
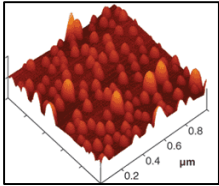



OBJECTIVES AND COURSE CONTENT OF SHORT TERM COURSES

TAC No.	HBAS-1
Name of the Course	Innovations in Nanotechnology: Opportunities and Challenges (05 – 09 October 2026) <p style="text-align: right;">(Inter-Disciplinary)</p>
Objectives of Course 	The objective of the course is to provide an overview, innovations and advances made in development of nanotechnology for future Nano-scale applications. Emphasis will be on innovative nanoscale applications and challenges faced in synthesis, characterization and preservation of nanoparticles, device fabrication and societal impact.
Course Content  	The course shall cover the topics: Nanoscience and Nanotechnology- an overview; Innovation and Nanotechnology, Novel nanomaterials and nanostructures; Synthesis and Characterization techniques; Nano-electronics and Bio-molecular devices; Nano-scale modelling and Simulations; Nano composites and coatings; Nano-medicines and smart devices for Healthcare; Nanomaterials for energy and environment, Energy Storage etc. Field visits/video presentations to supplement the factual knowledge disseminated during the expert lectures.
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