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Director, IITRAM
- **Dr. N. N. Bhuptani**
Registrar, IITRAM

Coordinators:

Dr. Navneet Khanna

Assistant Professor, Department of Mechanical Engineering
IITRAM, Ahmedabad

Mr. A. C. Mathur

Former President, SSME and Ex. Group Director,
SAC/ISRO, Ahmedabad

Sponsors:

Those who are interested in sponsoring the event may please
contact coordinators.

Exhibition:

There will be a display of parts manufactured by various 3D
printing techniques in addition to live demonstration of a 3D
printer. For the exhibition, please contact coordinators.

Student Coordinators:

Mr. Chetan Agrawal

Mr. Prassan Shah

Mr. Jay Airao

Mr. Smit Mistry

Contact:

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Advisory Committee:

- | | |
|-----------------------------|---|
| Mr. H. R. Kansara | Dy. Director, SAC, ISRO,
Ahmedabad |
| Mr. A. C. Mathur | Former President, SSME and
Ex. Group Director, SAC/ISRO,
Ahmedabad |
| Mr. C. P. Dewan | Group Director, SAC/ISRO |
| Dr. B. S. Munjal | President, SSME |
| Mr. Manoj Thummar | Managing Director, Castech
Foundries Private Limited |
| Mr. Vijay Zala | Executive Head R & D, Jyoti
Automation Ltd., Rajkot |
| Mr. C. R. Dhariawala | Works Manager, Austin
Engineering Company Ltd. |
| Mr. Ketan Panchal | Head of Marketing, Quality
Control - 3D Printing, IGTR |
| Mr. Amol Kayande | Manager- Sales & Marketing
SARTO Electro Equip. Pvt. Ltd. |
| Mr. Yash Rane | Director, Product & Business
Development, Chiezel Prints
Mfg. Pvt. Ltd., Pune |
| Dr. Sanjay Upadhyay | Associate Professor,
IIT, Roorkee |

Organizing Committee:

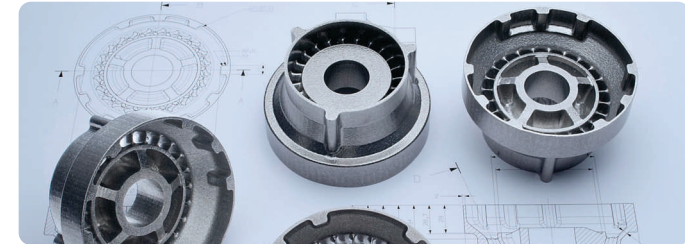
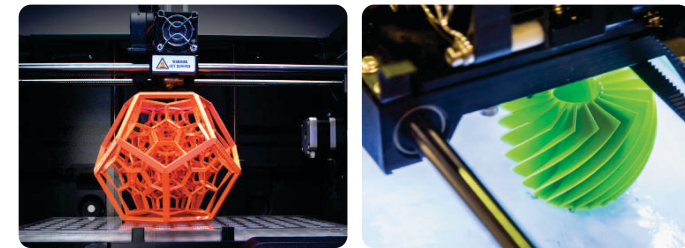
- Dr. Ajit Kumar Parwani**, Assistant Prof., IITRAM
Dr. Dileep Kumar Gupta, Assistant Prof., IITRAM
Dr. Pramod Bhingole, Assistant Prof., IITRAM
Dr. Kumar Abhishek, Assistant Prof., IITRAM
Dr. PL Ram Kumar, Assistant Prof., IITRAM
Dr. Saurabh Kumar Yadav, Assistant Prof., IITRAM
Mr. Ulkesh Desai, Secretary, SSME
Mr. A. V. Pathak, Member, SSME
Mr. Ashish Soni, Life Member, SSME
Mr. Amit Agrawal, Member, SSME
Mr. Deepak Singh, Member, SSME
Mr. Hemant Arora, Life Member, SSME
Mr. Jigar Gandhi, Member, SSME
Mr. R. M. Shah, Life Member, SSME
Mr. Raju Nipane, Life Member, SSME
Mr. Ravi Verma, Member, SSME
Mr. S. S. Gill, Member, SSME
Mr. Sammir Sakhare, Member, SSME
Mr. Vimal Shah, Life Member, SSME
Dr. V. K. Singh, Member, SSME

TWO DAY

AWARENESS SEMINAR ON

Additive Manufacturing Technology and its Applications

(13 - 14 April, 2018)



Organized by



Department of Mechanical Engineering
Institute of Infrastructure Technology
Research and Management

(An Autonomous University Established by Government of Gujarat)
Near Khokhara Circle, Maninagar East,
Ahmedabad, Gujarat 380026
Tel.: 079-6777 5488 / 6777 5499
www.iitram.ac.in

In association with:



Space Society of Mechanical Engineers
(SSME)

Space Applications Centre,
ISRO, Ahmedabad

About the IITRAM:

Institute of Infrastructure Technology Research and Management (IITRAM) has been established by the Government of Gujarat as an Autonomous University and has been mandated to bring about significant change in Engineering Education with respect to Technical and Managerial knowledge in the area of Infrastructure. The objective of this Institute is to serve as a Center of excellence in Research and Teaching in all areas pertaining to Infrastructure, and the Institute has a vision of acquiring a status of National importance in Infrastructure and related areas.

About Department:

The Department of Mechanical Engineering at IITRAM, Ahmedabad started right after one year of the inception of campus in 2014 and has been offering B.Tech. Mechanical Engineering, M. Tech. Mechanical (Industrial Infrastructure) and Doctoral Programs. The students of all tiers have access to both expert faculty members in the department and institute supported industry engagement opportunities. The department has extensive laboratory and infrastructural facilities for teaching, training, research and development.

Department researchers are working in collaboration with researchers of Swinburne University, Australia on the Additive Manufacturing of metallic parts.



Certificate will be awarded to the participants after successful completion of the course.

Theme of the Awareness Seminar:

This awareness seminar on “Additive Manufacturing Technology and its Applications” is designed to help in knowledge sharing and value addition of not only the professional mechanical engineers but also of the engineering college faculty and Scientists/ Engineers working in various research organizations. The sharing of knowledge would help the Engineers and industrialists in gearing up for the future technical challenges.

Space/Aerospace worthy components essentially require multiple machining processes and their combination for realization e.g. CNC Milling, EDM, Wire cut etc. Typically 90% of the material is removed from a solid block to obtain the final desired shape. These processes need special tools to be made for each part. At times due to process limitations, tool approach, miniaturized features etc., designers are compelled to split the job into two or more pieces. This affects functional performance particularly of the microwave components and also increases weight of assembly because of increased fasteners.

3D printing technology creates three dimensional products similar to a standard desktop 2D paper printing process. It is a type of additive manufacturing processes which will give industries new product design flexibilities and will shorten time to market. Still in developing stage, this technology has created wide interests for various applications from rapid prototyping to end use products. With minimum material wastage which is unavoidable in conventional fabrication techniques like casting, machining and drilling, 3D printing provides an economical way for several industries varying from automobile to Aerospace. Since this technology minimizes gap between design modification and product fabrication, it has made the product realization and change response more reactive and fast.

Additive Technologies like Direct Metal Laser Sintering (DMLS), Laser Micro Sintering may be explored in realizing complex metal parts in single piece without tooling, for quicker realization of complex jobs and for ease of fabricating miniaturized jobs. Modern products are more demanding in terms of dimensional accuracies, surface finish, micro structural integrity. These additive techniques are able to meet some of the requirements but yet a lot is to be done to meet the standards for quality components

The seminar will contain invited talks from professionals and academicians from various Institutes like ISRO, IIT's, IITRAM, IGTR and other industries.

About SSME:

The Space Society of Mechanical Engineers (SSME) came into existence on April 6, 1998 at Space Applications Centre, ISRO, Ahmedabad. It is a registered society under Govt. of Gujarat. The basic aim of the Society is to promote the awareness about technological advancements in the field of Space Mechanical & allied engineering. The SSME organizes various technical lectures, demos and seminars on various advanced topics in SAC campus and at other institutions in collaboration with research organizations, academic institutes and leading industries for the up gradation of technical knowledge and value addition of its members, Engineering colleges faculty members & students, professional working in industries and R&D institutions. The SSME is completing 30 years of its successful existence on 6th April, 2018. The society has planned various technical activities during the current year.

Accommodation:

Suitably furnished accommodation will be made available if requested in advance, in the hostels of the IITRAM for out stationed candidates on twin sharing basis on nominal charges.

Key Dates:

Dates of Seminar : 13 to 14 April-2018
Last date of Registration : 11-April-2018
Announcement of : 12-April-2018

Short listed candidates

Interested candidates are requested for on-line registration at given link on IITRAM website.

Eligibility:

All practicing engineers working in private, public, government organizations/industries, faculties, research scholars and students from academic institutions are eligible to apply.

Registration Fee:

- Industry Professionals ₹ 1500/-
- Faculties ₹ 1000/-
- Individuals/Students/SSME Members ₹ 500/-

For registration and payment details, Please follow the link: <http://iitram.in/workshop/>