	GIAN COURSES	APPROVED/O	CONDUCTED	
Sl. No.	Course Title	Institute Faculty	Foreign Expert	
1	Inverse problems in fuzzy appoximation spaces with applications in computer vision	S.P. Tiwari	Irina Perfilieva, Czech Republic	
2	Insight into Fuzzy Modeling: Reasoning in Fuzzy Natural Logic and its Applications	S.P. Tiwari	Vilem Novak, Czech Republic	
3	Security of e-Systems and Networks	Sachin Tripathi	Mohammad S. Obaidat, Fordham University, USA	
4	Derivative Pricing	Gajendra Kr. Vishwakarma	Prof Kailash C Patidar, , South Africa	
5	Rock Mechanics: Modern Advances and Challenges for the 21st Century	Radhakanta Koner	Giovanni Grasselli, Canada	
	Geoinformatics and Geocomputational Modeling for Water Resources Engineering and Environmental Science	Srinivas Pasupuleti	Venkatesh UddameriI, Texas Tech University, Lubbock, Texas,, USA	
7	Option Pricing: A Computational Framework	Gajendra Kr. Vishwakarma	Kailash C Patidar, , South Africa	
8	Global Seismology	Mohit Agarwal	Derek Schutt, , United States of America	
9	Treatment and Valorization of industrial wastes	Sarat Kumar Das	Claudio Cameselle, , Spain	
		PPROVED/CO	NDUCTED	
 S1.		Institute/Indian		
No.	Title	Faculty	Foreign Faculty	
1	Geoenvironmental And Geotechnical Issues Of Coal Mine Over Burden	Sarat Kr. Das, Lohitkumar Nainegali, Dr. Hanumantha B Rao, IIT Bhubaneswar	Prof. Krishna R Reddy, University of Illinois, Dr. Joseph W Schulenberg, University of Illinois	
2	Nonlinear vibrations and instability analysis of composite structural elements through advanced shear-deformation theories and homogenization based damage model	Sarat Kr. Das, Tanish Dey, Dr. Sukanta Chakraborty, Prof. L.S. Ramachandra, IIT Kharagpur	Prof. Marco Amabili, McGILL University, Prof. Mathias Legrand, McGILL University	
CI NT.		VAJRA APPROVED	B* B 1/	
<b>Sl. No.</b>	Awardee Use of induced polarization to discriminate ore bodies in the subsurface of the Earth	Institute Faculty Shalivahan	Prof Andre Revil, CNRS, France	

	DOU- In	dia Fellowship Progra	amme	
Sl. NO	Institute Faculty	<b>Destination Institute</b>	Partner Awardee	
1	Bobby Antony	University of Kent	Mr. Nigel John Mason	
2	Pawan Kumar Singh	University of Lisbon	Mr. S M Sohel Murshed	
3	Sekhar Chandra Dutta	The University of Manchester	Mr. Parthasarathi Mandal	
4	Aditya Kumar	Christian-Albrechts- Universitat Zu Kiel	Mr. Mikhail Zheludkevich	
5	Subrata Ghosh	Vienna University of Technology	Mr. Carsten Gachot	
6	Biswajit Paul	The University of Sheffield	Ms. Sonal Choudhary	
7	V.M.S.R. Murthy	Politecnico Di Torino	Ms. Marilena Cardu	
8	Sarat Kumar Das	University College London	Ms. Maria López Querol	
	Shastri Research	Student Fellowship	(SRSF)-Post Doctoral	
		PT1 1		
Sl. No.	Awardee	Title	Foreign Faculty Canada	
1	Dr. Pratichi Singh, ESE	Development of Catalyst-Reductant System to Control NOx emissions from Lean Burn Engines	Canada	
2	Ahmad Nawaz, ESE	Design and fabrication of hybridized nanophotocatalyst for utilization of full solar spectrum	Prof Hadis Zarrin, Ryerson University, Canada	
International Projects				
Sl. No.	Ÿ	Name of PI	Foreign Faculty, if Aany	
1	Development of Virtual Reality Mine Simulator (VRMS) for improving safety and productivity in coal mines	Prof. V.M.S.R. Murthy	-	
2	2D Nanomaterials for Energy Storage	Dr. G. C. Nayak	-	
3	Low-cost Array-based	Prof. P. K. Khan	-	

4	Development of Eco-	Dr. Ashis Mallick	-			
	friendly Magnesium					
	Alloy Nanocomposites for Structural &					
	Biomedical					
	Applications					
5	CO2 as a building block	Prof. Biswajit	Dr. Sci. Sergey E. Lyubimov,			
	for synthesis of fine	Chowdhury	Institute of Organoelements			
	chemical and fuel over functionalized materials		Compounds of Russian			
	functionalized materials		Academy of Sciences, Moscow, Russia			
6	PAVITR – Potential and	Prof S.K. Gunta Prof	Mr. MirkoHanel, TTZ			
"	Validation of	Nadeem Khalil (AMU)	Bremerhaven, Germany			
	Sustainable Natural &	radeem radiii (ravie)	Bromerna ven, Germany			
	Advance Technologies					
	for Water & Wastewater					
	Treatment, Monitoring					
	and Safe Water Reuse in					
	India					
7	CO2 and biomass as	Prof. Biswajit	Project Partners (German			
	feedstock for the	Chowdhury, Prof.	side): Prof. Thomas Ernst			
	production of fuels and chemical intermediates	Asim Bhaumik (IACS,	Muller, Ruhr-Universitat			
	(CO2BioFeed)	Kolkata), Dr. Praveen Kumar Chinthala (RIL)	Bochum, Dr. Jens Hannes, RWE Power			
	(CO2Diorecu)	Kumai Cimimaia (KIL)	Aktiengesellschaft, Essen,			
			Mr. Gernot Nell, Parr			
			Instrument (Deutschland)			
			GmbH, Frankfurt			
DUO-INDIA Students 2020						

				Fariagn	Exchan
Sl. No.	Awardee	Indian Guide	Host Institute	Foriegn Faculty	ge Student
1	Mr. Susanta Banerjee	Prof. Sanket Nayak	Politecnico Di Milano, Italy	Prof. Sreekant Das, Universi ty of Windsor Canada	Nicola Grilland a
-					