



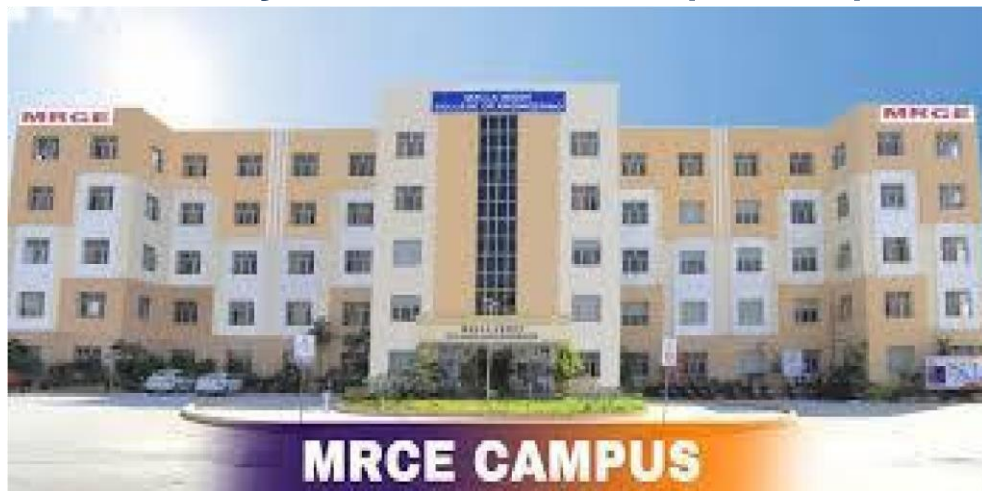
# MALLA REDDY COLLEGE OF ENGINEERING

MAISAMMAGUDA, HYDERABAD, TELANGANA.

DEPARTMENT OF HUMANITIES & SCIENCES

(CHEMISTRY) 30/01/2025

A One–Day National Level (online) FDP



**SMART MATERIALS-BRIDGING INNOVATION  
IN ENGINEERING APPLICATION**



# MALLA REDDY COLLEGE OF ENGINEERING

MAISAMMAGUDA, HYDERABAD, TELANGANA.



**MALLA REDDY COLLEGE OF ENGINEERING**  
(Approved by AICTE-New Delhi, Affiliated to JNTUH-Hyderabad)  
Recognized under Section 2(F) & 12(B) of the UGC Act 1956,  
An ISO 9001:2015 Certified Institution.  
Maisammaguda, Dhulapally, post via Kompally, Secunderabad - 500100

Date: 17-01-2025

To  
The principal  
Malla Reddy College of Engineering  
Maisammaguda,  
Hyderabad.

Respected Sir,

Sub: Request for the permission to conduct one-day online Chemistry FDP program-reg.

We, the faculty of Chemistry from H.&S. Department. We would like to conduct one-day online FDP program on the entitle "Smart Materials-Bridging innovation in Engineering Applications" on 30<sup>th</sup> January, 2025 by Dr. K. Shirish Kumar, Associate Professor at St Peter's Engineering collage Hyderabad.

Hence, we request you to permit us, to conduct the above said program.

Thanking you,

Regards,  
Convener  
Dr. Sacha Joshi  
Head,H.&SDept.



Principal

Coordinators:

1. Mr. B.Anil Kumar
2. Mr.M.N Kishore
3. Mrs.A.Karuna Sri
4. Mrs. A.Rupa
5. Mrs.Khalida Begum
6. Mr.K.Sinivasula



# MALLA REDDY COLLEGE OF ENGINEERING

MAISAMMAGUDA, HYDERABAD, TELANGANA.

## About MRCE

Malla Reddy College of Engineering the jewel in the crown of Malla Reddy Group of Institutions (MRGI) was established in the year 2005 with the approval from AICTE, permanent affiliation to JNTUH, accredited by NBA & NAAC. The college is located at Maisammaguda, Dhulapally, Secunderabad, Telangana, India.

The institute offers B. Tech courses in Computer Science & Engineering, CSE(Data Science), CSE(Artificial intelligence & Machine Learning) and ECE branches. Malla Reddy College of Engineering has been laid upon a very strong foundation and has ever since been excelling in every aspect. The bricks of this able institute are certainly the adept management, the experienced faculty, the selfless non-teaching staff and of course the students.

## Vision of Institute

To emerge as a Center of Excellence for producing professionals who shall be the leaders in technology innovation, entrepreneurship, management and in turn contribute for advancement of society and humankind.

## Mission of Institute

- To provide an environment of learning in emerging technologies.
- To nurture a state of art teaching learning process and R&D culture.
- To foster networking with Alumni, Industry, Institutes of repute and other stakeholders for effective interaction.
- To practice and promote high standards of ethical values through societal commitment.

## Contact Us @

+91-8977098918/9550466365  
hodhs@mrce.in

### Chief Patron:

**Sri Ch. Malla Reddy**  
Hon'ble Member of Legislative Assembly (MLA)  
from Medchal assembly constituency, TG  
Founder Chairman of MRGI.

### Patrons:

**Sri Ch. Mahender Reddy**  
Secretary-MRGI  
**Shri Ch. Bhadra Reddy**  
President-MRGI  
**Smt. Ch. Shalini Reddy**  
Managing Director- MRGI  
**Dr. N. Sudheer Reddy**  
Director, MRCE.

### Co-Patron:

**Dr. M. Ashok**, Principal-MRCE

### Convener:

**Dr. Sneha Joshi**, HOD-Dept. of H&S

### Coordinators:

**Mr.B.Anil Kumar**, Assistant Professor in Chemistry  
**Mr. M. N. Kishore**, Assistant Professor in Chemistry  
**Mrs. A.Karuna sri**, Assistant Professor in Chemistry  
**Mrs. A.Rupa**, Assistant Professor in Chemistry  
**Mrs. Khaleeda Begum**, Assistant Professor in Chemistry  
**Mr.K.Srinivasulu**, Assistant Professor in Chemistry

A One-day National Level (online) FDP

On

Smart Materials-Bridging  
Innovation in Engineering  
Applications

Organized by

DEPARTMENT OF  
HUMANITIES & SCIENCES  
(CHEMISTRY)

30<sup>th</sup> January 2025,  
Thursday

Time: 10:00AM to 12:00PM



Malla Reddy  
College of Engineering

Maisammaguda, Dhulapally,  
Secunderabad-500100



# MALLA REDDY COLLEGE OF ENGINEERING

MAISAMMAGUDA, HYDERABAD, TELANGANA.

## Vision of the dept.

The department aims to become a pioneer in the field of education and training in Humanities and Sciences with enriching value-added education.

## Mission of the dept.

Department strives to transform its students into Confident, Professionally Sound and Socially Responsible Engineers who can meet the challenges of advancing technology and work for the betterment of mankind.

### **Fill the google form to Register:**

[https://docs.google.com/forms/d/e/1FAIpQLSe1Zy@tVuMEAN3pEtfj\\_1LHQp3uol1NdUztlbyGPHwdEL\\_LzQ/viewform?usp=header](https://docs.google.com/forms/d/e/1FAIpQLSe1Zy@tVuMEAN3pEtfj_1LHQp3uol1NdUztlbyGPHwdEL_LzQ/viewform?usp=header)

## Objective of this FDP

To enhance faculty expertise in emerging technology in smart materials, foster interdisciplinary research, align academic knowledge with industry demands, and promote sustainable and innovative in engineering application.

Registration:  
**FREE**

**Note:** E-certificates will be issued to all the participants after successful completion of FDP. Last date of Registration is 29-01-2025

## Where?

Join us on G-Meet (-Link will be sent through our WhatsApp group only)



## Resource Person:



**Dr. K. Shirish Kumar, M.phil, Ph.D**

Associate Professor, St.Peters Engineering college, Hyderabad

## About the department of Humanities & Sciences(MRCE)

The Department of Humanities and Sciences (H&S) is one of the earliest Departments at MRCE established in the year 2005. The Department of Humanities and Sciences (H&S) offers basic Engineering Mathematics, Physics, Chemistry and English among others subjects for U.G students of all B. Tech courses at first year level. The Department of H&S aims at encouraging advanced teaching learning process and quality research at individual, department, and institutional level.

It also persistently strives to build quality-based knowledge and human resource capacity, to conduct academic programs every time and again in the emerging areas of engineering and technology.

The Department of H&S is continuously working to provide a foundation for engineering studies and communication skills. We have well experienced and qualified Faculty members as per the AICTE, Delhi and JNTU, Hyderabad requirements.



# **MALLA REDDY COLLEGE OF ENGINEERING**

MAISAMMAGUDA, HYDERABAD, TELANGANA.

## **“ SMART MATERIAL-BRIDGING INNOVATION IN ENGINEERING APPLICATION”**

*Department of Humanities & Sciences (Chemistry)*

**On 30<sup>th</sup> Jan 2025**

### **Program Schedule:**

- **Introduction of Resource person-profile**
- **Session on “Materials for SMART MATERIAL” by resource person**
- **Queries**
- **Vote of thanks**
- **Feedback form**



# **MALLA REDDY COLLEGE OF ENGINEERING**

MAISAMMAGUDA, HYDERABAD, TELANGANA.

## **Department of Humanities & Sciences**

A One-day National level (Online) Faculty Development Program-FDP on “**SMART MATERIAL-BRIDGING INNOVATION IN ENGINEERING APPLICATION**”  
On 30<sup>th</sup> JAN, 2025

## **Program Agenda**

- **10:00 AM Welcome address-by Principal Sir.**
- **10:30 AM Introduction of Resource person-profile**
- **10:45 AM Session on “ SMART MATERIALS ” by resource person**
- **11:40AM Queries**
- **11:50 AM Vote of thanks**
- **12:00AM Feedback form**



# MALLA REDDY COLLEGE OF ENGINEERING

MAISAMMAGUDA, HYDERABAD, TELANGANA.





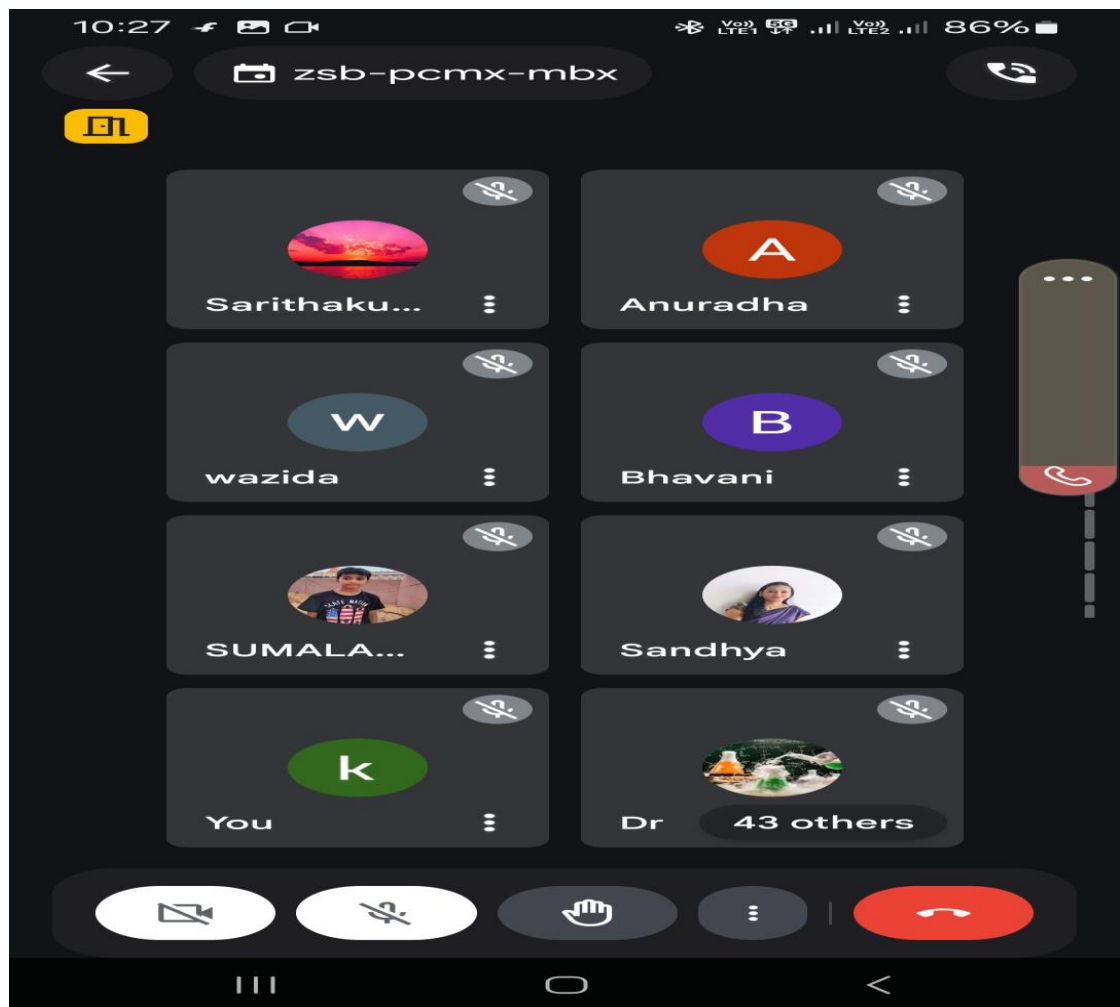
# MALLA REDDY COLLEGE OF ENGINEERING

MAISAMMAGUDA, HYDERABAD, TELANGANA.

## Day wise Report with photos:

**Date: 30-01-2025**

The Faculty Development Programme on " Smart Material-Bridging Innovation in Engineering Application" by Dr. K. Shirish Kumar.







# MALLA REDDY COLLEGE OF ENGINEERING

MAISAMMAGUDA, HYDERABAD, TELANGANA.

## ATTENDANCE

Timestamp	Name of the Participant (to be printed on certificate)	Designation	Organization / Institute
30/01/2025 10.00 am	P SUMALATHA	Assistant Professor	Malla Reddy College of Engineering
30/01/2025 10.00 am	Durga Sravanthi Yedidi	Assistant Professor	St.Peters Engineering College
30/01/2025 10.00 am	R.Premalathasri	Assistant Professor, Research Scholar	Paavai engineering college
30/01/2025 10.00 am	Dr.Masma Shaik	Assistant Professor	St.Peter's Engineering College, Hyderabad
30/01/2025 10.00 am	Dr. R. Venkanna	Assistant Professor	Sphoorthy Engineering College
30/01/2025 10.00 am	Mittapally Rajani	Assistant Professor	Nalla Malla Reddy Engineering College
30/01/2025 10.00 am	J KRUPA RANI	Assistant Professor	Narsimha Reddy Engineering college
30/01/2025 10.00 am	Devarakonda sandhya rani	Assistant Professor	Mallareddy college of engineering
30/01/2025 10.00 am	SHAIK NAVEED AHAMMAD	Assistant Professor	MRCE
30/01/2025 10.00 am	Lakshmi Priya S	Assistant Professor	Sathyabama Institute of Science and Technology
30/01/2025 10.00 am	Dr.Y.Saritha Kumari	Assistant Professor	Malla Reddy College of engineering
30/01/2025 10.00 am	Chatlapalli Ramya	Assistant Professor	Narasimhareddy engineering college
30/01/2025 10.00 am	Koyyalamudisireesha	Assistant Professor	NRCM
30/01/2025 10.00 am	SUDANI BABAY SAROJINI	Assistant Professor	SVEC
30/01/2025 10.00 am	Dr.C.Amaravathi	Assistant Professor	CMR Technical campus



# MALLA REDDY COLLEGE OF ENGINEERING

MAISAMMAGUDA, HYDERABAD, TELANGANA.

30/01/2025 10.00 am	TADURI SRILATHA	Assistant Professor	Mallareddy college of engineering for women
30/01/2025 10.00 am	Dr Apparao Babu	Assistant Professor	Sphoorthy engineering college
30/01/2025 10.00 am	Mittapally Rajanj	Assistant Professor	Nalla malla ready engineering college
30/01/2025 10.00 am	K manjula devi	Assistant Professor	Malla reddy college of engineering
30/01/2025 10.00 am	DRK Mahesh	Assistant Professor	MRCE
30/01/2025 10.00 am	P. Anuradha	Assistant Professor	Malla Reddy College of Engineering, Hyderabad
30/01/2025 10.00 am	V.Ramakrishna	Student	SR University
30/01/2025 10.00 am	Channareddy orem	Assistant Professor	H&S
30/01/2025 10.00 am	Dr. M. RANADHEER KUMAR	Assistant Professor	KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE, WARANGAL
30/01/2025 10.00 am	Arjun. N	Assistant Professor	Malla Reddy College of Engineering
30/01/2025 10.00 am	M BHASKER	Assistant Professor	Malla Reddy college of Engineering
30/01/2025 10.00 am	SATYAVATHI RAYALA	Assistant Professor	Narsimha Reddy Engineering College
30/01/2025 10.00 am	K.shanker	Assistant Professor	Mrce
30/01/2025 10.00 am	Mr. GANGONE VIKRANTH	Assistant Professor	VIGNANA BHARATHI INSTITUTE OF TECHNOLOGY
30/01/2025 10.00 am	WAZIDA BEGUM	Assistant Professor	SPHOORTHY ENGINEERING COLLEGE



# MALLA REDDY COLLEGE OF ENGINEERING

MAISAMMAGUDA, HYDERABAD, TELANGANA.

30/01/2025 10.00 am	Veta.chaitanya	Assistant Professor	Malla Reddy college of engineering
30/01/2025 10.00 am	V. Rajasekhara Reddy	Assistant Professor	St. Martin's Engineering college
30/01/2025 10.00 am	NUTENKI KARUNAKAR	Assistant Professor	TGTWURJC COE (G), DEVARAKONDA, NALGONDA, TS
30/01/2025 10.00 am	Mudam Sreekanth	Assistant Professor	Malla Reddy College of Engineering
30/01/2025 10.00 am	PSUMALATHA	Assistant Professor	Malla Reddy College of Engineering
30/01/2025 10.00 am	B. Anilkumar	Assistant Professor	Mrce
30/01/2025 10.00 am	Dr.V Anitha Rani	Associate Professor	Institute of Aeronautical Engineering
30/01/2025 10.00 am	Dr G Sundararajan	Associate Professor	St Martin's Engineering College Autonomous secunderabad
30/01/2025 10.00 am	Botta Bhavani	Assistant Professor	Sphoorthy engineering college
30/01/2025 10.00 am	Dr. Madhavi Kuncham	Associate Professor	Marri laxman Reddy Institute of Technology and Management
30/01/2025 10.00 am	ANCHURI NAGARAJU	Assistant Professor	Sree chaitanya college of engineering, Karimnagar
30/01/2025 10.00 am	RUPA AKULA	Assistant Professor	MALLA REDDY COLLEGE OF ENGINEERING
30/01/2025 10.00 am	P chalapathi rao	Assistant Professor	Narsimhareddy engineering college
30/01/2025 10.00 am	A.KARUNA SRI	Assistant Professor	Mallareddy college of engineering
30/01/2025 10.00 am	M NANI KISHORE	Assistant Professor	Malla Reddy college of engineering
30/01/2025 10.00 am	Dr. KILARU SURESH	Assistant Professor	NALLA MALLA REDDY ENGINEERING COLLEGE



# MALLA REDDY COLLEGE OF ENGINEERING

MAISAMMAGUDA, HYDERABAD, TELANGANA.

30/01/2025 10.00 am	Dr. R. Venkanna	Assistant Professor	Sphoorthy Engineering College
30/01/2025 10.00 am	Dr. D. RAJARAMAN	Assistant Professor	St. Peter's Engineering College, Hyderabad.
30/01/2025 10.00 am	Dr Sonadevi Selvam	Assistant Professor	St Peter's Engineering college
30/01/2025 10.00 am	Dr Varukolu Mahipal	Assistant Professor	St.Peters Engineering College
30/01/2025 10.00 am	Dr.M.Sudha Rani	Associate Professor	Guru Nanak Institutions Technical Campus
30/01/2025 10.00 am	CHINTHAPALLI VENUGOPAL	Assistant Professor	St Peter's engineering college
30/01/2025 10.00 am	CHINTHAPALLI VENUGOPAL	Assistant Professor	St Peter's engineering college
30/01/2025 10.00 am	Md.Moin Sanjari	Assistant Professor	Malla Reddy College of Engineering for women
30/01/2025 10.00 am	Dr. Y. Saroja	Associate Professor	Mallareddy college of engineering for women
30/01/2025 10.00 am	DARNA SWAPNA	Assistant Professor	St.Martin's engineering college
30/01/2025 10.00 am	Dr Maniteja Gorikapudi	Associate Professor	Malla Reddy College of engineering for women
30/01/2025 10.00 am	K parijatha	Assistant Professor	Vidya jyothi Institute
30/01/2025 10.00 am	B.KRISHNAVENI	Assistant Professor	CMR ENGINEERING COLLEGE ,KANDLAKOYA, MEDCHAL
30/01/2025 10.00 am	Vijayarani salvadi	Assistant Professor	Smec
30/01/2025 10.00 am	R.Premalathasri	Assistant Professor	Paavai engineering college
30/01/2025 10.00 am	MALIGE. SHEKAR	Assistant Professor	St Mary's engineering college
30/01/2025 10.00 am	Dr.Masma Shaik	Assistant Professor	St.Peter's Engineering College, Hyderabad



# MALLA REDDY COLLEGE OF ENGINEERING

MAISAMMAGUDA, HYDERABAD, TELANGANA.

30/01/2025 10.00 am	Bura Raju	Assistant Professor	IARE
30/01/2025 10.00 am	G.Bhagyalaxmi	Assistant Professor	MARRILAXMAN REDDY INSTITUTE OF TECHNOLOGY AND MANAGEMENT
30/01/2025 10.00 am	Sandhya Vani kurra	Assistant Professor	Mallareddy college of engineering
30/01/2025 10.00 am	Dr.M.RANADHEER KUMAR	Assistant Professor	KAKATIYA INSTITUTE OF TECHNOLOGY &SCIENCE, WARANGAL
30/01/2025 10.00 am	Dr. Reshmi R. Nair	Associate Professor	Nalla Malla Reddy Engineering College
30/01/2025 10.00 am	Dr.Maniteja Gorikapudi	Associate Professor	Malla Reddy College of engineering for women
30/01/2025 10.00 am	T SARALA	Assistant Professor	Mallareddy college of Engineering
30/01/2025 10.00 am	Radha Lavu	Assistant Professor	Mallareddy college of engineering for women
30/01/2025 10.00 am	Kotha Sireesha	Assistant Professor	Pallavi engineering college
30/01/2025 10.00 am	Mrs.Nagamani Gajjela	Assistant Professor	Malla Reddy College of Engineering
30/01/2025 10.00 am	Madupu Swathi	Assistant Professor	Narasimha Reddy Engineering College
30/01/2025 10.00 am	N.PANDURANGARAO	Assistant Professor	ST.MARTIN ENGINEERING COLLEGE
30/01/2025 10.00 am	P chalapathi rao	Assistant Professor	Narsimhareddy engineering college
30/01/2025 10.00 am	Dr Nehru Boda	Assistant Professor	St Martin's engineering College Hyderabad



# MALLA REDDY COLLEGE OF ENGINEERING

MAISAMMAGUDA, HYDERABAD, TELANGANA.

30/01/2025 10.00 am	Dr Adaveni Suresh Kumar	Associate Professor	Keshav Memorial College of Engineering
30/01/2025 10.00 am	Thokala Tharuna Varalakshmi	Assistant Professor	MRCE
30/01/2025 10.00 am	Grandhe Radhika	Assistant Professor	Malla Reddy College of engineering
30/01/2025 10.00 am	V Ramakrishna	Student	SR UNIVERSITY
30/01/2025 10.00 am	ANCHURI NAGARAJU	Assistant Professor	Sree Chaitanya College of Engineering, Karimnagar
30/01/2025 10.00 am	V. Rajasekhar Reddy	Assistant Professor	St. Martin's Engineering college
30/01/2025 10.00 am	Kotte navya	Assistant Professor	Mrce
30/01/2025 10.00 am	Dr.C.Amaravathi	Assistant Professor	CMR Technical campus
30/01/2025 10.00 am	CHINTHAPALLI VENUGOPAL	Assistant Professor	St Peter's engineering college
30/01/2025 10.00 am	NAVEEN.S	Assistant Professor	St.PETER'S ENGINEERING COLLEGE
30/01/2025 10.00 am	Dr. RAJI THOMAS	Assistant Professor	St. Martin's Engineering College
30/01/2025 10.00 am	Pendli Bharathi	Assistant Professor	St Martin's engineering college
30/01/2025 10.00 am	Dr.V Anitha Rani	Associate Professor	Institute of Aeronautical Engineering
30/01/2025 10.00 am	CHINTHAPALLY VENUGOPAL	Assistant Professor	ST PETERS ENGINEERING COLLEGE
30/01/2025 10.00 am	Chatlapalli Ramya	Assistant Professor	Narasimhareddy engineering college
30/01/2025 10.00 am	Bura Raju	Assistant Professor	IARE, Dundigal
30/01/2025 10.00 am	Dr. KILARU SURESH	Assistant Professor	Nalla Malla Reddy Engineering College



# MALLA REDDY COLLEGE OF ENGINEERING

MAISAMMAGUDA, HYDERABAD, TELANGANA.

30/01/2025 10.00 am	Dr. Veerabathini Manohar	Assistant Professor	GDC A -Siddipet
30/01/2025 10.00 am	Mrs.KrishnaKumari	Assistant Professor	SCIENT INSTITUTE OF TECHNOLOGY
30/01/2025 10.00 am	Mrs.K.KrishnaKumari	Assistant Professor	SCIENT INSTITUTE OF TECHNOLOGY
30/01/2025 10.00 am	Jyothirmayi.K.V.N.L	Assistant Professor	St.Mary's engineering college
30/01/2025 10.00 am	Grandhe Radhika	Assistant Professor	Malla Reddy College of engineering
30/01/2025 10.00 am	Dr. Hasem Ali	Assistant Professor	St. Peter's Engineering College
30/01/2025 10.00 am	Dr CH GIRIDHAR	Associate Professor	MREC



# MALLA REDDY COLLEGE OF ENGINEERING

MAISAMMAGUDA, HYDERABAD, TELANGANA.



## PROFILE

Dr. Shirish Kumar Kodadi serves as the Incharge Head of the Department of Sciences & Humanities and holds the position of Associate Professor of Chemistry at St. Peters Engineering College, Hyderabad, India. His academic journey is distinguished by a Master of Science degree from Osmania University, a Master of Philosophy from Vinayaka Missions University, and a Doctor of Philosophy from Osmania University. In addition to his scientific endeavors, driven by a passion for knowledge, he has also earned a Master of Arts in English. With over 19 years of teaching experience and 15 years of research expertise, Dr. Kodadi has made significant contributions to his field. He holds six patents, has published ten scientific papers, and authored sixteen international books. His research focuses on the synthesis, spectrophotometric studies, spectral characterization, and in silico studies of charge-transfer complexes of bio-active molecules with iodine. His excellence has been recognized with numerous accolades, including the "Young Researcher Award," the Best College Level Teacher Award, the "International Distinguished Researcher Award," and the "Emerging Scientist Award." Dr. Kodadi has successfully completed the UGC Minor Research Project titled "Spectrophotometric-Thermodynamic and Molecular Modeling Studies of Novel Crizotinib with NBS and DBQ." He is the editor of the book series "Futuristic Trends in Chemical, Material Sciences & Nano Technology" and serves as a potential reviewer for the "Journal of Pharmacology and Pharmacotherapeutics" and the "Journal of the Chemical Society of Pakistan," both of which are indexed in the Science Citation Index.





# MALLA REDDY COLLEGE OF ENGINEERING

MAISAMMAGUDA, HYDERABAD, TELANGANA.

## PPT

Department of Humanities and Sciences (Chemistry), 30<sup>th</sup> Jan 2025, Malla Reddy College of Engineering, Hyderabad

### Smart Material-Bridging Innovation in Engineering Application

#### Smart Materials: Bridging Innovation in Engineering Applications

Dr. K. SHIRISH KUMAR

Associate Professor of Chemistry  
St. PETER'S ENGINEERING COLLEGE,  
HYDERABAD-500100, INDIA

#### What are smart materials?

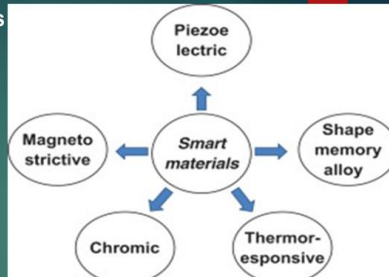
##### 1. Introduction

Smart materials have one or more properties that can be significantly altered in a controlled fashion by external stimuli, such as stress, temperature, moisture, pH, electric or magnetic fields.



Smart materials are advanced materials designed to respond predictably and dynamically to specific external stimuli (Sanchez et al., 2021). Unlike traditional materials that serve static roles, smart materials can sense and react, much like biological systems. The advent of smart materials has opened new avenues for creating adaptive systems that improve efficiency, reduce energy consumption, and enhance the functionality of devices. This section sets the stage for understanding the transformative potential of smart materials and their interdisciplinary applications across healthcare, aerospace, and consumer electronics.

#### 2. Classification of Smart Materials



##### 2.1 Piezoelectric Materials

###### What are Piezoelectric materials?

Piezoelectric materials exhibit the direct piezoelectric effect,

Piezoelectric materials are materials that produce a voltage when stress is applied. Since this effect also applies in the reverse manner, a voltage across the sample will produce stress within the sample. Suitably designed structures made from these materials can therefore be made that bend, expand or contract when a voltage is applied.

Common applications include sensors, actuators, and energy-harvesting devices (Smith et al., 2019).



# MALLA REDDY COLLEGE OF ENGINEERING

MAISAMMAGUDA, HYDERABAD, TELANGANA.

## FEED BACK

Name of the Participant (to be printed on certificate)	Designation	Organization / Institute	Suggestions
P SUMALATHA	Assistant Professor	Malla Reddy College of Engineering	Good
Durga Sravanthi Yedidi	Assistant Professor	St.Peters Engineering College	Very good session
R.Premalathasri	Assistant Professor, Research Scholar	Paavai engineering college	Excellent
Dr.Masma Shaik	Assistant Professor	St.Peter's Engineering College, Hyderabad	Nice,tq more knowledgeable
Dr. R. Venkanna	Assistant Professor	Sphoorthy Engineering College	A good session on pH sensitive smart material in drug delivery
Mittapally Rajani	Assistant Professor	Nalla Malla Reddy Engineering College	Excellent
J KRUPA RANI	Assistant Professor	Narsimha Reddy Engineering college	Very informative
Devarakonda sandhya rani	Assistant Professor	Mallareddy college of engineering	Very clear and informative
SHAIK NAVEED AHAMMAD	Assistant Professor	MRCE	Excellent
Lakshmi Priya S	Assistant Professor	Sathyabama Institute of Science and Technology	Good
Dr.Y.Saritha Kumari	Assistant Professor	Malla Reddy College of engineering	Excellent
Chatlapalli Ramya	Assistant Professor	Narasimhareddy engineering college	Nice session



# MALLA REDDY COLLEGE OF ENGINEERING

MAISAMMAGUDA, HYDERABAD, TELANGANA.

Koyyalamudisireesha	Assistant Professor	NRCM	Very useful session for technical education
SUDANI BABAY SAROJINI	Assistant Professor	SVEC	This class is very precious sir .Good explanation and informative. Thank you sir
Dr.C.Amaravathi	Assistant Professor	CMR Technical campus	Excellent
TADURI SRILATHA	Assistant Professor	Mallareddy college of engineering for women	Very informative session
Dr Apparao Babu	Assistant Professor	Sphoorthy engineering college	Everything is good
Mittapally Rajanj	Assistant Professor	Nalla malla ready engineering college	Excellent
K manjula devi	Assistant Professor	Malla reddy college of engineering	Excellent
DRK Mahesh	Assistant Professor	MRCE	Very nice session
P. Anuradha	Assistant Professor	Malla Reddy College of Engineering, Hyderabad	Excellent
V.Ramakrishna	Student	SR University	Nice
Channareddy orem	Assistant Professor	H&S	Excellent
Dr. M. RANADHEER KUMAR	Assistant Professor	KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE, WARANGAL	NO SUGGESTION, EXCELLENT TALK
Arjun. N	Assistant Professor	Malla Reddy College of Engineering	Excellent
M BHASKER	Assistant Professor	Malla Reddy college of Engineering	Good explanation
SATYAVATHI RAYALA	Assistant Professor	Narsimha Reddy Engineering College	Good



# MALLA REDDY COLLEGE OF ENGINEERING

MAISAMMAGUDA, HYDERABAD, TELANGANA.

K.shanker	Assistant Professor	Mrce	Excellent
Mr. GANGONE VIKRANTH	Assistant Professor	VIGNANA BHARATHI INSTITUTE OF TECHNOLOGY	Good session
WAZIDA BEGUM	Assistant Professor	SPHOORTHY ENGINEERING COLLEGE	Excellent
Veta.chaitanya	Assistant Professor	Malla Reddy college of engineering	Excellent
V. Rajasekhara Reddy	Assistant Professor	St. Martin's Engineering college	Excellent
NUTENKI KARUNAKAR	Assistant Professor	TGTWURJC COE (G), DEVARAKONDA, NALGONDA, TS	Excellent
Mudam Sreekanth	Assistant Professor	Malla Reddy College of Engineering	Nice session
PSUMALATHA	Assistant Professor	Malla Reddy College of Engineering	Good
B. Anilkumar	Assistant Professor	Mrce	Very good
Dr.V Anitha Rani	Associate Professor	Institute of Aeronautical Engineering	Excellent
Dr G Sundararajan	Associate Professor	St Martin's Engineering College Autonomous secunderabad	Informative session
Botta Bhavani	Assistant Professor	Sphoorthy engineering college	Good
Dr. Madhavi Kuncham	Associate Professor	Marri laxman Reddy Institute of Technology and Management	Needs more information
ANCHURI NAGARAJU	Assistant Professor	Sree chaitanya college of engineering, Karimnagar	Excellent
RUPA AKULA	Assistant Professor	MALLA REDDY COLLEGE OF ENGINEERING	Excellent
P chalapathi rao	Assistant Professor	Narsimhareddy engineering college	Good



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MAISAMMAGUDA, HYDERABAD, TELANGANA.

A.KARUNA SRI	Assistant Professor	Mallareddy college of engineering	Excellent
M NANI KISHORE	Assistant Professor	Malla Reddy college of engineering	Every thing is well and good session
Dr. KILARU SURESH	Assistant Professor	NALLA MALLA REDDY ENGINEERING COLLEGE	Thank you for giving the lecture on smart materials, conduct this type of seminars in future also, so that all faculties are meeting in one platform and discuss their views.
Dr. R. Venkanna	Assistant Professor	Sphoorthy Engineering College	Very informative topic on drug delivery smart material systems
Dr. D. RAJARAMAN	Assistant Professor	St. Peter's Engineering College, Hyderabad.	Excellent
Dr Sonadevi Selvam	Assistant Professor	St Peter's Engineering college	Excellent
Dr Varukolu Mahipal	Assistant Professor	St.Peters Engineering College	Excellent
Dr.M.Sudha Rani	Associate Professor	Guru Nanak Institutions Technical Campus	Excellent
CHINTHAPALLI VENUGOPAL	Assistant Professor	St Peter's engineering college	Excellent
CHINTHAPALLI VENUGOPAL	Assistant Professor	St Peter's engineering college	Excellent
Md.Moin Sanjari	Assistant Professor	Malla Reddy College of Engineering for women	Nice session
Dr. Y. Saroja	Associate Professor	Mallareddy college of engineering for women	Excellent



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DARNA SWAPNA	Assistant Professor	St.Martin's engineering college	Excellent
Dr Maniteja Gorikapudi	Associate Professor	Malla Reddy College of engineering for women	Excellent
K parijatha	Assistant Professor	Vidya jyothi Institute of technology	Excellent
B.KRISHNAVENI	Assistant Professor	CMR ENGINEERING COLLEGE ,KANDLAKOYA, MEDCHAL	Very nice informative session
Vijayarani salvadi	Assistant Professor	Smec	Good
R.Premalathasri	Assistant Professor	Paavai engineering college	Excellent
MALIGE. SHEKAR	Assistant Professor	St Mary's engineering college	Good
Dr.Masma Shaik	Assistant Professor	St.Peter's Engineering College, Hyderabad	Everything is fine.Tq
Bura Raju	Assistant Professor	Institute of Aeronautical Engineering	Excellent
G.Bhagyalaxmi	Assistant Professor	MARRILAXMAN REDDY INSTITUTE OF TECHNOLOGY AND MANAGEMENT	Excellent
Sandhya Vani kurra	Assistant Professor	Mallareddy college of engineering	Good
Dr.M.RANADHEER KUMAR	Assistant Professor	KAKATIYA INSTITUTE OF TECHNOLOGY &SCIENCE, WARANGAL	No, excellent session
Dr. Reshmi R. Nair	Associate Professor	Nalla Malla Reddy Engineering College	Kindly provide the today's Presentation
Dr.Maniteja Gorikapudi	Associate Professor	Malla Reddy College of engineering for women	Excellent
T SARALA	Assistant Professor	Mallareddy college of Engineering	Nothing
Radha Lavu	Assistant Professor	Mallareddy college of	Informative



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		engineering for women	
Kotha Sireesha	Assistant Professor	Pallavi engineering college	Keep it up
Mrs.Nagamani Gajjela	Assistant Professor	Malla Reddy College of Engineering	Excellent
Madupu Swathi	Assistant Professor	Narasimha Reddy Engineering College	Good
N.PANDURANGARAO	Assistant Professor	ST.MARTIN ENGINEERING COLLEGE	GOOD SESSION
P chalapathi rao	Assistant Professor	Narsimhareddy engineering college	Good
Dr Nehru Boda	Assistant Professor	St Martin's engineering College Hyderabad	Good conducting fdp
Dr Adaveni Suresh Kumar	Associate Professor	Keshav Memorial College of Engineering	Informative
Thokala Tharuna Varalakshmi	Assistant Professor	MRCE	Very Good session
Grandhe Radhika	Assistant Professor	Malla Reddy College of engineering	Excellent
V Ramakrishna	Student	SR UNIVERSITY	Nice
ANCHURI NAGARAJU	Assistant Professor	Sree Chaitanya College of Engineering, Karimnagar	Excellent
V. Rajasekhar Reddy	Assistant Professor	St. Martin's Engineering college	Excellent
Kotte navya	Assistant Professor	Mrce	Excellent
Dr.C.Amaravathi	Assistant Professor	CMR Technical campus	Excellent
CHINTHAPALLI VENUGOPAL	Assistant Professor	St Peter's engineering college	Excellent
NAVEEN.S	Assistant Professor	St.PETER'S ENGINEERING COLLEGE	Excellent
Dr. RAJI THOMAS	Assistant Professor	St. Martin's Engineering College	Excellent
Pendli Bharathi	Assistant Professor	St Martin's engineering college	Excellent
Dr.V Anitha Rani	Associate Professor	Institute of Aeronautical	Excellent



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		Engineering	
CHINTHAPALLY VENUGOPAL	Assistant Professor	ST PETERS ENGINEERING COLLEGE	Excellent
Chatlapalli Ramya	Assistant Professor	Narasimhareddy engineering college	Nice session
Bura Raju	Assistant Professor	IARE, Dundigal	Excellent
Dr. KILARU SURESH	Assistant Professor	Nalla Malla Reddy Engineering College	Thank you for giving lecture on smart materials, conduct this type seminars in future so that faculties are able to exchange their views and ideas on current trends in research.
Dr. Veerabathini Manohar	Assistant Professor	GDC A -Siddipet	Nothing
Mrs.KrishnaKumari	Assistant Professor	SCIENT INSTITUTE OF TECHNOLOGY	Good
Mrs.K.KrishnaKumari	Assistant Professor	SCIENT INSTITUTE OF TECHNOLOGY	Conduct more events in future also
Jyothirmayi.K.V.N.L	Assistant Professor	St.Mary's engineering college	The session was very informative thank you sir we look forward for more such sessions
Grandhe Radhika	Assistant Professor	Malla Reddy College of engineering	Nice
Dr CH GIRIDHAR	Associate Professor	MREC	Good
Khaleda Begum	Assistant Professor	Malla Reddy College of engineering	The session was useful
Dr T Bhaskara Rao	Associate Professor	Sri Sathya Sai University for human exlence	Vary good





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(APPROVED BY AICTE-NEW DELHI, AFFILIATED TO JNTUH-HYDERABAD)  
MAISAMMAGUDA, DHULAPALLY, POST VIA KOMPALLY, SECUNDERABAD - 500100

**CERTIFICATE OF PARTICIPATION**

*This is to certify that Dr. / Mr. / Ms. / A.KARUNA SRI of Malla Reddy college of engineering has actively participated in t 44/104 National level Faculty Development Program on Smart Materials-Bridging Innovation in Engineering Applications." conducted on 30th January 2025.*

  
Dr. Sneha Joshi  
HOD H&S

  
Dr. M. Ashok  
Principal, MRCE

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**CERTIFICATE OF PARTICIPATION**

*This is to certify that Dr. / Mr. / Ms. / Durga Sravanthi Yedidi of St.Peters Engineering College has actively participated in the "One day National level Faculty Development Program on Smart Materials-Bridging Innovation in Engineering Applications." conducted on 30th January 2025.*

  
Dr. Sneha Joshi  
HOD H&S

  
Dr. M. Ashok  
Principal, MRCE

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MAISAMMAGUDA, DHULAPALLY, POST VIA KOMPALLY, SECUNDERABAD - 500100

**CERTIFICATE OF PARTICIPATION**

*This is to certify that Dr. / Mr. / Ms. / R.Premalathasri of Paavai engineering college has actively participated in the "One day National level Faculty Development Program on Smart Materials-Bridging Innovation in Engineering Applications." conducted on 30th January 2025.*

  
Dr. Sneha Joshi  
HOD H&S

  
Dr. M. Ashok  
Principal, MRCE



# MALLA REDDY COLLEGE OF ENGINEERING

MAISAMMAGUDA, HYDERABAD, TELANGANA.

## OUTCOME OF THE PROGRAMME

The outcomes of a program focused on " Smart Material-Bridging Innovation in Engineering Application" would be multifaceted, encompassing knowledge, skills, and competencies that are critical in these cutting-edge fields.

**Knowledge Outcomes:** Smart materials are at the forefront of innovation, representing a paradigm shift in how we design and utilize materials. Their ability to dynamically respond to environmental stimuli offers unparalleled opportunities for advancements in technology, medicine, and sustainability. From life-saving biomedical applications to cutting-edge aerospace systems and energy-efficient solutions, smart materials are redefining the boundaries of functionality and adaptability.

However, challenges such as high production costs, durability under extreme conditions, and environmental concerns must be addressed to unlock their full potential. The integration of nanotechnology, artificial intelligence, and eco-friendly manufacturing practices holds promise for overcoming these obstacles. As interdisciplinary research continues to flourish, the development of multifunctional and sustainable smart materials will pave the way for a future characterized by intelligent systems and solutions.

### **Professional Development:**

1. **Career Advancement:** Prepare for careers in academia, industry, or clinical settings where expertise in smart materials are essential. Enhance professional growth through networking, conferences, and continuous learning in the field.
2. **Lifelong Learning:** Foster a mindset of lifelong learning to keep pace with the rapidly evolving field of smart materials and their biomedical applications. Stay updated with the latest research, technological advancements, and industry trends. By achieving these outcomes, participants will be well-equipped to contribute to the advancement of biomedical applications.