

INSTITUTION:

Established in the year 1997, GMRIT has come a long way since its inception and has carved a niche for itself in the field of Technical education. It has placed among the top 75 and aims to be counted among the top 20 technical institutions in the country by 2020-20. GMRIT has grown exponentially and has found a place not only among the best technical institutions in the state of Andhra Pradesh but in the country at large. GMRIT is a self-financing Autonomous Engineering college approved by the AICTE. The institute is accredited by **NAAC with 'A' Grade**, All UG programs are accredited by **NBA Tier-1 & ISO 9001:2008 Certified Institution**, Affiliated to Jawaharlal Nehru Technological University, Kakinada.

Located in Rajam, Srikakulam district of Andhra Pradesh, GMRIT provides its learning community state-of-the-art facilities, infrastructure and a competent faculty. The Institute encourages collaborative learning between industry and academia as a means of reinforcing its curriculum with practical and real world experiences.



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Asso. Prof, Dept. of Mech.Engg GMRIT

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Mr. S M Rahaman, GMRIT Rajam



**AICTE Training And Learning (ATAL)
Academy sponsored *Online* Faculty
Development Program (FDP)
on**

3D Printing & Design

14th - 18th December, 2020



Organized by

Department of Mechanical Engineering

GMR INSTITUTE OF TECHNOLOGY

(An Autonomous Institution affiliated to JNTU-Kakinada)
Accredited by NBA under TIER-1 and NAAC with A Grade

**GMR Nagar, Rajam – 532 127
Srikakulam (Dist.)
Andhra Pradesh, INDIA**

Visit us at www.gmr.it.org

About Department:

The department of ME was established in the year 1997. It focuses on cutting-edge technologies and domain specific applications. It is also offering M.Tech (TE) and facilitates the evolution of skills in holistic development of students to attain higher degree of knowledge and global competency. The department have highly competent faculty with 16 doctorates and focusing majorly on research areas like Alternative Fuels, Nano materials and coatings, smart materials, metal matrix composites, non-traditional manufacturing, bio-degradable polymer, reliability engineering. The department has 150+ Scopus indexed publications and the research projects funded by DST, BRNS, AICTE, etc. Further, the department has state-of-the art research equipment like Sinkers EDM, CNC Wire EDM, DC Sputtering, High energy Planetary Ball mill, Ultrasonicator. It was accredited by NBA under Tier-I for 6 years and is recognized as research center by JNTUK

About the AICTE-ATAL:

All India Council for Technical Education (AICTE) through its newly established AICTE Training And Learning (ATAL) Academy have started unique faculty development programs in various thrust areas of modern technology. 200 such programs have already been conducted in various government institutions benefitting around 10,000

faculties, research scholars & PG students during the FY 19-20. Seeing the success of this initiative, AICTE Training And Learning (ATAL) Academy have announced to organize 500 AICTE Training And Learning (ATAL) Academy FDPs across the country for FY 20-21.

Objectives of FDP:

- To familiarize the participants to emphasize the importance of 3D Printing and its types
- To enable the participants to understand the Recent Advances in Metal 3D Printing
- To familiarize the participants with the applications of Metal 3D Printing in different fields
- To update about the current research trends in 3D Metal Printing

Instruction to the Participants:

Eligibility:

The faculty members of the AICTE approved institutions, research scholars, PG Scholars, participants from Government, Industry (Bureaucrats / Technicians/ Participants from Industry etc.)

Registration:

No Registration fee.

Registration Link: <https://atalacademy.aicte-india.org/signup>

Selection:

As the maximum number of participants is limited to 200, selection of the participants will be based on first-come-first-serve basis.

Last date to complete the registration process is **6th December, 2020.**

Participants after selection will be informed through Email on 8th December, 2020 and further communications will be done by creating Telegram group.

Test and Certificate:

- A test will be conducted by the coordinator at the end of the program.
- The certificates will be issued by ATAL academy to those participants who have attended the program with minimum 80% attendance and scored minimum 60% marks in the test.

Online Delivery:

Online Platforms via Microsoft Team/ Google meetings/YouTube Live. The links will be shared with the participants to the registered E Mail ID's and also in the Telegram Group.

Contact Person:

**Dr. P. N. L. Pavani, Associate Professor,
Department of ME, GMR Institute of Technology,
Rajam - 532 127, Srikakulam (Dist), AP,
E-mail: pavani.pnl@gmr.it.edu.in
Contact No: 9701022808**



GMR INSTITUTE OF TECHNOLOGY, RAJAM
DEPARTMENT OF MECHANICAL ENGINEERING
5-DAY ONLINE AICTE-ATAL FDP ON “3D PRINTING & DESIGN”
DECEMBER 14 -18, 2020
COORDINATOR: Dr. P. N. L. PAVANI

Program Schedule

Date/Time	10AM-11.30AM	11.30AM-12PM	12PM-1.30PM	1.30PM-2.30PM	2.30PM-4PM	4PM-5PM
Day 1 14.12.20 (Monday)	Inauguration by (Dr.C.L.V.R.S.V.Prasad) Principal GMRIT Rajam and Keynote address by Dr. G. Padmanabham Director ARCI Hyderabad	Tea Break	Session-1 Introduction to 3D Printing (Dr. S. Surya Kumar) IIT Hyderabad	Lunch Break	Session-2 Types of Additive Manufacturing (Dr. C.C.S. Sastry) IIITDM Kurnool	Attendance verification and Feedback collection on the sessions
Day 2 15.12.20 (Tuesday)	Session-3 Recent Advances in Metal 3D Printing (Dr. Y. Ravi Kumar) NIT Warangal		Session-4 CAD model Generation, STL file , Program breakdown of Model data (Dr. C.C.S. Sastry) IIITDM Kurnool		Session-5 Overview and Applications of Metal Additive Manufacturing (Dr. Manu Srivastava) IIITDM Jabalpur	
Day 3 16.12.20 (Wednesday)	Session-6 Laser Bio-Ceramic Functionally Graded Additive Manufactured Coatings for Orthopedic Applications (Dr. M.Ravi Sankar) IIT Tirupati		Session-7 Bio-medical Applications of 3D Printing (Dr. Y. Ravi Kumar) NIT Warangal		Session-8 Recent Advances in Infill patterns of Additive manufacturing (Dr. M V A Raju Bahubalendruni) NIT Puducherry	
Day 4 17.12.20 (Thursday)	Session-9 Design for Additive Manufacturing (Dr. M V A Raju Bahubalendruni) NIT Puducherry		Session-10 Post Processing of 3D Printed Metallic Complex Features (Dr. M. Ravi Sankar) IIT Tirupati		Session-11 Materials in 3D Printing (Mr. Rakesh Koppunur) VSD3D Hyderabad	
Day 5 18.12.20 (Friday)	Session-12 Laser Directed Energy Deposition and Its Real- time Monitoring (Dr. M.Gopinath) IIT Hyderabad		Session-13 Mental and Emotional Development (S M Rahaman) Psychologist & Soft Skills Trainer, GMRIT Rajam		Session-14 Demo and practice on CURA SOFTWARE (Mr. Rakesh Koppunur) VSD3D Hyderabad	