

Lectures Organized BY AMI for Academic Year 1435/1436 h

No	Lecture Title	Date
1	Interface Science of Inorganic Nanocomposites.	6/11/2014
2	Corrosion and Corrosion Inhibition of High Strength Low Alloy Steel in Acidic Pickling Solutions by 3-Amino-1,2,3-triazole as a Corrosion Inhibitor.	13/11/2014
3	Effect of Consolidation and Sintering parameters on the mechanical responses of Nanocrystalline Al-Fe alloy processed by Mechanical Alloying.	20/11/2014
4	The inhibition action of thiourea on corrosion behavior for spirally welded pipeline steel in acid media.	27/11/2014
5	Design & Optimization of Dye-sensitized Solar Cells.	04/12/2014
6	Cerium Oxide Nanomaterials: Synthesis and Biomedical applications.	11/12/2014
7	Developing Corrosion Resistance Epoxy/2Pack coating with incorporation of Polypyrrole for Petroleum Industries Application.	18/12/2014
8	Sonochemical Synthesis of Cu ₂ ZnSnS ₄ and Cu ₂ ZnSnSe ₄ Nanocrystals for Absorber Layer Application in Thin Film Solar Cells.	25/12/2014
9	Producing Nano-crystalline materials using Mechanical Alloying Technique	01/01/2015
10	<ul style="list-style-type: none"> -Fabrication of New Nanocrystalline Aluminum and Aluminum Base Alloys and Evaluating their Mechanical Properties and Corrosion Behavior in Corrosive Environments - Production of High Strength Al alloys with enhanced Electrical Conductivity for Power Transmission Line (Cable) Applications. - Developing Epoxy /2Pack pigmented nano-Coatings and their corrosion resistance performance evaluation for splash zones Applications. - Developing a nano-composite of Poly Propylene with incorporation of nano-TiO₂ for industrial pails. - Development of Automotive Brake Pads from Aluminum based Metal Matrix Composites (MMCs). - Ceramic Nanocomposites for Bullet-Proof Products. -Development of N-Graphene Based Metal Oxide Nanostructured Materials for High Performance Batteries. -Wastewater treatments by nanofiber membranes. 	03/01/2015
11	Mass Production of Two-Dimensional Crystals as Materials for Energy Conversion and Storage	06/01/2015
12	Genetic Algorithm and its applications in Engineering	09/09/2014
13	Modeling of electron beam melting based additive manufacturing	14/10/2014
14	Finite Element Modeling of the Orthogonal Machining of Particle Reinforced Aluminum based Metal Matrix Composites.	21/10/2014
15	Kai Zen: Innovation in domestic and Industrial Application (Thinking out of the box)	28/10/2014

16	Formation of Dynamic Cellular Manufacturing Systems with Multiple Resources and Stochastic Demand	04/11/2014
17	Mesh criteria for high quality simulation	11/11/2014
18	HAPTIC ASSISTED VIRTUAL ASSEMBLY	18/11/2014
19	Layered Materials: Applications in Nanoelectronics and Sensors	25/11/2014
20	Efficient Measurement on Coordinate Measuring Machines	02/12/2014
21	Surface improvement of Electron Beam Melted Ti-6Al-4V by Laser Ablation	16/12/2014
22	Study on selection of best implant reconstruction technique using Qeomagics Qualify	23/12/2014
23	Intelligent Future Planning for Prismatic Parts	30/12/2014
24	Improving Surface Quality of γ -TiAl Produced by EBSM Process	13/01/2014
25	Microstructure Studies of Electron Beam melted Gamma Titanium Aluminide	03/02/2015
26	Developing and Evaluation an Intelligent Generation System for CNC Programs	10/02/2015
27	Applications of Mesh Free Methods in Modeling of Manufacturing Operations	17/02/2015
28	Selection, Modeling and Prediction of Life of Stripper of Compound Die	24/02/2015
29	Experimental validation for Finite Element Analysis bus design calculations	03/03/2015
30	Ant Colony Optimization for Job Shop Scheduling to Minimize theTotal Weighted Tardiness	10/03/2015
31	Improving inspection task on Coordinate Measuring Machines	17/03/2015
32	A Hybrid Machining Process Combining Micro-EDM and Laser Beam Machining	24/03/2015
33	Patient Specific Mandibular Implant for Maxillofacial Surgery using Additive Manufacturing	14/04/2015
34	On Computation of Liveness Enforcing Supervisors from Submodels of a Petri Net Model of Flexible Manufacturing Systems	18/09/2014
35	An Energy Based Force Model for Machining Metal Matrix Composites	31/03/2015