



Sri Venkateswara  
College of  
Engineering

Department of Mechanical Engineering

DECEMBER 2023

# IGNITION

NEWSLETTER

ISSUE  
12



**Inside this Issue**

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# DISCOVERY DIGEST

*Navigating the Frontiers”*



In the cutting-edge field of materials engineering, a pivotal study by **Sachithanathan J, Raviram R, Mohandass M,** and **Gurusamy V**, focuses on the application of Cold Metal Transfer (CMT) cladding on 316L stainless steel. This technique holds immense promise, especially in industries that demand high corrosion resistance, like the petrochemical, marine, and nuclear sectors.

The study meticulously examines the influence of welding parameters on cladding quality, utilizing advanced statistical tools for analysis. The resulting predictive model from this research is a significant breakthrough, offering precise control over crucial aspects of the welding process. This innovation paves the way for enhanced product durability and performance in various industrial applications, marking a significant stride in material technology and industrial manufacturing processes.



**Reference:** *Establishing Interconnections and Predictive Modelling for CMT Cladding on 316L Stainless Steel*, <https://doi.org/10.12688/materialsopenres.17617.1>

# FACULTY ACHIEVEMENT

"A Glimpse of Remarkable Achievements"

Kudos to **Mr. Arulkumar Muniyappan** for actively participating in the 12-hour online lecture series on "Introduction to Characterisation of Materials" by Dr. Richard T Bafer.



Congratulations to **Mr. Arulkumar M** for presenting a paper on "Optimization and experimental investigation of textured and coating parameters to improve the tribological performance of biomaterials" at the "National Conference on Recent Advances in Mechanical Sciences" - NCRAMS'23



# FACULTY ACHIEVEMENT

*"A Glimpse of Remarkable Achievements"*

Congratulations to Dr. S. Natarajan for successfully participating and completing the Three days Online International Workshop on "Machine Learning Approaches for Engineering Applications" from 18-12-2023 to 20-12-2023 at Research and Publication Division, Scholars Gate - Research Training Institute, Tamil Nadu, India.



Congratulations to Dr. S. Natarajan for participating in the Regional Meet of Institutions' Innovation Council, MoE's Innovation Cell, held on 1st Dec. 2023 at B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai. 2023 to 20-12-2023 at Research and Publication Division, Scholars Gate - Research Training Institute, Tamil Nadu, India.



# FACULTY ACHIEVEMENT

*"A Glimpse of Remarkable Achievements"*



Congratulations to Dr. S. Gopinath for successfully completing the Innovation Ambassador (IA) training Foundation Level, consisting of 15 sessions totaling 30 contact hours. The training was conducted online by MoES Innovation Cell & AICTE during the IIC calendar year 2022-23 at Sri Venkateswara College of Engineering, Tamil Nadu.



# FACULTY ACHIEVEMENT

"A Glimpse of Remarkable Achievements"



Congratulations to Dr. Prem Ananth M for participating in the paper presentation titled "Optimization and experimental investigation of textured and coating parameters to improve the tribological performance of biomaterials." The presentation took place at the "National Conference on Recent Advances in Mechanical Sciences" - NCRAMS' 23 on December 15-16, 2023, organized by the Department of Mechanical Engineering at Rajalakshmi Engineering College, Thandalam, Chennai.



# FACULTY ACHIEVEMENT

*"A Glimpse of Remarkable Achievements"*



Congratulations to Mr. M. Balakumar, Assistant Professor at Sri Venkateswara College of Engineering, for the Certificate of Achievement. Mr. M. Balakumar effectively participated in the Five-Day Faculty Development Programme on AI Tools for streamlining Academic Research and Paper writing. The program was conducted online from December 05th to 09th, 2023, and organized by Scientific Research Reports, Chennai, India.

## CERTIFICATE OF ACHIEVEMENT



**Mr.M.BALAKUMAR**

**Assistant Professor**

**SRI VENKATESWARA COLLEGE OF ENGINEERING**

has effectively participated in the Five Day Faculty Development Programme on **AI Tools for Streamlining Academic Research and Paper Writing** conducted online during December 05th to 09th, 2023, organized by Scientific Research Reports, Chennai, India.



*M. K. Srinivasan*  
Chief Editor  
Dec 09, 2023  
[www.srrbooks.in](http://www.srrbooks.in)

FDP Reg ID:  
SRR42037

# STUDENTS ACCOLADES

*"Diverse Talents, One Campus Spirit"*

Congratulations to **Mr. P. Raghu, D. Pravin, A. Rajeshkumar, and S.S. Sriram** belonging to III Year, participated in a paper entitled **"Design and fabrication in four-wheel steering mechanism used in heavy traffic conditions"** at the **"National Conference on Recent Advances in Mechanical Sciences"** - NCRAMS' 23. The conference took place on **15th and 16th December 2023**, organized by the Department of Mechanical Engineering at **Rajalakshmi Engineering College**, Thandalam, Chennai - 602 105.





# STUDENTS ACCOLADES

*"Diverse Talents, One Campus Spirit"*

Congratulations to **Mr. S. Devaraj** for receiving the "**Best Paper Award**" at the "**National Conference on Recent Advances in Mechanical Sciences**" - NCRAMS'23. The paper, titled "**Processing and Characterization of Medical Implants/Devices by Surface Modification,**" showcased outstanding research contributions. The conference took place on **15th and 16th December 2023**, organized by the Department of Mechanical Engineering at **Rajalakshmi Engineering College**, Thandalam, Chennai - 602 105.



# EVENTS

*"Recapping the Buzzworthy Happenings"*

Kudos to **Dr. S. Natraj** for delivering a lecture on "**Mentor-Mentee**" and to **Dr. S. Ilaiyavel** for the impactful session on "**Impact**" at the **IIC Regional Meet 2023**.



# EVENTS

*"Recapping the Buzzworthy Happenings"*

Great initiative by **Dr. S. Ilaiyavel** for organizing and hosting the **Mechanical 1998 batch alumni meet** at our college on **December 15**. Kudos!



# PLACEMENTS

"Opening Doors to Career Opportunities"

*Congratulations!*



**Tharun Rajan S**  
(2127201001075)



**VARADHARAJAN C N**  
(2127201001077)

Congratulations to **Tharun Rajan S** (2127201001075) and **VARADHARAJAN C N** (2127201001077) on securing placements at **Royal Enfield**. Best wishes for your role as **Graduate Engineer Trainees** at the Royal Enfield Global Headquarters in **Chennai!**



# PLACEMENTS

"Opening Doors to Career Opportunities"

*Congratulations!*



**GIRI R**  
(2127201001016)



**Vignesh D**  
(2127201001079)



**Pradeep B K**  
(2127201001050)

Congratulations to our final year students **Giri R, Vignesh D, and Pradeep B.K**, who have been placed in **M/S Zoho, Chennai** on **December, 2023** as **Support debug engineer**.



# PLACEMENTS

"Opening Doors to Career Opportunities"

*Congratulations!*



**Gokula Krishnan R**  
(2127201001018)

Congratulations to **Gokula Krishnan R**, a final year student, for securing an **internship cum Graduate Engineer Trainee (GET)** position at M/S **Brakes India Private Ltd.** in **December 2023.**



# NPTEL CHRONICLES

"Recognizing Outstanding Performance"

Congratulations to **Dr. S. Ponnuvel** for achieving **Elite** status with a **Gold medal** in the "**Accreditation and Outcome Based Learning**" course, scoring an impressive **96%** during the **8-week** duration (**Aug-Oct 2023**).



**Elite**  
**NPTEL Online Certification**  
(Funded by the MoE, Govt. of India)

This certificate is awarded to  
**S PONNUVEL**  
for successfully completing the course

**Accreditation and Outcome Based Learning**

with a consolidated score of **96 %**

Online Assignments	24.58/25	Proctored Exam	71.14/75
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Total number of candidates certified in this course: 1356

Aug-Oct 2023  
(8 week course)

Indian Institute of Technology Kharagpur

swayam

Prof. Maimanti Banerji  
Coordinator, NPTEL  
IIT Kharagpur

Congratulations to **Dr. S. Ramesh Babu** for achieving **Elite** status with a **Gold medal** in the "**Automation in Manufacturing**" course, scoring an outstanding **93%** during the **12-week** duration (**Jul-Oct 2023**).



**Elite**  
**NPTEL Online Certification**  
(Funded by the MoE, Govt. of India)

This certificate is awarded to  
**S RAMESH BABU**  
for successfully completing the course

**Automation in Manufacturing**

with a consolidated score of **93 %**

Online Assignments	24.38/25	Proctored Exam	69/75
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Total number of candidates certified in this course: 1610

Jul-Oct 2023  
(12 week course)

Indian Institute of Technology Guwahati

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Prof. L. V. Bharat  
Head, Centre for Educational Technology  
NPTEL, Coordinator, IIT Guwahati

Congratulations to **Dr. S. Ramesh Babu** for achieving **Elite** status with a **Gold medal** in the "**Accreditation and Outcome Based Learning**" course, scoring an impressive **91%** during the **8-week** duration (**Aug-Oct 2023**).



**Elite**  
**NPTEL Online Certification**  
(Funded by the MoE, Govt. of India)

This certificate is awarded to  
**S RAMESH BABU**  
for successfully completing the course

**Accreditation and Outcome Based Learning**

with a consolidated score of **91 %**

Online Assignments	24.58/25	Proctored Exam	66.5/75
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Total number of candidates certified in this course: 1356

Aug-Oct 2023  
(8 week course)

Indian Institute of Technology Kharagpur

swayam

Prof. Maimanti Banerji  
Coordinator, NPTEL  
IIT Kharagpur

Congratulations to **Dr. U. Magarajan** for achieving **Elite** status with a **Gold medal** in the "**Mechanical Behavior of Polymers and Composites**" course, scoring an excellent **90%** during the **12-week** duration (**Jul-Oct 2023**).



**Elite**  
**NPTEL Online Certification**  
(Funded by the MoE, Govt. of India)

This certificate is awarded to  
**U MAGARAJAN**  
for successfully completing the course

**Mechanical Behavior of Polymers and Composites**

with a consolidated score of **90 %**

Online Assignments	23.19/25	Proctored Exam	67/75
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Total number of candidates certified in this course: 60

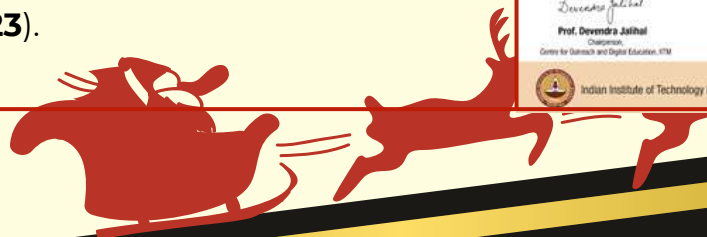
Jul-Oct 2023  
(12 week course)

Indian Institute of Technology Madras

swayam

Prof. Devendra Jalihal  
Chairperson,  
Centre for Research and Digital Education, IITM

Prof. Andrew Thangaraj  
NPTEL, Coordinator  
IIT Madras



# NPTEL CHRONICLES

"Recognizing Outstanding Performance"

Congratulations to **Mr. Ram Prasad K** for achieving Elite status in the "**Work System Design**" course, scoring an impressive **75%** during the **12-week** duration (**Jul-Oct 2023**)



**Elite**  
**NPTEL Online Certification**  
(Funded by the MoE, Govt. of India)

This certificate is awarded to  
**RAM PRASAD K**  
for successfully completing the course  
**Work System Design**

with a consolidated score of **75 %**

Online Assignments	21.56/25	Proctored Exam	53.5/75
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Total number of candidates certified in this course: **1099**

Prof. Kaushik Ghosh, Professor (Chemistry), Coordinator (CC)

Jul-Oct 2023  
(12 week course)

Prof. Ranjana Pathania, Professor (BSE), Coordinator (NPTEL)

Indian Institute of Technology Roorkee



Congratulations to **Mr. Maheswaran M** for achieving **Elite** status in the "**Metal Additive Manufacturing**" course, scoring an impressive **75%** during the **12-week** duration (**Jul-Oct 2023**).



**Elite**  
**NPTEL Online Certification**  
(Funded by the MoE, Govt. of India)

This certificate is awarded to  
**MAHESWARAN M**  
for successfully completing the course  
**Metal Additive Manufacturing**

with a consolidated score of **75 %**

Online Assignments	23.13/25	Proctored Exam	52/75
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Total number of candidates certified in this course: **396**

Prof. B. V. Ratish Kumar, Chairman, Centre for Continuing Education, IIT Kanpur

Jul-Oct 2023  
(12 week course)

Prof. Satyaki Roy, NPTEL Coordinator, IIT Kanpur

Indian Institute of Technology Kanpur



Congratulations to **Mr. Nishal M** for earning the Elite status in the "**Work System Design**" course with a commendable score of **65%** during the **12-week** period (**Jul-Oct 2023**).



**Elite**  
**NPTEL Online Certification**  
(Funded by the MoE, Govt. of India)

This certificate is awarded to  
**NISHAL M**  
for successfully completing the course  
**Work System Design**

with a consolidated score of **65 %**

Online Assignments	23.44/25	Proctored Exam	42/75
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Total number of candidates certified in this course: **1099**

Prof. Kaushik Ghosh, Professor (Chemistry), Coordinator (CC)

Jul-Oct 2023  
(12 week course)

Prof. Ranjana Pathania, Professor (BSE), Coordinator (NPTEL)

Indian Institute of Technology Roorkee



Congratulations to **Mr. Gajendran M** for successfully completing the "**Selection of Nanomaterials for Energy Harvesting and Storage Application**" course with a score of **61%** in the **4-week** duration (**Jul-Aug 2023**).



**Elite**  
**NPTEL Online Certification**  
(Funded by the MoE, Govt. of India)

This certificate is awarded to  
**GAJENDIRAN M**  
for successfully completing the course  
**Selection of Nanomaterials for Energy Harvesting and Storage Application**

with a consolidated score of **61 %**

Online Assignments	21.67/25	Proctored Exam	39/75
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Total number of candidates certified in this course: **143**

Prof. Kaushik Ghosh, Professor (Chemistry), Coordinator (CC)

Jul-Aug 2023  
(4 week course)

Prof. Ranjana Pathania, Professor (BSE), Coordinator (NPTEL)

Indian Institute of Technology Roorkee





# NPTEL CHRONICLES

"Recognizing Outstanding Performance"

Congratulations to **Mr. Saravanan A** for achieving an **Elite** status with a score of **61%** in the "**Foundations of Cognitive Robotics**" course during the **4-week** duration (**Jul-Aug 2023**).



**Elite**  
**NPTEL Online Certification**  
(Funded by the MoE, Govt. of India)

This certificate is awarded to  
**SARAVANAN A**  
for successfully completing the course  
**Foundations of Cognitive Robotics**

with a consolidated score of **61 %**

Online Assignments	20/25	Proctored Exam	40.5/75
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Total number of candidates certified in this course: **90**

Prof. B. V. Ratish Kumar  
Chairman, Centre for Continuing Education  
IIT Kanpur

Jul-Aug 2023  
(4 week course)

Prof. Satyaki Roy  
NPTEL, Coordinator  
IIT Kanpur

Indian Institute of Technology Kanpur

swayam

Congratulations to **Mr. G Kirubakaran** for successfully completing the "**Mechanical Behavior of Polymers and Composites**" course with a score of **58%** during the **12-week** duration (**Jul-Oct 2023**).



**NPTEL Online Certification**  
(Funded by the MoE, Govt. of India)

This certificate is awarded to  
**MR G KIRUBAKARAN**  
for successfully completing the course  
**Mechanical Behavior of Polymers and Composites**

with a consolidated score of **58 %**

Online Assignments	19.53/25	Proctored Exam	38.5/75
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Total number of candidates certified in this course: **60**

Prof. Devendra Jalihal  
Chairman,  
Centre for Outreach and Digital Education, IITM

Jul-Oct 2023  
(12 week course)

Prof. Andrew Thangaraj  
NPTEL, Coordinator  
IIT Madras

Indian Institute of Technology Madras

swayam



# ALUMNI WRITE-UP

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



Two years since I graduated with my B.E. in Mechanical Engineering from SVCE, the memories of campus life still hold a vibrant warmth. SVCE wasn't just an institution; it was a Tool that shaped my technical knowledge, career aspirations, and Created lifelong friendships.

Life at SVCE wasn't just about textbooks and exams. It was a blend of Various Elements. I am a proud cadet of the NCC-Army wing, which built my discipline and teamwork. The national-level camps I attended nurtured my confidence and

leadership abilities. The dedicated machine shop, thermal laboratory, and advanced equipment's provided spaces to experiment, innovate, and dig deeper into the world of mechanical engineering.

SVCE's commitment to career development was Tireless. The SVCE Placement Cell was a source of guidance, offering technical and soft-skill trainings that equipped us with the tools to navigate the professional landscape. The targeted industrial visits and technical workshops opened doors to valuable internships bridging the gap between theory and practice. The mentorship program, which paired me with faculty advisors Mr. Sivaramapandian J, Dr. Muniraj and Dr. Natarajan and More professors to mention provided invaluable personal guidance throughout the College.



# ALUMNI WRITE-UP

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

The faculty at SVCE were more than just instructors; they were mentors who ignited our passion for engineering. Their vast knowledge, research contributions, and dedication to student success were truly inspiring. I want to express my gratitude to the entire Mechanical Engineering faculty and our HOD Dr. Ramesh Babu for their expertise and unwavering support.

Today, as a Mechanical Design Engineer at VA Tech Wabag, the skills I honed, the confidence I gained, and the network I built during my time at SVCE have been instrumental in my growth. Each day, I apply the knowledge gained in those labs and classrooms, the lessons learned from those dedicated faculty members, and the resilience fostered by the vibrant campus life.

I wish to meet every Professor in my Department Personally who made me into the professional I am today. However, I express my Heartfelt gratitude and wishes for all of them. Please continue to inspire and Create more Mechanical engineers.



*that's a*  
**WRAP**



# 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*