



SRI KRISHNADEVARAYA EDUCATIONAL TRUST
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
(Affiliated to VTU-Belagavi, Recognized by AICTE and Accredited by NAAC)
Krishnadevarayanagar, Off International Airport Road, Hunasamaranahalli, Bengaluru – 562 157



Report on

“SKILL DEVELOPMENT PROGRAM ON RENEWABLE ENERGY SOURCES”

Objectives

The primary objective of this program is to enhance engineering students' understanding of renewable energy sources and foster practical skills in designing, implementing, and maintaining renewable energy systems.

Benefits in terms of learning/skill/learning obtained:

The benefits gained by the participants are Goal Setting, Self-belief, Adaptability, Work Ethic, Networking and Relationships, Risk-taking, Passion, Persistence and Mindset.

Resource person details:

Dr. Ravi Kumar H. Head, Dept. of Civil Engineering, Dr. Hariharan, Head Dept. Of Physics.

- 1. Academic Year: 2023-24**
- 2. Program Driven by: Self Driven Activity**
- 3. Quarter: III**
- 4. Program /Activity Name: Workshop and Presentation**

5. **Program theme:** Entrepreneurship & Startup, Skill Enhancement

6. **Duration of the event (in minutes):** 1080 minutes /18 Hours

7. **Start date:**13-05-2024

8. **End date:** 15-05-2024

9. **Number of Student participants:**65

10.**Number of faculty participants:**10

11.**Number of External participants:** Nil

12.**Expenditure of amount (if any):** Rs.7,500

13. **Mode of Delivery (Online/Offline):** Offline

Summary of the event: The session started with welcome address by Mrs. Ramya N. Assistant Professor Department of Civil Engineering.

She Introduced & Welcomed Dr. Ravi Kumar H. Head, Dept. of Civil Engineering, Dr. Hariharan, Head Dept. Of Physics, and also welcomed all faculty member's department of Civil Engineering and other departments.

Around 65 students of 1st year Computer Science Department were present to showcase their talents through different models and posters related to renewable energy sources.

Program Components:

Solar Energy: Photovoltaic (PV) technology fundamentals Solar panel design and installation Maintenance and troubleshooting of solar energy systems Practical exercises using solar simulation tools

Wind Energy: Understanding wind energy principles Wind turbine technology and design Hands-on experience with wind turbine models Wind farm layout and optimization

Hydroelectric Energy: Hydroelectric power generation principles Design and construction of small-scale hydroelectric systems Environmental considerations and impact assessments Site visit to a local hydroelectric power plant

Geothermal Energy: Geothermal heat extraction and power generation geothermal resource assessment techniques Geothermal power plant design Case studies of successful geothermal projects

Biomass Energy: Biomass conversion technologies (biofuels, biogas, etc.)
Designing biomass energy systems Biomass feedstock assessment and selection
Sustainability considerations in biomass energy production

Skill development activities for renewable energy sources are essential. These activities aim to provide individuals with the knowledge and skills required to design, install, operate, and maintain renewable energy systems.

This program is designed to teach students about the technologies used in renewable energy systems, their advantages and disadvantages, and how to install, operate, and maintain them.

Generating renewable energy creates far lower emissions than burning fossil fuels. Transitioning from fossil fuels, which currently account for the lion's share of emissions, to renewable energy is key to addressing the climate crisis. Renewable energy is a term used to refer to forms of energy that are naturally obtained from the environment and from sources that can be replenished naturally. These include solar energy, wind energy, geothermal energy, hydropower, and biomass.

HOD's and Faculties were appreciated all the efforts from students and suggested valuable inputs.

Later Dr. Ravi Kumar H. Head, Dept. of civil engineering, Dr. Hariharan, Head Dept. of Physics, given a talk on RES project-based learning and students expressed their willingness to continue this type of activities in future and making use of Renewable energy sources for innovative projects

Outcome of the project

Overall, skill development activities for renewable energy sources are critical in promoting the growth of the renewable energy industry and ensuring that there is a sufficient supply of skilled professionals to meet the industry's demand

This Program objective is to help the student with an opportunity to explore their skills by presenting models by utilizing renewable sources. PO addressed: PO9, PO10

Finally, program is ended by delivering a vote of thanks by Ms. Ramya N. Assistant Professor department of civil engineering.

Link for any one of the following.

Link to Poster in Facebook:

Link to Poster in LinkedIn:









SRI KRISHNADEVARAYA EDUCATIONAL TRUST
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
(Affiliated to VTU-Belagavi, Recognized by AICTE and Accredited by NAAC)
Krishnadevarayanagar, Off International Airport Road, Hunasamaranahalli,
Bengaluru - 562 157



Department of Electronics and Communication Engineering

Organizes

**“From Idea to Success: My Entrepreneurial Journey –
A Motivational Talk”**



- ❑ **Date:** 27th September, 2023
- ❑ **Time:** 11:00AM
- ❑ **Venue:** Marconi Seminar Hall

Speaker

Dr. Sreenivasa Setty
Founder & Chief Technical Officer
SST Technologies, Bengaluru

Mentor

Dr. V. G. Supriya
Professor & Head
Department of ECE

IIC Chair

Prof. Rakesh S. G.
Principal
Sir MVIT

President - IIC

Dr. Vanipriya Ch.
Professor & Head
Department of MCA

Vice-President - IIC

Dr. Sasmita Mohapatra
Professor
Department of ECE

Convener - IIC

Dr. Soumya Patil
Assoc. Professor
Department of CSE

Co-ordinators

Ms. Krishnapriya S Sharma
Associate Professor

Ms. Praveena N.
Assistant Professor

Dr. Poongothai C.
Assistant Professor