



The Berar General Education Society's
SHRI R.L.T. COLLEGE OF SCIENCE, AKOLA

Re-accredited 'A' Grade by NAAC, Bangalore with CGPA 3.12

**Department of Physics
in Collaboration IQAC**

Organises
E- Certificate Course on
'Renewable Energy-The
Demand of Future!!!'

by Department of Physics
From 25th to 30th May 2020

Dr. R. M. Agrawal
Convener

Mr. S. R. Jaiswal
Organising Secretary

Dr. V. D. Nanoty
Principal

Shri R. L. T. College of Science, Akola

..... ***Stay Home Stay Safe.***

**Detail Schedule of E-Certificate Course on
“Renewable Energy-The Demand of Future”
25th to 30 May 2020**

Day-1:

INAUGURATION

Section-1: Introduction to Renewable energy

Video-1: Introductory lecture of “renewable energy and its source”

Video-2: Overview on “Renewable energy for benefit of the planet”.

Video-3: Concept about Energy unit.

Video-4: Difference between Renewable and Non renewable energy.

Section-2: Biomass Part-1

Video-1: Overview on Biomass Energy

Video-2: Demonstration on:

“Product of Biogas Using Food and Vegetable Waste”

by Mr. Sandeep Toshniwal,

Researcher, Department of Microbiology,

Shri R. L. T. College of Science, Akola

MCQs

Reading Materials: PDFs

Day-2:

Section-1: Biomass Part-2

Video-1: Conservation of Biomass Energy: Dr. Poonam Agrawal

Video-2: Types of Biomass Energy: Dr. Anjali Sangole.

Video-3: Bio fuels

Section-2: Geothermal Power

Video-1: Overview of Geothermal Energy

Video-2: Geothermal Power Plant

Video-3: Observation of Geothermal in Kullu, Himachal Pradesh

MCQs

Reading Materials: PDFs

Day-3:

Section-1: Solar Energy

Video-1: Renewable energy: How does solar energy works?

Video-2: How does Solar cell work? (Photovoltaic)

Video-3: Solar Thermal System.

Video-4: Solar Energy and Solar Car by Dr. R, M, Agrawal

Video-5: Top 11 Solar Energy Business Ideas

Video-6: 7 Solar panel business opportunities and Idea for India (Beginners Guide)

Section-2: Hydroelectricity

Video-1: Overview of Hydropower

Video-2: Working System of Hydroelectric Power Plant

MCQs

Reading Materials: PDFs

Day-4:

Section-1:

Video-1: Introduction to E- Vehicle by Mr. Shailesh Jaiswal

Video-2: Hydrogen as a potential fuel by Mr. Shailesh Jaiswal

Section-2: Tidal energy or Wave Power

Video-1: Overview on Tidal power.

Video-2: Ocean Power plant generates energy from wave.

Video-3: Ocean energy wave power Station.

MCQs

Reading Materials: PDFs

Day-5:

Section-1: Wind Power

Video-1: Overview on Wind Energy

Video-2: Wind Power

Video-3: How do wind turbines work?

Section-2: Conservation of Energy

Video-1: Energy Conservation by Dr. Ashish Sarap

Video-2: Waste to Energy by Dr. Rashmi Joshi Sawalkar

MCQs

Reading Materials: PDFs

Day-6:

Video-1: India's Renewable Energy Journey

Video-2: Schemes & Programmes of Government of India – New and Renewable Energy.

Reading Materials: PDFs.

- **Quiz (Final Online Grading Exam)**
- **Declaration of Result**
- **Certificate Distribution (within 24 hr)**

Mr. S. R. Jaiswal

Course Coordinator

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