Patents by NITT Faculty

<u>SI.N</u> o	Faculty Name/Dept	Title of the patent	Patent Filing date	Patent sanctione d date	Patent No	Whether the patents have been utilized by the industry If so, the details thereof	Remarks/ Any other information
1.	Dr. D. Lenin Singaravelu, Assistant Professor, Production Engineering Department	Iron based cermet friction materials/composites/ brake elements with built-in backing plates	07/11/200 6	06/05/2014	260479	No	The patent should be renewed now.
2.	Dr. S. Anandan Dept. of Chemistry	An Improved Solid-State Polymer Composition, a Process for its Preparation and an Improved Dyesensitized Solar Cel	Applicatio n No.2728/C HE/2007	13/07/2015	266300		
3.	Dr. M. Duraiselvam, Production Engineering	Laser surface nitrided titanium alloy for light weight automobile disk brake rotor application	07.06.201 2	Under review	2285/CHE/201 2	No	
4.	Dr. Pannirselvam/Mechanic al	Auxiliary starter and controller assembly for compressor system	5/9/2006		240995	Not yet	Needs financial support to

							build a prototype and test.
5.	Dr.M.Premalatha/ Department of Energy and Environment	Surface Renewal Photobioreactor	5.4.2014	filed	1826/CHE/201 4	=	-
6.	Dr.S.Natarajan & Dr.S.P.Kumaresh babu (of NITT)and Mr.P. Veerabalu & Mr.M.Kumarasamy(of NLC,Neyveli).	High Longevity Coatings and Alternate Material for Erosion and Corrosion resistance in Mining Pumps.	14/10/201 4	<u>-</u>	5145/CHE/201 4		
7.	S. Muthukumaran/MME	Friction welding of tube to tube sheet or plate by adopting an external tool	07-03- 2006	26/03/2008	217446	_	
8.	S. Muthukumaran and S. K. Mukherjee / MME	An improved tool device adaptable to typical milling machine for carrying out friction stir welding procedure and a process thereof	21/01/201	23/02/2016	238121	_	
9.	S. Muthukumaran / MME	An improved friction forming process and a friction forming machine with a tool and fixture	27-08- 2010	16/02/2016	242420	_	
10	S. Muthukumaran / MME	Method of Joining Dissimilar Materials	09-09- 2010	In processing	2646/CHE/201 0	Yet to receive grant	
11	Dr. Sishaj P Simon, Asst. Professor/EEE	A System with Multiple transmission Loss Coefficient for Dynamic	10/07/201 4		3413/CHE/201 4	No	Name of applicant: NIT, Trichy

		Economic Generator Dispatch				
12	Dr. Sishaj P Simon, Asst. Professor/EEE	A Batteryless Solar Photovoltaic Power Generation System to Supply Electrical Power during all Seasons to the Utilities Throughout the Day	25/11/201 4	1231/KOL/201 4	No	Name of applicant: BHE L, Trichy
13	Dr. Sishaj P Simon, Asst. Professor/EEE	A system to determine a day-ahead loading pattern of heavy machineries in industries and proactive control of peak load overshoot	19/03/201 6	201631009629	No	Name of applicant: BHEL, Trichy
14	Dr. Sishaj P Simon, Asst. Professor/EEE	A method of differential relay for power transformer protection using DSP processor	05/04/201 6	201641012033	No	Name of applicant: NIT, Trichy
	Dr. Sishaj P Simon, Asst. Professor/EEE	A battery less solar photovoltaic power generation system to supply electrical power during all seasons to the utilities throughout the day.	25/11/201 4	1231/KOL/201 4	No	Name of applicant: BHEL, Trichy
16	Dr. Sishaj P Simon, Asst. Professor/EEE	A system to determine a day-ahead loading pattern of heavy machineries in	19/03/201 6	201631009629	No	Name of applicant: BHEL, Trichy

17	M.Jaya Bharata Reddy D.K.Mohanta / EEE	industries and proactive control of peak load overshoot A Novel System for detection and classification of power transmission line fault	27/03/200 8	16/05/2013	256209	Not yet	
18	M.Jaya Bharata Reddy D.K.Mohanta B M Karan / EEE	A Novel power monitoring system for detection, localization and classification of disturbances	27/03/200 8	31/12/2012	254882	Not yet	
19	N Kumeresan M Subbiah N Ammasai Gounden /EEE	A New Four-Stage Power Controller for Improved Energy Efficiency and Saving in Reactive Power for Three-Phase Induction Motors and Wind- Driven Grid- Connected Induction Generators	24.03.200 6	07.05.2009	234172	No	
20	Dr. B.Venkataramani & Dr. G. Lakshminarayanan ECE	Improved wave pipelined array multiplier	May 2002	May 15, 2008	Indian Patent No. 220117 Granted	-	
21	Dr. G. Lakshminarayanan &	Design of Global Asynchronous	Feb 2013	2013	Application	-	

	Dr. T. N. Prabhakaran ECE	Controller		No. 596/CHE/2013 Filed		
22	M. Gopiraman, R. Karvembu, (Chemistry,NITT) K. Watanabe, I.S. Kim, ,	Processed animal tissues in catalysis, animal tissues as catalyst support - Fabrication process and catalytic applications	Submitted on 18th Septembe r 2014	Japanese Patent, Application No. 2014- 190593.	-	
	B.Dastagiri Reddy M.P.Selvan Anish NK S.Moorthi / EEE	EMBEDDED CONTROLLER FOR N-LEVEL MULTILEVEL INVERTER USING FPGA	31/07/201	Application No. 3435/CHE/201 3	-	
24	B.Dastagiri Reddy M.P.Selvan S.Moorthi / EEE	S3 SINE WAVE INVERTER	9/5/2014	Application No. 2313/CHE/201 4	-	
25	B.Dastagiri Reddy M.P.Selvan S.Moorthi / EEE	S3 Grid-Tie inverter	9/5/2014	Application No. 2311/CHE/201 4	-	
26	N Kumeresan M P Selvan S Moorthi N Ammasai Gounden Subirsen Kashish Bhambhani / EEE	FPGA BASED MICRO-GRID CONTROL AND MONITORING SYSTEM	1/8/2014	Application No. 2181/DEL/201 4		Filed in the name of Power Grid Corporation of India Ltd.
27	K.Venkataraman S Moorthi / EEE	ANALOG SIGNAL ACQUISITION CARD	9/5/2014	Application No.	-	

	M P Selvan	(ASAC) FOR ADC CHANNEL ENHANCEMENT IN FPGA BOARDS TO SUIT FOR POWER ELECTRONIC APPLICATIONS		2314/CHE/201 4		
28	C.Mala / CSE	System for the Remote Control of electrical equipment		244528	=	
29	Moorthi Dhiwakar Irin Jose Anusha.R. Kowshick B Niranjan Kumar / EEE	Vehicle accident response system		4434/CHE/201 3	-	Published in IPR Journal.
30	S. Moorthi / EEE	intelligent Location identification and Passenger-Alert System Railways Using GPS Receiver		3945/CHE/201 2	-	Published in IPR Journal.
31	Ganasan Saravana Ilango P.Srinivasa Rao C.Nagamani B. Indurani / EEE	A PHOTOVOLTAIC SYSTEM AND A METHOD OF ARRANGING PV ARRAYS IN PV SYSTEM	17/07/201 3		-	
32	Dr.S. Manivannan/Physics	Yet to be finalized	Filing under process		Ξ	We are working on drafting the information for filing and is expected to be

						completed this
						year
33	Dr.S. Manivannan/Physics	Yet to be finalized	Filing under process		Ξ	We are working on drafting the information for filing and is
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