



Sri Venkateswara  
College of  
Engineering

Department of Mechanical Engineering

# NOVEMBER 2023 IGNITION NEWSLETTER ISSUE 11

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## About the Department

The department of Mechanical Engineering started its successful journey in 1985 and has been accredited by the NBA since 1998. It is recognized as a research center approved by Anna University, as well. The UG/PG courses offered by the department cover the thrust areas such as Thermal, Design, Manufacturing and Industrial Engineering and is supplemented by well - equipped laboratories, reputed research supervisors and dedicated faculty members. The department has the privilege of housing research cells - namely the Fibre Reinforced Composite (FRP) Cell, Engine Testing and Bio - Fuel Research cell, Tribology research cell, Welding research cell which are used extensively for research and consultancy projects. The department has completed sponsored research projects for a worth of more than 1.5 crore and consultancy projects for more than 75 lakhs. The department has established a center of excellence in Additive Manufacturing and Computer Integrated Manufacturing, which houses the facilities such as Digital Manufacturing, Robotics and HMI based Automation and 3D printers. The department has published more than 150 papers in peer reviewed journals during the last 4 years.

The following programs are offered by the department

1. B.E. Mechanical Engineering
2. B.E. Mechanical and Automation Engineering
3. M.E. Industrial Automation and Robotics

## Vision

To be a leader in Higher Technical Education and Research by providing the state of the art facilities to transform the learners into global contributors and achievers.

## Mission

1. To be renowned for offering Programs in the field of Mechanical Engineering that imparts competent technical knowledge along with skill, research & innovation, leadership and life skills needed for the students to contribute and achieve at global level.
2. To provide quality education encompassing recent technological developments by continuously upgrading the academic infrastructure thereby enhancing the technical knowledge of students, teachers and supporting staff which facilitates technical assistance to industrial and societal needs.
3. To offer need based training to the students in tools relevant to mechanical engineering.
4. To continuously upgrade the research facility and provide a conducive environment leading to continuous learning, development and transfer of knowledge.
5. To inculcate in students minds about Professional ethics, Human Values and Environmental issues in Engineering.



# FACULTY ACHIEVEMENT

*"A Glimpse of Remarkable Achievements"*

It's great to see the active participation of **Mr. R Kaliyanasunder** and **Mr. A Kumarasamy**, Assistant Professors in the Mechanical Engineering Department, in the **Ramco industry** visit organized by the **PALS** team. This engagement further enriches their understanding and contributes to their professional development.



# FACULTY ACHIEVEMENT

*"A Glimpse of Remarkable Achievements"*



**Mr. M. Nishal** and **K. Ram Prasad** co-authored two chapters in the book "**Industry 4.0 Technologies: Sustainable Manufacturing Supply Chains.**" published by Springer Publications. The first chapter is titled "**Digital Supply Chain Paradigm,**" with R. Kumanan as one of the authors. The second chapter is titled "**Performance Metrics in Digital Supply Chain Paradigm,**" with additional authors R. Prashanna Rangan, R. Kumanan, and M. Nishal. The book explores sustainable manufacturing supply chains in the context of Industry 4.0 technologies.

**1. Chapter Title: Digital Supply Chain Paradigm**

**DOI: [https://doi.org/10.1007/978-981-99-4819-2\\_1](https://doi.org/10.1007/978-981-99-4819-2_1)**

**2. Chapter Title: Performance Metrics in Digital Supply Chain Paradigm**


**DOI: [https://doi.org/10.1007/978-981-99-4819-2\\_11](https://doi.org/10.1007/978-981-99-4819-2_11)**



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"A Glimpse of Remarkable Achievements"

**Mr. M. Nishal** and **K. Ram Prasad** co-authored chapters in the book titled "**Performance Metrics in Digital Supply Chain Paradigm**," with additional authors R. Prashanna Rangan, R. Kumanan, and M. Nishal. The book explores sustainable manufacturing supply chains in the context of Industry 4.0 technologies.



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### CERTIFICATE OF APPRECIATION

The Management of Sri Venkateswara College of Engineering, Pennalur, Sriperumbudur, would like to

Congratulate **Dr./Mr./Ms./Prof. K. Ram Prasad** Designation **Assistant Professor**

working in the Department of **Mechanical Engineering** for his/her contribution on receiving a Grant/  
Publication / Book Chapter / Patent Titled **Performance Metrics in Digital Supply Chain**  
**Paradigm, Industry 4.0 technologies; Sustainable Manufacturing Supply Chains, Vol-I with ISBN, Springer**

 DEAN (RESEARCH)

 PRINCIPAL



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Publication / Book Chapter / Patent Titled **Performance Metrics in Digital Supply Chain**  
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 PRINCIPAL

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Springer Series.



DEAN (RESEARCH)



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4.0 technologies; Sustainable Manufacturing Supply chains, Vol-I with ISBN.  
Springer Series



DEAN (RESEARCH)



PRINCIPAL





# FACULTY ACHIEVEMENT

"A Glimpse of Remarkable Achievements"



Congratulations!!! **Dr. S. Gopinath** actively participated in the 7-Day National level Online **Faculty Development Program** on **Outcome Based Education and Essential AI Tools for Teachers**. The program was organized by The Internal **Quality Assurance Cell (IQAC)** and The Department of Computer Science, **St. Albert's College (Autonomous), Ernakulam**, in association with The Kerala State Higher Education Council (KSHEC). Dr. S. Gopinath completed all tasks, assignments, and assessments, securing an **A grade**.

 **St. Albert's College (Autonomous), Ernakulam**  
An Initiative of Archdiocese of Verapoly  
Affiliated to Mahatma Gandhi University, Kottayam

 **The Kerala State Higher Education Council**  
കേരളം ഉന്നതവിദ്യാഭ്യാസസംഘം

## Certificate

This is to certify that

**Dr.S.Gopinath Sri Venkateswara College of Engineering**

has participated in the **7 Day National level Online Faculty Development Program**

on **Outcome Based Education and Essential AI Tools for Teachers**,

organised by **The Internal Quality Assurance Cell (IQAC)**

and **The Department of Computer Science, St. Albert's College (Autonomous), Ernakulam**,

in association with **The Kerala State Higher Education Council (KSHEC)**

from **02 November 2023 to 09 November 2023**

and has successfully completed all the tasks, assignments and assessments and secured an **A grade**.



**Dr. Bijoy V M**

Principal

St. Albert's College (Autonomous), Ernakulam



Certificate ID: raA1W6EyY4



**Dr. Krishnakumar K S**

IQAC coordinator

St. Albert's College (Autonomous), Ernakulam

# FACULTY ACHIEVEMENT

"A Glimpse of Remarkable Achievements"



Congratulations to **Arulkumar Muniyappan** for active participation in the International Workshop on **Research Ethics for Scholars and Librarians** on **November 18th, 2023**, at **KPR Institute of Engineering and Technology**, Avinashi - Coimbatore Road.



**CERTIFICATE**  
OF PARTICIPATION



This is to Certify that

**Arulkumar Muniyappan**

Sri Venkateswara College of Engineering, Sriperumbudur, India

has Participated in the

**International Workshop on  
Research Ethics for Scholars and Librarians**

on November 18<sup>th</sup> 2023

Dr. Babu Balraj  
Associate Professor / Physics, KPRIET

Dr. Madhura Amdekar  
Community Engagement Manager Crossref, USA

Dr. B. Mohanbabu  
Managing Editor, IRMT Journal

Mr. Johanssen Obanda  
Community Engagement Manager, Crossref, USA



# FACULTY ACHIEVEMENT

"A Glimpse of Remarkable Achievements"

Mr. **A. Ranjith Raj** and Mr. **A. Kumaraswamy**, faculty members of the Mechanical Engineering Department, published a book chapter, titled "**INTEGRATING MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE WITH CNC MACHINING: A REVIEW**," in the "**RECENT TRENDS IN MULTIDISCIPLINARY RESEARCH VOLUME - 8**" by **RED'SHINE PUBLICATIONS**, Stockholm, Sweden.



# STUDENTS ACCOLADES

*"Diverse Talents, One Campus Spirit"*

**Rohith Ram R** actively participated in the G20 University Connect Seminar on "The G20 New Delhi Leadership Declaration: Research and Future System for Developing Countries and the Emerging World Order," hosted at Anna University on **15th November 2023**.





# ALUMNI WRITE-UP

*"Stories of Success, Growth, and Impact"*



**Arunram SP**  
(Batch 2015–2019)

I'm Arunram SP (Batch 2015–2019). I joined SVCE as a lateral entry student in 2016. A common student struggles to communicate in English. Now I'm pursuing my career at Amazon (AWS) as a system development engineer in the AI/ML team. The place where I learned most things is SVCE. Let me divide my college life into three phases: academic, leadership, and innovation.

Most colleges or even parents consider the first priority to be academic, but SVCE has proven that the above phases are equally important in every engineer's life. Let me begin with leadership. I have been a part of the Society of Mechanical Engineers (SME) and conducted a lot of guest lectures from industry experts, approached a lot of industries for sponsorships and industrial visits, and last but not least, conducted the IGNITION (Symposium) with my peer students and got the opportunity to lead this cherished event. Especially, this event made me think diplomatically and taught me a lot of lessons (how to handle people politely :P). I take this moment to thank all my professors for their kind support, even in these very hard times. I also organized a college-level cultural event; these things helped me a lot in terms of people and financial management. I have been part of the Entrepreneurship Development Centre, where I learned to see engineering in business. I started thinking about creating a product that goes to the customer directly.

# ALUMNI WRITEUP

*“Stories of Success, Growth, and Impact”*

The second-best thing about SVCE is its academic life. I have practiced my engineering on industry-standard equipment and machines (robots, CNC, high-tech welding machines, and equipment). I have spent half of my time in vibration, thermal, manufacturing, and biotechnology labs. Of course, because of the professors and supporting staff in the labs! You can see how he conducted events and spent his life in labs. The freedom that I got in my college days was phenomenal, and you can use your libraries and labs after your college hours if you are willing. The mantra is to keep an eye on your attendance and get good marks internally

You can think of what we can do with a bachelor degree for innovation, but SVCE sculptured an engineer who doesn't follow the SOP but instead creates his own SOP. This innovation phase in SVCE gave me an exceptional memory of this. I got moral support, and I even got financial support to attend conferences in other parts of our country. This college created a platform to showcase my technical research papers at international and national conferences. You can think of these things every place can give, but SVCE always stood out of the imagination; they have guided and supported me to apply for a patent with full financial support. They sponsored my product to get patented and tested in a certified laboratory. I mentioned entrepreneurship earlier; this center gave me the idea to think of myself as a product manufacturing firm instead of an engineering student. I designed a product that can carry your stuff without plastic components. I'm still surprised at how I was before I joined SVCE. The place where I enjoyed, learned, and experienced a lot I take this moment to convey my gratitude to all of my professors, supporting staff, and peer students. Thanks for creating the best memory of my life.



# EDITORIAL TEAM



**Dr. S. RAMESH BABU**  
Professor & Head  
*Mechanical Engineering*



**Dr. S. MUNIRAJ**  
Assistant Professor  
*Mechanical Engineering*



**Mr. A. Ranjith Raj**  
Assistant Professor  
*Mechanical Engineering*

# STUDENT EDITORIAL TEAM



**Mr. Lohesh M V**  
IV Year  
*Mechanical Engineering*



**Mr. Raviram R**  
IV Year  
*Mechanical Engineering*



**Mr. Kiran Kumar D P**  
III Year  
*Mechanical Engineering*



**Mr. Mithun Aravind O**  
III Year  
*Mechanical Engineering*



**Mr. G Bharath Kumar**  
II Year  
*Mechanical Engineering*



**Mr. Bharath Vigneshwar R**  
II Year - Mechanical and  
*Automation Engineering*



**Mr. M Sanjay**  
I Year  
*Mechanical Engineering*



**Mr. Lithesh C**  
I Year - Mechanical and  
*Automation Engineering*