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Shri. T. K. Karuppannaswamy, Vice – Chairman

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Dr. R. J. Golden Renjith Nimal,  
Head of the Department, Mechanical Engineering

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Prof. P. Rajkumar, Assistant Professor, Mechanical

### NATIONAL ADVISORY COMMITTEE

Dr. S. Aravindan, Professor, IIT Delhi.  
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Dr. I. A. Palani, Professor, IIT Indore, Madhya Pradesh.  
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Dr. J. Bensam Raj, Professor, Muthayammal Engg. College, Rasipuram, Tamil Nadu.  
Dr. K. Jayakrishna, Professor, VIT Vellore, Tamil Nadu.  
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Dr. B. Ravisankar, Professor, Bapatla Engg. College, Andhra Pradesh.  
Dr. S. Jenoris Muthiya, Professor, Dayananda Sagar College of Engineering, Bengaluru, Karnataka.  
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Dr. D. F. Melvin Jose, Professor, Al-Azhar College of Engineering & Technology, Idukki, Kerala.  
Dr. S. Sudhakar, Principal Scientist, CSIR-CECRI, Karaikudi, Tamil Nadu.

### INSTITUTE COMMITTEE

Dr. S. Nithiyanandam, Professor / Mech  
Prof. S. Karthikeyan, Assistant Professor / Mech  
Prof. L. Nirmal Raj, Assistant Professor / Mech  
Prof. B. Anand, Assistant Professor / Mech  
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Prof. P. A. Nigal Ashik, Assistant Professor / Mech  
Prof. R. Mahendran, Assistant Professor / Mech  
Prof. P. Marshal Raj, Assistant Professor / Mech

## ABOUT THE INSTITUTION

Jai Shriram Engineering College (JSREC) was endowed by Shenthil Velevan Trust in the year 2009 with a motto of equipping and implanting the seed of higher education approved by All India Council for Technical Education (AICTE), affiliated to Anna University, Chennai and accredited by NAAC. The Institution is functioning with a motive of taking higher education to the rural people at all levels of economic platform. The institution offers B.E., B.Tech, M.E. and M.B.A. programmes. The only Institution managed by global level machine building Industry. It follows student centric teaching learning process that focuses on overall grooming of every student for the dynamic needs of their specialization.

## ABOUT THE DEPARTMENT

The department was started in the year 2009 for the undergraduate program in B.E Mechanical Engineering with an intake of 60 students. The department offers high quality education to the students through very good infrastructure, laboratories, and faculty and by means of exposure to latest technologies. The department has highly qualified and well experienced teaching staff, who take extreme care for the development of the careers of the students. The department is very much oriented towards research and development as well as in consultancy. The department is in the verge of establishing centre of excellence with the sole purpose of conducting high quality research and development activities in the latest areas such as hydraulics, materials (smart and nano), robotics, vibrations and technology and automation.

### CONTACT ADDRESS

The Convenor,  
DAM'2k22  
Department of Mechanical Engineering,  
Jai Shriram Engineering College,  
Dharapuram Road, Avinashipalayam, Tiruppur-638 660. India.

### CONTACT NUMBERS:

+91 9994351938 / +91 9965250352 / +91 9677871623

E-MAIL ID: [nwdam2022@gmail.com](mailto:nwdam2022@gmail.com)

## Three day National Workshop on Developments in Additive Manufacturing (DAM'2k22)

22<sup>nd</sup> – 24<sup>th</sup> September 2022  
(Virtual mode)



### Organized by

The Department of Mechanical Engineering



**JAI SHRIRAM**  
ENGINEERING COLLEGE



Jointly with



Barani Group Companies  
Coimbatore, India.

In Technical Collaboration with

**Robo -Vision Center of Excellence**  
**Jai Shriram Engineering College**  
Avinashipalayam, Tirupur-638 660.

## ABOUT THE BARANI GROUP COMPANIES

Barani is a prominent manufacturer, supplier and exporter of hydraulic presses and SPMs to leading brake liner manufacturers, clutch, axles, brakes and steel wheel manufacturers in India. The Coimbatore-based Barani Group Companies has become one of the global leaders in manufacturing custom-built hydraulic presses. The home-grown company has bagged some substantial overseas orders in recent times and is looking to cementing its place as one of the world leaders in the hydraulic press manufacturing field. Now Barani hydraulics is a perfect example for 'Make-in-India' programme, considering the global customer base it has developed in different sectors. The company designs and develops all its machines in-house and delivers outstanding product quality to an extent that they have been approved by the most stringent Japanese and European standards, Thus paving the way for its becoming an increasingly popular and reliable brand for hydraulic presses at the global level.

## ABOUT THE WORKSHOP

The progress of Additive Manufacturing (AM) processes is ever increasing with the development of the digital platform in the manufacturing sector, which is essential for the growth of modern technologies. This workshop is primarily designed for fundamental understanding of different additive manufacturing technologies for realizing the metallic and non-metallic objects.

## PROGRAMME CONTENTS

- Introduction to Additive Manufacturing
- CAD for AM
- Material Science aspects of AM
- Powder based AM process
- Droplet based 3D printing
- Fused Deposition Modelling (FDM)
- Laminated Object Manufacturing
- Stereolithography
- Micro and Nano AM process
- Polymer based 3D printing
- Metal 3D printing
- Modelling of fusion based AM process
- Powder bed melting based AM process
- Applications of additive manufacturing

## IMPORTANT DATES

Last Date of Registration: **17.09.2022**

Confirmation of Registration: **19.09.2022**

## GUIDELINES

- The authors are requested to submit the proof of payment to: [nwdam2022@gmail.com](mailto:nwdam2022@gmail.com)
- 80% of attendance is mandatory for the issue of certificate.
- Participants are asked to register using the following link

<https://forms.gle/vjvTnJF9gpPX7vPYA>



## REGISTRATION FEE

Delegates	Registration Fees
Parent Institution	Rs. 150
UG Students, PG Scholars / Research Scholars/Faculty	Rs. 200
Industry	Rs. 250

The delegate's registration fee covers cost of Workshop sessions and hard copy of the certificate. Registration fee is payable by DD in favor of THE ORGANIZING SECRETARY-CSE JAY SHRIRAM GROUP OF INSTITUTIONS payable at Tirupur or by UPI Money transfer or by cash.

For money transfer:

**A/C no: 0099053000011494**

**BANK NAME: SOUTH INDIAN BANK**

**BRANCH NAME: KODUVAI**

**IFSC CODE: SIBL0000099**

For UPI transactions, Scan below QR code



After completion of registration process, kindly join in our whats App group for further communications.



Please log on to our website for more details.

