

Mr. TANMOY ROY CHOUDHURY

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ASSITANT PROFESSOR

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INTERESTED RESEARCH AREAS:

Applications of Power Electronics Converters

SCHOOL LEVEL RESPONSIBILITY:

FIC, Time Table;

FIC, Measurement Lab;

Hostel Superintendent;

Responsible for various Accreditation Process.

ACADAMIC DETAILS :

S.NO	DEGREE	INSTITUTION NAME	YEAR OF PASSING
01	PhD (Pursuing)	KIIT University, Bhubaneswar	
02	M. Tech	NIT Agartala	2012
03	BE	NIT Agartala	2009

EXPERIENCE:

1 INDUSTRIAL:

Worked as a Graduate Engineer Trainee in JK Tyre and Industries Ltd., Banmore Tyre Plant, Gwalior for One year.

2 TEACHING:

1. Serving as an Assistant Professor in the School of Electrical Engineering, KIIT University, Bhubaneswar since July 2012.

2. Served as a Teaching Assistant in NIT Agartala for Six Months

PUBLICATION:*Journal :*

- Byamakesh Nayak, **Tanmoy Roy Choudhury**, “Comparative Steady State Analysis of Boost and Cascaded Boost Converter with Inductive ESR Losses & Capacitor Current Behaviour,” IJPEDS Vol. 7, No. 1, March 2016, pp : 159 – 172.
- S. Debdas, S. Paikra, and **T. Roy Choudhury**, "Voltage Sag Detection through Wavelet Energy Coefficient," International Journal of Computer and Electrical Engineering vol. 5, no. 4, pp. 383-386, 2013.
- Byamakesh Nayak, **Tanmoy Roy Choudhury**, “Selection criteria of dc-dc converter based on load resistance powered by photovoltaic array,” International Journal on Advanced Electrical and Computer Engineering (IJAECE) Vol-3, Issue-1 ISSN (Online): 2349-9338, ISSN (Print): 2349-932X, pp: 27-32.
- Ananya Khan, R.Divya, **Tanmoy Roy Choudhury**, “Analysis of Quadratic Boost Converter,” International Journal on Advanced Electrical and Computer Engineering (IJAECE) Vol-3, Issue-1 ISSN (Online): 2349-9338, ISSN (Print): 2349-932X, pp: 107-110.

Conference :

- **T R Choudhury**, B K Nayak, “Comparison and Analysis of Cascaded and Quadratic Boost Converter,” 2015 IEEE Power, Communication and Information Technology Conference (PCITC) Siksha ‘O’ Anusandhan University, Bhubaneswar, India, DOI: 10.1109/PCITC.2015.7438108, Pages: 78 – 83.
- **T R Choudhury**, S Sinha, B K Nayak, “Comparative Analysis and Simulation of Different Topologies of Multilevel Inverter,” 2015 IEEE Power, Communication and Information Technology Conference (PCITC) Siksha ‘O’ Anusandhan University, Bhubaneswar, India, , DOI: 10.1109/PCITC.2015.7438119, Pages: 84 - 88.
- Smita Rani Patra, **Tanmoy Roy Choudhury**, Byamakesh Nayak, “Comparative Analysis of Boost and Buck-Boost Converter for Power Factor Correction Using Hysteresis Band Current Control,” IEEE ICPEICES 2016, (Paper presented).

M.Tech THESIS GUIDED:

YEAR : 2015-16	
S.NO	TITLE
01	“Analysis of DC-DC converters by Switching Flow Graph for Power Factor Correction,” Ms. Smita Rani Patra, Roll – 1452021 (M Tech PE&D)
02	“Analysis & Implementation of Bidirectional DC-DC converter using Hysteresis Band Control,” Mr. Prashant Bhushan Mishra, Roll – 1116017 (Dual M Tech)
03	“Analysis & Simulation of DC-DC Buck converter using different control techniques,” Mr. Aman Saraswat, Roll – 1116005 (Dual M Tech)
04	“Design and analysis of a low cost solar water pump for Irrigation,” Mr. Prasannajit Chhotaray, Roll – 1452016 (M Tech PE&D)
YEAR : 2014 -15	
05	“Comparative analysis of different topologies of Multilevel Inverters,” Mr. Souvik Sinha, Roll – 1352014 (M Tech PE&D)
YEAR : 2013-14	

06	“Vector control of Induction Motor drives,” Mr. Abhinandan Routray, Roll – 1252001 (M Tech PE&D)
07	“Design of a Static Kramer Drive for a Slip Ring Induction Motor,” Mr. Prasanta Kumar Jena, Roll – 1253017 (M Tech PE&D)

B.Tech PROJECTS GUIDED:

YEAR : 2015-16	
S.NO	TITLE
01	Comparison and analysis of DC-DC converters with their steady state and transient behaviour
YEAR : 2014-15	
02	Third harmonic injection Pulse width Modulation Voltage Source Inverter
03	Smart Automation System
YEAR : 2013-14	
04	Power Factor correction using Boost converter
05	Simulation of Induction Motor using SPWM inverter
YEAR : 2012-13	
06	Modeling and Simulation of Static Kramer Drive for a Slip Ring Induction Motor

CONFERENCE/WORKSHOPS ORGANIZED/ATTENDED:

S.NO	Title	Attended/organized	YEAR
01	Faculty Development Program on LabVIEW in Electrical Engineering and Smart Grid Technologies	Attended	2016
02	Intelligent Tools in Smart Grid: ITSG-2016	Attended	2016
03	IEEE Power, Communication and Information Technology Conference (PCITC)	Attended	2015
04	Regional Science Congress	Attended	2014
05	ICORE – 2013	Attended	2013

SUBJECTS TAUGHT:

S.NO	SUBJECT CODE	SUBJECT NAME
01	EE 3005	Power Electronics
02	EE 2005	DC Machines & Transformers
03	EE 2016	Electrical Measurements & Measuring Instruments
04	EE 1003	Basic Electrical Engineering
05	EE 4001	Electric Drives

