR) during 26<sup>th</sup> Sep 2022 - 30<sup>th</sup> Sep 2022.
- ❖ Mr.Haridass R, Assistant Professor attended FDP on "Managerial Skills for Technical Teachers & Administrators" conducted by National Institute of Technical Teachers Training and Research (NITTTR) during 26<sup>th</sup> Sep 2022 - 30<sup>th</sup> Sep 2022.
- ❖ Mr.V V Arun Sankar, Assistant Professor attended FDP on "Managerial Skills for Technical Teachers & Administrators" conducted by National Institute of Technical Teachers Training and Research (NITTTR) during 26<sup>th</sup> Sep 2022 - 30<sup>th</sup> Sep 2022.
- ❖ Mr.M.Rajesh, Assistant Professor attended FDP on "FEA using ANSYS" conducted by National Institute of Technical Teachers Training and Research (NITTTR) during 26<sup>th</sup> Sep 2022 - 30<sup>th</sup> Sep 2022.
- ❖ Mr. R.A. Hari Baalaaji, Assistant Professor attended FDP on "Managerial Skills for Technical Teachers & Administrators" conducted by National Institute of Technical Teachers Training and Research (NITTTR) during 26<sup>th</sup> Sep 2022 - 30<sup>th</sup> Sep 2022.
- ❖ Mr. P. Muraleedharan, Assistant Professor attended FDP on "Advances in materials and manufacturing" conducted by National Institute of Technical Teachers Training and Research (NITTTR) during 31<sup>st</sup> Oct 2022 - 04<sup>th</sup> Nov 2022.
- ❖ Mr. R. Masilamani, Assistant Professor attended FDP on "Advances in materials and manufacturing" conducted by National Institute of Technical Teachers Training and Research (NITTTR) during 31<sup>st</sup> Oct 2022 - 04<sup>th</sup> Nov 2022.
- ❖ Mr. R. Sathish, Assistant Professor attended FDP on "Advances in materials and manufacturing" conducted by National Institute of Technical Teachers Training and Research (NITTTR) during 31<sup>st</sup> Oct 2022 - 04<sup>th</sup> Nov 2022.
- ❖ Mr. S. Chitharthan, Assistant Professor attended FDP on "Hybrid Electric Vehicles" conducted by Velagapudi Ramakrishna Siddhartha Engineering College (VRSEC) during 21<sup>st</sup> Nov 2022 – 25<sup>th</sup> Nov 2022.
- ❖ Mr. R.A. Hari Baalaaji, Assistant Professor attended Workshop on "Faculty Workshop on Fusion 360" conducted by USAM Camsoft India Pvt. Ltd., Coimbatore during 23<sup>rd</sup> Sep 2022.
- ❖ All the faculties from Department of Mechanical Engineering, attended a One-day workshop on "Material Characterization Techniques" at Centre for Material Science - Karpagam Academy of Higher Education on 15.09.2022.

**NPTEL Mentor Certifications**

S.No	Name of the Faculty	Name of the Certification Course	Mentees Cleared
1	Mr.S.Chitharthan	Advanced Machining Processes	14
2	Mr.M.Rajesh	Advanced Machining Processes	10
3	Dr.C.Krishnaraj	Advanced Machining Processes	2
4	Dr.K.Ananthakumar	Advanced Machining Processes	4
5	Dr.Titus Thankachan	Advanced Machining Processes	3
6	Mr.N.Subramani	Advanced Machining Processes	1
7	Mr.R.Arulmurugan	Manufacturing Processes - Casting and Joining	3
8	Mr.R. Masilamani	Advanced Machining Processes	6
9	Mr.V.V. Arun Sankar	Advanced Machining Processes	3
10	Mr.R.Haridas	Advanced Machining Processes	4

**NPTEL Certifications**

S.No	Name	Course Title	Certificate type
1	Dr. S. Vimal anand	Introduction to Mechanical Vibration	Elite+ silver



2	Dr.C. Krishnaraj	Advanced Machining Processes	Elite
3	Dr. Titus Thankachan	Advanced Machining Processes	Elite
4	Mr.S. Chitharthan	Advanced Machining Processes	Elite
5	Mr.R. Masilamani	Advanced Machining Processes	Successfully completed
6	Mr.N. Subramani	Advanced Machining Processes	Successfully completed
7	Dr.K.Ananthakumar	Advanced Machining Processes	Successfully completed
8	Mr.R. Haridass	Advanced Machining Processes	Successfully completed
9	Mr.M.Rajesh	Advanced Machining Processes	Successfully completed
10	Mr.V.V. Arun Sankar	Advanced Machining Processes	Successfully completed
11	Mr.R. Mahesh	Advances in Welding and Joining Technologies	Successfully completed
12	Mr.R.A.Hari Baalaaji	Refrigeration and Air Conditioning	Successfully completed



#### **Innovations by the Faculty in Teaching and Learning**

S.No.	Course Name	Mode
1	Kinematics of Machinery	ICT+ Smart Class
2	Strength of Materials	ICT + Smart Class
3	Thermal Engineering	ICT
4	Engineering Metallurgy	ICT + Smart Class
5	Machine Drawing	ICT
6	Design of Transmission Systems	ICT
7	Gas Dynamics and Jet Propulsion	ICT+ Smart Class
8	Unconventional Machining Processes	ICT
9	Metrology and Measurements	ICT
10	Design for Manufacture and Assembly	ICT+ Smart Class
11	Power Plant Engineering	ICT
12	Principles of Management and Engineering Ethics	ICT
13	Aircraft Systems	ICT
14	Industrial Robotics	ICT

#### **STUDENT ACHIEVEMENTS**

##### **Certification Programmes Participated by the Students**

- 12 Students completed Certified Solidworks Associate (CSWA) certification exam held on 29.11.2022.

##### **Students Participated in Industry contest**

- Our college racing team GRIFFIN RIDERZ participated in SUPRA SAEINDIA 2022 which was conducted from 22nd August 2022 to 25th August 2022, held at Buddh International Circuit, Greater Noida. Our team comprises of 25 Mechanical Engineering students

Won 2nd Prize in Cost Presentation and got overall 18th Rank in India & 4th Rank in Tamil Nadu.

- Hamish G Hugh won 1<sup>st</sup> prize at inter college level power lifting competition held at Karpagam College of Engineering on 20<sup>th</sup> October 2022.
- Devamoorthy. S (20M206) won 1<sup>st</sup> runner up position at Naan Mudhalvan Fusion 360 Design Challenge Level 1 Contest held on October 2022.
- Sridharshan. R (19M227) won 1<sup>st</sup> runner up position at Naan Mudhalvan Fusion 360 Design Challenge Level 1 Contest held on October 2022.
- Yogesh. P (19M232) won 1<sup>st</sup> runner up position at Naan Mudhalvan Fusion 360 Design Challenge Level 1 Contest held on October 2022.
- Hamish G Hugh (20M114) won 3<sup>rd</sup> prize (Junior Level) at Coimbatore Men's classic body building championship held on 18.09.2022.
- Hamish G Hugh (20M114) won 5<sup>th</sup> prize (Senior Level) at Coimbatore Men's classic body building championship held on 18.09.2022.
- Shyam Sundar (21M517) won 2<sup>nd</sup> prize (State Level) in 100 KG Category at Amateur Powerlifting Association of Coimbatore, held on 04.09.2022.
- Gokul (20M111) won third prize at Basketball tournament conducted by 'Anna University Zone 10' at Sri Ramakrishna Institute of Technology, Coimbatore held on 22.11.2022.
- Arun (21M203) won Third prize at 'Blog writing competition' organized by Department of Artificial Intelligence and Data Science, Karpagam College of Engineering on
- Yokeswaranath (21M519) won Bronze medal at Tamil Nadu State Grappling Wrestling Championship 2022-23, under 77kg Senior Mens GI Category
- Prasanna (21M608) secured Runner up position at Intra college 'Online photography contest 2022' at Karpagam College of Engineering



CENTRE FOR EXCELLENCE IN AUTOMOBILE TECHNOLOGY (CEAT)  
MADRAS INSTITUTE OF TECHNOLOGY (MIT) CAMPUS,  
ANNA UNIVERSITY, CHENNAI

Date: 07<sup>th</sup> December 2022

#### AU - TNSDC - AUTODESK FUSION 360 MEGA CHALLENGE

##### DEGREE CATEGORY LEVEL - 1 (OCTOBER MONTH) CHALLENGE WINNERS

POSITION	CHENNAI	COIMBATORE	MAHARAJA	MAHARAJA	MAHARAJA
1 <sup>st</sup>	1070 - Rishabh Kishore S.	1070 - Rishabh Kishore S.	1070 - Rishabh Kishore S.	1070 - Rishabh Kishore S.	1070 - Rishabh Kishore S.
2 <sup>nd</sup>	1070 - Rishabh Kishore S.	1070 - Rishabh Kishore S.	1070 - Rishabh Kishore S.	1070 - Rishabh Kishore S.	1070 - Rishabh Kishore S.
3 <sup>rd</sup>	1070 - Rishabh Kishore S.	1070 - Rishabh Kishore S.	1070 - Rishabh Kishore S.	1070 - Rishabh Kishore S.	1070 - Rishabh Kishore S.
4 <sup>th</sup>	1070 - Rishabh Kishore S.	1070 - Rishabh Kishore S.	1070 - Rishabh Kishore S.	1070 - Rishabh Kishore S.	1070 - Rishabh Kishore S.
5 <sup>th</sup>	1070 - Rishabh Kishore S.	1070 - Rishabh Kishore S.	1070 - Rishabh Kishore S.	1070 - Rishabh Kishore S.	1070 - Rishabh Kishore S.
6 <sup>th</sup>	1070 - Rishabh Kishore S.	1070 - Rishabh Kishore S.	1070 - Rishabh Kishore S.	1070 - Rishabh Kishore S.	1070 - Rishabh Kishore S.
7 <sup>th</sup>	1070 - Rishabh Kishore S.	1070 - Rishabh Kishore S.	1070 - Rishabh Kishore S.	1070 - Rishabh Kishore S.	1070 - Rishabh Kishore S.
8 <sup>th</sup>	1070 - Rishabh Kishore S.	1070 - Rishabh Kishore S.	1070 - Rishabh Kishore S.	1070 - Rishabh Kishore S.	1070 - Rishabh Kishore S.
9 <sup>th</sup>	1070 - Rishabh Kishore S.	1070 - Rishabh Kishore S.	1070 - Rishabh Kishore S.	1070 - Rishabh Kishore S.	1070 - Rishabh Kishore S.
10 <sup>th</sup>	1070 - Rishabh Kishore S.	1070 - Rishabh Kishore S.	1070 - Rishabh Kishore S.	1070 - Rishabh Kishore S.	1070 - Rishabh Kishore S.

\* 10<sup>th</sup> The award for the 10<sup>th</sup> position is reserved for the 10<sup>th</sup> position of the 10<sup>th</sup> position.

Congratulations to ALL the WINNERS and Best Wishes to ALL the Participants!!

Dr. K. Arunachalam  
Director, CEAT

# Congratulations

**Yokeswaranath K**  
III Year / Mechanical Engineering

**FOR WINNING  
BRONZE MEDAL**

Event Name  
Tamilnadu State Grappling  
Wrestling Championships 2022-23  
Category: 77kg Senior mens GI

### Online Certifications

- ❖ During Jul – Dec 2022
  - Total number of NPTEL Certifications from Students: 65
    - Elite + Silver: 1
    - Elite: 10
    - Successful Completion: 54

### Placement, Higher Studies and Entrepreneurship

- In the academic year 2022 - 2023,
  - 81 students are placed in Core and IT companies.
  - Total Offers 81
    - Single Offer - 76
    - Double Offer - 4
    - Triple Offer - 1
  - 1 student from the Department of Mechanical Engineering, has been admitted for degree in Masters / M.E. program.
  - 1 of our student has turned into Entrepreneur.

### Appreciation:

- ❖ Mr.R.Naveen Raj, Assistant Professor, Department of Mechanical Engineering has been recognized as "An Amazing Mentor" by Karpagam College of Engineering for mentoring students to win "Second Prize in Cost Presentation" at SUPRA SAE INDIA 2022.

