



SREYAS INSTITUTE OF ENGINEERING & TECHNOLOGY

Nagole, Hyderabad- 500 068.

DEPARTMENT OF MECHANICAL ENGINEERING

FDP Report on

“Joining of Advanced Materials”

Date: 11/07/2017

By

Dr G. Madhusudhan Reddy

Outstanding Scientist and additional Director,

Defense Metallurgical Research Laboratory (DMRL)



In association of

Indian Institute of Welding

Chief Patron



Sri Vinay Kumar Reddy, Chairman

Patrons



**Sri Ch. Ravindranath Yadav,
Secretary**



**Sri N. Sharath Reddy,
CEO**



**Sri A. Hriday Reddy,
Vice-Chairman**

Principal



Dr Suresh Akella



**Mr. A C S Reddy
HOD**



**Mr. Y. Krishna
FDP Coordinator**

The department of mechanical engineering organized one day faculty development programme (FDP) on “**Joining of Advance Materials**” on **11/07/2017**

Resource Person: Dr G. Madhusudhan Reddy

Outstanding Scientist and additional Director, DMRL

Dr G. Madhusudhan Reddy was felicitated by Sri Ch. Ravindranath Yadav, Secretary, Dr Suresh Akella, Principal and Mr.ACS Reddy, Head of Mech. Dept.

Resource person covered following topics...

- ❖ Brief Introduction to DMRL and its works in the area
- ❖ Introduction to welding and its types
- ❖ Recent advancements in the area of metal joining
- ❖ Metallurgical Transformations and its effects on defense applications
- ❖ Challenges in developing materials for defense applications

Objective of FDP:

- ❖ To give insight on recent technologies and advancements in metallurgical process while joining metals
- ❖ To have deep understanding of micro structural changes in HAZ and its effects on mechanical properties
- ❖ To promote research in the metallurgy area
- ❖ To motivate faculty members to gather students to do research and projects in the field of welding

Outcome of workshop:

- ❖ After completion of this FDP, faculty members are able to differentiate different welding methods and micro structural changes in the material.
- ❖ Faculty were able to understand and adopt recent technologies in joining of material
- ❖ Faculty member should be able to transfer the acquired knowledge into teaching curriculum and research work
- ❖ Faculty members should be able to publish articles and research papers with the help of UG and PG Students
- ❖ Faculties may visit nearest DMRL lab to have experience about their work



In Picture: FDP Banner



In Picture: Resource Person Dr. G.Madhududhan Reddy, DMRL, with Sri Ch. Ravindranath Yadav, Secretary, Dr Suresh Akella, Principal Dr. Venkateswarlu, Director of Academics and Mr.ACS Reddy, Head of Mech. Dept. and faculty members of department