



### **Research project(s):**

Project title “Flywheel Energy storage system for Rooftop Photovoltaic System” was selected under Collaborative Research Scheme of ASTU under TEQIP –III program of MHRD funded by **World Bank** (Rs. 3 Lacs.) (2019-2020)

### **Project(s) Guided:**

- Literature review on distributed generation and improvement of voltage profile using distributed generation
- Improvement of power factor in households and industries
- Project report on techno economic assessment on smart city
- Flywheel energy storage system for roof top application.

### **PUBLICATIONS**

- Firdausa Ahmed, Dhritika Saikia, et. al., “*Self- bearing switched reluctance motor: A review*”, ICPEN IEEE Conference, NERIST, Dec. 2012.
  - Sivaramakrishnan Natesan, Gaurav Kumar, Dhritika Saikia, Karuna Kalita and Kari Tammi “*Experimental investigation of equalizing voltages in induction machine equipped with bridge configured winding*”, NSRD, Bangalore 2014
  - Dhritika Saikia, Pradyumna kumar Choudhury, “ *A case study on micro grid with flywheel energy storage system using Homer Software*” Journal of Energy Research and Environmental Technology (JERET), Volume 6, Issue , July –September 2019, pp 198-202
  - Garlabh Kakati, Dhritika Saikia, “A study on power-demand supply of Tezpur Area”, National Conference on Advances in Science Engineering and Technology (ASET) 2017
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## WORKSHOPS/TRAININGS

1. Five Day Faculty Development Programme on " PROSPECTS OF RENEWABLE ENERGY " organised by Assam Science and Technology University, Guwahati under TEQIP-III from 19<sup>th</sup> to 23<sup>rd</sup> November, 2019.
2. One Week Faculty Development Program on " Teaching Mathematics, Physics and Chemistry to Students of Engineering Colleges and Students Aspiring to be Engineers" under TEQIP-III from 26<sup>th</sup> -30<sup>th</sup> August, 2019.
3. Six Day Workshop on "Matlab Applications in Engineering " held at GIMT-Tezpur from 18<sup>th</sup> – 23<sup>rd</sup> February, 2019.
4. Five Day Faculty Development Programme on " IMPROVEMENT OF CLASSROOM TEACHING" organized by Assam Science and Technological University, Guwahati under TEQIP-III, 18<sup>th</sup> -22<sup>nd</sup> June,2018.
5. Workshop on " International Training Program on Leadership and Career Development for Women Scientist and Technologists" held at IIE Guwahati from 2<sup>nd</sup> – 6<sup>th</sup> September 2015.
6. Workshop on "Computational Information Processing " at NERIST from 22-25<sup>th</sup> February 2012.
7. Faculty Development Programme on, “Workshop on Engineering Optimization”, NERIST, 14<sup>th</sup> – 18<sup>th</sup> May, 2012.