

Department of Electrical and Electronics Engineering National Institute of Technology, Tiruchirappalli



Sponsored projects : On-going

Project Title	Amount (Rs. Lakhs)	Funding Agency	Investigator(s)
Dynamic Loading of Conveyer Drive Heads in Mines	63.67	NLC, Neyveli	Dr. C.Nagamani Dr. G.Saravana Ilango Dr. S.Senthil Kumar
Electrical design and drawing for Indian Naval Academy (Phase-II works) Ezhimala, Kerala	2.64	IC & SR	Dr. G.Saravana Ilango Dr. C.Nagamani
Design, Development and Analysis of Bio-inspired Control strategies for stand-alone solar powered LED lighting systems	44.74	MHRD	Dr. K.Sundareswaran Dr. P.Srinivasarao Nayak
Study and Implementation of Different Power Saving Techniques for the Efficient Utilization of Air Conditioner by Using Renewable Power Resources.	63.98	MHRD	Dr. V.Sankaranarayanan
Maximum Power Extraction from Off – shore Wind-driven Generators through HVDC Transmission system	38.56	MHRD	Dr. P.Raja
Power Optimization Controller in Switched Mode Power Supplies Connected with Renewable Energy Sources	35.24	MHRD	Mrs. S.Mageshwari

(contd.)

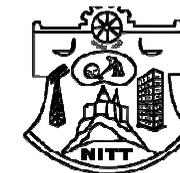
Department of Electrical and Electronics Engineering National Institute of Technology, Tiruchirappalli



Sponsored projects : On-going

Project Title	Amount (Rs. Lakhs)	Funding Agency	Investigator(s)
A Novel Hybrid System for Supplying Isolated Loads with FPGA Based Energy Managements Scheme	73.26	CWET, Chennai	Dr. N.Kumaresan, Dr. M.P.selvan Dr. S.Moorthi
A pilot Project on Economic Demand response management through online Monitoring.	24.39	SERB	Dr. Sishaj P Simon
Design and Optimization of feedback controller for boost type DC-DC converters using Artificial Immune System	8.4	CPRI	Dr. K.Sundareswaran Dr. Sishaj P Simon Dr. P.Srinivasarao Nayak
Total	354.88		

Department of Electrical and Electronics Engineering National Institute of Technology, Tiruchirappalli

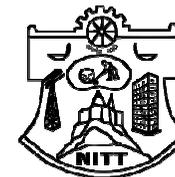


Sponsored projects : Completed

Project Title	Amount (Rs. Lakhs)	Funding Agency	Investigator(s)
Neural controller for integrated wind/solar system for battery charging.	05.00	MHRD	Dr. N.Ammasai Gounden Dr. S.Arul Daniel
Development of Neuro-Fuzzy controller for high performance voltage controlled induction motor drive.	08.00	MHRD	Dr. K.Sundareswaran
Application of Genetic Algorithm for High performance power Converters.	06.00	MHRD	Dr. K.Sundareswaran
Control of a hybrid wind-driven induction generator and PV array distributed generator for the isolated and grid-connected operations.	08.00	MHRD	Dr. S.Arul Daniel
Unified Power Flow Controller (UPFC) for enhanced utilization and control of the existing power transmission system.	10.00	MHRD	Dr. C.Nagamani
Power Quality Improvement using Unified Series Shunt Compensator (USSC).	13.8	DST	Dr. M.P.Selvan
Development of Power Electronics Laboratory.	34.00	NaMPET	Dr. C.Nagamani Dr. N.Ammasai Gounden Dr. N.Kumaresan Dr. G.Saravana Ilango Dr. S.Senthil Kumar
Development of a Micro-grid Test-Bed for Renewable Energy Management Systems	20.85	SERB	Dr. M.Jaya Bharata Reddy

46
(contd.)

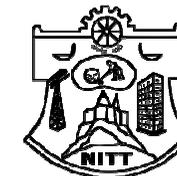
Department of Electrical and Electronics Engineering National Institute of Technology, Tiruchirappalli



Sponsored projects : Completed

Project Title	Amount (Rs. Lakhs)	Funding Agency	Investigator(s)
Career Award for Young Teachers	10.50	AICTE	Dr. N.Kumaresan
Design of PLL based Clock Generators for SoC applications	02.00	TEQIP– Joint Research	Dr. N.Ammasai Gounden Dr. S.Moorthi
Design and development of improved shunt active filter with enhanced signal processing with due consideration for distorted utility.	14.50	DST	Dr. G.Saravana Ilango
Development of Micro-Grid Controller integrated with multiple types of renewable sources and loads.	14.95	Power Grid	Dr. N.Kumaresan Dr. M.P.Selvan Dr. S.Moorthi Dr. N.Ammasai Gounden
To strengthen student facilities in the department (FIST)	21.00	DST	Dr. N.Ammasai Gounden Dr. S.Arul Daniel
Maximum Demand Control through Modern Algorithms	01.00	Southern Railway	Dr. Sishaj P Simon
Corporate Sustainable Development Project	36.75	BHEL	Dr. K.Sundareswaran

Department of Electrical and Electronics Engineering National Institute of Technology, Tiruchirappalli



Sponsored projects : Completed

Project Title	Amount (Rs. Lakhs)	Funding Agency	Investigator(s)
Electrification Work Design of Circuit Systems in New Godowns in Punalkulam, Thanjavur region	1.0	IC & SR	Dr. C.Nagamani Dr. G.Saravana Ilango
Design and development of Multi Input of 10 kVA online UPS (Solar + Grid + Battery)	10.65	BHEL	Dr. K.Sundareswaran Dr. Sishaj P Simon Dr. P.Srinivasarao Nayak Mr. V. Ratchamanniya Samuel Mr. Kevin Ark Kumar Mr. R. Muhammed Ehsan
Development of DC-DC converter and Bi-directional converter for SPV applications by NIT, Trichy.	19.64	NaMPET	Dr. C.Nagamani Dr. N.Kumasresan, Dr. G.Saravana Ilango Dr. S.Senthil Kumar
Total	237.64		