

ABOUT THE MENTOR INSTITUTE

JNTUA College of Engineering, Anantapuramu, is one of the oldest premier colleges in South India, with illustrious alumni. The college has celebrated its *Diamond Jubilee* in the year 2006 and has an excellent atmosphere for advancement of one's knowledge. In the year 2008 the college has become a constituent college of the newly formed JNTUA, Anantapur. About 194 private Engineering/Pharmacy/MBA colleges in the districts of Anantapuramu, Kadapa, Kurnool, Chithoor and Nellore are affiliated to JNTUA Anantapuramu. Anantapuramu is well connected with major cities like Mumbai, Hyderabad, Bangalore and Chennai by rail and road. It is very near to places of tourist interest like Lepakshi, Hampi, Belum caves and Puttaparthi.

ABOUT THE MENTEE INSTITUTE

Judging by the date of establishing year, University College of Engineering and Technology (UCET), Bikaner is relatively a new arrival in the arena of technical institutions. It was established in 2007, as an autonomous body of Govt. of Rajasthan, amidst the brown blooms of desert Island, Bikaner. It has made its mark by inspiring quality education. Total intake of College is 390 students in branches (CSE, ECE, EE, ME, CE, CRE) of Engineering and 60 students in MBA per year. From this session PG program also approved.

ABOUT WORKSHOP

Electro-Ceramics are advanced ceramic materials which find wide variety of electrical, optical and magnetic applications. They have profound impact on advance electronic devices. Ferrites, ferroelectrics, piezo-electrics, multiferroics are some advanced ceramics with high potential applications to name a few. A combination of these ceramics may result in

newer type of compounds known as composite ceramics with better functionalities and performances. Electro-ceramic materials include a vast number of magnetic, dielectric, ionically conducting, semiconducting and superconducting ceramics used in a variety of application domains as diverse as transportation, industrial production, power engineering, medicine and health care, consumer electronics, and communication. Present day market is active in materials development for applications in data storage such as ferroelectric memories, high dielectric constant capacitors, energy storage and conversion devices, transducers, actuators, energy harvesting devices and environmental monitoring sensors. To develop such ceramic materials with tailored properties, it is essential to understand the fundamental structure-property-processing correlations using a mix of experimental and modeling tools. The workshop also aims to bridge the gap between laboratory research and industrial applications. The broad topics to be taken up in this workshop are as follows:

- Fundamentals & Applications of Electro-ceramics
- Bio Glass and Corrosion aspects
- Advanced Ceramics in the field of Nanotechnology for Electro-ceramics.
- Fundamentals of Analytical Electrochemistry

The workshop includes lectures and hands on practical sessions to be conducted by eminent scientists and resource persons from various National Academic Institutions and Industry. We appeal to all the heads of the institutes to circulate this brochure widely among the students, research scholars and faculty members.

RESOURCE PERSONS:

Dr. Bhola Nath Pal,
Associate Prof, School of Materials Science & Technology, I.I.T. (B.H.U.) Varanasi

Dr. Gyan Prakash Sharma

Research Adviser, Kanopy Techno Solutions Pvt. Ltd, C/o SIDBI, IIT Kanpur, Kanpur (UP)

Shri Anuj Awasthi

Director & Co-Founder, Kanopy Techno Solutions Pvt. Ltd, C/o SIDBI, IIT Kanpur, Kanpur

GUIDELINES FOR PARTICIPANTS

Interested Participants should apply in the prescribed registration proforma along with bio data (CV) through proper channel or can visit the website (www.jntuacea.ac.in)

Patron

Dr. S.K. Bansal
Principal UCET

Chairman

Mr. Sanjeet kumar
H.O.D. Ceramic

ADDRESS FOR CORRESPONDENCE:

Dr. B. Dilip Kumar

Assistant Professor of Chemical Engineering
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Mr. Vishwas Acharya

Assistant Professor

Department of Ceramic Engineering
UCET Bikaner, Rajasthan

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Who can participate?

Students and Research Scholars of Science, Chemical, Electronics, mechanical, Electrical, Civil, Material Science, Ceramic Metallurgical, and all Inter disciplinary programs.

Course Modules

Day 1: Inauguration

Lecture by Dr. Bhola Nath Pal

Oxide semiconductors for electronics applications

Lecture by Mr. Vishwas Acharya

Origin Lab

Lecture by Mr. Nayan Kr. Debnath

XRD Data Analysis

Day 2:

Lecture by Dr. Bhola Nath Pal

Oxide semiconductors for electronics applications

Lecture by Dr. B. Dilip Kumar

Electro-Ceramics: Materials, properties, & Applications

Lecture by Sri. Anuj Awasthi

Analytical Methods in Electrochemistry-Part-I

Lecture by Dr. Gyan Prakash Sharma

Electrochemical Energy Storage – Fundamentals & Applications

Day 3:

Lecture by Dr. B. Dilip Kumar

Recent Advances in Electro-Ceramics

Lecture by Sri. Anuj Awasthi

Analytical Methods in Electrochemistry-Part-II

Lecture by Dr. Gyan Prakash Sharma

Battery Industry “Challenges & Opportunities”

Practical Sessions will be there for all three days

Registration Form



Three Day Workshop

Under Twinning Program on

“Electro-ceramics: Synthesis, Characterization

and Device Applications”

(11-13 September, 2019)

Under TEQIP-III

1. Name: _____

2. Qualifications: _____

3. Institution/organization: _____

4. Email: _____

5. Mobile: _____

Signature of the
Candidate

Signature of
Head of Institution

Registration Fee

Student	Rs. 500/-
Research Scholars	Rs. 1000/-

The Fee can be paid by

1. Demand Draft drawn in favor of CET FACULTY DEVELOPMENT FUND
2. Electronic cash transfer via NEFT to CET FACULTY DEVELOPMENT FUND

A/C No: - 11741011000776

IFSC Code: - ORBC0101174

Branch: - OBC, ECB Bikaner



Department of Ceramic Engineering

University College

of

Engineering & Technology, Bikaner

(Constituent College of Bikaner Technical University)

Organizing

Three Day National Workshop on

“Electro-ceramics: Synthesis,
Characterization and Device
Applications”

(11-13 September, 2019)

Under TEQIP-III

Twinning Program

In association with



Department of Chemical Engineering
JNTUA College of Engineering (Autonomous)
Anantapuramu, Andhra Pradesh (AP)

INDIA