

Report: Short Term Course on “*Material Characterization Techniques*” from June 17-21, 2019.

A Short Term Course on “*Material Characterization Techniques*” of One Week Duration was inaugurated in Dr BR Ambedkar National Institute of Technology, Jalandhar. The course is Jointly organized by Department of Physics and Department of Mechanical Engineering from June 17-21, 2019 and is Sponsored by TEQIP-III .

Dr LK Awasthi, Director , NIT Jalandhar was the Chief Guest for the inaugural session and Dr S K Mehta, Head Instrumentation Facilities, Panjab University Chandigarh was the Guest of Honour.

Dr LK Awasthi also highlighted the fact that with advancement in Science and Technology the characterization of materials using different advance techniques like FESEM, HRTEM, STM, AFM, Powdered XRD, Single crystal crystallography, Solid state NMR, Raman Spectroscopy etc, has become the necessity. He further highlighted that before the findings/investigations could be published in reputed journals it must be certified with the sophisticated instrumentation facilities.

Earlier Dr Rohit Mehra and Dr Raman Bedi, coordinator of the course welcomed all the participants and highlighted the various aspect of the course. Dr Mehra, explained that the present short term course has been designed in such way that necessary deep knowledge could be delivered to the participants so that they could serve the scientific society in a better way and with depth of the knowledge. Dr. Raman Bedi highlighted that the participants will be given in hand experimental exposure to the various experimental facilities available in the institute. Dr Bedi further highlighted that the Resource Persons for the course will be highly experienced faculty members from reputed Institutes like IITs, Panjab University Chandigarh, Central Universities, CSIR Laboratories, IISERs, etc.

62 participants from outside institutes and 60 internal faculty and research scholars have registered for the STC.



Dr Rohit Mehra and Dr Raman Bedi extending the Green Welcome to Chief Guest.



Dr Lalit Kumar Awasthi, Director NITJ welcoming the participants.

Dr SK Mishra, Registrar also welcomed all the participants and congratulated the organizers to add the experimental touch to the course which is really the need of an hour.

In his Keynote address Dr SK Mehta highlighted on various experimental facilities available in Panjab University and encourage the participants to properly design the problem of research and how to use the best fit experimental facility for the authentication of results in the field of material sciences. He further highlighted that that the material science has a very expanded scope and made the participants aware about the various avenues of research.

Dr. RK Garg, Dr SBS Mishra, Dr SP Singh, Dr Harsh Verma and Dr Sonia Chawla along with many other faculty members were also present during the inaugural session.

During the five days experts from IITs /NITs/Thapar University/Delhi University including Dr S K Tripathi from Panjab University, Chandigarh, Dr. Harpreet Singh from Indian Institute of Technology, Ropar, Dr P D Sahare from Delhi University, New Delhi, Dr BSS Daniel from Indian Institute of Technology, Roorkee, Dr OP Pandey from Thapar Institute of Engineering and Technology, Dr Ravi Kumar from National Institute of Technology, Hamirpur , Dr Kiran Singh from NIT Jalandhar and Dr Buta Singh from MRS PTU Bathinda shared their experiences with the participants regarding different Material Characterization Techniques. First time the STC was planned in such a way that the participants were given practical training and hand on experimental exposure for XRD, FTIR, UV-Vis and DMA.