

Mr. Subhendu Bikash Santra

Mr. Subhendu Bikash Santra  
Assistant Professor (I)

Contact details :

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#### INTERESTED RESEARCH AREAS:

DC-DC Converter and Control, BLDCM Drive, DC Microgrid Control.

#### SCHOOL LEVEL RESPONSIBILITY:

Faculty Co-Coordinator Energy and Control Group.

#### ACADAMIC DETAILS :

| S.NO | DEGREE | INTITUTION NAME     | YEAR OF PASSING |
|------|--------|---------------------|-----------------|
| 1    | M.E.E  | Jadavpur University | 2012            |

#### EXPERIENCE:

**INDUSTRIAL:** June 2014 to June 2015

**Electrical Engineer (E & M Division)**

*Rail Vikas Nigam Limited (A PSU Under Ministry of Railways, Govt. of India)*

Nature of Work : Performed drawing checking for E & M division in Metro Railway Project, Designing Lightning Protection, Traction Bonding, Earth Mat Design, Platform lightning design.

BOQ management (project), Traction Bonding, PNI and NI work.

Utility Detection and Diversion, Fire protection (NFPA 72) , Earth Mat Design(IEEE 80:2000) by ETAP (FEM method).(IS3043)

Building Lighting Protection Design.(IEC:62305).

**RESEARCH:** worked as an institute research scholar in IIT KHARAGPUR from July 2013 To March 2014.

**TEACHING:**

August 2012 to April 2013

**Assistant Professor ( Electrical Engineering Dept.)**

Camellia Institute Of Technology, Madhyamgram, Kolkata, India.

July 2015 to Till date

**Assistant Professor ( School of Electrical Engineering)**

Kalinga Institute of Industrial Technology (KIIT University)

**PUBLICATION:**

|                                  | TITLE  |
|----------------------------------|--|
| <b>Journal Publication:</b>      | <p>1.“Fuzzy logic based loss minimization scheme for brushless DC motor drive system.” Tridibesh Nag ,<b>Subhendu B. Santra</b>, Arunava Chatterjee, Debashis Chatterjee and Ashoke K. Ganguli , <i>IET Power Electronics</i> <b>2015</b>, 26 pp DOI: 10.1049/iet-pel.2015.0714, Online ISSN 1755-4543.</p> <p>2.“Loss Minimization of BLDCM Drive by UPFC based Optimal Switched Inverter for Electric Vehicle.” <b>Subhendu B. Santra</b>. <i>IEEE Transaction in Industrial Electronics (Under Review)</i></p> <p>3.“An Isolated Soft Switched Boost DC-DC Converter with Low Voltage Stress and High Step-Up Ratio”, <b>Subhendu B. Santra</b>. <i>Journal of Power Electronics (Under Review)</i></p>   |
| <b>International Conference:</b> | <p>1.“Stability analysis and control of hybrid solar and wind system through NI C-RIO”, <b>Subhendu Bikash Santra</b> 2016 <i>IEEE Seventh India International Conference on Power Electronics (IICPE-2016) (Accepted)</i></p> <p>2.“Design of a Novel Non-Isolated Boost Converter for Renewable Energy System.” <b>Subhendu Bikash Santra</b> 2016 <i>IEEE Seventh India International Conference on Power Electronics (IICPE-2016) (Accepted)</i></p> <p>3.“A Novel Isolated Boost Converter fed BLDCM Drive for Electric Vehicle”, Aritra Ghosh, <b>Subhendu B. Santra</b>, Subhalakshmi Jena, and Abhijit Dasgupta. <i>IEEE International Conference ICCSP 2016, ISBN:978-1-5090-0395-2/16</i>.</p> <p>4.“Bi-Directional Converter with Modified MultiCarrier PWM Technique Controlled brushless DC motor drive for Compressor System.” Aritra Ghosh, <b>Subhendu B. Santra</b>, Pravat Biswal and Prasannjit Chhotaray. <i>IEEE International Conference ICCSP 2016, ISBN:978-1-5090-0395-2/16</i></p> <p>5.“Torque Ripple and Efficiency Optimization of a Novel Boost Converter fed BLDC Motor Drive”, Aritra Ghosh, <b>Subhendu B. Santra</b>, Manoj Kumar Maharana, Pravat Biswal. <i>IEEE ICCPEIC, APEC, Tamil Nadu, India, 2016 ISBN:978-1-5090-0901-5/16</i></p> <p>6.“Modified Multi-Carrier Based Pulse Width Modulation technique to obtain optimal switching and even power distribution for Multilevel inverter”, Aritra Ghosh, <b>Subhendu B. Santra</b>, Rohit Mishra, Pravat Biswal. <i>IEEE ICCPEIC, APEC, Tamil Nadu, India, 2016 ISBN:978-1-5090-0901-5/16</i></p> |

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|--|--|
|  | 7.“Reduced Current Ripple for Space Vector Pulse Width Modulation using Z source inverter”, Aritra Ghosh, <b>Subhendu B. Santra</b> , Pravat Biswal, Prasannajit Chhotaray. <i>IEEE ICCPEIC, APEC,Tamil Nadu, India,2016, ISBN:978-1-5090-0901-5/16.</i> |
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#### M.Tech THESIS GUIDED:

| YEAR : 2015 |   |
|-------------|---|
| S.NO        | TITLE   |
| 1           | Design and Implementation of Novel Isolated fully Soft Switched Resonant Boost Converter.             |
| 2           | Analysis and High Speed Detection of Different types of Faults in Transmission and Distribution Line. |

#### B.Tech PROJECTS GUIDED:

| YEAR : 2015 |  |
|-------------|--|
| S.NO        | TITLE  |
| 1.          | Cascaded Multilevel Inverter With Less Number of Switches and More Output Voltage Level. |
| 2.          | Design of Boost Converter in CCM.  |

#### CONFERENCE/WORKSHOPS ORGANIZED/ATTANDED:

| S.NO | Title  | Attended/organized                                 | YEAR |
|------|--|--|------|
| 1.   | Training on Selection of Circuit Breaker in MV Switchgear.               | L&T Training Centre.                               | 2014 |
| 2.   | Earth Mat Design for Elevated Metro Station.                             | RVNL   | 2014 |
| 3.   | National Conference on Restructuring in Indian Power Sector & Smart Grid | School of Electrical Engineering , KIIT University | 2016 |

#### SUBJECTS TAUGHT:

| S.NO | SUBJECT CODE | SUBJECT NAME                |
|------|--------------|-----------------------------|
| 1.   | PGEE-110     | Power Electronics and Drive |
| 2.   | EE-2002      | Machine-II                  |
| 3.   | EE-2003      | Network Analysis            |
| 4    | EE-3005      | Power Electronics           |