Endorsement of the Head of the Institution/Department

Sri/Smt/Dr_____of _____Department of _____Organization/ Institute is Permitted to attend the STC in "**Electrodynamics for Engineers"** at IIT Bhubaneswar. This is to certify that this institute is recognized by AICTE.

Date: _____

Signature of The Head of the Institution/Dept. (With seal)

Note:

1. This application form should reach to the course coordinator latest by **20/04/2020.**
2. Applicants must deposit a refundable demand draft of Rs 1000.00 in favor of **CEP, IIT Bhubaneswar** (Which will only be returned on joining the course).

Objectives of the Course

Fundamental knowledge of Electrodynamics is essential for engineers and scientists working in the field of electronics, telecommunication, photonics, and material science. The course aims to introduce concepts of electromagnetism followed by several topics on electromagnetic waves and radiations along with laboratory demonstration of the core concepts. In general, the following areas will be covered:

- Electrostatics and magnetostatics
- Maxwell's equations
- Electromagnetic waves in different media
- EM waves in wave guides
- Fields and radiation due to a moving charge
- Antennas and antenna arrays
- Interaction of electromagnetic radiation with matter

Course Contents

The following aspects of Electrodynamics will be Covered in detail:

- Introduction to electrostatics and magnetostatics
- Maxwell's equations for time varying fields
- Propagation of electromagnetic waves in conducting and non-conducting medium;
- Wave guides and resonant cavity
- Radiation and radiating systems
- Fields and radiation from an accelerated charge
- Dispersion theory
- Interaction of electromagnetic radiation with matter
- Scattering and diffraction

AICTE SPONSORED

SHORT TERM COURSE

ELECTRODYNAMICS FOR ENGINEERS

Coordinators

Dr Abhishek Chowdhury
Dr Avijit Kumar

11/05/2020 TO 15/05/2020

ORGANIZERS

School of Basic Sciences
IIT Bhubaneswar

Office of the
CONTINUING EDUCATION
INDIAN INSTITUTE OF TECHNOLOGY BHUBANESWAR
Argul, Khordha - 752050
Odisha.

General Information

Indian Institute of Technology Bhubaneswar, is organizing a short-term course on **"Electrodynamics for Engineers"**. Limited seats are available, availability of seats and merit will be taken into consideration while selecting candidates. The candidate will be informed of his/her selection in advance.

Important Dates

- **Last date** for receiving the filled-up application form along with sponsorship certificate: **20/04/2020.**
- The selected candidates will be informed through email latest by: **24/04/2020.**
- **Course date: 11/05/2020 TO 15/05/2020**

Venue for Course

Course will be held at School of Basic Sciences, IIT Bhubaneswar.

Registration

All participants should send their filled-up registration form along with DD to the course coordinator by post. Application without the endorsement of the Head of the Institution/ Department and DD of amount 1000/- will not be entertained.

Mail your Registration forms to:

Dr. Abhishek Chowdhury
Assistant Professor in Physics,
School of Basic Sciences
Indian Institute of Technology Bhubaneswar,
Argul, Khordha-752050, Odisha.
Ph: 06747135174 (O), 9559449901 (M)
E-mail: achowdhury@iitbbs.ac.in

*TA will be reimbursed (On production of tickets) from station to station plus incidental charges of Rs. 800/- (i.e. for to and fro fare) subject to limit of three tier AC train/bus fare by the shortest route from their work place to IIT Bhubanes war and back or Rs. 4000/- whichever is lower.

**Shared accommodation at Institute Guest House @ Rs. 600/- per day, Hostel @ Rs. 225/- per day & NISER Guest House @ Rs. 600/- per day subject to the availability of rooms.

Bank details for payment

A/c Name: CEP, IIT Bhubaneswar
A/c No.: 2428201000 1960
IFSC Code: SYNB0007282
Bank Name: Syndicate Bank, IIT Bhubaneswar

Participants Category	Course Fees	Accommodation	Travel
Faculty of AICTE approved Engineering College (Within 30) **(Selection of 30 eligible participants will be made first come first basis)**	**1)**No Course fees **2)**They need to deposit DD of Rs. 1000/- in favor of **CEP, IIT Bhubaneswar** (Which will only be refunded on joining the course)	Free accommodation at Institute Guest House/ Student Hostel/ NISER Guest House depending on availability.	TA will be reimbursed as per following norms. *
Faculty of AICTE approved Engineering College**(Exceeding 30)**	**Rs. 5000.00**	**On payment basis	Borne by the participants
Non – AICTE approved Engineering College/ Scientist Research Scholar/Engineer/ Officer	**Rs. 5000.00**	**On payment basis	Borne by the participants

Registration Form

Electrodynamics for Engineers

11/05/2020 to 15/05/2020

1. Name: ……

(In Block Letters)

2. Gender:……..

3. Designation:……..

4. Department:……..

5. Address: ……

……

……..

a. Tel (off)……Mob:……

b. E-mail:……

6. Educational Qualification: ……

7. Area of Research: ……

8. Accommodation required: Yes ☐ NO ☐

9. Do you want to join as 1) QIP participant ☐

2) Sponsored ☐

10. Payment details: DD No……..

Date:……Amount:……..

11. Signature of the Applicant ……..

12. Date:……..