

## Completed GIAN Courses

### 15-16

S. No.	GIAN Course ID	CCE ID	GIAN Course Title	International Faculty	Host Faculty	Department	Durarion of the Course	No. of Weeks	No.of Participants
1	151003L04	CCE/GIAN/01/SV/AM/15-16	Modelling Engineering Turbulent Flows	Prof. Danesh Tafti [United States of America]	Dr.S. Vengadesan	Applied Mechanics	19-25 December, 2015	1	24
2	151003L01	CCE /GIAN/02/SV/AM/15-16	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	CCE/GIAN/04/SP/EE/15-16	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	CCE/GIAN/03/SP/EE/15-16	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	CCE/GIAN/06/DV/EE/15-16	Optical Coherent Communication	Prof. Liam Barry [Ireland]	Dr.Deepa Venkitesh Dr.David Koilpillai	Electrical Engineering	4-15 January, 2016	2	25

6	151003H01	CCE/GIAN/08/RSV/BT /15-16	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	CCE/GIAN/05/JKV/EE/15-16	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	CCE/GIAN/10/AK/AE /15-16	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	CCE/GIAN/09/AM/CE/15-16	Seismic Analysis and Design of Masonry	Prof. Guido Magenes [Italy]	Dr.Arun Menon	Civil Engineering	8-20 February, 2016	2	17

10	151003M01	CCE/GIAN/07/SAS/OE/15-16	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	CCE/GIAN/12/BNR/CE/15-16	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	CCE/GIAN/13/SSB/MME/15-16	Tailored and Tunable Properties of Nanomaterials	Prof. Dr.-Ing. Horst Hahn [Germany]	Dr.S.S. Bhattacharya Dr.B.S. Murty	Metallurgical Materials Engineering	3-17 March, 2016	2	23
13	151003M03	CCE/GIAN/11/SAS/OE/15-16	Extreme Waves in Ocean	Prof. Felice Arena, Italy	Dr.Sannasi Raj S.A.	Ocean Engineering	21st March to 1st April, 2016	2	13
14	151003L06	CCE/GIAN/14/SV/AM/15-16	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	CCE/GIAN/15/AM/CE/15-16	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	151003A04	CCE/GIAN/01/AM/CE/16-17	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	CCE/GIAN/06/PCM/ME/16-17	Automotive Noise and Vibration Control: Contemporary Engineering Practice and Research	Prof. Rajendra Singh [United States of America]	Dr.P.Chandramouli	Mechanical Engineering	16-27 May, 2016	2	29
18	151003L08	CCE/GIAN/08/SN/ME/16-17	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	CCE/GIAN/03/CSSR/ED/16-17	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	CCE/GIAN/05/BSM/MME/16-17	Advanced Steels for the Automotive Industry and Other Sectors	Prof. Peter D Hodgson [Australia]	Dr.B S Murthy Dr.V Subramanya Sarma	Metallurgical and Materials Engineering	1-15 June, 2016	2	22

21	151003D06	CCE/GIAN/11/KMS/CSE/16-17	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	CCE/GIAN/09/PS/CY/16-17	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	CCE/GIAN/07/NRB/ME/16-17	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	CCE/GIAN/04/MSS/ED/16-17	Mechanics and Modeling of Soft Materials: From Natural	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	CCE/GIAN/12/UM/MS/16-17	Increasing Efficiency and Reducing Cost Within a Supply Chain (U.S. and Indian	Dr.Zach G. Zacharia, Lehigh University, Bethlehem, PA, USA	Dr.Usha Mohan	Management Studies	13-17 June, 2016	1	16

26	151003K04	CCE/GIAN/17/RN/CSE/16-17	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	CCE/GIAN/20/SJ/MME/16-17	Fabrication, Testing and System Integration of Solid Oxide Fuel Cells	Dr. Aman Dhir [United Kingdom]	Dr.Sreenivas Jayanti Dr.Ranjit Bauri	Metallurgical and Materials Engineering	27th June, 2016 to 2nd July, 2016	1	17
28	151003J02	CCE/GIAN/18/RCR/MS/16-17	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	CCE/GIAN/16/TS/BT/16-17	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	CCE/GIAN/32/BSM/MME/16-17	Advanced Casting and Solidification of Light Alloys for	Prof. C. Ravi Ravindran [Canada]	Dr.B.S. Murty	Metallurgical and Materials Engineering	4-11 July, 2016	1	15

31	161003G02	CCE/GIAN/23/CR/MS/16-17	Scheduling Systems - An Integrated View on Models, Methods and Tools with a Focus on Manufacturing and Service	Prof. Dr. Rainer Leisten, University of Duisburg-Essen, Germany	Dr.C.Rajendra n	Management Studies	8-17 July, 2016	2	25
32	151003L11	CCE/GIAN/13/RG/CE/16-17	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	CCE/GIAN/19/AKB/MA/16-17	Splines and Fractals in Approximation and Interpolation Theory	Prof. PD PETER MASSOPUST [Germany]	Dr.A.K.B. Chand	Mathematics	15-29 July 2016	2	23
34	151003L07	CCE/GIAN/02/AM/CE/16-17	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	CCE/GIAN/31/CPR/CSE/16-17	Randomized Algorithms	Prof. Aravind Srinivasan [United States of America]	Dr.C. Pandurangan	Computer and Science Engineering	18-31 July 2016	2	15
36	161003L12	CCE/GIAN/24/SN/ME/16-17	Nonlinear Continuum Mechanics	Prof. Timon Rabczuk, Bauhaus University, Germany	Dr.Sundararajan Natarajan	Mechanical Engineering	18-29 July, 2016	2	33
37	161003L08	CCE/GIAN/21/DRB/CE/16-17	Advances in Seismic Hazard Analysis and Soil-Structure Interaction	Prof. Carlo G. Lai, University of Pavia, Italy	Dr. G. R. Dodagoudar	Civil Engineering	18-30 July, 2016	2	51
38	161003G01	CCE/GIAN/39/SRC/AE/16-17	Micro-Renewable Energy Architecture	Prof.Narayana n 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	CCE/GIAN/26/JKBG/EE/16-17	Biomedical Engineering Systems	Prof.Steffen Leonhardt, Aachen University, Aachen, Germany	Dr.V. Jagadesh Kumar Dr. Bobby George	Electrical Engineering	25th July, 2016 to 5th August, 2016	2	31



40	161003K01	CCE/GIAN/28/JEA/CSE/16-17	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	CCE/GIAN/10/KAP/16-17	Finite Elements in Fluids	Prof. P. Nithiarasu, Swansea University, UK	Dr. K. Arul Prakash	Applied Mechanics	1-5 August, 2016	1	48
42	161003J03	CCE/GIAN/22/AK/MS/16-17	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	CCE/GIAN/25/PP/AM/16-17	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	CCE/GIAN/30/ASK/HSS/16-17	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	CCE/GIAN/41/PS/CY/16-17	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	151003J01	CCE/GIAN/15/MTPK/MS/16-17	Emerging Market Finance Research: Future Directions	Prof.Marti G. Subrahmanya m 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	CCE/GIAN/29/BVT/HSS/16-17	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	CCE/GIAN/27/VRKN/ME/16-17	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	CCE/GIAN/35/RB/MME/16-17	Friction Stir Welding and Processing	Prof.Rajiv S. Mishra, University of North Texas, USA	Dr.Ranjit Bauri	Metallurgical and Materials Engineering	5-10 September, 2016	1	31
50	161003C03	CCE/GIAN/36/JS/OE/16-17	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	CCE/GIAN/42/BS/EE/16-17	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	CCE/GIAN/37/AKS/MME/16=-17	Fundamentals of Slag Chemistry	Prof. Geoffrey Brooks [Australia]	Dr.Ajay Kumar Shukla	Metallurgical Materials Engineering	25th September to 1st October, 2016	1	8
53	161003L07	CCE/GIAN/33/DM/CE/16-17	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	CCE/GIAN/34/AM/CE/16-17	Rehabilitation of Heritage Structures	Prof. Claudio Modena [Italy]	Dr.Arun Menon	Civil Engineering	28th September to 8th October, 2016	2	27
55	161003B04	CCE/GIAN/45/AKS/MME/16-17	Thermochemical Modeling of Steelmaking Process	Prof.Olena Volkova, , Germany	Dr. Ajay Kumar Shukla	Metallurgical and Materials Engineering	11-17 October, 2016	1	12
56	161003L02	CCE/GIAN/40/TMM/AE/16-17	Combustion and flow diagnostics	Prof. Andreas Dreizler, Technische Universitat Darmstadt, Germany	Dr.S. R. Chakravarthy Dr.T.M.Muruganandam	Aerospace Engineering	26th September, 2016 - 7th October, 2016	2	36
57	151003G04	CCE/GIAN/47/BS/EE/16-17	Distributed Fiber Sensors and its Applications	Prof. Luc Thevenaz EPFL, Switzerland	Dr. Balaji Srinivasan Dr. Deepa Venkitesh	Electrical Engineering	17-28 October, 2016	2	15
58	161003B03	CCE/GIAN/38/SP/CH/16-17	Spectral Methods for Transport Phenomena Processes in Industry and Academic Research	Prof.G. Labrosse, President, TchebyFlow, France	Dr.S.Pushpavanam Dr.T.Rengana than	Chemical Engineering	31st October, 2016 to 11th November, 2016	2	40

59	161003C02	CCE/GIAN/48/RK/CH/16-17	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	CCE/GIAN/70/SN/ME/16-17	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	CCE/GIAN/50/PS/CY/16-17	Nanomaterials: Size- and Shape-Dependent Phenomena - Advances in Catalysis and Energy Materials	Prof.Emil Roduner, University of Stuttgart, Germany	Dr.P. Selvam	Chemistry	14-23 November, 2016	2	23
62	161003D09	CCE/GIAN/63/SP/EE/16-17	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	CCE/GIAN/53/SP/EE/16-17	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	CCE/GIAN/46/BN/CE/16-17	Hydroinformatics for Integrated Water Resources	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	CCE/GIAN/54/AKS/MME/16-17	Process Engineering Principles and Software for Pyrometallurgical Processes for Metal Extraction	Prof. David G. C. Robertson [United States of America]	Dr.Ajay Kumar Shukla	Metallurgical and Materials Engineering	2-16 December, 2016	2	3
66	151003L16	CCE/GIAN/55/AVR/CE/16-17	Non-Destructive Testing of Pavements from Cradle to	Prof. Soheil Nazarian, The University of Texas at El Paso, USA	Dr. A. Veeraragavan	Civil Engineering	5-10 December, 2016	1	23
67	161003L06	CCE/GIAN/52/PP/AM/16-17	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	CCE/GIAN/57/GLS/ME/16-17	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	CCE/GIAN/64/ARG/PH/16-17	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	CCE/GIAN/60/MM/MME/16-17	Introduction to Metal Foams and Cellular Metals	Prof.John Banhart, Technical University Berlin, Germany	Dr. Manas Mukherjee	Metallurgical and Materials Engineering	5-11 December, 2016	1	16
71	161003B01	CCE/GIAN/59/CLR/AM/16-17	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	CCE/GIAN/61/VSS/MME/16-17	High Temperature Structural Materials	Prof. Martin Heilmaier Karlsruhe Institute of Technology, Germany	Dr.V.Subramanaya Sarma	Metallurgical and Materials Engineering	7-19 December, 2016	2	11

73	161003G04	CCE/GIAN/51/MP/ME/16-17	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	CCE/GIAN/71/SN/ME/16-17	Partition of Unity Methods	Prof. N. Sukumar [United States of America]	Dr. Sundararajan Natarajan	Mechanical Engineering	12-18 December, 2016	1	21
75	151003L10	CCE/GIAN/56/AVR/CE/16-17	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	CCE/GIAN/62/BSM/MME/16-17	Non-equilibrium Processing of Advanced materials	Prof. C. Suryanarayana, University of Central Florida, Orlando, USA	Dr. B.S. Murty	Metallurgical and Materials Engineering	12-18 December, 2016	1	23
77	151003K05	CCE/GIAN/65/KN/CSE/16-17	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	CCE/GIAN/14/KR/AM/16-17	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	161003G06	CCE/GIAN/49/SK/PH/16-17	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
80	161003M01	CCE/GIAN/58/LSK/PH/16-17	Origin and Evolution of Perturbations during Inflation and	Prof. Jérôme Martin, CNRS, Paris, France	Dr. L.Sriram Kumar	Physics	25-30 November, 2016	1	25
81	161003D04	CCE/GIAN/68/NK/EE/16-17	Fundamentals of Numerical Modelling and Simulation of Multi-Physics and Multi-Domain	Prof.Alper Demir, Koc University, Istanbul, Turkey	Dr.Nagendra Krishnapura	Electrical Engineering	2-6 January, 2017	1	33
82	161003B09	CCE/GIAN/75/NVR/MME/16-17	Sintering and Sintering-Free Processing of Ceramics and Microstructural Development	Prof.Rajendra K Bordia, Clemson University, USA	Dr.N.V.Ravikumar	Metallurgical and Materials Engineering	2-8 January, 2017	1	21

83	161003D05	CCE/GIAN/72/NK/EE/16-17	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
84	161003H03	CCE/GIAN/73/AP/EE/16-17	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
85	161003D06	CCE/GIAN/74/NK/EE/16-17	Near/sub-threshold Circuits and Architectures for Microprocesso	Dr.Mingoo Seok, Columbia University, USA	Dr.Nagendra Krishnapura	Electrical Engineering	9-13 January, 2017	1	36
86	161003M02	CCE/GIAN/69/SB/EE/16-17	Complex Light	Prof.Kishan Dholakia, University of St Andrews, Scotland	Dr.Shanti Bhattacharya	Electrical Engineering	16-21 January, 2017	1	16

87	161003L03	CCE/GIAN/66/RVM/AE/16-17	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
88	161003J01	CCE/GIAN/77/RPS/MS/16-17	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
89	161003B08	CCE/GIAN/67/NVR/MME/16-17	Contact Angles: Measurements , Interpretation and Modern Applications	Prof. J. W. Drelich, Michigan Technological University, USA	Dr.Ravi Kumar N V	Metallurgical and Materials Engineering	29th January 2017 to 4th February, 2017	1	16
90	161003F01	CCE/GIAN/76/SG/HSS/16-17	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

91	151003D05	CCE/GIAN/78/DV/EE/16-17	Microwave Photonics-Technologies, Systems and Networks	Prof. Thas Nirmalathas	Dr. Deepa venkitesh	Electrical Engineering	16-25 february,2017	2	23
92	161003D01	CCE/GIAN/80/AP/EE/16-17	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
93	161003C04	CCE/GIAN/79/JS/OE/16-17	Petroleum Reservoir Characterization	Dr. Hassan Karimaie, Statoil, Norway	Dr.Jitendra S. Sangwai	Ocean Engineering	26th February to 4th March, 2017	1	104
94	161003D08	CCE/GIAN/81/SP/EE/16-17	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
95	151003L13	CCE/GIAN/82/BKR/ED/16-17	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

96	161003D03	CCE/GIAN/84/BKD/EE/16-17	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
97	161003H01	CCE/GIAN/83/SRK/AM/16-17	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
<b>17-18</b>									
98	151003L15	CCE/GIAN/01/NRB/ME/17-18	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
99	171003G04	CCE/GIAN/02/SR/ME/17-18	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

100	171003K08	CCE/GIAN/03/AKB/MA/17-18	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
101	171003L09	CCE/GIAN/04/VR/ME/17-18	Combustion in Engines	Prof. Malcolm Lawes, University of Leeds United Kingdom	Dr. V. Raghavan (ME)	Mechanical Engineering	4 – 11 September, 2017	1	22
102	171003L13	CCE/GIAN/08/MPM/ME/17-18	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
103	171003L27	CCE/GIAN/09/SFA/AM/17-18	Analysis and Design of Piezoelectric Vibration Energy Harvesters	Prof Sondipon Adhikari, Swansea University United Kingdom	Dr. Shaikh Faruque Ali (AM)	Applied Mechanics	30th October, 2017 to 3rd November, 2017	1	33
104	171003L18	CCE/GIAN/07/GDJ/MME/17-18	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

105	171003L17	CCE/GIAN/06/GDJ/MME/17-18	Welding Metallurgy and Weldability of Non-Ferrous Alloys	PD Dr. Peter Massopust, Technische Universität München, Germany	Dr. G.D. Janaki Ram	Metallurgical and Materials Engineering	11 - 15 December, 2017	1	113
106	171003L01	CCE/GIAN/15/RVP/ME/17-18	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
107	171003K09	CCE/GIAN/11/AKB/MA/17-18	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

108	171003L11	CCE/GIAN/16/PR&RAB/ME/17-18	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
109	171003D03	CCE/GIAN/17/MM/CSE/17-18	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
110	171003D01	CCE/GIAN/13/ADG/EE/17-18	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
111	171003K10	CCE/GIAN/12/RU/MA/17-18	INSTABILITY METHODS IN HYDRODYNAMICS	Prof Matthew Juniper, University of Cambridge United Kingdom	R.USHA	Mathematics	18 – 22 December, 2017	1	61



112	171003K04	CCE/GIAN/18/KCS/MA/17-18	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
113	151003L14	CCE/GIAN/10/AVR/CE/17-18	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
114	171003L06	CCE/GIAN/14/GR/AE/17-18	Shockwave Reflection Phenomena	Prof Gabi Bendor, Ben-Gurion University of the Negev, Beer Sheva Israel	Dr. G Rajesh	Aerospace Engineering	1 – 12 January, 2018	2	24
115	171003D02	CCE/GIAN/20/PKS/EE/17-18	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

116	171003K11	CCE/GIAN/21/RR/MA/17-18	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
117	171003K12	CCE/GIAN/19/NN/BT/17-18	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
118	171003B03	CCE/GIAN/22/NKS/CH/17-18	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
119	171003A01	CCE/GIAN/23/RVP/ME/17-18	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

120	171003K06	CCE/GIAN/24/SS/MA/17-18	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
121	171003C06	CCE/GIAN/10/AVR/CE/17-18	Weather Radar and Hydrology	Prof V Chandrasekar, Colorado State University, USA	Prof. Balaji Narasimhan	Civil Engineering	05 - 17 March, 2018	2	27
122	171003L02	CCE/GIAN/05/AP/AM/17-18	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**

123	171003B01	CCE/GIAN/01/PS/CY/18-19	NANOPOROUS MATERIALS IN CATALYSIS – FUNDAMENTALS AND APPLICATIONS	Prof. Michael Anderson, The University of Manchester United Kingdom	Prof. PARASURAM AN SELVAM	Chemistry	27th April, 2018 - 6th May, 2018	2	43
124	171003C05	CCE/GIAN/03/BN/CE/18-19	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
125	171003B02	CCE/GIAN/02/RV/CH/18-19	Mechanistic Modeling of Thermochemical Conversion of Hydrocarbons	Prof. Eliseo Ranzi, Politecnico di Milano	Dr. R Vinu	Chemical Engineering	28th May to 1st June, 2018	1	43
126	171003L21	CCE/GIAN/04/SS/ME/18-19	Computational Musculoskeletal Biomechanics	Prof. Marcus Pandey, The University of Melbourne, Australia	Dr. Sujatha Srinivasan	Mechanical Engineering	01.09.2018 to 10.09.2018	2	40

127	171003C03	CCE/GIAN/05/MK/CE/18-19	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
128	171003J04	CCE/GIAN/06/SM/MS/18-19	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
129	171003B04	CCE/GIAN/07/SKN&GJ/CH/18-19	Synthetic Biology: Design, Simulation and Control of genetic circuits in microbial	Prof. Nadav Bar, Norway	Prof. Sridhar kumar Narsimhan, Dr. Guhan Jayaraman	Chemical Engineering	03.12.2018 - 14.12.2018	2	13

130	171003K05	CCE/GIAN/08/RR&KM/MA/18-19	Smart Molecules in research: Self Assembly of programmable molecular building blocks as fundamental tools in basic and applied	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
131	171003K07	CCE/GIAN/09/PS/MA/18-19	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
132	171003B05	CCE/GIAN/10/PS/CY/18-19	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

133	171003C02	CCE/GIAN/11/JS/OE/18-19	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
134	171003C04	CCE/GIAN/12/VS/OE/18-19	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
135	171003L31	CCE/GIAN/13/SKP/ME/18-19	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
<b>19-20</b>									
136	171003L16	CCE/GIAN/01/SS/ME/19-20	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	45

137	171003G03	CCE/GIAN/02/RN/OE/19-20	Petrophysical Measurements of Conventional and Unconventiona	Prof. Douglas R Schmitt, University of Alberta Canada	Prof. Rajesh Nair	Ocean Engineering	07.10.2019 - 11.10.2019	1	33
138	171003G06	CCE/GIAN/04/SMSN/CE/19-20	Urban Air Pollution, Human Exposure Assessment and Public Policy	Prof. Peter Orris, University of Illinois Hospital and Health Sciences System United States of America	Dr. S.M. Shiva Nagendra	Civil Engineering	07.10.2019 - 17.10.2019	2	42
139	171003C01	CCE/GIAN/07/VS/OE/19-20	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	42
140	171003L24	CCE/GIAN/03/SN/ME/19-20	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	2	7



141	171003G01	CCE/GIAN/06/RN/OE/19-20	Introduction to Geo-Engineering Applications in Conventional and Unconventional Hydrocarbon	Prof. Vamegh Rasouli, University of North Dakota United States of America	Prof. Rajesh Nair	Ocean Engineering	11.11.2019 - 15.11.2019	1	17
142	171003L04	CCE/GIAN/08/RAB/ME/19-20	Mechanics of Mechanical Metamaterials	Prof. Changqing Chen, Tsinghua University China	Dr. Ratna Kumar Annabattula	Mechanical Engineering	18.11.2019 - 22.11.2019	1	13
143	171003L12	CCE/GIAN/09/MPM/ME/19-20	Efficient Heat Transfer Utilizing Liquid/Vapor Phase Change	Prof. Manfred Groll, Formerly at University of Stuttgart, Germany	Prof. M.P. Maiya, ME	Mechanical Engineering	09.12.2019 - 21.12.2019	2	40
144	171003L29	CCE/GIAN/11/MA/MME/19-20	Fusion welding processes and methodologies	Prof. Ian Malcom Richardson, Delft University of Technology Netherlands (Holland, Europe)	Prof. Murugaiyan Amirthalingam	Metallurgical and Materials Engineering	16.12.2019 - 21.12.2019	1	43

145	171003L26	CCE/GIAN/10/MA/MME/19-20	Advanced welding processes and metallurgy	Prof. John Norrish, University of Wollongong Australia	Prof. Murugaiyan Amirthalingam	Metallurgical and Materials Engineering	09.12.2019 - 13.12.2019	1	39
146	171003L25	CCE/GIAN/12/TT/CE/19-20	Mechanics of Unsaturated Soils	Prof. Sai K Vanapalli, University of Ottawa Canada	Dr. T. Thyagaraj	Civil Engineering	10.12.2019 - 20.12.2019	2	44
147	171003L28	CCE/GIAN/05/AVR/CE/19-20	Design and Construction of Sustainable Concrete Pavements	Prof. Neeraj Buch, Michigan State University United States of America	Prof. A. Veeraraghvan, CE	Civil Engineering	09.12.2019 - 13.12.2019	1	51