

## GIAN COURSES APPROVED/CONDUCTED

| Sl. No. | Course Title  | Institute Faculty        | Foreign Expert   |  |  |
|---------|---|--------------------------|--|--|--|
| 1       | Inverse problems in fuzzy approximation 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                                       |  |  |
|         | <u>Geoinformatics and Geocomputational Modeling for Water Resources Engineering and Environmental Science</u> | Srinivas Pasupuleti      | Venkatesh Uddameril, 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                                       |  |  |

## SPARC APPROVED/CONDUCTED

| Sl. No. | Title  | Institute/Indian 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                |  |  |

## VAJRA APPROVED

| Sl. No. | Awardee   | Institute Faculty | Foreign Faculty                |  |  |
|---------|---|-------------------|--------------------------------|--|--|
| 1       | Use of induced polarization to discriminate ore bodies in the subsurface of the Earth | Shalivahan        | Prof Andre Revil, CNRS, France |  |  |

| <b>DOU- India Fellowship Programme</b>                          |  |   |   |  |  |
|---|--|---|---|--|--|
| Sl. NO  | Institute Faculty  | Destination Institute   | 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                        |  |  |
|   |  |   |   |  |  |
|   |  |   |   |  |  |
| <b>Shastri Research Student Fellowship (SRSF)-Post Doctoral</b> |  |   |   |  |  |
|   |  |   |   |  |  |
| Sl. No.   | Awardee  | Title   | Foreign Faculty                               |  |  |
| 1   | Dr. Pratchi 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 |  |  |
|   |  |   |   |  |  |
|   |  |   |   |  |  |
| <b>International Projects</b>                                   |  |   |   |  |  |
| Sl. No.   | Title of the Project   | 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 Earthquake Early Warning for Eastern India  | Prof. P. K. Khan  | -   |  |  |

