



High-End Workshop On

“ADVANCED COMPOSITE MATERIALS FOR ENERGY CONVERSION AND STORAGE APPLICATIONS” (ACESA - 2023)

16.02.2023 - 22.02.2023

Sponsored by
Science & Engineering Research Board (SERB)
New Delhi

“KARYASHALA”

Organized by



DEPARTMENT OF CHEMISTRY
UNIVERSITY COLLEGE OF ENGINEERING
BHARATHIDASAN INSTITUTE OF TECHNOLOGY
(BIT CAMPUS), ANNA UNIVERSITY,
TIRUCHIRAPPALLI, TAMILNADU, INDIA- 620 024

Coordinators

Dr. K. Jothivenkatachalam, Professor & Head
Dr. S. Moscow, Assistant Professor

Contact Details:

Email: kjothivenkatachalam@gmail.com;
moscowchem@gmail.com

Mobile: +91 9443215423; +91 9787654849



University College of Engineering, BIT Campus, Anna University,

Tiruchirappalli: University College of Engineering (UCE), BIT Campus, Anna University, Tiruchirappalli has been established in 1999 and now functioning as a constituent college of Anna University, Chennai. UCE-BIT Campus, Anna University has become sufficiently multifaceted with 7 Faculties with 16 Teaching Departments including some specialized programmes. Our institute has NBA Accreditation and offers 10 B.E/B.Tech. Undergraduate degree programmes, 8 M.E/ M.Tech Masters degree programmes along with MBA, MCA and Ph.D. programmes in all discipline with 4628 students in the campus. We are the TEQIP II sponsored institution with UGC 2f & 12B status.

The unique dimension of the institute's educational profile harnesses the research and teaching interests of the faculty to forge its own character and to bring an extra value-addition to it. The departments of our institute are carrying out specialized and socially responsive interdisciplinary research. Our institute has 2 Centres funded by DST and AICTE. UCE, BIT Campus received research and consultancy from various funding agencies of India for a total value of 300 Million Rupees. We are the recipient of Anna University Patent Awards for three successive years. Our students grab Hackathon titles for 5 consecutive years from various Ministries of Government of India.

The Institution works towards developing partnerships with industries and academic institutes to provide quality education & opportunities for entrepreneurial development by having EDII-Anna Business Incubation Research Foundation (Section 8, Not for Profit Company). We also have EDII-Academic Innovation & Entrepreneurship Development Programme Hub (EDII-Tiruchirappalli Hub) funded by Government of Tamilnadu. The main objective of the institute is to generate a horde of highly creative professionals, who can contribute not only to the Human Resource Development and also to Nation building exercise.

About the Department: The Department was established in 1999 with dedicated staff members and well equipped laboratories. The faculty members are handling B.E/B.Tech and M.Tech classes and also offers vibrant atmosphere to scholar to pursue cutting edge research in the field of Coordination., Bioinorganic, Photoelectrochemistry, Photo-Catalysis, Material Chemistry, Electrochemistry, Polymer Chemistry, Nanotechnology and Environment chemistry. The Department is supported by CSIR, DST, SERB and TNSCST.

About Karyashala and High-End workshop: KARYASHALA is an effort of DST SERB under AccelerateVigyan (AV) Scheme 'to improve the research efficiency of promoting PG and PhD from university and colleges through the High End Workshops on specific themes. This programme aims to provide opportunities to acquired skills specialized skills. Global concern over rapidly growing energy demands and environmental related issues has obligated scientific and technological fraternities to direct their concentration on intensive R&D in the area of advance composite materials for energy conversion and storage devices related application. Among Various energy conversion techniques photoelectrochemical approaches provide viable and reliable technologies, which used to convert and storage energy through various source. Solar being a major renewable energy provider, contribute tremendous energy which can harvested through the photoelectrochemical and photovoltaic devices. Electrochemical energy storage devices are sustainable choice to meet the ever growing energy demands.

Topic to be covered

Fundamentals and Hands on training on

- Materials synthesis
- Photocatalysis
- Characterization techniques
- Water splitting
- Photoelectrochemical cells
- Dye sensitized/ Perovskite solar cells
- Supercapacitors
- Device fabrication and Testing

Registration Details

- No. of seats: 25
- Ph.D Students 10 (Early stage <6 month) and PG students 15 (Final Year)

Important dates:

- Last Date of Registration - 30.01.2023
- Notification of Acceptance - 01.02.2023

Nature of Support

- Travel, accommodation, food will be provided to all selected participants

Eligibility

- M.Sc (II year) in chemistry /physics/ nanoscience and nanotechnology /materials science

Documents Required

- Registration form (Enclosed) and a copy of adhar card
- Endorsment and No Objection Certificate
- Proof of Admission/Ph.D. registration letter (Attested copy from the head of the deapartment) showing less than 6 month must be attached
- Attested copy of degree certificate, UG/PG marksheets
- Statements of research intrest (Not more than 500 words)
- Institute ID card

Above mentioned documents should be sent by mail (autkaryashala2023@gmail.com) and hard copy send to coordinator, Department of Chemistry, UCE-BIT Campus, Anna University, Tiruhirappalli – 620024

Organizing committee

Chief Patron

Prof. R. Velraj
Hon'ble Vice Chancellor, Anna University: Chennai

Patron

Dr. G. Ravikumar
Registrar, Anna University: Chennai

Chair

Dr. P. Hariharan
Director, CCC, Anna University: Chennai

Co-Chair

Dr. T. SenthilKumar, Dean, UCE BIT campus

Coordinators

Dr. K. Jothivenkatachalam, Professor & Head
Dr. S. Moscow, Assistant Professor

Members

Dr. R. Thiruneelakandan, Professor
Dr. K. Nehru, Assistant Professor
Dr. N. Devika, Assistant Professor
Dr. V.K. Senthurpandian, Assistant Professor
Dr. E. Anuja, Assistant Professor
Dr. R. Udhayakumar, Assistant Professor
Dr. G.D. Gayathri, Assistant Professor
Dr. V. Thangaraj, Assistant Professor
Dr. K. Kanimozhi, Assistant Professor
Dr. V. Tamilmani, Assistant Professor
Dr. A. Nancy Anna Anasthasiya, DSK-PDF UGC
Mr. V. Kavinkumar, Research Fellow
Mr. M. Sriramkumar, Research Fellows
Ms. A.R. Pavithraa, Research Fellow
Ms. J. Jasmine, Research Fellow

Resource Person

Dr. Shanmugasundaram Sakthivel
International Advanced Research Centre (ARCI),
Hyderabad 500 005, Telangana, India

Dr. S. Anandan
National Institute of Technology, Tiruchirappalli,
TamilNadu, India

Dr. K. Jeganathan
Bharathidasan University, Tiruchirappalli, TamilNadu,
India

Dr. M. Sathish
Central Electrochemical Research Institute, Karaikudi,
TamilNadu, India

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Central Electrochemical Research Institute, Karaikudi,
TamilNadu, India

Dr. Easwaramoorthi Ramasamy
International Advanced Research Centre (ARCI),
Hyderabad 500 005, Telangana, India

Dr. S. Karuppuchamy
Alagappa University Karaikudi, TamilNadu, India

Dr. Perumal Elumalai
Pondicherry University, Pondicherry, TamiNadu, India.

Dr. N. Balasubramanian
Anna University, Chennai-600025, India

Registration Form

KARYASHALA High-End Workshop on “Advanced Composite Materials for Energy Conversion and Storage Applications” (Physical mode)
(Under the ABHYAAS program – a DST-SERB Initiative)

16.02.2023 - 22.02.2023

DEPARTMENT OF CHEMISTRY
UNIVERSITY COLLEGE OF ENGINEERING
UCE-BIT CAMPUS
ANNA UNIVERSITY TIRUCHIRAPPALLI – 620 024.

Name:

Course (PG):

Enrolment Number:

Year of Study:

Department:

Institute/University:

Address:

Mobile:

E Mail:

Reason for the participation:

The above information provided is true and to the best of my knowledge. If, selected, I agree to abide by the rules and regulations of the program and the Anna University.

Signature of Candidate

Photo

Endorsement cum No Objection Certificate from the Head of the Department/Thesis Supervisor

(To be given on University/ Institute/ College Letter head)

This is to certify that:

1. Mr. / Ms. / Mrs. _____, is a bonafidestudent of our University /Institute / College and will assume full responsibility for actively participating in the hands-on research and skill development training program titled “**High-End Workshop on “Advanced Composite Materials for Energy Conversion and Storage Applications”**” sponsored by DST-SERB under the Accelerate VigyanScheme, scheduled from February 16 to 22, 2023.
2. The Applicant is a Full-time / part-time student of our University/ Institute/ College and enrolled in M. Tech / M. S. Programme in Department.
3. The candidate has secured _____% / CGPA / CPI till date (if applicable).
4. The University/ Institute/ College also endorses the conduct of the applicant to be of highest order who bears a good moral character.
5. The University/ Institute/ College has “No-Objection” for the candidate participation during the above said period.
6. The candidate, if selected for participation, shall be duly permitted to attend the workshop on physical mode. The University/ Institute/ College may provide the necessary facilitation needed for this purpose.

Date:

Place:

Signature and Seal with name
(Head of the Department/ Thesis Supervisor)

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Signature of Candidate