



ACS COLLEGE OF ENGINEERING

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DEPARTMENT OF MECHANICAL ENGINEERING

Organized

ONE DAY INDUSTRIAL VISIT

On

1ST September 2017

To

Mahatma Gandhi Institute of Rural Energy Development



About MGIRED

Mahatma Gandhi Institute of Rural Energy and Development (MGIRED) located in Bengaluru was established in the year 2000 with assistance of Ministry of New and Renewable Energy (MNRE), Government of India and the Rural Development & Panchayat Raj Dept., Government of Karnataka. The main objective was to have a unique Institution to carry out Capacity Building and Awareness Programmes in the areas of Rural Energy and Sustainable Rural Development which will cater to the needs of Karnataka and neighboring southern states namely Andhra Pradesh, Telangana, Tamil Nadu, Kerala and Union Territory Pondicherry.

Objectives of Visiting the MGIRED

- Develop and implement state-of-the art programmes in partnership with state and national stakeholders through best practices for Renewable Energy, Energy Conservation, Environment and related subjects.
- Reform training and extension systems which will enhance human resource quality. Preparing individuals who will have passion for professional excellence and proactively engaged in betterment of society.
- Create an environment for making teaching more learner centric rather than academic.
- Improve knowledge management system to act as an efficient Technology Backup Unit for RDPR for providing information on Renewable Energy, Environment, Sustainable Development, Natural Resources Conservation and Allied Sectors.
- Promote a centre of learning that will fully support the rapid development of the Rural Energy, Energy Conservation, Natural Resource Conservation, Sustainable Development, Environment sectors.
- To ultimately upgrade to a degree awarding institution providing alternative/vocational degree programmes for persons willing to enhance career opportunities.
- Establish a database on Rural Energy demand and supply for different micro-regions of the state and sub-regions.
- Establish demonstration centers for various technologies appropriate for rural areas.
- Carry out Research and Development on Renewable Energy Applications and Energy Conservation Opportunities in Rural Environment, Forestry, Rural Entrepreneurship, Waste Recycling, etc.
- Perform functions, incidental or ancillary in line to the above subjects.
- Carryout evaluation of RDPR programmes and gives feedback to help improve the effectiveness of the programmes.

The Department of Mechanical Engineering, ACS College of Engineering organized a one day Industrial Visit to “Mahatma Gandhi Institute of Rural Energy Development” Bangalore on 5th September 2015 for Second year students.

The visit was organized with the prior permission and guidance of beloved HOD Dr. M. Eswaramoorthy and Prof. Sunilraj B.A. A total 45 students along with 2 faculty members have joined the visit.

The details of the visit are as follows

1. We started from our college premises sharply at 09:00 am on 06th October 2015
2. Reached MGIRED by 10.30 am

We are welcomed by the Dr. Shoba Anand Reddy, Additional Director and Head of Department (Environment). The faculty by name Ravi K, Deputy Director (Small wind and Hydro) given a complete introduction about the MGIRED and explains about the importance of small hydro plant and small wind plant. He explained his own experience of installing the power plant in the Western ghat regions. He showed the complete set up of small hydro plant and small wind mill inside the institute and explains about the decentralized power generating system. And the end of the session at 11.45 a.m. MGIRED provided small refreshment for the complete team.

The next session was started at 12 p.m to 1.15 p.m, which was taken over by Shanthi G, Additional Director (Solar). Where she completely explained about the importance of solar energy especially in Karnataka. What are all the government schemes which provide subsidy for the generating the power. She completely concentrated and motivated to become Entrepreneurship in the power generation area.

The Lunch Break from 1.15 p.m. to 2 p.m.

The afternoon session from 2 p.m. to 4 p.m. is completely visiting about the plant. The officials taken us to visit the models and explained about the models theoretically and practically the shows the working of each models. Where the faculty member motivated the students to carry out the project work on solar energy, wind energy etc.

The final session i.e from 4 p.m. to 5.00 p.m. was taken over by the Manjunath E.C and Assistant Director, who came across explained about the importance of Bio fuel. He also explained about the today's market demand for the bio fuels. His lectures motivated the students to undertake project work on Bio diesel. He took the team members to the Bio diesel plant in the MGIRED. By showing set up, He explained about the extraction of Bio diesel from the raw materials. He also explained about adding the additives to the Bio diesel.

At last the session was ended by taking a group photo of students with faculty members of MGIRED. Finally the vote of thanks was given by the Dr .M. Eswaramoorthy to the MGIRED for educating the students about the Solar, Wind, and Biodiesel energy field.

After visiting MGIRED we started to our college by 6.00 pm

It was a good experience, which has provided exposure to the final year students with the Knowledge of Non Conventional Energy Resources. The students are benefited in terms of the technical details provided by the institute. The students also enjoyed learning new things. Students were well mannered and disciplined throughout the visit and no injury or anything bad happened during the industrial tour. All the Staff members and Students are extremely thankful to the Honorable Chairman, Vice Chairman, Executive Director, Special officer, Principal, Head of the department, , who grant the permission for visiting the Industry and supporting us in all ways.

Student's Feedback

Industrial visit to Mahatma Gandhi Institute of Rural Energy and Development (MGIRED), Bangalore was organized by Department of Mechanical Engineering, ACSCE for Final Year Students. The guiding staff onsite was very Supportive to all students and guided us to their best. They also explained the things relating to our subjects. We are sure that this visit will help us to contribute to the society in the field of Non Conventional Energy Sources. We, the Students of final year Mechanical Engineering are extremely thankful to our HOD, Staff coordinators and all staff & student for providing a full-fledged support in all aspects during the entire visit.