

ONE MONTH

Internship cum Summer School Programme

11th June 24 – 10th July 2024



Organised by

School of Energy Science and Engineering

Indian Institute of Technology Guwahati

Guwahati 781 039, Assam

ABOUT IIT GUWAHATI

IIT Guwahati campus is spread over a sprawling 285 hectares plot of land on the north bank of the river Brahmaputra about 25 km from the heart of the city. Guwahati is the gateway to the beautiful northeastern region of the country and linked with all major Indian cities by rail, road and air. Guwahati has a moderate climate with temperature varying between 7°C to 37°C. Summer season spreads from May to August with the possibility of rain. The average temperature in the month of November varies from 22 to 25°C. Buses, taxis and auto-rickshaws are available from Guwahati to the IITG.

BACKGROUND

This program is designed to provide exposure to the current global and national thrust areas of research, training of various skills required to analyze experimental data, exposure to analytical instruments, and various laboratory facilities to undergraduate engineering students especially from north eastern region of India. The duration of the course is one month. A total of 20 hours theory classes and 50 hours laboratory engagement is planned throughout the internship period. Primarily the lectures will cover on the broad topic of data analysis, energy efficiency, present trends of sustainable research, biofuel, IC Engines, climate change and mitigation. Students will be doing various lab experiments in IC engine, Biochemical and thermochemical conversions, fuel cells, performance analysis of solar device, energy management, energy auditing, property evaluation of biofuels and exposure to analytical instruments.

REGISTRATION FEE

For Residential Candidate: Rs.10000/-

For Non-Residential Candidate: Rs.4000/-

The candidate has to pay the entire registration fee through online in the below mentioned account. The registration fee includes registration kit, purchase of consumables for experiments, honorarium of experts etc.

Bank Account no: 120023790161

Name: INTERNSHIP CUM SUMMER SCHOOL PROGRAMME

Bank name and Branch: Canara Bank, Indian Institute of Technology Guwahati

IFSC: CNRB0008652

BOARDING & LODGING

Hostel accommodation will be provided to the participants. However, the participants have to arrange for their bedding and meals. These will be available at hostel premises on payment basis.

IMPORTANT DATES

The last date for the receipt of duly endorsed applications: **May 30, 2024 (Extended)**

Intimation of Selection: **June 03, 2024 (Extended)**

COURSE COORDINATORS

Dr. Pankaj Kalita, Associate Professor

Prof. V. V. Goud, Professor

School of Energy Science and Engineering

Indian Institute of Technology Guwahati

Guwahati – 781039, Assam

Phones: 0361 258 3129/ 3126 (Chamber)

0361 258 3150 (SESE, Office)

COURSE CONTENTS

The following major topics will be covered in the program:

- ☀ Solar thermal energy conversion
- ☀ Energy efficiency
- ☀ Biofuel
- ☀ Experimental methods
- ☀ Lab Safety
- ☀ Research Methodology
- ☀ Statistical Analysis
- ☀ Energy conservation and efficiency
- ☀ Analytical instruments operation

In the first two weeks two lecture per day will be held followed by laboratory experiments in the subsequent weeks.

ELIGIBILITY

A limited number of participants (UG, 2nd and 3rd Year BE/BTech) from AICTE recognized institutions will be eligible for attending the internship cum summer school program for a duration of one month.

A maximum of 50 candidates will be accommodated in the programme. The shortlisting of the candidate will be done on the **first cum first serve** basis.

For registration, interested candidates must fill the online form through the link/QR given below:

<https://forms.gle/8qSRSEFsQsn8ED3c7>



Internship cum Summer School Program

11th June 2024 – 10th July 2024

Application Form

Name (Block Letter):

Designation:

Educational Qualification:

Areas of Interest:

Date of Birth:

Sex: (Male/Female)

Postal Address for Correspondence:

Email:

Phone:

Fax:

Accommodation Required: (Yes / No)

Kindly register me for the Internship cum summer school program to be held at IIT Guwahati during 11th June 2024 to 10th July 2024. Proof of payment of registration fee is enclosed herewith.

Date:

Place: **Signature of the Applicant**

RESOURCE PERSONS

The lectures will be delivered by eminent experts and faculties from multiple disciplines of engineering and science notably Mechanical Engineering, Chemical Engineering, Physics, Electrical and Electronics Engineering of IIT Guwahati with strong background in the relevant areas.

ENDORSEMENT

Mr./Ms./Mrs.....
..... is a bonafide student of our institute and his/her application is hereby forwarded for attending internship cum summer school program at IIT Guwahati from 11th June 2024 to 10th July 2024.

Date:

Signature of Principal/Head/Training
and Placement officer

Designation:

Official Seal:
.....

Application should reach to:

Dr. Pankaj Kalita

Associate Professor

School of Energy Science and Engineering

Indian Institute of Technology Guwahati

Guwahati – 781039, Assam