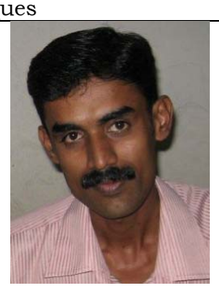
Lecture Schedule: TEQIP STP Advanced Gear Engineering (November 21-22, 2015)

Department of Mechanical Engineering, Indian Institute of Technology Guwahati INDIA

	9-10 AM	10-11 AM	11-12 AM	12-1 PM	2-3 PM	3-4 PM	4-5 PM
21.11.2015 Saturday	History and Manufacturing of Gears **Prof US Dixit**	Pedagogy **Prof Arun Chattopadhya**	High Quality finishing of Gears by Electrochemical Honing Process **Prof. Neelesh Kumar Jain**	Finite Element Analysis in Gear Design **Dr Rama Thirumurugan**	Online Condition Monitoring of High Speed Gears using Vibration and Oil Analyses **Prof Harish Hirani**	Modelling and Experimental Validation of Gear Misalignment **Prof Harish Hirani**	Fatigue Failures Including Gears **Prof S K Kakoty**
22.11.2015 Sunday	Near Net-shape Manufacturing of High Quality Miniature Gears by WEDM Process **Prof. Neelesh Kumar Jain**	Polymer Composite Gears **Dr S Senthilvelan**	Heat Treatment Methods for Gears **Prof PS Robi**	Transmission Characteristics and Bi-directional Loading **Mr M Kodeeswran**	Design of High Contact Ratio Gears **Dr Rama Thirumurugan**	Fault Diagnosis Of Gearbox Using Machine Learning Techniques **Dr Saimurugan**	Asymmetric Spur Gears and Air cooling **Mr A Johnney Mertens**

					
Prof U S Dixit IIT Guwahati Design and Manufacturing : FEM, Neural Network and Fuzzy Set Application; Mechatronics	**Prof Arun Chattopadhya, IIT Guwahati** Thin Films, Membrane Sciences, and Nano Science & Technologies.	**Prof. Neelesh Kumar Jain IIT Indore** Advanced Machining and Finishing Processes. Soft Computing Techniques	**Dr Rama Thirumurugan, MCET** Gear Design, Composite Materials, Finite Element Analysis, Vibration analysis	**Prof Harish Hiranai IIT Delhi** Magnetic Bearing, Journal Bearing ,MR Fluid ,Mechanical Seals ,Online Condition Monitoring of Lubricated Gears	**Prof S K Kakoty, IIT Guwahati** Tribology, Duct Acoustics, Mechanical System Design, Rural Technology
					
Dr S Senthilvelan IIT Guwahati Composites, Fatigue, Wear and Failure Analysis	**Prof P S Robi, IIT Guwahati** Coating, Fracture Mechanics, Materials Processing, Metal Matrix composite, Metal Casting, P/M Processing	**Mr M Kodeeswran, VSSC** PhD Scholar: Non metallic gears	**Dr M Saimurugan, Amrita University** Vibration Analysis, Machine Learning and Machine Condition Monitoring.	**Mr Johnney Mertnes, IITG** PhD Scholar: Asymmetric and CNT based composite gears	

Venue: Conference Hall Complex, Hall No. 3