

## About ATAL Academy

AICTE Training and Learning (ATAL) Academy is established with the vision "To empower faculty to achieve goals of Higher Education such as access, equity and quality". AICTE is committed for development of quality technical education in the country by initiating various schemes launched by Govt. of India, Ministry of Human Resource Development Council understand that there is a need to train the young generation in skill sector and having faculty & technicians to be trained in their respective disciplines. Training is required for increasing the knowledge and skills of Faculty and to make them to acquire global competencies.

## About MVGR

Maharaj Vijayaram Gajapathi Raj College of Engineering, Vizianagaram, was established in 1997 under the aegis of MANSAS, an educational trust, founded by Late Dr.P.V.G. Raju, Rajah Saheb of Vizianagaram. The college is permanently affiliated to JNTU-GV and accredited by NBA and NAAC. The campus is located at Chintalavalasa, Vizianagaram district of Andhra Pradesh, just 45 minutes' drive from Visakhapatnam. The college provides its learning community, state-of-the-art facilities, infrastructure, and a competent faculty. The institute encourages collaboration with industry and the institute as a means of reinforcing its curriculum with practical and real-world experiences. The college lays emphasis on offering a well-rounded education to mould the students into resourceful engineers.

## About Department

The Department of Mechanical Engineering has been in existence since the inception of the college, i.e., 1997. The department offers Undergraduate program with an intake of 120. The department has

- Well-qualified faculty with 20 PhD holders.
- Well-furnished laboratories, including research labs with state-of-the-art equipment.
- Recognized as a research center by the JNTU-GV, Vizianagaram.
- Accomplished research projects worth Rs 1.2 crore sponsored by DST/UGC/AICTE.
- CM Center of Excellence for 3Ds by Dassault Systems.

### Chief Patron

**Sri. P. Ashok Gajapathi Raju**

Chairman, MANSAS Trust

### Patron

**Dr. K. V. L. Raju**

Correspondent, MANSAS Trust

### President(s)

**Sri P. S Sitharama Raju**

Director

**Dr. R. Ramesh**

Principal

### Advisory Committee

**Dr. Y. M. C. Sekhar**

Vice-Principal (Academic)

**Dr. S. Adinarayana**

Dean (IMA)

### Convener

**Dr. N. Ravi Kumar**

Professor & HOD

### Organizing Committee

**Mr. Rajesh Guntur**

Distinguished Assistant Professor

**Dr. B. Srinivas**

Distinguished Assistant Professor

**Dr. G. Pramod Kumar**

Senior Assistant Professor

**Mr. D. Santhosh Kumar**

Senior Assistant Professor

### Coordinator



**Dr. S Subrahmanyam Mendu**

Professor

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### Co-Coordinator



**Dr. Ravi Kumar Kottala**

Distinguished Assistant Professor

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## AICTE TRAINING AND LEARNING (ATAL) ACADEMY

SPONSORED

Six-Day Online Faculty Development Program  
on

**INNOVATIVE GREEN ENERGY GENERATION  
AND STORAGE TECHNOLOGIES**

**2<sup>nd</sup> - 7<sup>th</sup> December, 2024**

Organized by

**Department of Mechanical Engineering  
Maharaj Vijayaram Gajapathi Raj  
College of Engineering  
(Autonomous)**

Vizianagaram - 535 005, A.P., India.

[www.mvgrce.com](http://www.mvgrce.com)



## About FDP

The six-day online FDP program is intended for energy engineers, researchers, and faculty members to provide an overview of innovative green energy generation and storage technologies. This program will cover recent advancements in renewable energy systems and offer in-depth training on the latest storage solutions. It aims to equip researchers with the knowledge and skills needed to develop and implement cutting-edge green energy technologies. This course will be helpful for researchers interested in the renewable energy sector, inspiring participants to explore and innovate in green energy and storage technologies. This FDP will bridge industrial needs and fresh engineering graduates' skills. Through our Faculty Development Program, we hope to bridge this gap by teaching academia about breakthrough green energy generation and storage technologies.

## Topics to be Covered

- Advanced solar energy technologies
- Breakthroughs in renewable energy systems
- Advancements in energy storage technologies
- Hydrogen production and storage technologies
- Smart grids and integration
- Fuel cell technologies
- Artificial intelligence and machine learning in green energy systems

## Event Details

- ☞ All sessions will be conducted using an online platform. The meeting links will be sent to the selected participants through email.
- ☞ Last date for registration: 26<sup>th</sup> November, 2024
- ☞ Intimation to selected candidates: 28<sup>th</sup> November, 2024

## Participant Eligibility

The Faculty Members | Research Scholars | PG Scholars of the AICTE approved institutions and Industry Personnel.

## Resource Persons



**Dr. E. Anil Kumar**  
Professor  
IIT Tirupati



**Dr. Ing. V. V. S. S. Srikanth**  
Professor  
University of Hyderabad



**Dr. K. R. Balasubramanian**  
Professor, NIT-Trichy



**Dr. T.J. Sarvoththama Jothi**  
Associate Professor  
NIT-Calicut



**Dr. Radha Manohar Rao**  
Assistant Professor  
Universidad de Chile  
Santiago, Chile



**Dr. M. Senthil Kumar**  
Professor  
NITTTR, Chennai



**Dr. Vasu Gollangi**  
Deputy general manager  
BHEL, Hyderabad



**Dr. R. Balaji**  
Senior Scientist  
ARCI, Chennai



**Dr. D Sreedhar**  
Manager- R&D  
Amara Raja Energy &  
Mobility Ltd.



**Dr. Jinsha B S**  
Senior Systems Engineer  
ModeliCon InfoTech LLP



**Dr. R. Bhanu Prakash**  
Power Electronics Engineer  
IdeaForge Technology  
Limited



**Dr. Murali Mohan Cheepu**  
Research Manager  
Vitzronextech Co., Ltd,  
South Korea



**Dr. Baburao Gaddala**  
Senior Lecturer  
University of Muscat, Oman

## Eligibility for Participation Certificate

E-certificates will be issued by ATAL Academy to participants who achieve a minimum of 80% attendance, attain at least 70% on the assessment, and provide the required feedback on the ATAL portal.

## Details of Registration

☞ Registration has to be done through

<https://atalacademy.aicte-india.org>

LIMITED REGISTRATIONS, PRIORITY ON FIRST COME

FIRST SERVE BASIS ONLY

**FREE REGISTRATION FOR ALL PARTICIPANTS**

## Navigation to FDP on the Web Portal

Sign in-->Select Mode-->Online--->  
Month--->December--->  
Search--->Application No: 1730885196--->  
Click on Plus Icon--->Upload---> NOC--->  
Confirm

*Note: A scanned copy of your ID card and a NOC are required to complete registration.*

Scan here to get Registered





## ATAL Online Six- Day Faculty Development Program 2024-25 Schedule

**FDP Thrust Area:** Energy, Sustainability & Climate Change  
**FDP Title:** Innovative green energy generation and storage technologies

**Start Date: 2-12-2024**

**End Date: 7-12-2024**

Day 1 (02/12/2024) 6:00 PM to 6:30 PM	Day 2 (03/12/2024) 6:00 PM to 7:30 PM	Day 3 (04/12/2024) 6:00 PM to 7:30 PM	Day 4 (05/12/2024) 6:00 PM to 7:30 PM	Day 5 (06/12/2024) 6:00 PM to 7:30 PM	Day 6 (07/12/2024) 2:00 PM to 3:30 PM
<b>Inaugural Session</b>	<b>Session 3</b>	<b>Session 5</b>	<b>Session 7</b>	<b>Session 9</b>	<b>Session 11</b>
	<p><b>Topic:</b> Advanced Energy Harvesters  <b>Name of the Expert:</b> Dr. Radha Manohar Rao V.N. Aepuru  <b>Designation &amp; Organization:</b> Assistant Professor, Universidad de Chile, Santiago, Chile  <b>Years of Exp:</b> 10</p>	<p><b>Topic:</b> Advancements in energy storage technologies  <b>Name of the Expert:</b> Dr. K. R. Balasubramanian  <b>Designation &amp; Organization:</b> Professor, NIT-Trichy  <b>Years of Exp:</b> 15</p>	<p><b>Topic:</b> Characterization techniques for energy storage materials  <b>Name of the Expert:</b> Dr. Ing. V. V. S. S. Srikanth  <b>Designation &amp; Organization:</b> Professor, University of Hyderabad  <b>Years of Exp:</b> 20</p>	<p><b>Topic:</b> Advanced Technologies for Green Hydrogen Production  <b>Name of the Expert:</b> Dr. R. Balaji  <b>Designation &amp; Organization:</b> Senior Scientist, ARCI, Chennai  <b>Years of Exp:</b> 18</p>	<p><b>Topic:</b> 3D printing in sustainable energy technologies  <b>Name of the Expert:</b> Dr. Murali Mohan Cheepu  <b>Designation &amp; Organization:</b> Research Manager, Vitzronextech Co., Ltd., South Korea  <b>Years of Exp:</b> 10</p>
<b>6:30 PM to 8:00 PM</b>	<b>7:30 PM to 9:00 PM</b>	<b>7:30 PM to 9:00 PM</b>	<b>7:30 PM to 9:00 PM</b>	<b>7:30 PM to 9:00 PM</b>	<b>3:30 PM to 5:00 PM</b>
<b>Session 1</b>	<b>Session 4</b>	<b>Session 6</b>	<b>Session 8</b>	<b>Session 10</b>	<b>Session 12</b>
<p><b>Topic:</b> Introduction to various green energy technologies  <b>Name of the Expert:</b> Dr. Jinshah B.S  <b>Designation &amp; Organization:</b> Senior System Engineer, ModeliCon InfoTech  <b>Years of Exp:</b> 10</p>	<p><b>Topic:</b> Innovations in renewable energy systems  <b>Name of the Expert:</b> Dr. T.J. Sarvoththama Jothi  <b>Designation &amp; Organization:</b> Associate Professor, NIT-Calicut  <b>Years of Exp:</b> 15</p>	<p><b>Topic:</b> Advanced Battery (Lead-Acid) materials/components and Management strategies  <b>Name of the Expert:</b> Dr. D Sreedhar  <b>Designation &amp; Organization:</b> Manager R&amp;D, Amara Raja Energy &amp; Mobility Ltd.  <b>Years of Exp:</b> 16</p>	<p><b>Topic:</b> Next-Generation Smart Grid Technologies  <b>Name of the Expert:</b> Dr. R. Bhanu Prakash  <b>Designation &amp; Organization:</b> Power Electronics Engineer, ideaForge Technology Limited  <b>Years of Exp:</b> 10</p>	<p><b>Topic:</b> Hydrogen Storage Technologies  <b>Name of the Expert:</b> Dr. E. Anil Kumar  <b>Designation &amp; Organization:</b> Professor, IIT Tirupati  <b>Years of Exp:</b> 15</p>	<p><b>Topic:</b> Fuels cell technologies for stationary and mobility applications  <b>Name of the Expert:</b> Dr. Vasu Gollangi  <b>Designation &amp; Organization:</b> Deputy general Manager, BHEL Corporate, Hyderabad  <b>Years of Exp:</b> 15</p>
<b>8:00 PM to 9:30 PM</b>					<b>5:00 PM to 6:30 PM</b>
<b>Session 2</b>					<b>Session 13</b>
<p><b>Topic:</b> Advancements in solar PV systems and applications  <b>Name of the Expert:</b> Dr. M. Senthil Kumar  <b>Designation &amp; organization:</b> Professor, NITTTR  <b>Years of Exp:</b> 17</p>					<p><b>Topic:</b> Role of artificial intelligence and machine learning in green energy technologies  <b>Name of the Expert:</b> Dr. Baburao Gaddala  <b>Designation &amp; Organization:</b> Senior Lecturer, University of Technology and Applied Sciences Muscat, Muscat, Oman  <b>Years of Exp:</b> 17</p>
					<b>6:30 PM to 7:30 PM</b> <b>Online test &amp; Feedback</b>
					<b>7:30 PM to 8:00 PM</b> <b>Valedictory Session</b>