

Department of Electrical Engineering, SOET

Funded Projects

Islamic University of Science and Technology (IUST)

A list of research projects supported by external funding agencies

Funded Projects

The following list includes the funded projects identified from the department records and the faculty profiles shared in this conversation. Where a project involves more than one faculty member, all available names are listed under the PI and Co-PI field.

1. **Establishment of Design Innovation Centre (DIC) at Islamic University of Science and Technology**

Funding Agency: MHRD (through DIC, Delhi University)

Grant In Aid: Rs. 1,00,00,000.00

Tenure: 60 months

Year: 20-04-2015

PI and Co-PI: Dr. Shahkar Ahmad Nahvi

2. **Model Order Reduction for Simulation Acceleration in Power Electronics**

Funding Agency: Central Power Research Institute

Grant In Aid: Rs. 7,02,000.00

Tenure: 24 months

Year: 12-02-2019

PI and Co-PI: Dr. Shahkar Ahmad Nahvi

3. **Analysis and Protection of Privacy through randomized response techniques using branch and bound algorithm**

Funding Agency: TEQIP-III, MHRD

Grant In Aid: Rs. 2,00,000.00

Tenure: 24 months

Year: 15-04-2019

PI and Co-PI: Mrs. Baziga Youssuf

4. **Development of weather station at IUST for assessing the utilization of renewable energy for space heating, cooling and other sustainable applications**

Funding Agency: TEQIP-III

Grant In Aid: Rs. 2,00,000.00

Tenure: 12 months

Year: 15-04-2019

PI and Co-PI: Dr. Ahmed Sharique Anees, Dr. Salman Ahmad

5. Design and analysis of quasi z-source based multilevel dc-link inverter for performance enhancement of photovoltaic system

Funding Agency: SEED GRANT TEQIP-III

Grant In Aid: Rs. 2,00,000.00

Tenure: 12 months

Year: 15-04-2019

PI and Co-PI: Dr. Salman Ahmad

6. Transition towards clean, affordable and reliable electricity from Renewable Energy-based Distributed Generation resources for Residential Building Electrification

Funding Agency: JKST&IC

Grant In Aid: Rs. 5,89,000.00

Tenure: 24 months

Year: 01-11-2021

PI and Co-PI: Dr. Rayes Ahmad Lone

7. Data gathering analysis and protection of privacy through randomised response algorithm

Funding Agency: JKST&IC

Grant In Aid: Rs. 6,30,000.00

Tenure: 28 months

Year: 30-11-2021

PI and Co-PI: Dr. Zahoor Ahmad Ganie

8. Design and Analysis of a Bag value mask based frugal ventilator

Funding Agency: JKST&IC

Grant In Aid: Rs. 7,70,000.00

Tenure: 28 months

Year: 30-11-2021

PI and Co-PI: Dr. Shahkar Ahmad Nahvi

9. Development of green technology based hybrid space heating system for Kashmir valley

Funding Agency: JKST&IC

Grant In Aid: Rs. 4,99,000.00

Tenure: 28 months

Year: 30-11-2021

PI and Co-PI: Dr. Ahmed Sharique Anees, Dr. Salman Ahmad, Dr. Rayes Ahmad Lone

10. Design and implementation of reduced switch count multi level inverter for unified power flow controller solar intermittency and power quality

Funding Agency: JKST&IC

Grant In Aid: Rs. 2,74,000.00

Tenure: 28 months

Year: 30-11-2021

PI and Co-PI: Dr. Ahmed Sharique Anees, Dr. Salman Ahmad, Dr. Javeed Bashir

11. Deep Learning based discoveries of reduced order models in Science and Engineering

Funding Agency: SERB-DST NPDF

Grant In Aid: Rs. 20,25,600.00

Tenure: 24 months

Year: 16-11-2022

PI and Co-PI: Dr. Shahkar Ahmad Nahvi

12. Impact Of PM Ujjwala Yojana on Empowering Households: A Comprehensive Analysis and Evaluation with Special Reference To Jammu & Kashmir

Funding Agency: ICSSR

Grant In Aid: Rs. 13,00,000.00

Tenure: 6 months

Year: 11-09-2023

PI and Co-PI: Dr. Zahoor Ahmad Ganie

13. Development of a low-cost haptic feedback enabled robotic interface for teaching STEM concept

Funding Agency: JKST&IC

Grant In Aid: Rs. 7,00,000.00

Tenure: 24 months

Year: 29-01-2024

PI and Co-PI: Dr. Shahkar Ahmad Nahvi

14. Generalized Mathematical Models for Decision making problems using fuzzy algorithm

Funding Agency: JKST&IC

Grant In Aid: Rs. 6,40,000.00

Tenure: 24 months

Year: 29-01-2024

PI and Co-PI: Dr. Zahoor Ahmad Ganie

15. Design and Development of Apple sorter and Grader based on color and size

Funding Agency: JKST&IC

Grant In Aid: Rs. 5,00,000.00

Tenure: 24 months

Year: 29-01-2024

PI and Co-PI: Mrs. Baziga Youssuf, Dr. Javeed Bashir, Dr. Mubashar Yaqoob Zargar

16. Development and Validation of an IoT-Enabled Smart IV Infusion System for Patient Safety in Resource-Constrained Hospital

Funding Agency: JKST&IC

Grant In Aid: Rs. 10,00,000.00

Tenure: 24 months

Year: 02-12-2025

PI and Co-PI: Dr. Farhana Fayaz, Mrs. Sami Jan Lolu