

Thesis Submissions of D.Deg - Energy Science and Engineering

Submission Year	RollNo	Name	Project	Thesis Title
2013	08D04007	DASHPUTE PRATHAMESH PRAMOD		<u>Quantification of thermal stresses and deformation in solar thermal systems</u>
2013	08D11021	REDDY SUSHIL PAKALA		<u>Simulation of Heat Transfer in Open Cavities for Solar Thermal Applications</u>
2013	08D17003	RACHIT SHRIVASTAVA		<u>Forecasting and Analysis of Wind for Maharashtra</u>
2013	08D17004	Anurag Bhide		<u>Thermal Analysis of Cavity Receiver for Heliostat Field</u>
2013	08D17005	SATYAJIT DAS		<u>Thermal Performance of Buildings</u>
2013	08D17006	PRIYANKA NADIA DESOUZA		<u>Artificial Photosynthetic Systems: Viability of oxide semiconductors for water splitting</u>
2013	08D17007	APPU RSHIKESAN PADUTHOL		<u>Electro-thermal Modelling for Characterization of Delamination in PV Modules using Active Thermography</u>
2013	08D17008	AMIT DESAI		<u>Targeting Minimum Compression Work for Hydrogen Allocation Networks</u>
2013	08D17009	BHOYAR SANKESHA PRABHAKAR		<u>Alternate Transparent Conducting Oxides for Organic Solar Cells Applications</u>
2013	08D17010	SHERKAR TEJAS SACHIN		<u>Performance Analysis of Dual-Media Thermocline Tank</u>
2013	08D17011	SUYASH DUSAD		<u>Well to Wheels Analysis of PV-Electrolysis Hydrogen Production System</u>
2013	08D17012	VIRENDER SINGH KAINTH		<u>Modelling of Particles under Diffusion-Induced Stresses in Li-ion Batteries</u>
2013	08D17013	GAURAV GARSA		<u>Software Tool Development for Analyzing Linear Velocity Distribution of Particles near Wall in a Channel Flow</u>
2013	08D17014	LADDHA SAGAR RAMNIWAS		<u>Development of Power Performance Prediction Charts for Dual Fuel CI Engine</u>
2013	08D17015	AKASH CHANDRAYAN		<u>Cost Optimal Segregated Targeting for Resource Allocation Networks</u>
2013	08D17016	R K CHARITHARTH		<u>Ab initio studies of cation and anion doping in ZnS for transparent conductor applications</u>

2013	08D17017	SISIR YALAMANCHILI	Inverse Architecture Extremely Thin Absorber Solar Cells
2013	08D17018	PHANI PADMASRI POTUKUCHI	Stand Alone PV Hybrid Storage system Analysis
2013	08D17019	PIYUSH KANT	Monte Carlo Ray Tracing for Solar Applications using Unity Game Engine
2013	08D17020	MANJIT SINGH SAINI	Multi Agent based Energy Trading System
2014	08D17002	HRISHIKESH RAVICHANDRAN CHAPPA	Investigation of Parabolic Trough Collector (PTC) Performance
2014	09011018	DATE ANUP GIRISH	Nodal Integral Methods for Neutron Diffusion Equation in Cylindrical Coordinates
2014	09103007	MEHTA KETAV HIMANSHU	Analyzing Household Electricity Use and Its Inequalities
2014	09D11027	HARMAN PREET SINGH	Detection and Characterization of Delamination in PV Modules
2014	09D17001	SHAILENDRA SARAF	Fabrication of Plasmonic Solar Cell
2014	09D17002	ARORA HARPREET SINGH	THEORETICAL ANALYSIS OF ELECTRON TRANSPORT THROUGH QUANTUM HETEROSTRUCTURES FOR ENERGY EFFICIENT DEVICES
2014	09D17004	SHAH YASH VIJAY	Design of Supercritical Carbon Dioxide based Heliostat Receiver
2014	09D17005	SHAH TEJAS PRAVEENCHANDRA	Energy efficiency retrofit analysis for fertilizer industry.
2014	09D17006	AAKASH R JHAVERI	Optimal Cost Renewable Energy and Conservation Targeting
2014	09D17009	DESHPANDE ADVAIT ABHAY	Analysis of a Direct Steam Generating Solar Receiver
2014	09D17012	KARKARE ANUJ SRIKRISHNA	Simulation, Modelling and Viability Analysis of Green Buildings and Green Retrofits
2014	09D17013	DESHMUKH ANKITA PRAKASH	Study of particle dynamics in a gas-solid flow through a horizontal channel
2014	09D17014	PRITESH MITTAL	Design & Testing of Steam based Water Pump
2014	09D17015	Shrenik Bothra	Design and Prototype of Experimental Heliostat Unit
2014	09D17016	MAHIPAL SINGH JAKHAR	Fabrication of Membrane Electrode Assembly and study of Nafion content in Electrode
2014	09D17017	NEERAJ KULDEEP	Thermal Performance Analysis of PV Module
2014	09D17018	VISHNU CHANDAK	A Methodology for Energy Performance Analysis of Urban Building Clusters
2014	09D17019	ADWIT KASHYAP	A New Approach Toward Carbon-Constrained Energy Sector Planning: Case Study of Lakshadweep
2014	09D17020	PUNEET KUMAR	Design of a Photovoltaic Thermal system for a residential building

		BATRA		
2014	09D17021	SAURAV SWAROOP		<u>Binder Characterization in Li-ion Battery Electrodes</u>
2014	09D17022	PRITAM ROY		<u>Understanding Battery Performance in Solar System</u>
2014	09D26003	CHAUDHARI MANAS SATISH		<u>Energy Optimal Path Planning for Mobile Robots</u>
2015	101030010	NIYATI JHAMARIA		<u>Radiative and Convective Heat Loss Analysis from a Trapezoidal Cavity Receiver in LFR Systems</u>
2015	10D110008	ACHITHA JACOB		<u>Optimal Coal Allocation</u>
2015	10D170001	SMRUTI MIRANI		<u>Development and Testing of ICT-based self learning model for training of SoUL assembly</u>
2015	10D170003	PARTH BHATIA		<u>Security Constrained Unit Commitment with Volatile Wind Power and Demand</u>
2015	10D170004	DESAI RUSHIL DEVANG		<u>ANALYSING SALT PROPERTIES FOR SOLAR THERMAL STORAGE SYSTEMS</u>
2015	10D170005	SHYAM ATUL SHAH		<u>Experimental and theoretical analysis of Antimony Sulphide Sensitized solar cells</u>
2015	10D170006	PARDIKAR KUNAL SANJAY		<u>Non Linear Instability Analysis of Natural Circulation Systems</u>
2015	10D170007	PRANAV SHETTY		<u>Modelling the effects of morphology in Lithium Ion Battery electrodes</u>
2015	10D170008	YASH DILIP BHARGAVA		<u>Solar position: Prediction and measurement</u>
2015	10D170010	KOLHE TEJAS PRADIP		<u>UNCERTAINTY ANALYSIS IN DESIGNING SOLAR PHOTOVOLTAIC SYSTEMS</u>
2015	10D170011	YASH ASHISH TAMBAWALA		<u>Analysis of Demand Response in India</u>
2015	10D170013	PRIYANSHU DESHRAJU		<u>Modelling the Impact of energy efficiency on energy demand</u>
2015	10D170014	ABHIMANYU DHARIWAL		<u>Design and testing of solar food dryer with PCM</u>
2015	10D170015	RAVI GEHLOT		<u>Application of Duhamel's Theorem to Solve Multilayer Heat Conduction Problem</u>
2015	10D170017	SUMEET MEHARDA		<u>Characterization of degradation in Multi-Crystalline PV modules under Accelerated Environmental Conditions</u>
2015	10D170018	GURMAN SINGH		<u>Selection and Performance Test of Turbocharger for Natural Gas Fuelled SI Engine</u>
2015	10D170019	PRANAV MAHESHWARI		<u>Impact Analysis and Smart Load Management of Plug-in Electric Vehicles</u>
2015	10D170021	BARKHA BANSAL		<u>Analysis of Energy Efficiency of Traditional Cookstove from Mehsana, Gujarat</u>
2015	10D170022	SHASHANK PATIDAR		<u>THERMAL ANALYSIS OF LASER-IRRADIATED BIOLOGICAL TISSUE PHANTOMS USING LATTICE BOLTZMANN METHOD</u>

2015	10D170023	AYUSH MAHAJAN	Aggregation of Distributed Energy Resources (Virtual Power Plant)
2015	10D170026	SHIVA KUMAR NIDANAMPALLY	Solar thermal power plant Simulations with Thermocline Storage
2015	10D170027	HARSH RATDE	Design of a Photo Bioreactor
2015	10D170028	KOLLI UMAKRISHNA	Analysis of Organic Rankine Cycle based Concentrating Solar Power Plant with Parabolic Trough Collectors
2015	10D170029	VARUNKUMAR VASAVA	Dune formation in pneumatic conveying systems
2015	10D170030	TARUN MEENA	Framework to Design a Stand-Alone PV Power System
2015	10D170031	INDRAJEET SIRRA	DEVELOPMENT OF COMMERCIAL LOW TEMPERATURE POLYMER ELECTROLYTE MEMBRANE FUEL CELL
2016	09D17010	AADITTYA RAVISHANKAR	Simulation studies of pneumatic conveying in a horizontal channel
2016	10D170009	NAVIN CHANDRA VERMA	Development of commercial grade lithium ion battery.
2016	11D170001	SHAH VRAJ PRANAV	Evaluation of Levelised Unit Electricity Cost for Indian Advanced Heavy Water Reactor
2016	11D170002	CHAUDHARY PARTH BABUBHAI	Linear Stability Analysis of Thermoacoustic Phenomena in Rijke Tube
2016	11D170003	SUSHIL GARUD	Assessment of Coal Bed Methane Resources in India
2016	11D170004	LOKHANDE CHIRAYU SHRIDHAR	Electrification of road transport in Mumbai.
2016	11D170005	ANIRUDDH SHRIVASTAVA	Quaternary Telluride for Thermphotovoltaics
2016	11D170006	Pravinkumar Raut	Sizing and performance assessment of onboard hydrogen generation based fuel cell system using pinch analysis
2016	11D170007	SHAH NILAY MUKUND	Assessment of Waste-to-Energy Alternatives from Municipal Solid Waste for small towns in Maharashtra
2016	11D170008	SAHIL VAIDYA	Analysis of battery ageing through accelerated testing
2016	11D170009	KARN SUDHIR KEDAR	Comparison of Feedstocks to obtain an optimized mix for bioethanol expansion in India
2016	11D170010	Piyush Patil	Optimization of operation and control of air compressor network
2016	11D170011	NAWANDAR KALPESH MANIKLAL	Dynamic Energy Analysis of Renewable Power Systems
2016	11D170012	mayuresh patole	Analytic Hierarchy Process Based Multi Index Pinch Analysis
2016	11D170014	KUNAL KIRAN SHAH	Stochastic Optimization of Resource Allocation Network
2016	11D170015	IYENGAR PRANIT	Cadmium Sulphide for Overall Photo-Electrochemical Water Splitting

		SHRINIWAS		
2016	11D170016	ANJUL SACHAN		New Exploration Licensing Policy (NELP): Exploration Success Analysis
2016	11D170019	RAGHAV SARDA		Economic evaluation of energy storage in renewable based power plants and grid in India
2016	11D170021	Anshul Mehra		A Cut Cell Approach for Solving Nodal Integral Method in Irregular Domains
2016	11D170022	Abhishek Yadav		Replacing Platinum from Cathodes in Microbial Fuel Cells using Polyaniline (PANi) and Polypyrole (PPy) surface treatment
2016	11D170023	Ladi Dinesh Kumar		Modeling of Solid Oxide Fuel Cells
2016	11D170024	ANAND AGARWALLA		Formamidinium Perovskite solar cells
2016	11D170025	Arpit Agarwal		Economic analysis of V2G enabled PEV cabs
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2017	08D17001	MITESH KUMAR		Wind Loads on Heliostat
2017	10D170024	Kumar Saurabh		Efficient Battery from Sea Water
2017	11D170018	NISHANT KUMAR		Development of tracking Logic for Heliostat based on feedback by camera
2017	121030006	Pritam Sankar Roychaudhuri		Project Selection through Pinch Analysis
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2017	12D170021	GAUTAM KUMAR BHARTI	Development of Daylight Simulator
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2017	12D170026	CHINTAKINDI SHRAVAN KUMAR REDD	Modeling Degradation Mechanisms in Li-ion Battery
2017	12D170030	KAVADIKI MANASA	Improving Computational Efficiency of Eigenfunction Based Methods for Analytical Solution of heat Conduction Problem
2018	12D170017	Yogesh Kumar Gangwal	Effect of electrochemical treatment on kinetics of the carbon electrode for the vanadium redox flow batteries
2018	12D170027	Vinod Rahul	CO and H2 electrochemistry in reversible solid oxide cells
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2018	13D110005	Aishwarya Iyer	Energy Transitions Scenario: India (Power Sector)
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2018	13D170006	HARSHWARDHAN ALOK SINGH	Performance Analysis of Vanadium Redox Flow Batteries with and without Flow Channels via a Two Dimensional Model
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2018	13D170014	BAKARE SUKHADA SHARAD	Anaerobic Digester Modelling for Mixed Waste
2018	13D170015	Dikshant Chauhan	Modelling of solid transport in horizontal pipe
2018	13D170016	Rushil	Modeling and analysis of degradation in Li-ion Battery for the study of Charging and Discharging cycles
2018	13D170017	Manoj Kumar	Optimal Sizing and Siting of Capacitors, Distributed Generators, and Batteries in Distribution Networks
2018	13D170018	RAJENDRA KUMAR	Functionalized carbon catalysts for positive electrode of vanadium redox flow batteries
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2019	13D170029	RUPAVATH PRAVEEN NAIK	Electrochemical performance of Fenton's reagent treated graphite felt electrodes for all vanadium redox flow battery.
2019	14D170001	SHAH SHANTANU SHALIN	TRNSYS modelling of a multi-field solar thermal power plant with thermal storage
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2019	14D170007	MASURKAR OMKAR SHYAM	Assessing employment impacts of alternate energy scenarios
2019	14D170008	JENIL PARESH SHAH	A 3D model of a vanadium redox flow battery electrode
2019	14D170010	VARMA AKHIL ADITHYA	Thermal management systems in li-ion batteries

2019	14D170012	ONKAR BHALCHANDRA GADADE	<u>Multi-criteria decision analysis for energy systems</u>
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2019	14D170014	SONAWANE ATISH RAJENDRA	<u>A transient model for vanadium redox flow battery with species crossover</u>
2019	14D170016	Ankush Nagulwar	<u>Diffusion of Innovation: The Case of Twisted Tapes for the Improved Efficiency of Traditional Cookstoves</u>
2019	14D170018	SARTHAK MITTAL	<u>techno economic analysis of competing uses of agro waste</u>
2019	14D170020	SURAJ NAIK	<u>Comparative Techno-Economic Analysis for Wet Flue Gas Desulphurization in an Indian Thermal Power Plant using different coals</u>
2019	14D170022	ROHITH PRAKASH	<u>Development of a Smart Window for Daylight Harvesting</u>
2019	14D170023	KSHETRIMAYUM SHYAM SINGH	<u>Techno-Commercial Study of Off-Grid Solar Solutions with Super-Efficient Technologies</u>
2019	14D170024	VISHAL KUMAR MATHURI	<u>Optimal Sizing and Siting of Distributed Generators, Capacitors and Batteries in Distribution Network</u>
2019	14D170025	Raunak Shrivastava	<u>Capital budgeting decision making using financial pinch analysis</u>
2019	14D170026	ANNEBOINA JUHITH KUMAR	<u>Vanadium Redox Flow Battery(VRFB) System Development, Performance & Economic Analysis</u>
2019	14D170028	Akhil Sai Guntumadugu	<u>Model Predictive Control of Voltage Source Inverter-Fed Squirrel Cage Induction Motor Drive</u>
2019	14D170029	RAHUL N	<u>Optimal Placement And Sizing of Distributed Generation For Demand Reduction In Reconfigurable Islanded Microgrid</u>
2019	14D170030	Shivasubramanian Ramasundaram	<u>Real Time Simulation of Induction Machine on Field Programmable Gate Array.</u>

Send comments/suggestions to [ETD Administrator](#)