

*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 **06/06/2021**.
2. Applicants must deposit a refundable DD/NEFT/RTGS of Rs 500.00 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**

14/06/2021 TO 18/06/2021

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: **06/06/2021**.
- The selected candidates will be informed through email latest by: **10/06/2021**.
- **Course date: 14/06/2020 TO 18/06/2021**

Venue for Course

Course will be held **online**.

Registration

All participants should send their filled-up registration form along with DD (or details of NEFT/RTGS) to the course coordinator by post. **Application without the endorsement of Head of the Institution/Department and DD/NEFT/RTGS of amount 500/- 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

***Bank details for payment**
A/c Name: CEP, IIT Bhubaneswar
A/c No.: 24282010001960
IFSC Code: SYNB0007282
Bank Name: Syndicate Bank, IIT Bhubaneswar

Participants Category	Course Fees
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) Need to deposit DD/NEFT/RTGS of Rs. 500/- in favor of CEP, IIT Bhubaneswar (Which will only be refunded on joining the course)
Faculty of AICTE approved Engineering College (Exceeding 30)	Rs. 1000.00
Non – AICTE approved Engineering College/ Scientist Research Scholar/Engineer/ Officer	Rs. 1500.00



Registration Form



Electrodynamics for Engineers

14/06/2021 to 18/06/2021

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. Do you want to join as 1) QIP participant

2) Sponsored

9. Payment details: DD/NEFT/RTGS No.....

Date:.....Amount:.....

10. Signature of the Applicant

12. Date:.....