

# University of Jaffna

## Conference Visit

Eleven faculties and nine Ph.D. scholars from Coimbatore Institute of Technology have attended and presented eleven research papers at the International Conference on Advanced Materials for Clean Energy and Health Applications (AMCEHA 2019) at University of Jaffna, Srilanka during February 6-8, 2019.





## **Mobility Programme**

**Name: M.R. Venkatraman, Research Scholar, Department of Physics, Coimbatore Institute of Technology, Coimbatore.**

**Visit Duration: January 26, 2018 to February 05, 2018 (10 days)**

**Overseas guide in Jaffna: Prof. P. Ravirajan, Professor, Department of Physics, University of Jaffna, Sri Lanka.**

During 10 days research stay at Department of Physics, Jaffna University under **Higher Education and Research collaboration on Nanomaterials for Clean Energy Technologies project (HRNCET)**. DSSC were fabricated using TiO<sub>2</sub> nano particles, Ag decorated TiO<sub>2</sub> nano particles (by photo reduction method) and Cu decorated TiO<sub>2</sub> nanoparticles as photo anodes. Also, TiO<sub>2</sub> compact layers prepared by compact spray method were used in DSSC as a recombination reduction layer and its performance in DSSC based on TiCl<sub>4</sub> treated TiO<sub>2</sub>, SnO<sub>2</sub> active layers were analyzed (TiO<sub>2</sub> Compact layers were prepared in Department of Physics, UOJ, Sri Lanka and the DSSCs were fabricated in CIT, Coimbatore). Few undergraduate students were trained on fabrication and characterization of Dye Sensitized Solar cells.

### **Presentation details:**

**Topic: Enhanced performance of Dye Sensitized Solar Cells using Metal Oxide based nanomaterials**

**Date: 01.02.2018**

**Venue: Mini Auditorium, University of Jaffna, Jaffna, Srilanka**



**Name: Dr. Y. Akila, Department of Physics, Coimbatore Institute of Technology, Coimbatore.**

**Visit Duration: Two weeks in August 2018**

**Dr. Y Akila was invited to pursue a short term research work at Research Laboratory (CERL) of the Department of Physics to carry out the short term research on dye-sensitized solar cells fabrication and training for the students in the same.**

