



**N.B.K.R.**

**Institute of Science & Technology**

(Autonomous) (Accredited by NBA Tire-1 & NAAC with 'A' Grade)



## AICTE Training & Learning (ATAL) Academy Sponsored

One Week Faculty Development Program (Offline)

# Finite Element Applications in Additive Manufacturing

(04-09, Nov 2024)

## PROGRAM SCHEDULE

Inauguration on 04.11.2024, Time: 09.00 AM

**DAY-1: 04.11.2024**



**National Educational Policy in Technical Education**

**Prof. K. Hemachandra Reddy**

JNTUA Ananthapuramu



**Cyber Physical System in additive manufacturing**

**Prof. Devadula Sivasrinivasu**

IIT Madras

**DAY-2: 05.11.2024**



**Fundamentals of Finite Element Analysis**

**Prof. Kona Ramji**

Andhra University



**Applications of FEA in Additive Manufacturing**

**Prof. Kona Ramji**

Andhra University

**DAY-3: 06.11.2024**



**Design for Additive Manufacturing & Additive Manufacturing in Complex Oral and Maxillofacial Surgeries**

**Prof. Y Ravi Kumar**

NIT Warangal



**Print to Perform**

**Sri. Kovelakonda Dinesh Tej**

Dassault Systèmes India PVT Limited

**DAY-4: 07.11.2024**



**Sustainability in Additive Manufacturing**

**Prof M Ravi Sankar**

IIT Tirupati



**FEA in Additive Manufacturing and Topology Optimization**

**Sri. K. Ravi Sankar**

Ansys India PVT limited

**DAY-5: 08.11.2024**

**Industrial Visit: Satish Dhawan Space Centre  
SHAR, Sriharikota**



**Characterization of Additive  
Manufactured Components**

**Prof. K. Siva Prasad**  
NIT Trichy

**DAY-6: 09.11.2024**



**Fundamentals and Challenges in  
Wire Arc Additive manufacturing**

**Dr. Murugaiyan Amirthalingam**  
IIT Madras

**Valedictory Function**

### **Registration:**

Participants Can Sign up and register for the program in AICTE ATAL Website: <https://atalacademy.aicte-india.org/signup> (**ATAL Application number: 1716920489**)

### **Target Group: -**

Assistant Professors/Associate Professor/Ph.D. Scholars/PG students are eligible and maximum 50 participants from the Higher Education Institutions. Participants should be nominated by the respective Heads of Institutions.

### **Evaluation of participants:**

Candidates would be eligible to receive a certificate on achieving at least 70% cumulated weightage in the following aspects in the weightage mentioned.

- Attendance – minimum 80% attendance essential. 100 % attendance - (individual) - weightage 20%
- One assessment, - combination of MCQs/short answer type/reasoning based, etc. -(Individual) – weightage 10%
- 3-4 Page Article Summary/per Team - (Team & Individual)- - weightage30%
- Output of practical sessions -(Individual)-weightage15 %
- Report/outcome of Industrial visit- (Team) at the last session -weightage10%
- Reflection Journal - (Individual) - at the last session -weightage15%

### **Organized by**

**Prof. CH R. Vikram Kumar & Prof. P. Srihari Reddy**  
(Coordinators)

**DEPARTMENT OF MECHANICAL ENGINEERING**

9490922975, [mehod@nbkrist.org](mailto:mehod@nbkrist.org), [www.nbkrist.org](http://www.nbkrist.org)