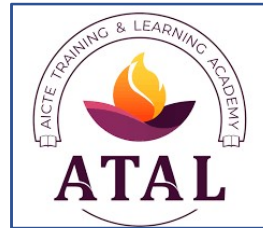




AICTE –Teaching And Learning (ATAL) Academy

The main objectives of the ATAL Academy are:

- To plan and help in imparting quality technical education in the country.
- To support technical institutions in fostering research, innovation and entrepreneurship through training in various emerging areas.
- To stress upon empowering technical teachers & technicians using Information & Communication Technology.
- To utilize SWAYAM platform and other resource for the delivery of trainings.
- To provide a variety of opportunities for training and exchange of experiences such as workshops, orientations, learning communities, peer mentoring and other faculty development programmes.
- To support policy makers for incorporating training as per requirements.



Coordinator

Dr. Ulhas G. Sawaiker

Professor & Head, Mining Engineering Dept.
Goa College of Engineering,
Farmagudi, Ponda, Goa 403401
Tel.0832-2336481 Fax: 0832-2336482
Mobile: 9422456117
E-mail: ugs@gec.ac.in



AICTE Sponsored **ONLINE** Faculty Development Programme on

**Carbon Footprint
Reduction: Issues and
Challenges**
8th to 12th Nov. 2021

Organised by

MINING ENGINEERING
DEPARTMENT
GOA COLLEGE OF ENGINEERING
'Bhauasaheb Bhandodkar Technical
Education Complex'
Farmagudi, Ponda, Goa-403401

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Shri. Sairaj Naik

Shri. Shanai Kerkar

Ms. Namita Naik



Scope of the FDP

Human activities are one of the main causes of global warming. Burning of fossil fuels, land clearance, productions of goods & materials, buildings design, transportation and other services leads to greenhouse gas emissions. However, there are several ways to reduce carbon footprint, choosing more energy efficient design, using more energy efficient household appliances, usage of fuel efficient cars, use of renewable energy resources etc. This FDP will cover practical and theoretical knowledge that is used to understand the mechanisms and applications of energy saving design and technology.

The main topics to be covered are:

- Issues and Challenges in reducing Carbon Footprint.
- Green building Design & Materials.
- Reduction of Carbon Footprint in Mineral Industry.
- Economics & Performance of Electric Vehicles.
- Solar Roof Top System as Clean Energy
- Green Computing.
- Carbon Footprints in Atmosphere and Ocean.
- Roof-top & Rain water harvesting.
- Wastewater Recycling.
- Green Policy and Auditing.
- Stress Management at Work Place.

Registration: No Registration Fees.

Sessions will be conducted in Online Mode using Google platform. Number of seats limited to 200. Registration has to be done at ATAL Online Portal:

<https://www.aicte-india.org/atal>

FDP Resource Persons

The FDP will feature guest lectures by eminent faculty members from reputed institutes and experts from the industry.

Who can apply?

Faculty members of the AICTE approved institutions, research scholars, PG scholars, Officials from Government Departments, Industry, Research Institute and staff of host Institute.

About Goa College of Engineering

Founded in 1967, and situated at Farmagudi plateau in Ponda, the Goa College of Engineering is approved by the AICTE and affiliated to Goa University. The College offers seven undergraduate programs which include Civil, Mechanical, Electrical & Electronics, Electronics & Telecommunication, Computer, Information Technology and Mining Engineering. College also offers postgraduate programs, and is recognized as a Ph.D. research centre under Goa University.

The College is fully funded by the State Government of Goa. The vision of the College is to achieve excellence in academics, research, industry collaboration, and to nurture human values in students.

About Mining Engineering Department

The Mining Engineering Department was started in the year 2011 as one of the unique PPP Models under State Government supported by M/s. Sesa Goa Limited. Department is well equipped with Mining Engineering related Laboratories and other resources. Department is having few seats under Sponsored Category for local students from this academic year 2021-22.



AICTE (ATAL) Sponsored Faculty Development Program (online) on "Carbon Footprint Reduction: Issues and Challenges"

(Duration: 08/11/2021 to 12/11/2021)

Organised by

Department of Mining Engineering
Goa College of Engineering, Farmagudi, Ponda Goa



PROGRAM SCHEDULE

Date	Time Slot				
	9:15 am to 11:15 am	11:15 to 11:30	11:30 am to 13:30 pm	13:30 to 14:30	14:30 pm to 16:30 pm
Day - 1 08/11/2021	Inauguration (9.15-9.45am) Session – 1 Green Policy and Auditing Dr. Shalini Dhyani NEERI, Nagpur	Break	Session – 2 Green Policy and Auditing Dr. Shalini Dhyani NEERI, Nagpur	Break	Session – 3 Carbon Footprints in Atmosphere and Ocean Dr. Arvind Kumar Saran NIO, Goa
Day - 2 09/11/2021	Industry Session – 4 Residential and Commercial Solar Applications Shri. Anish Souza Sun 360 Solar Systems, Goa		Industry Session – 5 Residential and Commercial Solar Applications Shri. Anish Souza Sun 360 Solar Systems, Goa		Session – 6 Wastewater Recycling Dr. Srikanth Mutnuri BITS, Goa
Day - 3 10/11/2021	Session – 7 Issues and Challenges in Reducing Carbon Footprint Dr. Anil Dixit IIT Bombay		Industry Session – 8 Electric Vehicles Dr. Sanjeev Nayak Valeo India Ltd. Chennai		Session – 9 Green Computing Dr. Nilesh B. Fal Dessai GEC Farmagudi
Day - 4 11/11/2021	Session – 10 Green Building Design and Materials Dr. Asokan Pappu CSIR-AMPRI, Bhopal		Session – 11 Stress Management Dr. Krupashankara M. S. RVCE, Bangalore		Session – 12 Solar Water Pumping Dr. Anant J. Naik GEC Farmagudi
Day - 5 12/11/2021	Session – 13 Rain Water Harvesting Dr. Ulhas G. Sawaiker GEC Farmagudi		Industry Session – 14 Decarbonisation Strategy for Mineral Industry Shri. D. N. Prasad Ex-Advisor to Ministry of Mines, GOI, Delhi		Test, Feedback and Valediction