

NIT WARANGAL
STUTI workshop on
Evaluation of materials properties under dynamic loading
(19-25 Jan 2023)

Day 1:- 19/01/2023

At 9 am the program started with the registration process of candidates and also distribution of stationary to the participants. The program started with a national song followed by the inauguration by key guest honors. 11 AM to 12 PM Director's talk. Then from 12 PM TO 1 PM. The structure and properties of materials were taken up by Dr. V Sreedevi. In the afternoon session Dynamic properties evaluation- Part I was taken up by Dr V Sreedevi. From 1.30 AM to 2.30 PM. Then after that Quantitative Metallography was taken up by Dr. R. Arockia Kumar from 2.30 AM to 5.30 PM.

Day 2:- 20/01/2023

In the morning from 9.00 AM to 11.00 AM Dynamic properties evaluation- Part II was taken up by Prof.N. Narasaiah after that from 11.00 AM to 1.00 PM Talk by DMRL/ IGCAR scientist Dr. T. Jayakumar/ Sri BhavSingh. Then in the afternoon session Evaluation of static mechanical properties (Dr. RAK), CRIF. Dynamic properties evaluation was taken up by Dr. Bonta Srinivasa Rao MMED From 1.30 PM to 5 30 PM.

Day 3:- 21/01/2023

In the morning from 9 AM to 11 AM Dynamic mechanical properties of weldments were taken up by Dr. T. Jayakumar then the Dynamic properties of additively manufactured materials were taken up by N. Kishore Babu from 11 to 1 PM. In the afternoon session Evaluation of static mechanical properties was taken up by Dr. R. Arockia Kumar, and CRIF Dynamic properties evaluation by Dr. Bonta Srinivasa Rao MMED From 1 30 to 5 30 PM.

Day 4:- 22/01/2023

In the morning from 9 AM to 11 AM X-ray characterization of materials was taken up by Dr. Ajoy Kumar Pandey next the theory session on Scanning electron microscopy was taken up by Dr. Uma Maheswara Rao Seelam from 11 to 1 PM. In the afternoon XRD laboratory was explained by Dr Sukla Mondal and the SEM laboratory was explained by Dr. Uma Maheswara Rao Seelam From 1.30 to 5.30 PM.

Day 5:- 23/01/2023

In the morning from 9.00 AM to 11.00 AM High strain rate testing of materials, Dr. T P Tezeswi, and the next chemical analysis using ICP-OES were taken up by Prof. Ramachandriah and in the afternoon session Hands-on session on Dynamic mechanical analyzer (DMA)/ ICP-OES (Venues: ICP-OES@CRIF; DMA & MMED) From 1 30 to 5 30 PM.

Day 6:- 24/01/2023

In the morning from 9 AM to 11 AM Creepfatigue interaction was taken up by Prof. G. V. S. Nageswara Rao Talk by DMRL/ IGCAR scientist was taken up by Dr. T. Jayakumar/ Sri Bhav Singh. In the afternoon session Analysis of dynamic data Dr. Bonta Srinivasa Rao From 1 30 to 5 30 PM.

Day 7:- 25/01/2023

In the morning from 9 AM to 11 AM Theory session on UV-Vis NIR Spectrophotometer Prof. V Rajeswar Rao then from 11 to 1 PM DBT temperature measurement/Elastic modulus measurement by IET (Venue: MMED) In the afternoon session Hands-on session on UV-Vis NIR Spectrophotometer was taken up by B.Srinivas and at the end of the day Valedictory & Feedback Session