ABOUT THE DEPARTMENT

The Department of Metallurgical Engineering was established in 1981 as a part of Mechanical Engineering. During the 30 years of its existence it has emerged as a leader in Metallurgical education in the country. Its glorious past has been written in letters of Gold in the history of Andhra University as the most successful academic program initiated by the University. Having completed three decades of excellence it is now the pioneer among the Metallurgical Institutes in the state and is on par with the best in the country. With an annual intake of 30 undergraduates, over the years it has produced numerous Metallurgical Engineers who occupying the key positions both in India & abroad. By virtue of being the only Metallurgical Engineering Department in coastal Andhra Pradesh, it caters to the needs of Metallurgical industry there.

The Department enjoys a strong University - Industry interaction by way of extending consultancy to the industry in coastal Andhra Pradesh. Technocrats often visit the Department and share their expertise with faculty and students. Most of the undergraduate and post graduate projects are carried out in the industries in and around Visakhapatnam. Besides, the faculty takes up numerous sponsored research projects in association with the industries and R&D institutes.

Impressed with its performance, the National Board of Accreditation (NBA) accredited the Department for 5 years in the year 2004 and Acquired A+ grade from NAAC. The M. E. (Day time) program offered by the Department in Industrial Metallurgy with annual intake of 18 has been approved by the AICTE in the year 2003. The Department is also offering M.E. (Part time) in Industrial Metallurgy with intake of 18 to cater the needs of locally employed people. The Department is having a facility to pursue Ph. D in Metallurgical Engineering, till now produced 11 Ph. Ds and 14 Ph. D students are on rolls. The Department is the first of its kind to offer an M. Tech program in Nano Technology.

ALUMNI

Of the 600 graduates of the Department, many are well placed in Industry and R&D organizations. Many of them pursued their higher studies in esteemed institutions and universities in India and abroad. The following achievements are noteworthy:

- Prof Rama Murthy Upadrashta (alumnus 1985 - 89) received the prestigious Shanti Swarup Bhatnagar award for the year 2011
- Four of the alumni bagged the coveted Jawaharlal Nehru Fellowship for Ph. D at Cambridge University for three consecutive years - 1985, 1993, 1994 and 1995.
- Three of them got the Young Metallurgist award of Indian Institute of Metals for the years 1992, 1997 and 2002.
- Two of them are on faculty at National University of Singapore and University of Connecticut, Florida, USA.
- Many of them occupy faculty positions at BHU, IISc, JNTU, AU and Govt. Polytechnics.
- Some of them are scientists at DMRL, IGCAR, DRDO and ISRO.
- Several of them have been excelling in the academics, metallurgical and software industries both in India and abroad.

LABORATORY FACILITIES

The Department has facilities for Metallographic Examination, Image Analysis, Heat Treatment, Foundry Sand Testing, Mechanical Testing, Mineral Beneficiation, Corrosion Testing and Computational work. With funding from MHRD in 1992, AICTE under the MODROBS in 1997 and the UGC Plan grants, the Departmental laboratories have been upgraded. The department is further equipped with the state of the art laboratories in the disciplines of corrosion, welding, composites and nano materials aided by World Bank funding under the TEQIP phase I. The Department now has the latest world-class equipment to cater the needs of the students and the faculty. Some of the facilities available are: Metallographic Image Analyzer, Stereo zoom microscope, Digital automatic Vickers micro & Macro hardness testers, Computer controlled 10.0 Ton UTM, Computerized corrosion testing equipment, TIG & MIG welding machines, Wear and abrasion test rig, 250 T extrusion press, Computerized weld corrosion tester, Portable hardness tester, ECAP model machines, High Energy Ball mill and XRD facility.

RESEARCH

Apart from teaching, the Department is actively engaged in research work on the Corrosion, Welding, Structure Property correlation, Development of Composites, Nano materials, Creep testing and Software Development for Metallurgy applications. Till now The Department has obtained more than one crore rupees of funding from various agencies like AICTE, UGC, NISTL, RINL, NRB, DRDO, DST etc., To take up research and consultancy projects.

ACTIVITIES

The Department houses a Students Chapter of Indian Institute of Metals (IIM). In collaboration with IIM - Visakhapatnam Chapter, the Department has successfully organized the national meets like Conference of Students Metallurgical Engineers and Technologists (COSMET) - 2000, 2001 & 2007 and National Workshop on Perspectives in Metallurgy and Materials Science (PMMS) – 2005, Indo-US Workshop - 2005 on Texture and Macrostructure in Close-Packed Metals, and one National Workshop on Composite Materials – 2007 and also national conference of Materiaux 2012 with active participation from faculty, students and Metallurgists from various industries and institutes.

ABOUT THE WORKSHOP

The workshop is aimed at bringing together the scientific and technical community to share their knowledge in field of advance material research. Eminent persons share their knowledge with the participants, which in turn are expected to promote research activities in advance materials. It is decided to give the audience the best and make them to initiate research activities in their Parent institution. It is
aimed to provide the participants a complete knowledge in the areas to be covered in the workshop and make them instrumental in pursuing quality research. This is expected to attract more number of researchers towards the scientific side and extending their findings towards the technical side.

ELIGIBILITY

The Faculty, Research scholars, UG & PG students of Mechanical & Metallurgical Engineering and practicing Engineers are eligible to attend. The participants will be provided with workshop kit and working lunch. **No TA/DA will be given.**

TOPICS TO BE COVERED

1. Advanced topics in:
   a. Metal Forming
   b. Welding
   c. Casting
   d. Powder Metallurgy and
   e. Surface Engineering
2. Computer Simulations in Manufacturing processes

REGISTRATION DETAILS

UG/PG Students = Rs. 500/-
Faculty from Academic Institutions: Rs. 1000/-
Members from Industry: Rs. 1500/-
The Registration Fee has to be paid in the form of DD Drawn in favour of convener AMP-2013 payable at SBI A.U.C.E. Visakhapatnam.

ACCOMMODATION

The participants have to make their own arrangements for accommodation. However, free hostel accommodation will be provided for both boys and girl students, for others it can be arranged on request on chargeable basis.

We invite you to join the **AMP – 2013** to feel and experience the shear pride of being a Materials Engineer.