

DOCTORAL CLASS OF 2021

Ph.D. Degrees Awarded at the

52nd Convocation 2021

November 13, 2021



INDIAN INSTITUTE OF TECHNOLOGY DELHI

Doctoral Class of 2021

Academic research conducted by Ph. D. students forms the core of the research for which IIT Delhi is known. Consequently, we cherish and take great pride in our Ph.D. programme. In our 52nd Convocation, as many as 288 students will be earning their doctoral degrees. It is noteworthy that many of these students could complete their doctoral degrees in spite of the major disruption in academics caused by the second wave of the COVID19 pandemic this year, which prevented research scholars from completing their work in the laboratories, and writing and submitting their doctoral theses. Research picked up again in the third quarter at rapid pace, and one hopes that the disruption caused by the pandemic will soon become a thing of the past. It is also noteworthy that about 37% of graduating Ph.D. students in this Convocation are women students.

In the first Convocation in 1966, one Ph.D. student received his degree. Thus, the Institute has come a long way in post-graduate and Ph.D. research, and its continued focus on increased student intake in the doctoral programme, and commitment to quality research is likely to bear sustained results in the near future.

Ph.D. students conduct their research work individually and they graduate throughout the year. Convocation is arguably the only time that they come together as a class. To create a stronger sense of this class, in recent years we have been publishing this booklet containing the basic information about the Ph.D. students receiving their degrees.

We continue this practice for Convocation 2021. In addition to being such an academic record, this booklet serves as a rapid information guide to the profile of research being carried out in IIT Delhi. A browse through the titles of the theses would give an idea of the wide diversity of expertise amongst the faculty who have supervised these theses, and also a view of the social and economic relevance of the topics and the contemporary nature of the problems being investigated. In coming years, as the Institute grows further and such record-keeping at the time of Convocation continues to happen, we expect this document to serve as a record of the knowhow and knowledge that this Institute has contributed to, thereby justifying the academic pursuits enshrined in the Vision and Mission of the Institute.



Shantanu Roy
Dean, Academics

1	Ashish Dwivedi (2015SMZ8328) Title: "INTEGRATED INFORMATION AND DECISION SYNERGY MODELS FOR PERFORMANCE IMPROVEMENT OF PRODUCT RECOVERY SYSTEM" Supervisor(s): Prof. Jitendra Madaan, Department of Management Studies
2	Nidhika Yadav (2014MAZ8333) Title: "ROUGH SET BASED TECHNIQUES FOR EXTRACTIVE TEXT SUMMARIZATION" Supervisor(s): Prof. Niladri Chatterjee, Department of Mathematics
3	Tukesh Soni (2013MEZ8475) Title: "ACTIVE VIBRATION CONTROL OF ROTORS SUBJECT TO BASE EXCITATION USING NOVEL CONTROL LAWS" Supervisor(s): Prof. J.K. Dutt, Department of Mechanical Engineering, IIT Delhi and Prof. A.S. Das, Department of Mechanical Engineering, Jadavpur University, Kolkata
4	Surya Prakash (2015EEZ8408) Title: "DESIGN & IMPLEMENTATION OF DIFFERENT CONTROL SCHEMES FOR VSC IN VARIOUS GRID CONDITIONS" Supervisor(s): Prof. Sukumar Mishra, Department of Electrical Engineering
5	Adnan Ahmed (2013AMZ8574) Title: "EFFICIENT MULTIFIELD FINITE ELEMENT FORMULATION WITH LAYERWISE MECHANICS FOR SMART PIEZOLAMINATED SHELLS FEATURING DELAMINATIONS AND DEBONDING" Supervisor(s): Prof. Santosh Kapuria and Prof. Maloy K. Singha, Department of Applied Mechanics
6	Hitesh Verma (2012MEZ8395) Title: "EXPERIMENTAL STUDY OF FIRE PROPAGATION ON FABRIC PANELS" Supervisor(s): Prof. S.R. Kale, Department of Mechanical Engineering and Prof. Deepti Gupta, Department of Textile & Fibre Engineering
7	Charu Gupta (2016EEZ8339) Title: "INVESTIGATION OF CMOS SCALING EFFECTS ON HOT-CARRIER RELIABILITY THROUGH ON-WAFER DEVICE CHARACTERIZATION" Supervisor(s): Prof. Abhisek Dixit, Department of Electrical Engineering
8	Ramesh Kumar (2013PHZ8569) Title: "PARAMETRIC DOWNCONVERSION IN LITHIUM NIOBATE RIDGE WAVEGUIDE" Supervisor(s): Prof. Joyee Ghosh, Department of Physics

9	Praveer Sinha (2016BSZ8043) Title: "STUDY OF SELECT ISSUES IN THE MANAGEMENT OF SMART GRID IN INDIA" Supervisor(s): Prof. Ravi Shankar, Department of Management Studies and Prof. Prem Vrat, Department of Mechanical Engineering
10	Sajan Singh (2015TTZ8472) Title: "PHOTOLUMINESCENT NANOSTRUCTURES FROM SELF-ASSEMBLY OF BLOCK COPOLYMER/QUANTUM DOT HYBRIDS" Supervisor(s): Prof. Bhanu Nandan, Department of Textile & Fibre Engineering
11	Hamid Hassan Khan (2014AMZ8024) Title: "DIRECT NUMERICAL SIMULATION OF TRANSITIONAL AND TURBULENT FLOWS IN A SQUARE DUCT" Supervisor(s): Prof. Sanjeev Sanghi, Department of Applied Mechanics and Prof. Syed Fahad Anwer, Department of Mechanical Engineering
12	Deshraj Meena (2014PHZ8019) Title: "STRUCTURAL, OPTICAL AND GAS SENSING PROPERTIES OF CADMIUM TIN OXIDES NANOPARTICLES" Supervisor(s): Prof. Mukesh Chander Bhatnagar, Department of Physics
13	Iqra Reyaz Hamdani (2014CHZ8280) Title: "STUDIES ON THE PHOTOELECTROCHEMICAL SPLITTING OF WATER FOR HYDROGEN GENERATION WITH Cu_2O AND BiVO_4 BASED PHOTOELECTRODES" Supervisor(s): Prof. Ashok N. Bhaskarwar, Department of Chemical Engineering
14	Somnath Pal (2014EEZ8316) Title: "ANALYSIS, DESIGN AND CONTROL OF DC-DC CONVERTERS FOR GENERAL LIGHTING SYSTEMS" Supervisor(s): Prof. Bhim Singh, Department of Electrical Engineering
15	Seema (2015EEZ8099) Title: "CONTROL OF RENEWABLE ENERGY BASED GRID INTERACTIVE MICROGRIDS WITH SQUIRREL CAGE INDUCTION GENERATOR" Supervisor(s): Prof. Bhim Singh, Department of Electrical Engineering
16	K Vignesh Kumar (2016AMZ8347) Title: "EXPERIMENTAL AND COMPUTATIONAL STUDIES OF THE FLOW CHARACTERISTICS OVER A GENERIC AIRCRAFT CARRIER WITH AND WITHOUT THE ISLAND" Supervisor(s): Prof. S.N. Singh, Prof. Sawan S. Sinha, Department of Applied Mechanics, IIT Delhi and Prof. R. Vijayakumar, Department of Ocean Engineering, IIT Madras

17	Ankit Butola (2015PHZ8176) Title: "DEVELOPMENT OF HIGH-RESOLUTION OPTICAL IMAGING AND COMPUTATIONAL TECHNIQUES FOR BIOMEDICAL APPLICATIONS" Supervisor(s): Prof. D.S. Mehta and Prof. P. Senthilkumaran, Department of Physics
18	Poonam Jayal nee Nautiyal (2015EEZ8301) Title: "PERFORMANCE ANALYSIS AND CONTROL OF A REDUCED SWITCH MULTILEVEL INVERTER FED PERMANENT MAGNET SYNCHRONOUS MOTOR DRIVE" Supervisor(s): Prof. G. Bhuvaneswari, Department of Electrical Engineering
19	B Nikhil Krishna (2015EEZ8087) Title: "DOUBLE-INVERTER FED WOUND ROTOR INDUCTION MACHINE DRIVES: CONTROL AND RIPPLE MINIMIZATION" Supervisor(s): Prof. Amit Kumar Jain, Department of Electrical Engineering
20	Pardeep Kumar (2012CEZ8547) Title: "STUDY ON REINFORCED CONCRETE (RC) BEAMS FLEXURALLY STRENGTHENED WITH CARBON AND ARAMID FIBER REINFORCED POLYMER (FRP) STRAND SHEETS" Supervisor(s): Prof. Bishwajit Bhattacharjee and Prof. Shashank Bishnoi, Department of Civil Engineering
21	Prakriti Saxena (2015EEZ7540) Title: "PERFORMANCE EVALUATION OF FSO AND UWOC COMMUNICATION SYSTEMS" Supervisor(s): Prof. Manav Bhatnagar, Department of Electrical Engineering
22	Rahul Sharma (2016EEZ8088) Title: "OPERATION OF CASCADED H-BRIDGE MULTILEVEL CONVERTER FOR GRID CONNECTED SOLAR PV AND MOTOR DRIVE APPLICATIONS" Supervisor(s): Prof. Anandarup Das, Department of Electrical Engineering
23	Kritika Aditya (2016EEZ8086) Title: "MODELING AND CHARACTERIZATION OF RADIATION EFFECTS IN CMOS DEVICES AND CIRCUITS" Supervisor(s): Prof. Abhisek Dixit, Department of Electrical Engineering
24	Vishwanath Srishylappa Yamunamma Hebhi (2014CHZ8290) Title: "DEVELOPMENT OF MONITORING AND CONTROL STRATEGIES FOR DOWNSTREAM PROCESSES" Supervisor(s): Prof. Anurag S. Rathore, Department of Chemical Engineering.

25	Vinod Mishra (2014IDZ8007) Title: "DEVELOPMENT OF ULTRA- PRECISION MACHINING PROCESS FOR MANUFACTURING OF FREEFORM OPTICAL SURFACES" Supervisor(s): Prof. Gufran Sayeed Khan, Centre for Sensors, Instrumentation & Cyber-Physical Systems Engineering and Prof. Sunil Jha, Department of Mechanical Engineering
26	Leeladhar Kala (2012MEZ8397) Title: "RESOURCE ASSESSMENT AND TECHNO-ECONOMIC STUDY OF THERMOCHEMICAL GASIFICATION OF PINE NEEDLES" Supervisor(s): Prof. P.M.V. Subbarao, Department of Mechanical Engineering
27	Tanushree Parasai (2016CEZ8135) Title: "STABILITY OF MIXTURE OF NANOPARTICLES AND ASSOCIATED HEALTH RISKS FROM ENVIRONMENT" Supervisor(s): Prof. Arun Kumar, Department of Civil Engineering
28	Jitendra Singh Verma (2012BEZ8551) Title: "PRODUCTION OF BIOPOLYMER BY GRAM-POSITIVE BACTERIA (BACILLUS THURINGIENSIS)" Supervisor(s): Prof. A.K. Srivastava and Prof. T.R. Sreekrishnan, Department of Biochemical Engineering and Biotechnology
29	Manoj Kumar (2015MAZ8375) Title: "HARMONIC ANALYSIS ASSOCIATED TO VECTOR MEASURES ON A COMPACT GROUP" Supervisor(s): Prof. N. Shravan Kumar, Department of Mathematics
30	Mohd Alam (2016ESZ8102) Title: "RENEWABLE SOURCES BASED DC MICROGRID: DESIGN, OPERATION, ANALYSIS AND APPLICATION" Supervisor(s): Prof. Viresh Dutta and Prof. Sumit Kumar Chattopadhyay, Department of Energy Science & Engineering
31	Aman Bhatnagar (2015SMZ8329) Title: "COLD-CHAIN MANAGEMENT FOR AGRO-BASED PERISHABLES" Supervisor(s): Prof. Ravi Shankar, Department of Management Studies and Prof. Prem Vrat, Department of Mechanical Engineering
32	Thanusha A.V. (2013BMZ8518) Title: "FABRICATION AND EVALUATION OF BIO-POLYMERIC HYBRID SCAFFOLDS FOR BURN WOUND HEALING" Supervisor(s): Prof. Veena Koul and Prof. Sujata Mohanty, Centre for Biomedical Engineering

33	De Bakshi Nilanjana (2014TRZ8409) Title: "URBAN FREIGHT TRIP GENERATION AND ESTIMATION OF FACTORS INFLUENCING MODE CHOICE IN EMERGING ECONOMIES-CASE STUDY DELHI" Supervisor(s): Prof. Geetam Tiwari, Transportation Research & Injury Prevention Centre and Prof. Nomesh Bolia, Department of Mechanical Engineering
34	Nusrat Rashid (2014CYZ8394) Title: "ELECTROCHEMICAL REDUCTION OF CO ² ON COPPER DERIVED SURFACES" Supervisor(s): Prof. Pravin P. Ingole, Department of Chemistry
35	Suchismita Patra (2014MAZ8336) Title: "NUMERICAL METHODS FOR MULTIPLE SOLUTIONS OF SOME p-LAPLACIAN PROBLEMS" Supervisor(s): Prof. V.V.K. Srinivas Kumar, Department of Mathematics
36	Vineet Barwal (2014PHZ8353) Title: "GROWTH AND INVESTIGATIONS OF MnAl BINARY ALLOY AND Co BASED HEUSLER ALLOY THIN FILMS FOR SPINTRONIC APPLICATIONS" Supervisor(s): Prof. Sujeet Chaudhary, Department of Physics
37	Pooja Punyani (2013MAZ8158) Title: "ON CHANGES IN FROBENIUS NUMBER" Supervisor(s): Prof. A. Tripathi, Department of Mathematics
38	Sapna Mudgal (2014ESZ8094) Title: "INVESTIGATION OF CHARGE CARRIER TRANSPORT BEHAVIOUR IN SILICON HETEROJUNCTION SOLAR CELLS" Supervisor(s): Prof. Vamsi K. Komarala, Department of Energy Science & Engineering
39	Amit Ranjan Verma (2012RDZ8208) Title: "DESIGNING, LABORATORY AND FIELD STUDIES OF BIOMASS COOKSTOVE" Supervisor(s): Prof. V.K. Vijay and Prof. Rajendra Prasad, Centre for Rural Development & Technology
40	Neeraj Yadav (2016SMZ8455) Title: "STUDY OF SELECT PRACTICES IN ORGANISATIONAL PERFORMANCE RELATED WITH LEAN SIX SIGMA AND EMERGING INFORMATION TECHNOLOGIES" Supervisor(s): Prof. Ravi Shankar and Prof. Surya Prakash Singh, Department of Management Studies

41	Debanjan Konar (2015EEZ8421) Title: "AUTOMATIC BRAIN MR IMAGE SEGMENTATION USING QUANTUM-INSPIRED SELF-SUPERVISED NEURAL NETWORK ARCHITECTURES" Supervisor(s): Prof. B.K. Panigrahi, Department of Electrical Engineering, IIT Delhi and Prof. S. Bhattacharyya, Department of Computer Science and Engineering, CHRIST, Bangalore
42	Aatina Nasir Malik (2015HUZ8460) Title: "BEYOND EVENT AND AFTERMATH: AN ETHNOGRAPHIC ACCOUNT OF EVERYDAY LIFE IN A KASHMIRI NEIGHBOURHOOD" Supervisor(s): Prof. Farhana Ibrahim, Department of Humanities & Social Sciences
43	Iqra Altaf Gillani (2015CSZ8491) Title: "A STOCHASTIC PROCESS WITH A LAPLACIAN CONNECTION" Supervisor(s): Prof. Amitabha Bagchi, Department of Computer Science & Engineering
44	Deepika Malpani (2015TTZ8269) Title: "STUDIES ON THE ELECTROSPINNABILITY OF POLYMER SUPRAMOLECULES" Supervisor(s): Prof. Bhanu Nandan and Prof. Rajiv K. Srivastava, Department of Textile & Fibre Engineering
45	Sanjay Kumar (2014BEZ8005) Title: "SCALE-UP OF PHB PRODUCTION USING DIFFERENT BACTERIAL SPECIES" Supervisor(s): Prof. A.K. Srivastava, Department of Biochemical Engineering & Biotechnology
46	Saptarshi Ghosh (2015EEZ8096) Title: "PHYSICAL LAYER SECURITY FOR SMART GRID COMMUNICATIONS" Supervisor(s): Prof. Manav Bhatnagar and Prof. B.K. Panigrahi, Department of Electrical Engineering
47	Mohd. Adnan (2015PHZ8182) Title: "LINEAR AND NONLINEAR OPTICAL EXCITON PROBING IN INORGANIC ORGANIC HYBRID SEMICONDUCTORS" Supervisor(s): Prof. G. Vijaya Prakash, Department of Physics
48	Sukanya Ghosh (2014BLZ8272) Title: "ENGINEERING SMART HYDROPHOBIC-DRUG DELIVERY VEHICLES" Supervisor(s): Prof. Manidipa Banerjee, Kusuma School of Biological Sciences

49	Mrutyunjay Nayak (2016ESZ8413) Title: "CARRIER-SELECTIVE CONTACTS BASED SILICON HETEROJUNCTION SOLAR CELLS: FABRICATION AND DEVICE CHARACTERIZATION" Supervisor(s): Prof. Vamsi K. Komarala, Department of Energy Science & Engineering
50	Atul Thakur (2014EEZ8068) Title: "RF FRONT-ENDS FOR ASYNCHRONOUS TRANSCEIVERS" Supervisor(s): Prof. Shouribrata Chatterjee, Department of Electrical Engineering
51	Abhary E (2015CEZ8362) Title: "APPLICATION OF MACHINE LEARNING TECHNIQUES FOR ASPHALTIC MATERIAL MODELING" Supervisor(s): Prof. Aravind Krishna Swamy, Department of Civil Engineering
52	Rishav (2013AMZ8578) Title: "STUDY OF AERO-ELASTIC INTERFERENCE, VORTEX INDUCED VIBRATION AND RELIABILITY: IMPLICATIONS FOR THE DESIGN OF TALL SLENDER STRUCTURES" Supervisor(s): Prof. Srinivas V. Veeravalli and Prof. Suhail Ahmad, Department of Applied Mechanics
53	Suchismita Das (2016HUZ8181) Title: "THE RISE OF OPPOSITIONS POLITICS OF LAND, PATRONAGE, AND RESISTANCE IN WEST BENGAL" Supervisor(s): Prof. Sarbeswar Sahoo, Department of Humanities & Social Sciences
54	Priyanka (2015CHZ8504) Title: "STRATEGIES FOR IMPROVING THE PRODUCTION OF BIOTHERAPEUTIC PROTEIN" Supervisor(s): Prof. Anurag S. Rathore, Department of Chemical Engineering and Prof. James Gomes, Kusuma School of Biological Sciences
55	Vishal Bhardwaj (2015PHZ8197) Title: "MAGNETO-TRANSPORT PROPERTIES OF $\text{RPdBi}(\text{R}=\text{Y}, \text{Dy}, \text{Er})$ HALF HEUSLER TOPOLOGICAL SEMI-METALLIC THIN FILMS" Supervisor(s): Prof. Ratnamala Chatterjee, Department of Physics and Prof. Ashok Kumar Ganguli, Department of Chemistry
56	Rohit Kumar (2013CHZ8565) Title: "UNDERSTANDING TRI-REFORMING OF METHANE USING HYDROTALCITE-DERIVED CATALYSTS FOR UTILIZATION OF CO_2 OF FLUE GASES FROM THERMAL POWER PLANTS" Supervisor(s): Prof. K.K. Pant, Department of Chemical Engineering, IIT Delhi, Dr. N.V. Choudary, HPCL R&D Centre, Bengaluru and Prof. Sandeep Kumar, Old Dominion University, USA

57	Anirban Sen (2014CSZ8208) Title: "A COMPUTER-BASED APPROACH TO ANALYZE SOME ASPECTS OF THE POLITICAL ECONOMY OF POLICY MAKING IN INDIA" Supervisor(s): Prof. Aaditeswar Seth, Department of Computer Science & Engineering
58	Ayesha Firdaus (2015EEZ8079) Title: "STABILITY ANALYSIS AND CONTROL OF INVERTER BASED DISTRIBUTED GENERATION IN STANDALONE POWER NETWORK" Supervisor(s): Prof. Sukumar Mishra, Department of Electrical Engineering
59	Tathagata Roy (2015CEZ8032) Title: "ANALYSIS METHOD FOR MULTI-HAZARD PROTECTION OF STRUCTURES FROM EARTHQUAKE, WIND BLAST, AND FIRE" Supervisor(s): Prof. Vasant A. Matsagar, Department of Civil Engineering
60	Reshu Tyagi (2013PTZ8207) Title: "DESIGN AND SYNTHESIS OF IMINODIACETATE-STYRENE BASED CHELATING POLYMERIC MATERIALS FOR WATER PURIFICATION" Supervisor(s): Prof. Josemon Jacob, Department of Materials Science & Engineering
61	Shraddha Mishra (2016SMZ8443) Title: "MODELLING INTERNATIONAL MANUFACTURING NETWORK" Supervisor(s): Prof. S.P. Singh, Department of Management Studies
62	Mohit Kumar Singh (2015CEZ8019) Title: "CELLULAR AUTOMATA MODELLING OF MULTILANE SIGNALIZED JUNCTIONS WITH HETEROGENEOUS TRAFFIC" Supervisor(s): Prof. K. Ramachandra Rao, Department of Civil Engineering
63	Chandan kumar Jha (2017EEZ8171) Title: "TCAD BASED MODELLING OF LINE-EDGE-ROUGHNESS AND RADIATION EFFECTS IN ADVANCED CMOS DEVICES" Supervisor(s): Prof. Abhisek Dixit, Department of Electrical Engineering
64	Payal (2015CRZ8038) Title: "DESIGN AND ANALYSIS OF NON-UNIFORM LINEAR ARRAY FOR DOA ESTIMATION OF NON-CIRCULAR SIGNALS" Supervisor(s): Prof. Monika Aggarwal, Centre for Applied Research in Electronics
65	Santu Kar (2017CEZ8073) Title: "DEVELOPING A DECISION SUPPORT SYSTEM FOR EFFECTIVE MATERIAL MANAGEMENT IN CONSTRUCTION" Supervisor(s): Prof. K.N. Jha, Department of Civil Engineering

66	Pooja Basera (2016PHZ8200) Title: "SELF-ENERGY AND EXCITONIC EFFECTS IN WIDE BAND GAP ENERGY MATERIALS FROM MANY BODY PERTURBATION THEORY" Supervisor(s): Prof. Saswata Bhattacharya, Department of Physics
67	Anjeet Kumar Verma (2015EEZ8414) Title: "CONTROL OF RELIABLE CHARGING INFRASTRUCTURE FOR EVS WITH RENEWABLE ENERGY GRID INTERFACE" Supervisor(s): Prof. Bhim Singh, Department of Electrical Engineering
68	Swati Tak (2015CEZ8029) Title: "GEOSPATIAL MODELLING OF GLACIERS HEALTH AND LINKAGES WITH HYDROLOGY AND CLIMATE CHANGE USING REMOTE SENSING, GIS AND SEASONAL SENSITIVITY CHARACTERISTICS" Supervisor(s): Prof. A.K. Keshari, Department of Civil Engineering
69	Abhishek Kumar Pandey (2015MEZ8151) Title: "HARDFACING THROUGH PASTE DEPOSIT TECHNIQUE USING ADVANCED SUBMERGED ARC WELDING" Supervisor(s): Prof. P.M. Pandey, Department of Mechanical Engineering, IIT Delhi and Prof. Sunil Pandey, School of Engineering Jawaharlal Nehru University, New Delhi
70	Pooja Bansal (2014MAZ8334) Title: "DATA ENVELOPMENT ANALYSIS MODELS FOR EFFICIENCY EVALUATION AND PRODUCTIVITY ASSESSMENT IN THE BACKDROP OF DISPARATE DATA AND STRUCTURES" Supervisor(s): Prof. Aparna Mehra, Department of Mathematics
71	Babita Bakshi (nee Babita Kumari) (2013PHZ8188) Title: "DESIGN AND MODELING OF SILICON PHOTONICS-BASED SENSORS AND COMPONENTS FOR THE MID-IR" Supervisor(s): Prof. R.K. Varshney, Department of Physics, IIT Delhi and Prof. B.P. Pal, Mahindra University, Hyderabad
72	Sparsh Johari (2016CEZ8424) Title: "EFFECT OF SOCIOEMOTIONAL, COGNITIVE, AND TECHNICAL COMPETENCIES OF WORKERS ON CONSTRUCTION LABOR PRODUCTIVITY" Supervisor(s): Prof. K.N. Jha, Department of Civil Engineering
73	Anil Kumar Sharma (2014MEZ8010) Title: "DYNAMICS OF TETHERED UNDERWATER VEHICLE-MANIPULATOR SYSTEMS" Supervisor(s): Prof. S.K. Saha, Department of Mechanical Engineering

74	Swati Gautam (2012ITZ8034) Title: "FAULT DETECTION IN WORM AND SPUR GEARS USING ACOUSTICS, VIBRATION AND THERMOGRAPHY TECHNIQUES" Supervisor(s): Prof. N. Tandon, Centre for Automotive Research and Tribology
75	Kartikay Gupta (2015MAZ8144) Title: "DECISION MAKING USING FINANCIAL TIME SERIES DATA" Supervisor(s): Prof. Niladri Chatterjee, Department of Mathematics
76	Ajit Kumar (2017MEZ8605) Title: "DEVELOPMENT OF MAGNESIUM BASED BIOMATERIAL WITH IMPROVED PROPERTIES USING MICROWAVE SINTERING AND ULTRASONIC ASSISTED SINTRING" Supervisor(s): Prof. P.M. Pandey, Department of Mechanical Engineering
77	Vandita Sahay (2014HUZ8161) Title: "AN ECONOMIC ANALYSIS OF COAL-BASED THERMAL POWER PLANTS IN INDIA" Supervisor(s): Prof. V. Upadhyay and Prof. Ankush Agrawal, Department of Humanities & Social Sciences
78	Jasvinder Singh (2016MEZ8552) Title: "EXPERIMENTAL INVESTIGATIONS AND CHARACTERIZATION OF CARDIOVASCULAR STENTS FABRICATED BY SOLVENT CAST 3D PRINTING" Supervisor(s): Prof. P.M. Pandey, Department of Mechanical Engineering
79	Ruchi (2015PHZ8255) Title: "STUDIES ON POINCARÉ BEAMS AND VECTOR VORTEX BEAMS" Supervisor(s): Prof. P. Senthilkumaran, Department of Physics
80	Mohamed Shahid U N (2015CHZ8241) Title: "KINETICS AND PERFORMANCE OF PEROVSKITE ANODES FOR METHANE ELECTROOXIDATION IN SOLID OXIDE FUEL CELLS" Supervisor(s): Prof. S. Basu and Prof. Ali Haider, Department of Chemical Engineering
81	Sonam Jain (2017EEZ8169) Title: "DESIGN AND OPTIMIZATION OF ORGANIC AND 2D MATERIALS-BASED FIELD EFFECT TRANSISTORS (FETs) FOR GAMMA RADIATION DOSIMETRY" Supervisor(s): Prof. V. Ramgopal Rao, Director and Prof. Ankur Gupta, Centre for Applied Research in Electronics
82	Radha S (2014HUZ8156) Title: "SOME SELECT ECONOMIC ISSUES IN INDIAN AGRICULTURE" Supervisor(s): Prof. Ankush Aggarwal, Department of Humanities & Social Sciences

83	Fikreyesus Demeke Cherkos (2017CEZ8367) Title: "PROJECT CHARACTERISTICS AND INFLUENCING FACTORS OF ROAD DEVELOPMENT WITH VARIOUS CONTRACTUAL MODELS" Supervisor(s): Prof. K.N. Jha, Department of Civil Engineering
84	Srivastava Manish Kumar Raghunathji (2017SMZ8414) Title: "A FRAMEWORK FOR VALUES EDUCATION IN SCHOOLS" Supervisor(s): Prof. Harish Chaudhary, Department of Management Studies
85	Karan Malik (2014CHZ8282) Title: "STUDY ON ELECTROCHEMICAL REDUCTION OF CARBON DIOXIDE TO SYNGAS" Supervisor(s): Prof. Anil Verma, Department of Chemical Engineering
86	Richa Priyadarshani (2015EEZ8401) Title: "ANALYTICAL AND EXPERIMENTAL EVALUATION OF FREE-SPACE OPTICAL SYSTEMS WITH CHANNEL CORRELATION" Supervisor(s): Prof. Manav Bhatnagar, Department of Electrical Engineering
87	Gadkari Rahul Rajkumar (2015TTZ8271) Title: "DEVELOPMENT OF NONWOVEN FABRIC BASED FILTRATION SYSTEM FOR POTABLE WATER" Supervisor(s): Prof. S. Wazed Ali, Prof. Apurba Das and Prof. R. Alagirusamy, Department of Textile and Fibre Engineering
88	Sameer Dhawan (2015CYZ8481) Title: "A MINIMALISTIC APPROACH FOR FUNCTIONAL SELF-ASSEMBLING PEPTIDE AND PSEUDOPEPTIDE SYSTEMS" Supervisor(s): Prof. V. Haridas, Department of Chemistry
89	Meenakshi Sharma (2015CEZ8368) Title: "MULTISCALE MICROMECHANICAL MODELLING OF THE INFLUENCE OF INTERFACIAL TRANSITION ZONE ON THE MECHANICAL AND TRANSPORT PROPERTIES OF CEMENTITIOUS MATERIALS" Supervisor(s): Prof. Shashank Bishnoi, Department of Civil Engineering
90	Pankaj Srivastava (2013AMZ8577) Title: "A COMPUTATIONAL STUDY OF THERMAL CHARACTERISTICS OF MICROCHANNEL HEAT SINK WITH PASSIVE ENHANCEMENT METHODS" Supervisor(s): Prof. Anupam Dewan, Department of Applied Mechanics
91	Alok Kumar Sinha (2015BSZ8005) Title: "UPLINK TIMING SYNCHRONIZATION FOR FIFTH GENERATION COMMUNICATION SYSTEMS" Supervisor(s): Prof. Saif Khan Mohammed, Bharti School of Telecommunication Technology & Management

92	Vaibhav Chandra (2013MEZ8182) Title: "IMPROVEMENT IN MACHINABILITY OF AISI D2 AND OPTIMIZATION OF THE MACHINING PROCESS PARAMETERS IN HARD TURNING" Supervisor(s): Prof. S. Ghosh and Prof. P.V. Rao, Department of Mechanical Engineering
93	R. Ahalya (2015HUZ8129) Title: "ESSAYS ON MIDDLE CLASS IN INDIA" Supervisor(s): Prof. Sourabh Paul and Prof. V. Upadhyay, Department of Humanities & Social Sciences
94	Dindayal Agrawal (2013SMZ8499) Title: "FRAMEWORK FOR READINESS OF BIG DATA ADOPTION IN HEALTHCARE SUPPLY CHAIN (HSC)" Supervisor(s): Prof. Jitendra Madaan, Department of Management Studies
95	Hariom (2017MAZ8307) Title: "ON EXISTENCE OF SOME SPECIAL ELEMENTS OVER FINITE FIELDS" Supervisor(s): Prof. R.K. Sharma, Department of Mathematics
96	Kaushlendra Kumar Dubey (2015MEZ8160) Title: "ELECTROKINETIC INSTABILITIES AND NON-UNIFORM ELECTROOSMOTIC FLOW IN MICROFLUIDIC SYSTEMS WITH CONDUCTIVITY GRADIENTS" Supervisor(s): Prof. Supreet Singh Bahga and Prof. Amit Gupta, Department of Mechanical Engineering
97	Solomon Abera Bekele (2014CSZ8241) Title: "RESOURCE CONTENTION AWARE PERFORMANCE AND POWER OPTIMIZATION IN CHIP MULTIPROCESSORS" Supervisor(s): Prof. M. Balakrishnan and Prof. Anshul Kumar, Department of Computer Science & Engineering
98	Jananee Jaishankar (2015BEZ8350) Title: "ISOLATION AND MOLECULAR CHARACTERIZATION OF PROMOTERS FROM GORDONIA" Supervisor(s): Prof. Preeti Srivastava, Department of Biochemical Engineering & Biotechnology
99	Mathew M P (2015AMZ8349) Title: "EFFECT OF PASSIVE DEVICES AND ISLAND PARAMETERS ON FLOW CHARACTERISTICS OVER A GENERIC AIRCRAFT CARRIER" Supervisor(s): Prof. S.N. Singh and Prof. Sawan S. Sinha, Department of Applied Mechanics, IIT Delhi and Prof. R. Vijayakumar, Department of Ocean Engineering, IIT Madras

100	Bhawna Ahuja (2015BSZ8006) Title: "ENHANCED SECRECY TECHNIQUES IN THE PRESENCE OF A HYBRID ATTACKER FOR A RESOURCE-CONSTRAINED ENVIRONMENT" Supervisor(s): Prof. Ranjan Bose, Department of Electrical Engineering
101	Aditya Gokhale (2014MSZ8021) Title: "INFLUENCE OF TEXTURE AND TEMPERATURE ON THE SMALL-SCALE MECHANICAL BEHAVIOR IN ZINC" Supervisor(s): Prof. Rajesh Prasad and Prof. Jayant Jain, Department of Materials Science & Engineering
102	Gargi Jaiswal (2013AMZ8575) Title: "AN EXPERIMENTAL AND NUMERICAL STUDY ON KEVLAR-POLYPROPYLENE HYBRID NONWOVENS AND FIBERWEB COMPOSITES" Supervisor(s): Prof. M.K. Singha, Department of Applied Mechanics and Prof. Dipayan Das, Department of Textile & Fibre Engineering
103	Abhilash Patel (2015EEZ8395) Title: "BIOMOLECULAR FEEDFORWARD LOOPS: PULSE DYNAMICS, DESIGN CONSTRAINTS, AND ROBUSTNESS" Supervisor(s): Prof. S. Sen, Department of Electrical Engineering
104	Ankit Singhal (2013ANZ8011) Title: "COMPUTER VISION BASED DEEP LEARNING TO PREDICT PRECURSOR MIRNA IN HUMAN GENOME" Supervisor(s): Prof. S.N. Maheshwari and Prof. Sanjiva Prasad, Department of Computer Science & Engineering
105	Abhishek Singh (2015MEZ8445) Title: "MACHINING PERFORMANCE EVALUATION OF NIMONIC C 263 USING MECHANICALLY TREATED CUTTING TOOLS" Supervisor(s): Prof. S. Ghosh and Prof. S. Aravindan, Department of Mechanical Engineering
106	Abhishek Kumbhat (2013SMZ8495) Title: "MODELLING AND ANALYSIS OF NEW VENTURE PERFORMANCE-USING BUSINESS MODELS AND SUCCESS FACTORS" Supervisor(s): Prof. Sushil, Department of Management Studies
107	Nagender Singh (2017TTZ8477) Title: "STUDIES IN FUNCTIONALIZATION OF TEXTILES USING MICROENCAPSULATED MATERIALS" Supervisor(s): Prof. Javed N. Sheikh, Department of Textile & Fibre Engineering
108	Deeksha Tayal (2015HUZ8125) Title: "WOMEN IN URBAN LABOUR MARKET OF INDIA" Supervisor(s): Prof. Sourabh B. Paul, Department of Humanities & Social Sciences

109	Nibedita Parida (2015EEZ8085) Title: "NEW CIRCUIT TOPOLOGIES OF MODULAR MULTILEVEL CONVERTERS WITH PASSIVE FILTERS: MODELING, DESIGN AND OPERATION" Supervisor(s): Prof. Anandarup Das, Department of Electrical Engineering
110	Roshni Mathur (2012ASZ2525) Title: "AN EARTH SYSTEM MODEL SENSITIVITY STUDY OF THE EFFECTS OF IRRIGATION ON INDIA'S CLIMATE" Supervisor(s): Prof. Krishna AchutaRao, Centre for Atmospheric Sciences
111	Vaibhav Rana (2016CRZ8561) Title: "NANO DIMENSIONAL PIEZORESISTIVE SENSING ELEMENTS FOR MULTIPLE MEMS SENSORS" Supervisor(s): Prof. Pushparaj Singh and Prof. Samaresh Das, Centre for Applied Research in Electronics
112	S Sugeet (2013PHZ8202) Title: "MODELLING, DESIGN AND ANALYSIS OF PHOTONIC LANTERNS" Supervisor(s): Prof. Anurag Sharma and Prof. G.V. Prakash, Department of Physics
113	Gopendra Singh (2013BMZ8040) Title: "PREPARATION, CHARACTERIZATION AND EVALUATION OF BIOPOLYMER BASED COMPOSITE HYDROGELS FOR BIOMEDICAL APPLICATIONS" Supervisor(s): Prof. Veena Koul, Centre for Biomedical Engineering
114	Nitika Gaurav (2014BLZ8268) Title: "DECIPHERING THE UNCONVENTIONAL ROLE OF CAPSID PROTEIN IN CHIKUNGUNYA VIRUS INFECTION" Supervisor(s): Prof. Ashok Kumar Patel, Kusuma School of Biological Sciences
115	Mayank Gupta (2015PHZ8388) Title: "DESIGN AND DEVELOPMENT OF EFFICIENT SOLAR CONCENTRATION SYSTEM FOR ENERGY HARVESTING AND ITS APPLICATIONS" Supervisor(s): Prof. D.S. Mehta, Department of Physics
116	Rishi Kant Sharma (2015EEZ8095) Title: "ADVANCED CONTROL AND POWER MANAGEMENT OF DISTRIBUTED ENERGY RESOURCES IN AN AUTONOMOUS MICROGRID" Supervisor(s): Prof. Sukumar Mishra, Department of Electrical Engineering
117	Vinaya Prakash Singh (2013SMZ8507) Title: "INDIVIDUAL AND CONTEXTUAL FACTORS IMPACTING RESISTANCE TO AND READINESS FOR CHANGE: A STUDY OF INDIA POST" Supervisor(s): Prof. Kanika T. Bhal and Prof. Shuchi Sinha, Department of Management Studies

118	Harsh Gupta (2014PHZ8103) Title: "STUDY OF PROPERTIES OF AS-DEPOSITED AND SWIFT HEAVY ION IRRADIATED a-SiNx:H THIN FILMS" Supervisor(s): Prof. Pankaj Srivastava and Prof. Santanu Ghosh, Department of Physics
119	Shivani Kumar (2014BLZ8271) Title: "IDENTIFYING G-QUADRUPLEXES AND THEIR FUNCTIONAL ROLE IN THE REGULATION OF MIRNAS AND HUMAN HOMOLOGUES ENCODED BY HUMAN HERPESVIRUSES" Supervisor(s): Prof. Vivekanandan Perumal, Kusuma School of Biological Sciences
120	Lipsy (2016MAZ8187) Title: "FUNCTIONS BETWEEN METRIC SPACES AND THEIR RELATIONS TO COFINAL COMPLETENESS" Supervisor(s): Prof. Subiman Kundu, Department of Mathematics
121	Jashwant Kumar (2014CHZ8281) Title: "BIOPROCESS DEVELOPMENT FOR ENHANCING RECOMBINANT PROTEIN PRODUCTION IN ESCHERICHIA COLI" Supervisor(s): Prof. Anurag S. Rathore, Department of Chemical Engineering
122	Padole Himanshu Pramod (2016EEZ8489) Title: "SOME STUDIES ON GRAPH SIGNAL PROCESSING WITH APPLICATION TO ALZHEIMER'S DISEASE DETECTION" Supervisor(s): Prof. S.D. Joshi and Prof. Tapan K. Gandhi, Department of Electrical Engineering
123	Sonit Balyan (2014CHZ8178) Title: "UNDERSTANDING CATALYSIS BY MOLYBDENUM CARBIDE NANOCCLUSERS IN Mo/HZSM-5 CATALYST FOR METHANE DEHYDROAROMATIZATION" Supervisor(s): Prof. K.K. Pant and Prof. M. Ali Haider, Department of Chemical Engineering
124	Sreejith R (2014EEZ8083) Title: "DESIGN AND CONTROL OF PMSM DRIVE FOR LIGHT EV WITH SOLAR PV INTEGRATION" Supervisor(s): Prof. Bhim Singh, Department of Electrical Engineering
125	Abhishek (2015PHZ8252) Title: "SYNTHESIS AND STUDY OF STRUCTURAL, OPTICAL AND PIEZO-ELECTRICAL PROPERTIES OF PVDF POLYMER EMBEDDED WITH OXIDE NANOFILLERS" Supervisor(s): Prof. Mukesh Chander Bhatnagar, Department of Physics

126	Sudipta Saha (2015EEZ8108) Title: "CONTROL STRATEGIES FOR ACTIVE MAGNETIC BEARING SYSTEM" Supervisor(s): Prof. M. Nabi, Department of Electrical Engineering
127	Usharani Rath (2017MEZ8325) Title: "EXPERIMENTAL INVESTIGATIONS AND MODELLING OF ORIENTED POLYMERIC COMPOSITES DEVELOPED BY MAGNETIC FIELD ASSISTED 3D PRINTING FOR MICROWAVE SHIELDING APPLICATIONS" Supervisor(s): Prof. P.M. Pandey, Department of Mechanical Engineering
128	Dipesh Kumar Mishra (2017MEZ8326) Title: "DEVELOPMENT OF POROUS Fe SCAFFOLDS WITH IMPROVED PROPERTIES BY USING MICRO- EXTRUSION BASED 3D PRINTING AND MICROWAVE SINTERING" Supervisor(s): Prof. P.M. Pandey, Department of Mechanical Engineering
129	Mayank Srivastava (2016MEZ8278) Title: "DEVELOPMENT AND ANALYSIS OF DOUBLE-DISC CHEMICAL- ASSISTED MAGNETO- RHEOLOGICAL FINISHING PROCESS" Supervisor(s): Prof. P.M. Pandey, Department of Mechanical Engineering
130	Dileep Bapatla (2016EEZ8082) Title: "PERFORMANCE OF COMMUNICATION NETWORKS WITH ENERGY-BUFFER EQUIPPED NODES" Supervisor(s): Prof. Shankar Prakriya, Department of Electrical Engineering
131	Ashish K. Lohar (2014BEZ7503) Title: "HEAVY METAL SOLUBILIZATION USING ACIDOGENESIS DURING ANAEROBIC DIGESTION" Supervisor(s): Prof. T.R. Sreekrishnan, Department of Biochemical Engineering & Biotechnology
132	Vivek Kumar (2014BLZ8197) Title: "APPLICATIONS OF NOVEL MEMBRANE ACTIVE PEPTIDES" Supervisor(s): Prof. Archana Chugh, Kusuma School of Biological Sciences
133	Tabia Ahmad (2016EEZ8080) Title: "ADVANCED STATISTICAL TECHNIQUES FOR ROBUST POWER SYSTEM ANALYTICS" Supervisor(s): Prof. Nilanjan Senroy, Department of Electrical Engineering
134	Satyanarjan Bairagi (2016TTZ8472) Title: "DEVELOPMENT AND CHARACTERIZATION OF POLY (VINYLIDENE FLUORIDE) (PVDF)/ POTASSIUM SODIUM NIOBATE(KNN) NANOCOMPOSITE BASED PIEZOELECTRIC MATERIALS" Supervisor(s): Prof. S. Wazed Ali, Department of Textile & Fibre Engineering

135	Deepak Kumar (2016MSZ8464) Title: "MICRO AND NANO-SCALE TRIBOLOGY OF Mg-9Al-1Zn MAGNESIUM ALLOY UNDER DRY AND LUBRICATED CONDITIONS" Supervisor(s): Prof. Nitya Nand Gosvami and Prof. Jayant Jain, Department of Materials Science & Engineering
136	Pradyumna Ranjan Ghosh (2015EEZ8090) Title: "ANALYSIS OF A SYNCHRONOUS RELUCTANCE MOTOR DRIVE CONNECTED TO A WEAK GRID" Supervisor(s): Prof. G. Bhuvaneshwari and Prof. Anandarup Das, Department of Electrical Engineering
137	Patil Deepak Deelip (2015MEZ8154) Title: "DEVELOPMENT OF FUNCTIONAL SURFACES" Supervisor(s): Prof. S. Aravindan and Prof. P.V. Rao, Department of Mechanical Engineering
138	Brijesh Chander Pandey (2015EEZ8080) Title: "METHODS FOR REDUCTION IN ACK/NACK SIGNALING AND CHANNEL ESTIMATION OVERHEAD IN MASSIVE MIMO SYSTEMS" Supervisor(s): Prof. Saif Khan Mohammed, Department of Electrical Engineering
139	Prajna Devi Upadhyay (2013CSZ8110) Title: "CONSTRUCTION AND APPLICATIONS OF A TECHNICAL KNOWLEDGE BASE" Supervisor(s): Prof. Maya Ramanath, Department of Computer Science & Engineering
140	Nikhil Kumar (2014CSZ8210) Title: "MULTICOMMODITY FLOWS IN PLANAR GRAPHS" Supervisor(s): Prof. Naveen Garg, Department of Computer Science & Engineering
141	Atul Kumar Dubey (2015PHZ8385) Title: "DESIGN AND DEVELOPMENT OF LASER-DRIVEN PHOSPHOR-CONVERTED WHITE LIGHT SOURCE AND ITS CHARACTERIZATION" Supervisor(s): Prof. D.S. Mehta, Department of Physics
142	Subarni Pradhan (2015EEZ8409) Title: "CONTROL OF GRID INTERACTIVE MICROGRIDS EMPLOYING SOLAR PHOTOVOLTAIC ARRAY, WIND TURBINE DRIVEN PMSG AND BATTERY" Supervisor(s): Prof. Bhim Singh and Prof. B.K. Panigrahi, Department of Electrical Engineering
143	Pratibha Singh (2011EEZ8310) Title: "AUTOMATED MACHINE LEARNING USING PARTICLE SWARM OPTIMIZATION" Supervisor(s): Prof. Santanu Chaudhury and Prof. B.K. Panigrahi, Department of Electrical Engineering

144	Shubhra (2016EEZ8332) Title: "CONTROL OF GRID INTEGRATED MULTIPLE SOLAR PV ARRAYS-BATTERY BASED MICROGRID SYSTEM" Supervisor(s): Prof. Bhim Singh, Department of Electrical Engineering
145	Shiva Azimi (2015EEZ8458) Title: "COMPUTER VISION BASED PLANT PHINOTYPING" Supervisor(s): Prof. Tapan K. Gandhi and Prof. S.D. Joshi, Department of Electrical Engineering
146	Devendra Kumar (2013PTZ8206) Title: "STUDIES ON CURING KINETICS AND THERMAL BEHAVIOR OF PHTHALONITRILE RESIN USING AROMATIC AMINES" Supervisor(s): Prof. Veena Choudhary and Prof. Sampa Saha, Department of Materials Science & Engineering
147	Sanjay Kumar (2013AMZ8289) Title: "EXPERIMENTAL AND NUMERICAL INVESTIGATION ON DYNAMIC FRACTURE OF ALUMINIUM ALLOYS" Supervisor(s): Prof. Vikrant Tiwari, Department of Applied Mechanics
148	Amit Kumar Vimal (2012BMZ8466) Title: "IMPROVEMENT IN UNILATERAL ABOVE KNEE AMPUTEE'S LIMIT OF STABILITY BY USING VIBROTACTILE FEEDBACK" Supervisor(s): Prof. Shubhendu Bhasin and Prof. Sneha Anand, Centre for Biomedical Engineering
149	Kamble Zunjarrao Bapuso (2017TTZ8482) Title: "DEVELOPMENT AND CHARACTERIZATION OF COMPOSITES REINFORCED WITH TEXTILE WASTE" Supervisor(s): Prof. B.K. Behera, Department of Textile & Fibre Engineering
150	Himani (2017ESZ8657) Title: "MAGNETIC TURBULENCE IN LASER PRODUCED PLASMAS AND LABORATORY SIMULATION OF ASTROPHYSICAL PHENOMENA" Supervisor(s): Prof. R. Uma and Prof. R.P. Sharma, Department of Energy Science & Engineering
151	Shanta Mohapatra (2013MSZ8008) Title: "DEFORMATION AND STATIC RECRYSTALLIZATION BEHAVIOR OF EXTRUDED PURE MAGNESIUM UNDER STRAIN PATH CHANGE" Supervisor(s): Prof. Jayant Jain and Prof. R. Prasad, Department of Materials Science & Engineering
152	Kavita Tandon (2015CEZ8018) Title "DYNAMIC RESPONSE OF BLOCK FOUNDATIONS SUBJECTED TO VIBRATIONS INDUCED BY SINGLE AND TWO ROTATING MACHINES" Supervisor(s): Prof. Bappaditya Manna and Prof. G.V. Ramana, Department of Civil Engineering

153	Wasiuddin (2015CRZ8040) Title: "LOW TEMPERATURE CHARGE TRANSPORT CHARACTERISTICS IN NANO- DIMENSIONAL MATERIAL FIELD EFFECT TRANSISTORS" Supervisor(s): Prof. Samaresh Das, Centre for Applied Research in Electronics
154	Bishal Dey Sarkar (2016BSZ8040) Title: "MODELLING RISK ISSUES IN PORT LOGISTICS" Supervisor(s): Prof. Ravi Shankar and Prof. Arpan Kumar Kar, Department of Management Studies
155	Yassin Alkassar (2016ITZ8194) Title: "NUMERICAL AND EXPERIMENTAL INVESTIGATION OF GAS-SOLID FLOW THROUGH PIPELINES" Supervisor(s): Prof. V.K. Agarwal, Centre for Automotive Research & Tribology, Prof. R.K. Pandey, Department of Mechanical Engineering, IIT Delhi and Prof. Niranjana Behera, VIT University, Vellore
156	Rajeev Kumar (2013CHZ8448) Title: "EXPERIMENTAL AND THEORETICAL INVESTIGATIONS ON HEAVY OIL UPGRADING" Supervisor(s): Prof. Sreedevi Upadhyayula, Department of Chemical Engineering and Prof. Ravi Kumar Voolapalli, Bharat Petroleum R&D Centre, Greater Noida
157	Rajpal Singh Mann (2012BMZ8566) Title: "EFFECT OF HYPOBARIC HYPOXIA, FATIGUE AND BODY REFERENCE FRAME ON TACTILE PERCEPTION IN MILITARY ENVIRONMENT" Supervisor(s): Prof. Sneha Anand, Prof. Deepak Joshi, Centre for Biomedical Engineering and Prof. Jyoti Kumar, Department of Design
158	Kapil Sharma (2014CYZ8055) Title: "STEREOSELECTIVE TOTAL SYNTHESIS OF γ -BUTYROLACTONE NATURAL PRODUCTS AND (3R,4S)-ISOSTREPTENOL III" Supervisor(s): Prof. Shivajirao L. Gholap, Department of Chemistry
159	Anilkumar Lalchand Yadav (2015TTZ8473) Title: "POROUS SCAFFOLDS OF CROSSLINKED POLY(ϵ -CAPROLACTONE) via SINGLE-STEP HIGH INTERNAL PHASE EMULSION-RING OPENING POLYMERIZATION" Supervisor(s): Prof. Rajiv Srivastava and Prof. Bhanu Nandan, Department of Textile & Fibre Engineering
160	Avinash Raulo (2016TTZ8262) Title: "FIBROUS CATHODE MATERIALS FOR ADVANCED LITHIUM SULFUR BATTERIES" Supervisor(s): Prof. Bhanu Nandan, Department of Textile & Fibre Engineering

161	Pankaj (2015BMZ8237) Title: "SURFACE MODIFICATION FOR FASTER OSSEOINTEGRATION OF DENTAL IMPLANTS" Supervisor(s): Prof. Veena Koul, Centre for Biomedical Engineering and Prof. Naresh Bhatnagar, Department of Mechanical Engineering
162	Sayani Das (2014CYZ8063) Title: "STEREOSELECTIVE TOTAL SYNTHESSES OF CYCLOALKENONE NATURAL PRODUCTS AND CALLYSPONGIDIC ACIDS" Supervisor(s): Prof. Shivajirao L. Gholap, Department of Chemistry
163	Vikas Khatkar (2017TTZ8352) Title: "DESIGN AND DEVELOPMENT OF 3D WOVEN BASED STRUCTURAL COMPOSITE FOR AUTOMOTIVE LEAF SPRING" Supervisor(s): Prof. B.K. Behera, Department of Textile and Fibre Engineering
164	Mohit Somani (2016CEZ8138) Title: "LANDFILL MINING: CHARACTERIZATION OF SOIL-LIKE MATERIAL (SLM) RECLAIMED FROM OLD MSW DUMPSITES AND ITS SUITABILITY FOR GEOTECHNICAL RE-USE" Supervisor(s): Prof. Manoj Datta, Prof. G.V. Ramana, Department of Civil Engineering and Prof. T.R. Sreekrishanan, Department of Biochemical Engineering & Biotechnology
165	Tanu Bhardwaj (2015BMZ8238) Title: "APTAMER-BASED PDMS/GLASS MICROFLUIDIC CHIP BIOSENSING USING ELECTROCHEMICAL IMPEDIMETRY" Supervisor(s): Prof. Sandeep K. Jha, Centre for Biomedical Engineering
166	Rajesh Kumar (2013CEZ8434) Title: "SEISMIC FRAGILITY OF LONG-SPAN SPECIAL TRUSS MOMENT FRAMES WITH MULTI-PANEL DUCTILE SEGMENTS" Supervisor(s): Prof. Dipti Ranjan Sahoo and Prof. Ashok Gupta, Department of Civil Engineering
167	Vidhu S (2013BEZ8510) Title: "CHARACTERIZATION OF TORQUE AND ROTATIONAL BIAS OF BACTERIAL FLAGELLAR MOTOR" Supervisor(s): Prof. Ravi Krishnan E. and Prof. Sunil Nath, Department of Biochemical Engineering & Biotechnology
168	S Sai Saran Yagnamurthy (2014ESZ2643) Title: "ADSORBENTS AND STRATEGIES FOR HIGHER PERFORMANCE ADSORPTION CHILLERS" Supervisor(s): Prof. Dibakar Rakshit, Department of Energy Science & Engineering and Prof. Sanjeev Jain, Department of Mechanical Engineering

169	Vickey Nandal (2016MSZ8164) Title: "ALLOYING AND PRE-DEFORMATION EFFECTS ON THE AGING RESPONSE OF FCC BASED Co1.5CrFeNi1.5 HIGH ENTROPY ALLOYS WITH VARYING Ti AND Al CONTENTS" Supervisor(s): Prof. Suresh Neelakantan and Prof. Jayant Jain, Department of Materials Science & Engineering
170	Rajesh Kumar (2018MEZ8285) Title: "THEORY OF ROBOTIC GRASPING AND IN-HAND MANIPULATION" Supervisor(s): Prof. Sudipto Mukherjee, Department of Mechanical Engineering
171	Anurag Tripathi (2012EEZ8368) Title: "IMAGE ANNOTATION AND TAG PROPAGATION" Supervisor(s): Prof. Santanu Chaudhury and Prof. Brejesh Lall, Department of Electrical Engineering
172	Geetanjali Srivastava (2012EEZ8304) Title: "SOME STUDIES ON ANALYTIC SIGNAL MATCHED FILTER BANK WITH APPLICATIONS" Supervisor(s): Prof. Shiv Dutt Joshi, Department of Electrical Engineering
173	Bhanu Pratap Dhamaniya (2016ESZ8100) Title: "PEROVSKITE SOLAR CELLS: UNDERSTANDING THE DEGRADATION AND ENHANCEMENT IN THE OPTOELECTRONIC PROPERTIES OF MAPbI ₃ THIN FILMS" Supervisor(s): Prof. Sandeep K. Pathak, Department of Energy Science & Engineering
174	Darbamulla Sai Baba (2015TRZ8264) Title: "RAILWAY TRACK PEDESTRIAN SAFETY" Supervisor(s): Prof. Geetam Tiwari, Transportation Research & Injury Prevention Centre and Prof. Sudipto Mukherjee, Department of Mechanical Engineering
175	Snigdha Bhagat (2015EEZ2480) Title: "SOME STUDIES ON QUANTIFICATION AND FUSION OF DIFFERENTIAL INFORMATION" Supervisor(s): Prof. S.D. Joshi and Prof. Brejesh Lall, Department of Electrical Engineering
176	Shiv Priye (2016CEZ8148) Title: "AN INVESTIGATION INTO THE USAGE PATTERNS AND SAFETY PERCEPTIONS OF THE USERS OF ELECTRIC RICKSHAWS IN INDIAN CITIES: CASE STUDIES FROM PATNA AND NEW DELHI" Supervisor(s): Prof. Manoj M., Department of Civil Engineering

177	Amita Pathak (2014CYZ8214) Title: "DEVELOPMENT OF NOVEL ALGORITHMS FOR FUNCTIONAL ANNOTATION OF PROTEIN SEQUENCES" Supervisor(s): Prof. B. Jayaram and Prof. Narayanan Kurur, Department of Chemistry
178	Abhishek Grover (2018BSZ8121) Title: "CALIBRATING SENSOR NETWORKS FOR ENVIRONMENT SENSING APPLICATION: A SPECIFIC CASE STUDY ON CHEMICAL SENSING" Supervisor(s): Prof. Brejesh Lall, Department of Electrical Engineering
179	Rohit Ralli (2015CEZ8023) Title: "DYNAMIC BEHAVIOUR OF INSTRUMENTED SINGLE VERTICAL AND BATTER PILES AND PILE GROUPS UNDER VERTICAL AND COUPLED VIBRATIONS: FIELD MODEL TESTING AND THEORETICAL STUDY" Supervisor(s): Prof. Bappaditya Manna and Prof. Manoj Datta, Department of Civil Engineering
180	Sahil Malhotra (2015BMZ8343) Title: "NATURALLY DERIVED VESICLES FOR BIOMEDICAL APPLICATIONS" Supervisor(s): Prof. Neetu Singh and Prof. Veena Koul, Centre for Biomedical Engineering
181	Prashant Mittal (2016MSZ8163) Title: "IN SITU MICROSCOPIC TRIBOLOGY OF NEAR EUTECTIC Al-Si Alloy UNDER BOUNDARY LUBRICATED CONDITIONS" Supervisor(s): Prof. Nitya Nand, Department of Materials Science & Engineering
182	Prasun Halder (2016CEZ8152) Title: "LOAD TRANSFER MECHANISM OF CONNECTED AND DISCONNECTED PILED RAFTS IN SAND-MODEL TESTING AND ANALYSIS" Supervisor(s): Prof. Bappaditya Manna, Department of Civil Engineering
183	Nikhil Kumar (2014ITZ8187) Title: "EXPLORATION OF NANO-PARTICLES OF SOLID LUBRICANTS AS ADDITIVES IN GREASES" Supervisor(s): Prof. J. Bijwe, Centre for Automotive Research & Tribology
184	Kathiresan P (2013CHZ8442) Title: "STRAIN AND PROCESS DEVELOPMENT FOR RECOMBINANT PROTEINS IN ESCHERICHIA COLI" Supervisor(s): Prof. Anurag Rathore, Department of Chemical Engineering
185	Vini Gupta (2016EEZ8067) Title: "ENERGY-EFFICIENT SENSING STRATEGIES FOR WIRELESS SENSOR NETWORK- BASED IOT APPLICATIONS" Supervisor(s): Prof. Swades De, Department of Electrical Engineering

186	Swagato Sarkar (2014PHZ8351) Title: "DESIGN AND FABRICATION OF PERIODIC NANOPHOTONIC ARCHITECTURES: INTERFERENCE LITHOGRAPHIC APPROACHES TOWARD OPTO-PLASMONIC DEVICES" Supervisor(s): Prof. Joby Joseph, Department of Physics, IIT Delhi and Prof. Habil Tobias A.F. Konig, Leibniz Institute for Polymer Research, Dresden, Germany
187	Deepak Kumar (2017MAZ8297) Title: "EXISTENCE AND REGULARITY RESULTS FOR SOME ELLIPTIC AND PARABOLIC PROBLEMS INVOLVING NON-HOMOGENEOUS OPERATORS" Supervisor(s): Prof. K. Sreenadh, Department of Mathematics
188	Surita Basu (2014CHZ8288) Title: "STUDY OF MINIATURIZATION OF SURFACE PATTERNS AND SELF-ORGANIZATION OF CARBONACEOUS NANOPARTICLES ON SOFT THIN FILMS AND THEIR APPLICATIONS" Supervisor(s): Prof. Jayati Sarkar, Department of Chemical Engineering
189	Nooruddin Ansari (2017MSZ8124) Title: "THERMOMECHANICAL PROCESSING AND DEFORMATION BEHAVIOR OF BINARY Mg-Y ALLOYS WITH VARIED Y CONCENTRATION" Supervisor(s): Prof. Jayant Jain, Department of Materials Science & Engineering
190	Sucharita Sethy (2015PTZ8204) Title: "INTERRELATIONSHIP OF MORPHOLOGICAL, RHEOLOGICAL, THERMOMECHANICAL AND ELECTRICAL BEHAVIOURS IN POLYAMIDE 12/ POLYPROPYLENE-MWCNT NANOCOMPOSITES" Supervisor(s): Prof. B.K. Satapathy, Department of Materials Science & Engineering
191	Manasi Gupta (2013SMZ8502) Title: "MUTUAL FUNDS INDUSTRY IN INDIA: AN EMPIRICAL STUDY WITH FOCUS ON RETURNS, RISK AND PERFORMANCE MEASURES" Supervisor(s): Prof. P.K. Jain and Prof. Surendra S. Yadav, Department of Management Studies
192	Aditya Gupta (2015CYZ8047) Title: "MOLECULAR DYNAMICS STUDIES OF EFFECT OF EXTERNAL FACTORS ON THE STRUCTURE AND DYNAMICS OF BIO-IONIC LIQUIDS IN BULK AND INTERFACE" Supervisor(s): Prof. Hemant Kumar Kashyap, Department of Chemistry
193	Asmita Verma (2015HUZ8124) Title: "ESSAYS IN HEALTH ECONOMICS" Supervisor(s): Prof. Reetika Khara and Prof. Sourabh Bikas Paul, Department of Humanities & Social Sciences

194	Sartaj Tanweer (2015AMZ8348) Title: "EFFECTS OF WAKE CONFINEMENT AND BUOYANCY ON FLOW TRANSITIONS AND HEAT TRANSFER FOR A SQUARE CYLINDER" Supervisor(s): Prof. Anupam Dewan and Prof. Sanjeev Sanghi, Department of Applied Mechanics
195	Soniya (2015CYZ8321) Title: "ENGINEERING OF METAL-OXIDE SEMICONDUCTORS TO AMEND A ROBUST PHOTOANODE FOR PHOTOELECTROCHEMICAL WATER SPLITTING" Supervisor(s): Prof. Pravin P. Ingole, Department of Chemistry
196	Juhi Chaudhary (2016MAZ8189) Title: "MATCHING AND ITS VARIATIONS: AN ALGORITHMIC STUDY" Supervisor(s): Prof. B.S. Panda, Department of Mathematics
197	Shailendra Kumar Jain (2013CEZ8436) Title: "MODEL FOR OPTIMIZED IRRIGATION SCHEDULING FOR TRANSPIRING HYDROPHILIC VEGETATIVE COVERS ON MUNICIPAL SOLID WASTE LANDFILLS" Supervisor(s): Prof. Shashi Mathur, Department of Civil Engineering
198	Unsanhame Mawkhlieng (2016TTZ8474) Title "IMPROVING THE BALLISTIC IMPACT RESISTANCE OF SOFT BODY ARMOUR" Supervisor(s): Prof. Abhijit Majumdar, Department of Textile & Fibre Engineering
199	Sankuru Surya Prakash (2016CRZ8571) Title "STUDIES ON THE DESIGN OF SEQUENCES WITH GOOD CORRELATION PROPERTIES FOR APPLICATIONS IN ACTIVE SENSING AND COMMUNICATION SYSTEMS" Supervisor(s): Prof. Prabhu Babu, and Prof. Arun Kumar, Centre for Applied Research in Electronics
200	Sumit Sharma (2016TTZ8471) Title: "DROPLET BEHAVIOUR ON METASTABLE HYDROPHOBIC AND SUPERHYDROPHOBIC NONWOVEN MATERIALS" Supervisor(s): Prof. Amit Rawal, Department of Textile & Fibre Engineering
201	Amina Nafees (2013PHZ8268) Title: "INVESTIGATIONS ON BENT-CORE LIQUID CRYSTAL SYSTEMS" Supervisor(s): Prof. Aloka Sinha, Department of Physics
202	Smita Gupta (2014SMZ8231) Title "INTERNAL WHISTLEBLOWING IN ORGANISATIONS: DIRECT, INDIRECT AND INTERACTIONAL IMPACT OF INDIVIDUAL AND CONTEXTUAL FACTORS" Supervisor(s): Prof. Kanika T. Bhal, Department of Management Studies

203	Edo Begna Jiru (2015CHZ8292) Title "PLANNING AND SCHEDULING OF PROCESS OPERATIONS UNDER UNCERTAINTY" Supervisor (s): Prof. Munawar A. Shaik, Department of Chemical Engineering
204	Krishna Singh (2015ESZ8390) Title: "CARRIER-SELECTIVE CONTACT SILICON SOLAR CELLS: ROLE OF SILICON SURFACE MORPHOLOGY AND AGEING ON DEVICE PERFORMANCE" Supervisor(s): Prof. Vamsi K. Komarala, Department of Energy Science & Engineering
205	Vaibhav Kumar (2014CHZ8289) Title: "DECISION SUPPORT SYSTEM FOR IMPROVED SCHEDULING, MAINTENANCE, AND ASSESSMENT OF BIOPHARMACEUTICAL PROCESSES" Supervisor(s): Prof. Munawar A. Shaik, Department of Chemical Engineering
206	Balvinder Singh (2013CYZ8113) Title: "APPLICATIONS OF NMR SPECTROSCOPY TO EXCHANGING SYSTEMS, LONG LIVED STATES, AND SOLIDS" Supervisor(s): Prof. Narayanan D. Kurur, Department of Chemistry
207	Bodhibrata Mukhopadhyay (2015EEZ8308) Title: "RANGE-BASED COOPERATIVE AND NON-COOPERATIVE LOCALIZATION USING NON-LINEAR PROGRAMMING" Supervisor(s): Prof. Subrat Kar and Prof. Seshan Srirangarajan, Department of Electrical Engineering
208	Nandhini S. (2015BLZ8233) Title: "INVESTIGATING THE FUNCTIONAL ROLES OF G-QUADRUPLEXES IN THE MOLECULAR BIOLOGY OF LARGE ds-DNA VIRUSES" Supervisor(s): Prof. Vivekanandan Perumal, Kusuma School of Biological Sciences
209	Harprabhjot Singh (2017ITZ8002) Title: "DEVELOPMENT AND SEVERE PLASTIC DEFORMATION OF NOVEL HYBRID MG BASED METAL MATRIX COMPOSITES" Supervisor (s): Prof. Deepak Kumar, Centre for Automotive Research & Tribology
210	Ishaq Sayed Makkar (2013AMZ8592) Title: "STUDY OF FLOW CHARACTERISTICS ON HELODECK OF A SHIP MODEL WITH MODELLED ROTOR DOWNWASH" Supervisor(s): Prof. S.N. Singh, Prof. Sawan S. Sinha, Department of Applied Mechanics and Prof. R. Vijayakumar, Department of Ocean Engineering, IIT Madras

211	Sauhard Singh (2016ESZ8418) Title: "DURABILITY STUDIES ON HYDROGEN FUELLED SPARK IGNITION ENGINE" Supervisor(s): Prof. K.A. Subramanian, Department of Energy Science & Engineering, IIT Delhi and Prof. Reji Mathai, Indian Oil Corporation Ltd. R&D Centre, Faridabad
212	Siddharth Panwar (2014EEZ8246) Title: "MULTIVARIATE TIME-SERIES ANALYSIS TECHNIQUES FOR DISCOVERING COMPUTATIONAL BIOMARKERS FOR EPILEPSY IN EEG" Supervisor(s): Prof. S.D. Joshi, Department of Electrical Engineering, IIT Delhi, Prof. Puneet Agrawal, Max Speciality Hospital, New Delhi, and Prof. Anubha Gupta, IIIT Delhi
213	Rupsa Bhattacharjee (2016BMZ8112) Title: "QUANTITATIVE SUSCEPTIBILITY WEIGHTED IMAGING (SWI) IN GRADING OF INTRACRANIAL MASS LESIONS AND ASSESSMENT OF ACUTE ISCHEMIC STROKE PENUMBRA" Supervisor(s): Prof. Anup Singh, Centre for Biomedical Engineering
214	Manisha Arora (2013PHZ8194) Title: "TWO DIMENSIONAL PERIODIC MAGNETIC MODULATION: HOFSTADTER BUTTERIES AND CONDUCTANCES IN MONO AND BILAYER GRAPHENE" Supervisor(s): Prof. Sankalpa Ghosh, Department of Physics
215	Sharaf U Nisa (2016MEZ8267) Title: "SOME INVESTIGATIONS IN THE DEVELOPMENT OF ALUMINUM 6063 METAL FOAM THROUGH FRICTION STIR PROCESSING" Supervisor(s): Prof. Sunil Pandey and Prof. P.M. Pandey, Department of Mechanical Engineering
216	Pratibha (2016RDZ8034) Title: "DEVELOPMENT AND EVALUATION OF AGRO RESIDUE BASED BIODEGRADABLE POTS AND POTTING MEDIA FOR HORTICULTURAL APPLICATIONS" Supervisor(s): Prof. Hariprasad P., Centre for Rural Development & Technology and Prof. Sampa Saha, Department of Materials Science & Engineering
217	Rafeek T (2016BMZ8336) Title: "SEGMENTATION AND QUANTITATIVE EVALUATION OF TIBIO-FEMORAL CARTILAGE USING MR PARAMETERS" Supervisor(s): Prof. Anup Singh and Prof. Amit Mehdiratta, Centre for Biomedical Engineering

218	Chinmaya Mishra (2016MEZ8273) Title: "DESIGN AND DEVELOPMENT OF PREDICTIVE CONTROL MODELS FOR A MULTI-FUEL RCCI ENGINE USING EXPERIMENTAL PERFORMANCE DATA" Supervisor(s): Prof. P.M.V. Subbarao, Department of Mechanical Engineering
219	Abhay Kumar Chaturvedi (2013MAZ8546) Title: "LAYER RESOLVING NUMERICAL METHODS FOR SOME SINGULARLY PERTURBED CONVECTION-REACTION-DIFFUSION INTERFACE PROBLEMS" Supervisor(s): Prof. S. Chandra Sekhara Rao, Department of Mathematics
220	Sumedha Sharma (2016ESZ8098) Title: "OPTIMIZATION STRATEGIES FOR SMART ENERGY SYSTEMS UNDER UNCERTAINTIES" Supervisor(s): Prof. Ashu Verma, Department of Energy Science & Engineering and Prof. B.K. Panigrahi, Department of Electrical Engineering
221	Shivraman Mudaliyar (2015EEZ8102) Title: "COORDINATED CONTROL AND STABILITY ANALYSIS OF DC MICROGRIDS" Supervisor(s): Prof. Sukumar Mishra, Department of Electrical Engineering
222	Thameed Aijaz (2013CHZ8290) Title: "EFFECT OF PACKING ON PERFORMANCE OF TRICKLE BED REACTOR" Supervisor(s): Prof. Shantanu Roy and Prof. K.D.P. Nigam, Department of Chemical Engineering
223	Kanupriya Nayak (2017PTZ8056) Title: "MOLECULAR FUNCTIONALIZED ANTIFOULING POLYMERIC MEMBRANES WITH TUNABLE WETTING FOR OIL-WATER SEPARATION" Supervisor(s): Prof. B.P. Tripathi, Department of Materials Science & Engineering
224	Ifra (2015PTZ8200) Title: "STUDIES ON POLY(LACTIC ACID) AND POLYACRYLATE BASED ANISOTROPIC MICROPARTICLES MODIFIED WITH POLYMER BRUSHES" Supervisor(s): Prof. Sampa Saha, Department of Materials Science & Engineering
225	Smrutirekha Mishra (2015PTZ8203) Title: "RAFT AGENT PRIMED MESOPOROUS SILICA PARTICLES FOR SELECTIVE GRAFTING OF POLYMER CHAINS AND THEIR APPLICATIONS" Supervisor(s): Prof. Leena Nebhani, Department of Materials Science & Engineering

226	Sanjay Kumar (2017MAZ8311) Title: "INFLUENCE MAXIMIZATION IN COMPLEX NETWORKS" Supervisor(s): Prof. B.S. Panda, Department of Mathematics
227	Ekta Pandey (2015HUZ8126) Title: "ESSAYS IN HEALTH ECONOMICS" Supervisor(s): Prof. Sourabh B. Paul and Prof. Saptarshi Mukherjee, Department of Humanities & Social Sciences
228	Abhishek Dhar (2015EEZ8070) Title: "ADAPTIVE MODEL PREDICTIVE CONTROL FOR UNCERTAIN LTI SYSTEMS WITH STATE AND INPUT CONSTRAINTS" Supervisor(s): Prof. Shubhendu Bhasin, Department of Electrical Engineering
229	Vanjula Kataria (2014PHZ8352) Title: "MULTISPECTRAL HARVESTING BY RARE-EARTH BASED NANOPHOSPHORS FOR HIGH-EFFICIENCY TRANSPARENT LUMINESCENT SOLAR CONCENTRATOR" Supervisor(s): Prof. D.S. Mehta, Department of Physics
230	Sravan Kumar Gara (2013CEZ8081) Title: "GEOTECHNICAL CHARACTERISATION AND STABILITY ANALYSIS OF COAL MINE OVERBURDEN DUMPS IN INDIA" Supervisor(s): Prof. K.S. Rao, Department of Civil Engineering
231	Gaurav Musalgaonkar (2017EEZ8198) Title: "DESIGN AND ANALYSIS OF EMERGING NANOSCALE MOSFETS FROM LOW- POWER AND HIGH-SPEED PERSPECTIVE" Supervisor(s): Prof. M. Jagadesh Kumar, Department of Electrical Engineering
232	Rubi Rana (2016EEZ8060) Title: "COORDINATED STRATEGIES FOR ELECTRIC VEHICLES CHARGING INFRASTRUCTURE" Supervisor(s): Prof. Sukumar Mishra, Department of Electrical Engineering
233	Vibhuti Nougain (2017EEZ8159) Title: "CONTROL, OPERATION AND PROTECTION OF LOW VOLTAGE DC SYSTEMS" Supervisor(s): Prof. B.K. Panigrahi, Department of Electrical Engineering
234	Sanjeev Kumar Lohia (2007TRZ8355) Title: "EVALUATION AND MODIFICATION OF SERVICE LEVEL BENCHMARKS FOR SUSTAINABLE URBAN TRANSPORT IN INDIA" Supervisor(s): Prof. V. Upadhyay, Department of Humanities & Social Sciences and Prof. Geetam Tiwari, Transportation Research and Injury Prevention Centre

235	Divya Dhingra (2016CYZ8241) Title: "SPECTROSCOPIC INVESTIGATION TO REVEAL PHYSICOCHEMICAL PROPERTIES AND AGGREGATION BEHAVIOR OF DEEP EUTECTIC SOLVENT DERIVED SYSTEMS" Supervisor(s): Prof. Siddharth Pandey, Department of Chemistry
236	Jitesh Kumar Khatri (2013IDZ8151) Title: "AN EXPLORATORY STUDY ON SOFT COMPUTING ASSISTED PRODUCT DESIGN FOR INDIAN CHILDREN USING ANTHROPOMETRIC DATA" Supervisor(s): Prof. Jyoti Kumar, Centre for Sensors, Instrumentation & Cyber-physical Systems Engineering
237	Soumyadip Banerjee (2015EEZ8396) Title: "ANALYSIS OF OSCILLATORY BEHAVIOUR IN COUPLED DYNAMICAL SYSTEMS" Supervisor(s): Prof. S. Sen, Department of Electrical Engineering, IIT Delhi and Prof. K.K. Shah, EECS Department, IISER Bhopal, Bhopal
238	Abhishek Kumar Upadhyay (2013ASZ8014) Title: "MODELLING ANTHROPOGENIC PM2.5 OVER INDIA IN THE PRESENT AND FUTURE CLIMATE" Supervisor(s): Prof. Sagnik Dey and Prof. Parmila Goyal, Centre for Atmospheric Sciences
239	Preeti Chaudhary (2014CYZ8395) Title: "ELECTRO-CATALYTIC AND PHOTO-ELECTROCHEMICAL WATER SPLITTING BY GRAPHITIC CARBON NITRIDE-BASED NANO-HETEROSTRUCTURES" Supervisor(s): Prof. Pravin P. Ingole, Department of Chemistry
240	Shubhangini Rajput (2017SMZ8015) Title: "MODELLING INDUSTRY 4.0: SELECT ISSUES" Supervisor(s): Prof. S.P. Singh, Department of Management Studies
241	Gupta Ronak Purushottam (2012EEZ7528) Title: "NOVEL DEEP LEARNING BASED COMPRESSIVE SENSING FRAMEWORK FOR RECONSTRUCTION-FREE RECONGNITION" Supervisor(s): Prof. Santanu Choudhary, Prof. Brejesh Lall, Department of Electrical Engineering, IIT Delhi and Prof. Narendra Ahuja, Media Lab Asia
242	Mamta (2016PHZ8392) Title: "INVESTIGATION OF TRANSPORT AND MAGNETIC PROPERTIES OF YBCO NANOCOMPOSITES AND DEVICES" Supervisor(s): Prof. Neeraj Khare, Department of Physics

243	Dheeraj Kumar (2017PHZ8403) Title: "PEROVSKITE SODIUM NIOBATE (NaNbO_3) NANOSTRUCTURES BASED NANOCOMPOSITES FOR ENHANCED PHOTOELECTROCHEMICAL WATER SPLITTING APPLICATION" Supervisor(s): Prof. Neeraj Khare, Department of Physics
244	Jyoti Prakash (2015EEZ8082) Title: "DESIGN AND DEVELOPMENT OF SOFT-TRANSITION NETWORKS FOR CHARGE-PUMP BASED INTERLEAVED BOOST CONVERTERS" Supervisor(s): Prof. M. Veerachary, Department of Electrical Engineering
245	Vinay Kaushik (2015EEZ8117) Title: "SELF SUPERVISED SCENE DEPTH AND EGO-MOTION ESTIMATION FOR AUTONOMOUS NAVIGATION" Supervisor(s): Prof. Brejesh Lall, Department of Electrical Engineering
246	Swati (2015TTZ8274) Title: "GREEN COMPOSITES BASED ON RAMIE FABRICS AND POLYLACTIC ACID (PLA)" Supervisor(s): Prof. Bhupendra Singh Butola and Prof. Abhijit Majumdar, Department of Textile & Fibre Engineering
247	Himanshu Pant (2013EEZ8524) Title: "COMPLEXITY CONTROLLED NEURAL NETWORKS" Supervisor(s): Prof. Jayadeva, Department of Electrical Engineering
248	Devendra Kumar (2013MEZ8169) Title: "METHODOLOGY FOR PREDICTION OF PEDESTRIAN INJURIES UNDER DIFFERENT MOTORCYCLE-PEDESTRIAN IMPACT SCENARIOS" Supervisor(s): Prof. Anoop Chawla and Prof. Sudipto Mukherjee, Department of Mechanical Engineering
249	Pradeep Kumar Sharma (2015PHZ8379) Title: "SYNTHESIS AND CHARACTERIZATION OF CHALCOGENIDES BASED NANOMATERIALS FOR THERMOELECTRIC APPLICATIONS" Supervisor(s): Prof. Sujeet Chaudhary, Department of Physics and Prof. T.D. Senguttuvan, CSIR-NPL, New Delhi
250	Sonal Yadav (2015RDZ8454) Title: "DEVELOPMENT OF MICROBIAL FORMULATIONS FOR THE BIOREMEDIATION OF SOIL CONTAMINATED WITH EXPLOSIVES AND CHEMICAL PESTICIDES" Supervisor(s): Prof. Satyawati Sharma and Prof. Anushree Malik, Centre for Rural Development & Technology

251	Pranaynil Saikia (2017ESZ8214) Title: "INVESTIGATION OF THERMAL RETROFITTING OPTIONS FOR IMPROVING BUILDING ENERGY PERFORMANCE" Supervisor(s): Prof. Dibakar Rakshit, Department of Energy Science & Engineering
252	Arunava Banerjee (2016EEZ8072) Title: "DESIGN OF GUIDANCE LAWS BASED ON TIME-ENERGY EFFICIENT ROBUST CONTROL STRATEGIES" Supervisor(s): Prof. M. Nabi and Prof. Indra Narayan Kar, Department of Electrical Engineering
253	Ralekar Chetan Sudarshan (2015EEZ8081) Title: "DEVELOPMENT OF INTELLIGENT CHARACTER RECOGNITION MODEL INSPIRED BY COGNITIVE EXPERIMENTS" Supervisor(s): Prof. Tapan Kumar Gandhi and Prof. Santanu Chaudhry, Department of Electrical Engineering
254	Nikhil Kumar (2015EEZ8086) Title: "EVOLUTION OF QUADRATIC FOLLOWING BOOST TOPOLOGIES AND ROBUST CONTROLLER DESIGN: A PARAMETER SPACE APPROACH" Supervisor(s): Prof. M. Veerachary, Department of Electrical Engineering
255	Chauhan Vanvirsinh Jagatsinh (2018ITZ8373) Title: "EXPLORING VARIOUS FILLERS FOR THE DEVELOPMENT OF ECO-FRIENDLY BRAKE-PADS" Supervisor(s): Prof. Jayashree Bijwe, Centre for Automation Research & Tribology and Prof. A.K. Darpe, Department of Mechanical Engineering
256	Anand Madhukar (2017RDZ8576) Title: "SPATIO-TEMPORAL ANALYSIS OF CROP YIELD TRENDS AND CLIMATE VARIABILITY IN INDIA" Supervisor(s): Prof. Kavya Dashora and Prof. Vivek Kumar, Centre for Rural Development & Technology
257	Danish Contractor (2014ANZ8355) Title: "QA FOR TOURISM: ANSWERING RECOMMENDATION AND COMPARISON QUESTIONS" Supervisor(s): Prof. Mausam and Prof. Parag Singla, Department of Computer Science & Engineering
258	Arti Rawat (2014ESZ8088) Title: "DEVELOPMENT OF DIAGNOSTICS FOR CHARACTERIZING ELECTRON HEATING MECHANISMS IN LOW- PRESSURE RF DISCHARGES" Supervisor(s): Prof. Ramesh Narayanan and Prof. Ashish Ganguli, Department of Energy Science & Engineering

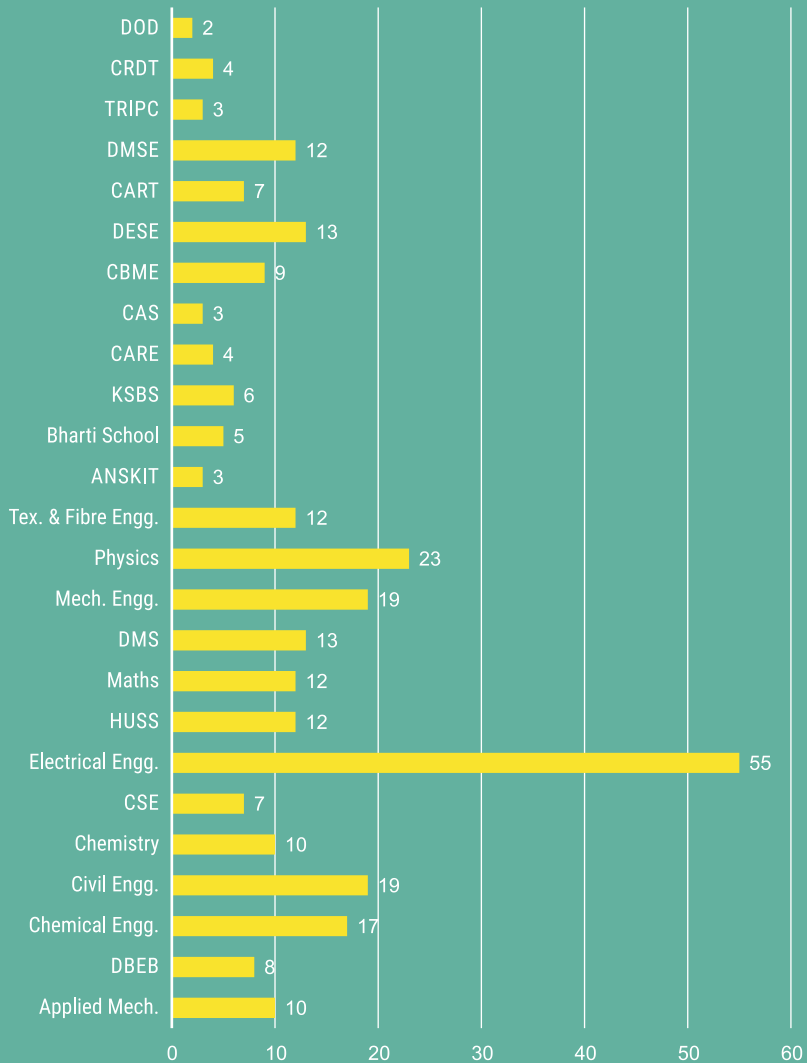
259	Shiwangi Singh (2017SMZ8454) Title: "ANTECEDENTS OF DIGITAL INNOVATION IMPLEMENTATION AND ITS IMPACT ON FIRM PERFORMANCE" Supervisor(s): Prof. Sanjay Dhir, Department of Management Studies
260	Nitin Gupta (2015EEZ8418) Title: "PLASMONIC DEVICES BASED ON NANOSTRUCTURES AND NANOANTENNAS" Supervisor(s): Prof. Anuj Dhawan, Department of Electrical Engineering
261	Ekta (2016PHZ8213) Title: "UNDERSTANDING DEFECTS IN ADVANCED ENERGY MATERIALS FROM FIRST-PRINCIPLES CALCULATIONS" Supervisor(s): Prof. Saswata Bhattacharya, Department of Physics
262	Sourabh Mishra (2014CHZ8286) Title: "RATIONAL DESIGN OF CATALYST SUPPORT AND PROMOTER IN METHANE DEHYDROAROMATIZATION REACTION" Supervisor(s): Prof. K.K. Pant and Prof. M. Ali Haider, Department of Chemical Engineering
263	Shruti Sharma (2014EEZ8079) Title: "GENERALIZED MODEL BASED FRAMEWORK AND APPLICATIONS" Supervisor(s): Prof. Santanu Chaudhry and Prof. Jayadeva, Department of Electrical Engineering
264	Ashish Dwivedi (2011PHZ8318) Title: "DESIGN AND EVALUATION OF STRUCTURED AND STRUCTURED-FREEFORM ELEMENTS FOR OPTICAL ENGINEERING" Supervisor(s): Prof. Anurag Sharma, Department of Physics and Gufran Sayeed Khan, Centre for Sensors, Instrumentation & Cyber- Physical Systems Engineering
265	Syed Muhammad AMRR (2016EEZ8073) Title: "ADVANCED ROBUST STRATEGIES FOR ATTITUDE CONTROL OF SPACECRAFT" Supervisor(s): Prof. M. Nabi, Department of Electrical Engineering
266	Dharmendra Lohar (2012CEZ8070) Title: "DESIGNING AND DEVELOPING A PROP FOR ABUTMENT DEFORMATION MEASUREMENT (PADM) DURING DEPILLARING PROCESS IN BORD AND PILLAR" Supervisor(s): Prof. K.G. Sharma, Prof. R. Ayothiraman, Department of Civil Engineering, IIT Delhi and Prof. Mani R. Saharan

267	M. Vetri Selvi (2012EEZ8130) Title: "A NOVEL ARCHITECTURE FOR ELECTRIC POWER LOAD FORECASTING IN A SMART GRID ENVIRONMENT" Supervisor(s): Prof. Sukumar Mishra, Department of Electrical Engineering
268	Hameedah Sultan (2015ANZ8222) Title: "ULTRA-FAST TEMPERATURE ESTIMATION METHODS FOR ARCHITECTURE-LEVEL THERMAL MODELING" Supervisor(s): Prof. Smruti R. Sarangi, Department of Computer Science & Engineering
269	Harsha Rohira (2014BLZ8193) Title: "CPP MEDIATED DRUG DELIVERY FOR OCULAR DISEASE MANAGEMENT" Supervisor(s): Prof. Archana Chugh, Kusuma School of Biological Sciences
270	Kanhu Charan Pradhan (2014HUZ8151) Title: "ESSAYS ON INTERNAL MIGRATION IN INDIA " Supervisor(s): Prof. Ankush Aggarwal, Department of Humanities & Social Sciences
271	Jyoti Singh (2015ASZ8372) Title: "ASSESSING THE IMPACT OF CLIMATE CHANGE ON CROP PRODUCTION IN THE INDIAN STATES OF HIMACHAL PRADESH AND UTTAR PRADESH" Supervisor(s): Prof. Saroj K. Mishra and Prof. Sandeep Sahany, Centre for Atmospheric Sciences
272	Parul Gupta (2016HUZ8535) Title: "PRIVATE TUTORING PARTICIPATION AND IMPLICATIONS IN INDIA: AN ECONOMIC ANALYSIS" Supervisor(s): Prof. Debasis Mondal and Prof. Ankush Agrawal, Department of Humanities & Social Sciences
273	Seema (2012HUZ8475) Title: "ASPECTS OF FEMALE LABOUR FORCE PARTICIPATION IN INDIA: WITH CASE STUDIES FROM HARYANA" Supervisor(s): Prof. Jayan Jose Thomas and Prof. V. Upadhyay, Department of Humanities & Social Sciences
274	Bramh Dev Sharma (2013SMZ8497) Title: "RESIDENTIAL PROPERTY VALUE ELEMENTS" Supervisor(s): Prof. Mahim Sagar, Department of Management Studies

275	Vinay Saini (2017ITZ8001) Title: "NANOPARTICLES OF SOLID LUBRICANTS FOR TRIBO-PERFORMANCE ENHANCEMENT OF OILS" Supervisor(s): Prof. Jayashree Bijwe, Centre for Automotive Research & Tribology, IIT Delhi, Dr. S.S.V. Ramakumar and Dr. Sarita Seth, Indian Oil Corporation Ltd. R&D, Faridabad
276	Indu Joshi (2016CSZ8121) Title: "ADVANCED DEEP LEARNING TECHNIQUES FOR FINGERPRINT PREPROCESSING" Supervisor(s): Prof. Sumantra Dutta Roy and. Prof. Prem Kalra, Department of Computer Science & Engineering
277	Utkarsh Sharma (2016EEZ8064) Title: "DESIGN AND DEVELOPMENT OF ENERGY EFFICIENT SINGLE PHASE INDUCTION MOTOR FOR FAN APPLICATIONS" Supervisor(s): Prof. Bhim Singh, Department of Electrical Engineering
278	Ekta Ajit Jain (2013CHZ8303) Title: "CHARACTERIZATION OF GAS-LIQUID FLOW THROUGH DISTRIBUTORS AND POROUS BEDS FOR CO-CURRENT DOWNFLOW PACKED BED REACTOR" Supervisor(s): Prof. Vivek V. Buwa, Department of Chemical Engineering, IIT Delhi and Dr. Madhusudan Sau, Indian Oil Corporation Limited R&D, Faridabad
279	Happy Mittal (2013CSZ8233) Title: "EFFECTIVE INFERENCE & LEARNING IN STATISTICAL RELATIONAL MODELS" Supervisor(s): Prof. Parag Singla, Department of Computer Science & Engineering
280	Kanhaiya Lal Mishra (2011MEZ8363) Title: "ISSUES IN DESIGN OF PROTECTIVE GEAR FOR BLAST APPLICATION" Supervisor(s): Prof. Anoop Chawla and Prof. Sudipto Mukherjee, Department of Mechanical Engineering
281	Deepak Kumar Prasad (2015BEZ8001) Title: "MONITORING AND ASSESSING THE RISKS OF EMERGING CONTAMINANTS IN THE RIVER GANGA-A COMPREHENSIVE STUDY" Supervisor(s): Prof. Shaikh Ziauddin Ahmmad, Department of Biochemical Engineering & Biotechnology

282	Rishabh Shukla (2015BEZ8351) Title: "EFFICIENCY COMPARISON OF CONVENTIONAL WASTEWATER TREATMENT SYSTEMS IN REMOVING EMERGING POLLUTANTS" Supervisor(s): Prof. Shaikh Ziauddin Ahmamad, Department of Biochemical Engineering & Biotechnology
283	Manish Raj (2016ITZ8319) Title: "THEORETICAL AND EXPERIMENTAL STUDIES ON SOUND ABSORBING PROPERTIES OF GREEN POROUS MATERIALS" Supervisor(s): Prof. N. Tandon and Prof. S. Fatima, Centre for Automotive Research & Tribology
284	Anshu Verma (2014ESZ8087) Title: "EXPERIMENTAL AND THEORETICAL STUDY ON COMPACT ECR PLASMA SOURCE FOR THRUSTER APPLICATION" Supervisor(s): Prof. Ashish Ganguli and Prof. Ramesh Narayanan, Department of Computer Science & Engineering
284	Shashank Bahri (2015CHZ8436) Title: "FISCHER-TROPSCH DIESEL FROM LOW RIBBLET RATIO SYNGAS CATALYZED BY nanoFe-Co DISPERSED HIERARCHICAL MFI ZEOLITE" Supervisor(s): Prof. Sreedevi Upadhyayula, Department of Chemical Engineering
286	Upma Singh (2015BEZ8004) Title: "ENGINEERING OF THE RHIZOSPHERIC BACTERIAL COMMUNITY STRUCTURE AND FUNCTION BY AGRI-MANAGEMENT PRACTICES-A METAORGANISM BASED APPROACH" Supervisor(s): Prof. Shilpi Sharma, Department of Biochemical Engineering & Biotechnology
287	Lalita (2013HUZ8140) Title: "TOLERATING HATE SPEECH" Supervisor(s): Prof. Arudra Burra, Department of Humanities & Social Sciences
288	Vinit Kumar Singh (2015ESZ8498) Title: "INTEGRATION AND CONTROL OF RENEWABLE ENERGY BASED RURAL MICROGRIDS" Supervisor(s): Prof. T.S. Bhatti and Prof. Ashu Verma, Department of Energy Science & Engineering

Distribution of Ph.D. Graduates in various Academic Units



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