

First Information Brochure

The Institution of Engineers (India)

"A Century of Service to the Nation"

All India Seminar
on

"Biotechnology Approaches for Value Addition of Agricultural Produce"

Date: 08-09 October 2026

Place: Coimbatore

Organized by



The Institution of Engineers (India) Coimbatore Local Centre

under the aegis of

Chemical Engineering Division Board, IEI

in association with



**Division of Biotechnology
Karunya Institute of Technology and Sciences (KITS)
Coimbatore**

(IM000479-2)

***Venue: Gallery Hall, Division of Biotechnology
KITS, Coimbatore - 641114***

About The Institution of Engineers (India)

The Institution of Engineers (India) or IEI is the largest multidisciplinary professional body that encompasses 15 engineering disciplines and gives engineers a global platform for sharing professional interest. IEI has membership strength of above 2.6 lakh. Established in 1920, with its headquarter Kolkata, IEI has served the engineering fraternity close to a century. During this period of time, IEI has been inextricably linked with the history of modern-day engineering.

In 1935, IEI was incorporated by Royal Charter and remains the only professional body in India which has been accorded this honor. Today, its quest for professional excellence has given it a place of pride in almost every prestigious and relevant organization across the globe. It provides a vast array of technical, professional and supporting services to the Government, Industries, Academia and the Engineering fraternity, operating through its 124 Centres located across the country and 6 overseas chapters. Besides, IEI has bilateral agreements with about 31 international bodies and membership of another 8 international bodies of the developed nations across the globe. Being recognized as a Scientific and Research Organization (SIRO) by the Department of Scientific and Industrial Research, Ministry of Science and Technology, Government of India, IEI promotes the cause of research and development by providing Grant-in-Aid support to undergraduate, post graduate students and PhD Research Scholars of Engineering Institutions and Universities.

IEI has been recognized as Scientific and Industrial Research Organization (SIRO) by the Ministry of Science & Technology, Government of India and besides conducting its' own research, provides Grant-in-Aid to UG/PG/PhD students of Engineering institutes and Universities. IEI holds the International Professional Engineers (IntPE) Register for India under the global International Professional Engineers Alliance (IntPEA). The institution also awards the Professional Engineers (PE) Certification. IEI in collaboration with Springer regularly publishes peer-reviewed international journal in five series, namely, Series A, Series B, Series C, Series D and Series E covering fifteen engineering disciplines.

About Coimbatore Local Centre

IE(I) Coimbatore Local Centre, operating from the PSG College of Technology campus, has been actively serving the engineering fraternity for nearly 60 years. The IE(I), Coimbatore Local Centre has been one of the active centres of The Institution of Engineers (India) which is engaged in successfully translating the objectives and ethics of IE(I) into practice. The Centre was founded in the year of 1965, under the Chairmanship of Dr G R Damodaran, an educationist, the former Vice - Chancellor of Madras University, a philanthropist and also the architect of PSG College of Technology, Coimbatore, who lived for the technology development of the nation. Presently, IE(I), Coimbatore Local Centre has a strength of more than 3,000 corporate members, more than 6,000 student members, and 22 institutional members. It regularly organizes technical and special lectures in various fields of engineering. Industrial visits are also arranged to promote good technical interaction among the members and industries. It also observes the international / national events like World Water Day, World Telecommunication and Information Society Day, World Environment Day and Engineers Day and other IE(I) statutory days in a fitting manner by organizing technical talks on the selected themes with experts in field. One Day Seminar / Workshop, All India Seminar / Workshop funded by the IE(I), Headquarters, Kolkata are also being organized under different engineering

divisions in association with various institutions. A few National Conventions of IE(I) are also organized by the Centre. The Centre served as an important examination centre in the region for many years conducting AMIE section A & B examinations during summer and winter sessions. The Centre has many students' chapters which are active under different engineering divisions in various institutions in and around Coimbatore. Every year, outstanding engineers and young achievers are honored by the Coimbatore Local Centre. Student scholarships are also distributed from various endowment contributions. The Centre houses a library with about 1900 text and reference books for the benefit of members. Guidance classes are also being conducted to support associate and student members. Golden jubilee of the IE(I), Coimbatore Local Centre was celebrated in the year 2015 - 2016 with the inauguration of Centre's own building, "PSG - GRD Bhavan". Rotary eClub of Coimbatore Changemakers honored IE(I), Coimbatore Local Centre with **"Changemaker of Coimbatore Award for the year 2022-2023"**. Recently, the Institution of Engineers (India), Coimbatore Local Centre, has been adjudged the **"Best Local Centre" for its all-round performance during the year 2024-2025**. This recognition was also received earlier for the years 2019-2020, 2022- 2023 and 2023-2024.

About the College

Karunya Institute of Technology and Sciences (Deemed to be University) (KITS) was founded with the noble vision to raise professionals and leaders of high academic caliber and unblemished character, nurtured with a strong motivation and commitment to serve humanity. The institution is the fulfillment of the vision of its founders, the late Dr. D. G. S. Dhinakaran and the present Chancellor, Dr. Paul Dhinakaran. Established in 1986 as an Engineering College, it was granted autonomous status in 2000 and declared a Deemed-to-be University by the University Grants Commission (UGC) in recognition of its academic excellence by the Ministry of Human Resources Development under section 3 of the UGC Act, 1956, vide notification no 9-3-2000-U3 dated 23.6.2004 of the Government of India. Accredited by NAAC, the institution offers a wide array of Bachelor's, Master's and Doctoral Degree programs in various branches of Engineering, Biotechnology, Food processing and Agricultural Sciences. From humble beginnings with 180 students, the institution has grown rapidly and now runs 18 academic departments.

About the Department

Established in 2005, the Division of Biotechnology is committed to nurturing skilled biotechnologists, researchers, and technology entrepreneurs capable of developing sustainable processes and products for the benefit of society and the environment. The Division offers a multidisciplinary and industry-oriented academic environment, integrating emerging areas such as Genetic Engineering, Gene Transfer, Metabolic Engineering, Cancer Management, Downstream Processing, Bioprocess Engineering, Tissue Engineering, Phytotherapeutics, Plant and Animal Tissue Culture, and Nanobiotechnology. The B.Tech Biotechnology programme received NBA accreditation in 2019, while the Division also offers postgraduate and doctoral programmes. Its curriculum combines core biotechnology with professional electives, project-based learning, industrial visits, internships, micro-projects, and MOOC certifications through NPTEL and SWAYAM. The Division focuses on preparing students to address real-world challenges in food, water, healthcare, and energy through scientific research, technological innovation, and responsible biotechnology.

About the Theme

The All India Seminar on Biotechnology Approaches for Value Addition of Agricultural Produce serves as a significant national platform for IEL members, academicians, researchers, industry experts and students to deliberate on innovative biotechnological interventions that enhance the economic, nutritional, and commercial value of agricultural commodities. This seminar emphasizes the integration of modern molecular biology, genetic engineering, fermentation technology, enzyme technology, and bioprocess engineering into conventional agricultural practices. In a country like India, where agriculture forms the backbone of the economy, post-harvest losses, low processing levels, and limited value addition significantly affect farmer income and national productivity. The seminar highlights advanced strategies such as biofortification to improve micronutrient content, microbial fermentation for the production of functional foods and nutraceuticals, enzymatic processing for improved extraction efficiency, and agro-waste valorization to convert residues into biofuels, bioplastics, and biofertilizers. Discussions also focus on sustainability, circular bioeconomy, climate-resilient crops, and precision agriculture tools including biosensors and molecular diagnostics for plant disease management. By fostering collaboration between research institutions, startups, and agro-based industries, the seminar promotes translational research and commercialization of laboratory innovations. It also aligns with national development initiatives such as Atmanirbhar Bharat, encouraging self-reliance through indigenous biotechnology solutions. Overall, the seminar plays a crucial role in strengthening India's agri-biotech ecosystem by facilitating knowledge exchange, policy dialogue, and technological advancements aimed at sustainable agricultural growth and enhanced farmer prosperity.

Sub-Themes

- ❖ Genetic Engineering and Crop Improvement
- ❖ Biofortification and Nutraceutical Development
- ❖ Post-Harvest Biotechnology and Shelf-Life Enhancement
- ❖ Fermentation Technology for Agro-Based Products
- ❖ Agro-Waste Valorization and Circular Bioeconomy
- ❖ Industrial Bioprocess Scale-Up and Process Optimization
- ❖ Precision Agriculture and Smart Biotechnological Tools
- ❖ Sustainable and Climate-Resilient Agricultural Biotechnology
- ❖ Quality Control, Safety, and Regulatory Aspects in Agri-Biotech
- ❖ Entrepreneurship and Startups in Agri-Biotechnology

Call for Papers

Prospective authors are invited to submit manuscripts reporting original unpublished research and recent developments in the topics related to the theme of the All India Seminar but not limited to subthemes listed above.

Authors should send an Abstract up to 300 words to **coimbatorelc@ieindia.org & akpriya@karunya.edu**. The final paper should be in the format available on the website (https://repos.ieindia.org/technical/publication/document/Paper_Template.docx). All presented papers will be included in the proceedings of the All India Seminar.

For Guidelines for Submission of Papers scan the QR Code:



https://repos.ieindia.org/technical/publication/document/Guidelines_for_Authors.pdf

Resource Persons

Expert members from various leading academic institutions and Industries.

Eligibility

IEI Members, UG and PG Students, Research Scholars, Faculty Members and Practicing Engineers.

Importance Dates

Last date for abstract submission	: 02.10.2026
Paper acceptance intimation	: 03.10.2026
Last date for full paper submission:	: 05.10.2026
Last date of registration	: 06.10.2026

* Registration for the seminar can be made by sending the duly filled application through email or using the registration link on or before **06.10.2026**.

Registration Link: <https://forms.gle/vGT6GrJCZK1uU47R7>

Registration Fee (including GST)

	₹
IEI Corporate Members	472.00
UG / PG / Research Scholar	472.00
Faculty Members	708.00
Participants from Industry	944.00

Payment (Online Transfer Only)

Name	: The Institution of Engineers (India) Coimbatore Local Centre
Bank	: State Bank of India
Branch	: Peelamedu Branch, Coimbatore
Account No.	: 10141435551
IFSC Code	: SBIN0007231
GST No.	: 33AAATT3439Q6ZW

Note

- ❖ **Pre-registration is mandatory**
- ❖ **Spot registration is strictly not permitted (No cash payment)**
- ❖ **Limited participants only**
- ❖ **No TA / DA will be paid**
- ❖ **Kindly bring your College / industry identity card**
- ❖ **Registration through email and registration link is compulsory**
- ❖ **Registration fee includes: refreshments, lunch & participation certificate**

Chief Patrons **Prof Dr R Elijah Blessing**
Vice Chancellor
Karunya Institute of Technology and Sciences, Coimbatore

Patron **Dr Xavier N Fernando**
Dean - School of Engineering and Technology
Karunya Institute of Technology and Sciences, Coimbatore

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Dr J Pradeep Kumar, Honorary Secretary, IEI Coimbatore Local Centre
Ex-Officio Member: **Dr Ashishsingh Dixit**, Secretary and Director General, IEI

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Registration Form

**All India Seminar
on**

**“Biotechnology Approaches for
Value Addition of Agricultural Produce”**

Date: 08-09 October 2026

Venue: Gallery Hall, Division of Biotechnology, KITS, Coimbatore - 641114

Name: (in Block Letters) :

Designation:

Organization / Institution :

IEI Membership No. & Division :
(if not a member, write Nil)

Address for Communication :

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Mobile Number :

Email ID :

Registration Fee Paid (Rs.) :

Transaction Details :
UPI ID No / NEFT UTR No

Transaction Date & Time :

Dated:

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Signature