

Upcoming GIAN Courses

S. No.	GIAN Course ID	GIAN Course Title	International Faculty	Host Faculty	Department	Durarion of the Course	No. of Weeks	No.of Participants
1	171003L16	Models of Walking and Running: Human Gait and Robot Locomotion	Prof. James Schmiedeler, University of Notre Dame United States of America	Prof. Sujatha Srinivasan	Mechanical Engineering	22.07.2019-27.07.2019	1	
2	171003L24	Free boundary problems in mechanics	Prof. Stephane Pierre Alain Bordas, Université du Luxembourg Luxembourg	Prof. Sundararajan Natarajan	Mechanical Engineering	23.10.2019 - 31.10.2019	1	
3	171003C01	Design of coastal structures including extreme events	Prof. Holger Schuettrumpf, RWTH Aachen University Germany	Dr. V. Sriram, OE	Ocean Engineering	14.10.2019 - 18.10.2019	1	
4	171003L12	Efficient Heat Transfer Utilizing Liquid/Vapor Phase Change	Prof. Manfred Groll, Formerly at University of Stuttgart, Germany	Prof. M.P. Maiya, ME	m p	09.12.2019 - 21.12.2019	2	
5	171003L28	Design and Construction of Sustainable Concrete Pavements	Prof. Neeraj Buch, Michigan State University United States of America	Prof. A. VEERARAGAVAN, CE		09.12.2019 - 13.12.2019	1	

Completed GIAN Courses

15-16

S. No.	GIAN Course ID	GIAN Course Title	International Faculty	Host Faculty	Department	Durarion of the Course	No. of Weeks	No.of Participants
1	151003L04	Modelling Engineering Turbulent Flows	Prof. Danesh Tafti [United States of America]	Dr.S. Vengadesan	Applied Mechanics	19-25 December, 2015	1	24
2	151003L01	Insect and Bird Aerodynamics-Theory and Methods	Prof. Danesh Tafti [United States of America]	Dr.S. Vengadesan	Applied Mechanics	24-30 December, 2015	1	21
3	151003D04	Integrated Circuits for High-Speed Serial Links	Dr. Pavan Kumar Hanumolu [United States of America]	Dr.Shanthi Pavan Dr. Nagendra Krishnapura	Electrical Engineering	25-29 December, 2015	1	45
4	151003D01	Millimeter-wave Integrated Circuits: 60GHz and Beyond	Dr. Harish Krishnaswamy [United States of America]	Dr.Shanthi Pavan	Electrical Engineering	1-17 January, 2016	2	52
5	151003D03	Optical Coherent Communication	Prof. Liam Barry [Ireland]	Dr.Deepa Venkitesh Dr.David Koilpillai	Electrical Engineering	4-15 January, 2016	2	25

6	151003H01	3 Dimensional Cell based therapeutic approach for tissue repair and regeneration	Dr. Noam Levoat [Israel]	Dr. Rama S Verma	Bio Technology	26th January, 2016 to 5th February, 2016	2	12
7	151003D02	Advanced Topics in Instrumentation	Prof. Subhas Mukhopadhyay [New Zealand]	Dr.Boby George Dr.Jagadeesh Kumar	Electrical Engineering	1-12 February, 2016	2	23
8	151003L05	Fire Dynamics and Fire Protection	Prof. José L. Torero [Australia]	Dr.Amit Kumar Dr.V Raghavan Dr.S R Chakravarthy Dr.T M Muruganandam	Aerospace Engineering	6-12 February, 2016	1	28
9	151003A02	Seismic Analysis and Design of Masonry Structures	Prof. Guido Magenes [Italy]	Dr.Arun Menon	Civil Engineering	8-20 February, 2016	2	17
10	151003M01	Introduction to Marine Renewable Energy	Prof. A. Robin Wallace [United Kingdom]	Dr.S.A.Sannasiraj Dr.V Sundar	Ocean Engineering	13-18 February 2016	1	20
11	151003A03	Computations for Historical Masonry	Prof. Paulo Lourenco [Portugal]	Dr.B.N.Rao Dr.A.Meher Prasad	Civil Engineering	1-11 March, 2016	2	22
12	151003B08	Tailored and Tunable Properties of Nanomaterials	Prof. Dr.-Ing. Horst Hahn [Germany]	Dr.S.S. Bhattacharya Dr.B.S. Murty	Metalurgical Materials Engineering	3-17 March, 2016	2	23

13	151003M03	Extreme Waves in Ocean Engineering	Prof. Felice Arena, Italy	Dr.Sannasi Raj S.A.	Ocean Engineering	21st March to 1st April, 2016	2	13
14	151003L06	Turbulence Models for Engineering Application	Dr. Paul Durbin, Iowa State University, USA	Dr.S. Vengadesan	Applied Mechanics	16-22 May, 2016	1	24
15	151003L12	Megaproject Leadership and Governance: Capabilities for New infrastructure development	Dr. Nuno Gil, The University of Manchester, UK	Dr. Ashwin Mahalingam	Civil Engineering	1-7 April, 2016	1	15
16-17								
16	151003A04	Seismic Risk Assessment at Urban Scale	Prof. Dina D'Ayala, The University of London, UK	Dr.Arun Menon	Civil Engineering	18-22 April, 2016	1	16
17	151003L09	Automotive Noise and Vibration Control: Contemporary Engineering Practice and Research Issues	Prof. Rajendra Singh [United States of America]	Dr.P.Chandramouli	Mechanical Engineering	16-27 May, 2016	2	29
18	151003L08	Multiscale methods for mechanics	Prof. BORDAS Stéphane Pierre Alain [United Kingdom]	Dr.Sundararajan Natarajan	Mechanical Engineering	23rd May - 3rd June, 2016	2	18

19	151003L03	Vehicle Dynamics and Control	Prof. Rajesh Rajamani [United States of America]	Dr.C.S.Shankar Ram	Engineering Design	30th May - 3rd June, 2016	1	31
20	151003B05	Advanced Steels for the Automotive Industry and Other Sectors	Prof. Peter D Hodgson [Australia]	Dr.B S Murty Dr.V Subramanya Sarma	Metalurgical and Materials Engineering	1-15 June, 2016	2	22
21	151003D06	Mobile and Cloud Security	Prof. Byrav Ramamurthy [United States of America]	Dr.Krishna M. Sivalingam	Computer and Science Engineering	6-17 June, 2016	2	23
22	151003B06	Catalysis in Green Chemistry and Environmental Applications	Prof. K. Seshan [Netherlands (Holland, Europe)]	Dr.P Selvam	Chemistry	1-10 June, 2016	2	23
23	151003G05	Application of System Approach for Precision Grinding Processes	Dr. K. (Subbu) Subramanian [United States of America]	Dr.N. Ramesh Babu	Mechanical Engineering	6-10 June, 2016	1	28
24	161003L15	Mechanics and Modeling of Soft Materials: From Natural Rubber to Biomaterials	Prof.Arun Srinivasa, Texas A&M University, Texas, USA	Dr.M.S.Sivakumar Dr.Srikanth Vedantam	Engineering Design	13-19 June, 2016	1	55

25	161003J02	Increasing Efficiency and Reducing Cost Within a Supply Chain (U.S. and Indian Perspectives)	Dr.Zach G. Zacharia, Lehigh University, Bethlehem, PA, USA	Dr.Usha Mohan	Management Studies	13-17 June, 2016	1	16
26	151003K04	High-Performance Parallel Computing	Prof. Ponnuswamy Sadayappan [United States of America]	Dr.Rupesh Nasre	Computer science Engineering	20th June, 2016 to 1st July, 2016	2	31
27	151003B04	Fabrication, Testing and System Integration of Solid Oxide Fuel Cells	Dr. Aman Dhir [United Kingdom]	Dr.Sreenivas Jayanti Dr.Ranjit Bauri	Metalurgical and Materials Engineering	27th June, 2016 to 2nd July, 2016	1	17
28	151003J02	SUPPLY CHAIN ENGINEERING AND MULTI-CRITERIA DECISION MAKING	Prof. A. Ravi Ravindran [United States of America]	Dr.C. Rajendran	Management Studies	27th June to 8th July, 2016	2	22
29	161003B02	Metabolic Engineering for Bioprocesses	Prof.Mark A. Eiteman, University of Georgia, USA	Dr.T.S. Chandra Dr. S. Ramalingam Anna University	Bio Technology	2-15 July, 2016	2	31

30	151003B07	Advanced Casting and Solidification of Light Alloys for Transportation	Prof. C. Ravi Ravindran [Canada]	Dr.B.S. Murty	Metalurgical and Materials Engineering	4-11 July, 2016	1	15
31	161003G02	Scheduling Systems - An Integrated View on Models, Methods and Tools with a Focus on Manufacturing and Service Systems	Prof. Dr. Rainer Leisten, University of Duisburg-Essen, Germany	Dr.C.Rajendran	Management Studies	8-17 July, 2016	2	25
32	151003L11	Advanced Bridge Design and Construction	Prof. Joan Ramon Casas, Technical University of Catalonia (UPC), Barcelona, Spain	Dr. Ravindra Gettu Dr. Amlan K Sengupta	Civil Engineering	11-23 July, 2016	2	38
33	151003K03	Splines and Fractals in Approximation and Interpolation Theory	Prof. PD PETER MASSOPUST [Germany]	Dr.A.K.B. Chand	Management Studies	15-29 July 2016	2	23
34	151003L07	Stakeholder Management for Large Engineering Projects	Dr. Geert Dewulf, University of Twente, The Netherlands	Dr. Ashwin Mahalingam (CE)	Civil Engineering	18-24 July, 2016	1	27

35	151003K02	Randomized Algorithms	Prof. Aravind Srinivasan [United States of America]	Dr.C. Pandurangan	Computer and Science Engineering	18-31 July 2016	2	15
36	161003L12	Nonlinear Continuum Mechanics	Prof. Timon Rabczuk, Bauhaus University, Germany	Dr.Sundararajan Natarajan	Mechanical Engineering	18-29 July, 2016	2	33
37	161003L08	Advances in Seismic Hazard Analysis and Soil-Structure	Prof. Carlo G. Lai, University of Pavia, Italy	Dr. G. R. Dodagoudar	Civil Engineering	18-30 July, 2016	2	51
38	161003G01	Micro-Renewable Energy Architecture	Prof.Narayanan M. Komerath, Georgia Institute of Technology, USA	Dr.S. R. Chakravarthy (AE)	Aerospace Engineering	25th July 2016 to 5th August 2016	2	5
39	161003H04	Biomedical Engineering Systems	Prof.Steffen Leonhardt, Aachen University, Aachen, Germany	Dr.V. Jagadesh Kumar Dr. Boby George	Electrical Engineering	25th July, 2016 to 5th August, 2016	2	31
40	161003K01	Distributed Network Algorithms: Foundations and Future Directions	Dr. Gopal Pandurangan, University of Houston, USA	Dr. John E. Augustine	Computer and Science Engineering	1-12 August, 2016	2	28
41	161003L04	Finite Elements in Fluids	Prof. P. Nithiarasu, Swansea University, UK	Dr. K. Arul Prakash	Applied Mechanics	1-5 August, 2016	1	48
42	161003J03	Supply Chain Modeling and Decision Making	Prof. Kannan Govindan, University of Southern Denmark, Odense, Denmark	Dr. Arshinder Kaur	Management Studies	1-7 August, 2016	1	29

43	161003I14	Fluid Vortices : From Vorticity to Differential Geometry	Prof. Andrew Gilbert, University of Exeter, UK	Dr. Prasad Patnaik BSV Dr.A.J.Shaiju	Applied Mechanics	1-6 August, 2016	1	18
44	151003F01	Negotiating a Democratic Space – Philosophy, Religion, and the State	Prof. Ronald Beiner [Canada]	Dr.Arvind Sivaramakrishnan Dr.V. R. Muraleedharan	Humanities and Sciences Engineering	6-12 August 2016	1	7
45	161003B11	Electrochemical Energy Conversion and Storage: Materials and Methods	Prof.A. Manthiram, The University of Texas at Austin, USA	Dr.P.Selvam	Chemistry	8-17 August, 2016	2	45
46	151003L01	Emerging Market Finance Research: Future Directions	Prof.Marti G. Subrahmanyam Leonard N. Stern School of Business, New York, USA	Dr. M. Thenmozhi Dr. S. Krishna Prasanna	Management Studies	8-12 August, 2016	1	68
47	161003N01	Gender Dimensions of Social and Economic Policies	Dr.Ajit Zacharias, Levy Economics Institute of Bard College, NY, USA	Dr.Binitha V Thampi	Humanities and Sciences Engineering	8-13 August, 2016	1	23

48	161003L16	Theoretical and Kinetics Aspects of Combustion	Prof. Kalyanasundaram Seshadri, University of California, San Diego, USA	Dr. V. Raghavan Dr. Krithika Narayanaswamy	Mechanical Engineering	16-22 August, 2016	1	27
49	161003B07	Friction Stir Welding and Processing	Prof. Rajiv S. Mishra, University of North Texas, USA	Dr. Ranjit Bauri	Metalurgical and Materials Engineering	5-10 September, 2016	1	31
50	161003C03	Enhanced Oil Recovery from Heavy Oil and Fractured Reservoirs	Dr. Hassan Karimaie, StatOil, Norway	Dr. Jitendra S. Sangwai	Ocean Engineering	11-17 September, 2016	1	72
51	151003G08	Fiber Lasers and Applications	Prof. Johan Nilsson, Univ. of Southampton, UK	Dr. Balaji Srinivasan Dr. Deepa Venkitesh Dr. Anil Prabhakar	Electrical Engineering	13-24 September, 2016	2	30
52	151003B11	Fundamentals of Slag Chemistry	Prof. Geoffrey Brooks [Australia]	Dr. Ajay Kumar Shukla	Metalurgical Materials Engineering	25th September to 1st October, 2016	1	8

53	161003L07	Conceptual and Structural Design- Lightweight Structures	Prof. Mike Schlaich, Technische Universität Berlin, Germany	Dr.Devdas Menon	Civil Engineering	26th September, 2016 - 1st October, 2016	1	65
54	151003A01	Rehabilitation of Heritage Structures	Prof. Claudio Modena [Italy]	Dr.Arun Menon	Civil Engineering	28th September to 8th October, 2016	2	27
55	161003B04	Thermochemical Modeling of Steelmaking Process	Prof.Olena Volkova, , Germany	Dr. Ajay Kumar Shukla	Metalurgical and Materials Engineering	11-17 October, 2016	1	12
56	161003L02	Combustion and flow diagnostics	Prof. Andreas Dreizler, Technische Universität Darmstadt, Germany	Dr.S. R. Chakravarthy Dr.T.M.Murugan ndam	Aerospace Engineering	26th September, 2016 - 7th October, 2016		
57	151003G04	Distributed Fiber Sensors and its Applications	Prof. Luc Thevenaz EPFL, Switzerland	Dr. Balaji Srinivasan Dr. Deepa	Electrical Engineering	17-28 October, 2016	2	15
58	161003B03	Spectral Methods for Transport Phenomena Processes in Industry and Academic Research	Prof.G. Labrosse, President, TchebyFlow, France	Dr.S.Pushpavana m Dr.T.Renganathan	Chemical Engineering	31st October, 2016 to 11th November, 2016	2	40

59	161003C02	Environmental Chemodynamics	Prof. Louis J. Thibodeaux, Louisiana State University, Baton Rouge, USA	Dr. Ravi Krishna	Chemical Engineering	7-18 November, 2016	2	8
60	161003L13	Scaled Boundary Finite Element Method	Prof. Chongmin Song, The University of New South Wales, Sydney, Australia	Dr.Sundararajan Natarajan	Mechanical Engineering	14-18 November, 2016	1	23
61	161003B12	Nanomaterials: Size- and Shape-Dependent Phenomena - Advances in Catalysis and Energy Materials Applications	Prof.Emil Roduner, University of Stuttgart, Germany	Dr.P. Selvam	Chemistry	14-23 November, 2016	2	23
62	161003D09	Advances in Flexible CMOS Radio Frequency Transceivers	Dr.Eric A.M. Klumperink University of Twente, The Netherlands	Dr.Shanthi Pavan	Electrical Engineering	14-18 November, 2016	1	43

63	161003D07	Designing Smart Sensor Systems	Prof.K.A.A. Makinwa Delft University of Technology Delft, The Netherlands	Dr.Shanthi Pavan	Electrical Engineering	21-25 November, 2016	1	54
64	161003C01	Hydroinformatics for Integrated Water Resources Management	Prof.R. Srinivasan Texas A&M University, USA	Dr.Balaji Narasimhan Dr.K. P. Sudheer	Civil Engineering	28th November, 2016 to 9th December, 2016	2	42
65	151003B10	Process Engineering Principles and Software for Pyrometallurgical Processes for	Prof. David G. C. Robertson [United States of America]	Dr.Ajay Kumar Shukla	Metalurgical and Materials Engineering	2-16 December, 2016	2	3
66	151003L16	Non-Destructive Testing of Pavements from Cradle to Grave	Prof. Soheil Nazarian, The University of Texas at El Paso, USA	Dr. A. Veeraragavan	Civil Engineering	5-10 December, 2016	1	23
67	161003L06	Cardiovascular Fluid Mechanics: Foundations	Prof.K.B.Chandran, University of Iowa, USA	Dr.Prasad Patnaik BSV Dr. B.V.Rathish Kumar (MA, IITK)	Applied Mechanics	5-10 December, 2016	1	22

68	161003L11	Micro and Nano Manufacturing Processes	Prof..K.P.Rajurkar, University of Nebraska-Lincoln, USA	Dr. G.L. Samuel	Mechanical Engineering	5-10 December 2016	1	37
69	151003G06	Physics of the Visual System for Engineers	Prof.Vasudevan Lakshminarayanan, University of Waterloo, Canada	Dr. A.R. Ganesan	Physics	5-20 December, 2016	2	12
70	161003806	Introduction to Metal Foams and Cellular Metals	Prof.John Banhart, Technical University Berlin, Germany	Dr. Manas Mukherjee	Metalurgical and Materials Engineering	5-11 December, 2016	1	16
71	161003B01	Mechanics of Nano-Electronics Packaging	Prof. Cemal Basaran The State University of New York at Buffalo, USA	Dr.C.Lakshmana Rao	Applied Mechanics	5-9 December, 2016	1	12
72	151003B09	High Temperature Structural Materials	Prof. Martin Heilmaier Karlsruhe Institute of Technology, Germany	Dr.V.Subramanaya Sarma	Metalurgical and Materials Engineering	7-19 December, 2016	2	11

73	161003G04	MEMS Modelling and Nonlinear Dynamic Based Analysis	Dr. Mohammed Younis, SUNY –Binghamton, NY, USA	Dr.Manoj Pandey	Mechanical Engineering	7-21 December, 2016	2	26
74	151003K01	Partition of Unity Methods	Prof. N. Sukumar [United States of America]	Dr.Sundararajan Natarajan	Mechanical Engineering	12-18 December, 2016	1	21
75	151003L10	Building Resilient and Sustainable Roadway Infrastructure	Prof. Rajib Basu Mallick [United States of America]	Dr.A. Veeraraghavan	Civil Engineering	12-23 December, 2016	2	26
76	161003805	Non-equilibrium Processing of Advanced materials	Prof. C. Suryanarayana, University of Central Florida, Orlando, USA	Dr. B.S. Murty	Metalurgical and Materials Engineering	12-18 December, 2016	1	23
77	151003K05	Foundations of Memory and Consistency Models	Prof. Suresh Jagannathan [United States of America]	Dr.V Krishna Nandivada	Computer and Science Engineering	19-23 December, 2016	1	12
78	161003I05	Mechanics of Fracture	Prof. Krishnaswamy Ravichandar, University of Texas at Austin, USA	Dr. K. Ramesh (AM)	Applied Mechanics	19-23 December, 2016	1	51

79	161003B08	Contact Angles: Measurements, Interpretation and Modern Applications	Prof. J. W. Drelich, Michigan Technological University, USA	Dr.Ravi Kumar N V	Metalurgical and Materials Engineering	20-25 November, 2016	1	17
80	161003G06	Attosecond Photonics – Science and Technology	Prof.Uwe Morgner, Leibniz University of Hannover, Germany	Dr. Sivarama Krishnan Dr.Anil Prabhakar	Physics	7-11 November, 2016	1	31
81	161003M01	Origin and Evolution of Perturbations during Inflation and Reheating	Prof. Jérôme Martin, CNRS, Paris, France	Dr. L.Sriram Kumar	Physics	25-30 November, 2016	1	25
82	161003D04	Fundamentals of Numerical Modelling and Simulation of Multi-Physics and Multi-Domain Systems	Prof.Alper Demir, Koc University, Istanbul, Turkey	Dr.Nagendra Krishnapura	Electrical Engineering	2-6 January, 2017	1	33
83	161003B09	Sintering and Sintering-Free Processing of Ceramics and Microstructural Development	Prof.Rajendra K Bordia, Clemson University, USA	Dr.N.V.Ravikumar	Metalurgical and Materials Engineering	2-8 January, 2017	1	21

84	161003D05	Computational Techniques for Frequency domain and perturbation Analysis of Electronic and Multi Physics Systems	Prof. Jaijeet Roychowdhury, The University of California at Berkeley, USA	Dr.Nagendra Krishnapura	Electrical Engineering	30 January 2017 to 3 February 2017	1	8
85	161003H03	Creating Solutions in Minutes for People with Disabilities	Dr.Therese Willkomm, University of New Hampshire, USA	Dr.Anil Prabhakar (EE)	Electrical Engineering	8-13 January, 2017	1	43
86	161003D06	Near/sub-threshold Circuits and Architectures for Microprocessors	Dr.Mingoo Seok, Columbia University, USA	Dr.Nagendra Krishnapura	Electrical Engineering	9-13 January, 2017	1	36
87	161003M02	Complex Light	Prof.Kishan Dholakia, University of St Andrews, Scotland	Dr.Shanti Bhattacharya	Electrical Engineering	16-21 January, 2017	1	16
88	161003L03	Multi scale Modelling for Polymeric Nano Composites	Dr. SD Jacob Muthu, University of the Witwatersrand Johannesburg, South Africa	Dr.R.Velmurugan	Aerospace Engineering	16-27 January, 2017	2	34

89	161003J01	Data Analytics with applications to Healthcare	Prof.Soundar Kumara, The Pennsylvania State University, USA	Dr.R. P. Sundarraj Dr.C. Rajendran	Management Studies	23rd January to 2nd February, 2017	2	28
90	161003B08	Contact Angles: Measurements, Interpretation and Modern Applications	Prof. J. W. Drelich, Michigan Technological University, USA	Dr.Ravi Kumar N V	Metalurgical and Materials Engineering	29th January 2017 to 4th February, 2017	1	16
91	161003F01	China Wired: Culture & Politics of New Media in China	Dr. James Leibold, La Trobe University, Melbourne, Australia	Dr.Sonika Gupta	Humanities and Sciences Engineering	6-10 February, 2017	1	22
92	151003D05	Microwave Photonics-Technologies, Systems and Networks	Prof. Thas Nirmalathas	Dr. Deepa venkitesh	Electrical Engineering	16-25 february,2017	2	23
93	161003D01	Advanced Group-IV Semiconductor Electronic and Optoelectronic Devices	Dr.Inga Anita Fischer, University of Stuttgart, Germany	Dr.Anil Prabhakar Dr.Bijoy K Das	Electrical Engineering	15-21 February, 2017	1	7
94	161003C04	Petroleum Reservoir Characterization	Dr. Hassan Karimaie, Statoil, Norway	Dr.Jitendra S. Sangwai	Ocean Engineering	26th February to 4th March, 2017	1	104

95	161003D08	Integrated Phase and Frequency Synthesis	Dr.Sudhakar Pamarti, University of California, Los Angeles, USA	Dr.Shanthi Pavan	Electrical Engineering	1-15 March, 2017	2	30
96	151003L13	Process Analysis and Metrology for Discrete Products Manufacturing	Prof. Srinivasan Chandrasekar, Purdue University, USA	Dr.Balakrishna C. Rao	Engineering Design	13-27 March 2017	2	12
97	161003D03	Silicon Photonics: Linear, Nonlinear, and Quantum Integrated Optical Devices and Circuits	Prof. Shayan Mookhejea, University of California, San Diego, USA	Dr. Bijoy K Das	Electrical Engineering	19th March to 1st April, 2017	2	16
98	161003H01	Pediatric Biomechanics- Deformities Treatment and Injury Prevention	Dr. Sriram Balasubramanian, Drexel University, PA, USA	Dr. S. Ramakrishnan	Applied Mechanics	20-24 March 2017	1	22
17-18								
99	151003L15	Data Science for Smart Manufacturing	Dr. Satish T.S. Bukkapatnam, Texas A&M University, Texas	Dr. N. Ramesh Babu	Mechanical Engineering	15-05-2017 to 26-05-2017	2	27

100	171003G04	Robot Motion Planning	Dr.Sudhakar Pamarti, University of California, Los Angeles, USA	Prof. Sourav Rakshit	Mechanical Engineering	31st July, 2017 to 4th August, 2017	1	40
101	171003K08	Fractal Geometry: Foundations to Frontiers	PD Dr. Peter Massopust, Technische Universität München, Germany	Prof. Arya Kumar Bedabrata Chand	Mathematics	14 – 31 August, 2017	2	39
102	171003L09	Combustion in Engines	Prof. Malcolm Lawes, University of Leeds United Kingdom	Dr. V. Raghavan (ME)	Mechanical Engineering	4 – 11 September, 2017	1	22
103	171003L13	Refrigeration technology with natural working fluids, specialisation on R744 (CO2)	Prof Armin HAFNER, Norwegian University of Science and Technology Norway	Dr.M.P.Maiya (ME)	Mechanical Engineering	9 - 13 October, 2017	1	25
104	171003L27	Analysis and Design of Piezoelectric Vibration Energy	Prof Sondipon Adhikari, Swansea University United Kingdom	Dr. Shaikh Faruque Ali (AM)	Applied Mechanics	30th October, 2017 to 3rd November, 2017	1	33

105	171003L18	Welding Metallurgy and Weldability of Steels and Stainless Steels	Prof Leijun Li, University of Alberta Canada	Dr. G.D. Janaki Ram	Metallurgical and Materials Engineering	11 - 15 December, 2017	1	103
106	171003L17	Welding Metallurgy and Weldability of Non-Ferrous Alloys	PD Dr. Peter Massopust, Technische Universit?t M?nchen, Germany	Dr. G.D. Janaki Ram	Metallurgical and Materials Engineering	11 - 15 December, 2017	1	113
107	171003L01	Nonlinear Fracture Mechanics and Applications Structural Integrity Assessment	Prof Ashok Saxena, Provost and Vice Chancellor for Academic Affairs, University of Arkansas Fayetteville, AR 72701, USA, United States of America	Prof. Raghu V Prakash	Mechanical Engineering	6 – 11 December, 2017	1	24
108	171003K09	FROM SUBDIVISION TO WAVELETS AND FRACTALS	Prof David Levin, Tel-Aviv University Israel	Prof. Arya Kumar Bedabrata Chand	Mathematics	11 – 17 December, 2017	1	53

109	171003L11	Continuum Mechanics of Dislocations Leading to Plasticity	Prof Amit Acharya, Carnegie Mellon University United States of America	Dr. Parag Ravindran & Dr. Ratna Kumar Annabatula	Mechanical Engineering	18 – 29 December, 2017	2	30
110	171003D03	Emerging Computational Devices, Architectures and Computational Models	Prof Vijaykrishnan Narayanan, Universite? de Sherbrooke Canada	Prof. Madhu Mutyam	Computer Science and Engineering	11 - 15 December, 2017	1	23
111	171003D01	Coupling-Matrix Design of Advanced RF/Microwave Filters	Prof Dimitrios Peroulis, Purdue University United States of America	Dr. Amitava DasGupta	Electrical Engineering	11 – 16 December, 2017	1	30
112	171003K10	INSTABILITY METHODS IN HYDRODYNAMICS	Prof Matthew Juniper, University of Cambridge United Kingdom	R.USHA	Mathematics	18 – 22 December, 2017	1	61
113	171003K04	Matrices with Positive Principal Minors: Theory and Applications	Michael John Tsatsomeros, Washington State University United States of America	Prof. K.C. Sivakumar	Mathematics	18 – 22 December, 2017	1	28

114	151003L14	Pavement Preservation and Environmental Impact Assessment of Recycled Materials in Pavement Management	Prof. Serji Amirkanian, University of Alabama	Dr. A Veeraraghavan	Civil Engineering	04 - 09 December, 2017	1	44
115	171003L06	Shockwave Reflection Phenomena	Prof Gabi Ben-Dor, Ben-Gurion University of the Negev, Beer Sheva Israel	Dr. G Rajesh	Aerospace Engineering	1 – 12 January, 2018	2	24
116	171003D02	Quantum error correction and its relations to statistical physics	Prof David Poulin, Universite? de Sherbrooke Canada	Dr. Pradeep Kiran Sarvepalli	Electrical Engineering	22 - 26 January, 2018	1	34
117	171003K11	Mathematical Foundations of Signal Analysis (A fresh look at Harmonic Analysis)	Hans G Feichtinger, University of Vienna Austria	Prof.R.Radha	Mathematics	08 – 20 January, 2018	2	27

118	171003K12	Minors and Homomorphism: Correlation	Dr Reza Naserasr, Institut de Recherche en Informatique Fondamentale France	Dr. Narayanan N	Bio Technology	20th January, 2018 - 02nd February, 2018	2	22
119	171003B03	Model Predictive Control: Theory and Applications	Prof. Jay H Lee, Korea Advanced Institute of Science and Technology (KAIST) Korea South	Dr. Niket S Kaisare	Chemical Engineering	29 January - 02 February, 2018	1	24
120	171003A01	Innovative Digital Tools enabled Product Design	Prof Monica Bordegoni, Politecnico di Milano Italy	Prof. Raghu V Prakash	Mechanical Engineering	5th Feb, 2018 to 09th Feb, 2018	1	22
121	171003K06	Advanced Mathematical Methods for Real Data Analysis: from Partial Differential Equations approach to Time Series Modelling	Prof. Agnieszka Wylomanska, Chair of Applied Mathematics, Poland	Prof. S. Sundar	Mathematics	05 - 10 March, 2018	1	34
122	171003C06	Weather Radar and Hydrology	Prof V Chandrasekar, Colorado State University, USA	Prof. Balaji Narasimhan	Civil Engineering	05 - 17 March, 2018	2	27

123	171003L02	Large Eddy Simulation of Turbulence: Fundamentals and Applications	Prof. Olivier Metais, Grenoble Institute of Technology France	Prof. K. Arul Prakash	Applied Mechanics	09th - 13th April, 2018	1	36
18-19								
124	171003B01	NANOPOROUS MATERIALS IN CATALYSIS – FUNDAMENTALS AND APPLICATIONS	Prof. Michael Anderson, The University of Manchester United Kingdom	Prof. PARASURAMAN SELVAM	Chemistry	27th April, 2018 - 6th May, 2018	2	43
125	171003C05	Spatial Modelling and Analysis of Environmental Systems using open source tools	Prof. David G Rossiter, The University of Manchester United Kingdom	Prof. Balaji Narasimhan	Civil Engineering	11th Jun, 2018 - 23rd Jun, 2018	2	35
126	171003B02	Mechanistic Modeling of Thermochemical Conversion of Hydrocarbons and Solid Fuels	Prof. Eliseo Ranzi, Politecnico di Milano	Dr. R Vinu	Chemical Engineering	28th May to 1st June, 2018	1	43

127	171003L21	Computational Musculoskeletal Biomechanics	Prof. Marcus Pandey, The University of Melbourne, Australia	Dr. Sujatha Srinivasan	Mechanical Engineering	01.09.2018 to 10.09.2018	2	35
128	171003C03	Membrane Bioreactors for Sustainable Wastewater Treatment and Bioenergy Production	Prof. Huo Hao NGO, University of Technology Sydney, Australia	Dr. S Mathava Kumar	Civil Engineering	14.11.2018 to 20.11.2018	1	35
129	171003J04	Digital Business: The Innovation Challenge of the Next Decade	Prof. Richard Watson, Terry College of Business, University of Georgia United States of America	Dr. Saji K. Mathew	Management Studies	26.11.2018 to 30.11.2018	1	68
130	171003B04	Synthetic Biology: Design, Simulation and Control of genetic circuits in microbial cell factories	Prof. Nadav Bar, Norway	Prof. Sridhar kumar Narsimhan, Dr. Guhan Jayaraman	Chemical Engineering	03.12.2018 - 14.12.2018	2	13

131	171003K05	Smart Molecules in research: Self Assembly of programmable molecular building blocks as fundamental tools in basic and applied research	Dr. David M. Smith, Fraunhofer Institute for Cell Therapy and Immunology Germany	Prof. Rama R, Dr. Kalpana Mahalingam	Mathematics	03.12.2018 to 07.12.2018	1	16
132	171003K07	Kinetic theory of non - equilibrium gas flows: theory and computations	Prof. Manuel Torrilhon, RWTH Aachen University Germany	Dr. Priyanka Shukla	Mathematics	10.12.2018 to 14.12.2018	1	21
133	171003B05	SELF-ASSEMBLED NANOPROUS AND HYBRID SILICA MATERIALS : APPLICATIONS IN CATALYSIS, NANOMEDICINE AND OPTICS	Prof. Michel Wong Chi Man, Institut Charles Gerhardt Montpellier (ICGM) France	Prof. Parasuraman Selvam	Chemistry	18.02.2019 - 27.02.2019	2	28
134	171003C02	Flow Assurance in the Petroleum Industry	Prof. Abhijit Dandekar, University of Alaska Fairbanks United States of America	Dr. Jitendra Sangwai, OE	Ocean Engineering	04.03.2019 - 16.03.2019	2	166

135	171003C04	Nonlinear Wave-Structure Models in Offshore and Naval Industry	Prof. Pierre Ferrant, Ecole Centrale de Nantes France	Prof. V. Sriram, OE	Ocean Engineering	27.03.2019 - 02.04.2019	1	40
136	171003L31	Advanced Manufacturing & Material Processing with focus on Emerging Technologies for Industry Competitiveness	Prof. Surendar MARYA, GeM, Ecole Centrale Nantes France	Dr. Sushanta Kumar Panigrahi , ME	Mechanical Engineering	25.03.2019 - 30.03.2019	1	55