

Target Audience

Students, faculty members, research scholars and industry persons are eligible to attend the program.

Topics to be covered

- Nano composite Chemical Sensors and Electronic Nose Developments for Disease Diagnosis Applications.
- Nanocomposites, Nano encapsulation, Nanoparticles in Nano Medicine.
- Nano Scopic imaging.
- Micro particles and its characterization in Dosage Process.
- Problems and Prospects of Nanotechnology applications in healthcare domain.
- MEMS & its applications.

Registration Link

<https://forms.gle/vBxHsHwGWppaFebQ9>

Important Date

- Last date for registration: 16.02.2024

Registration Fee: Rs. 500/-

Account Details

Account Name: **The Registrar**
Account Number: **6010310202**
Name of the Bank: **Indian Bank**
Branch: **ADUC Branch**
1117, Mettupalayam Road
Coimbatore 641 043
IFSC Code: **IDIB000A005**
Type of Account: **Savings Account**

Contacts

Mrs. S. Priyadharshini, Assistant Professor/ECE

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Ms. N. Sujatha, Assistant Professor/ECE

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Email id: csirseminar24@gmail.com

ORGANIZING COMMITTEE

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School of Engineering

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Dr. R. Sudarmani

Associate Professor and HoD
Electronics and Communication Engineering

Organizing Secretaries

Mrs. S. Priyadharshini

Assistant Professor
Electronics and Communication Engineering

Ms. N. Sujatha

Assistant Professor
Electronics and Communication Engineering



Avinashilingam Institute for Home Science and Higher Education for Women

(Deemed to be University Estd. u/s 3 of UGC Act 1956, Category A by MHRD)
Re-accredited with 'A++' Grade by NAAC. CGPA 3.65/4, Category 1 by UGC
Coimbatore - 641 043, Tamil Nadu, India

Council of Scientific and Industrial Research (CSIR)

Sponsored



Two Day National Level Seminar on Applications of Nanotechnology in Health Care Systems 22.02.2024 and 23.02.2024



Organized by

Department of Electronics and Communication Engineering

School of Engineering

(Estd. in 1996 and Approved by AICTE)

Avinashilingam Institute for Home Science and Higher Education for Women, Varapalayam,
Chinna Thadagam (PO), Coimbatore- 641 108
Tel: 0422-2980145 / 0422-988997

About the Institute

Sri Avinashilingam Home Science College for Women was established under the auspices of the Avinashilingam Education Trust in 1957 by Dr. T.S. Avinashilingam, the great patriot and educationist, the first Minister of Education in the Composite State of Madras (1946-1949) and a Padma Bhushan Awardee. The world-renowned Doyen of Nutrition and the first Vice Chancellor, Padmashree Dr. Rajammal P. Devadas, nurtured and raised the institution to its present status as a University, with her ardent and unstinted efforts. The University is scaling global heights under the stewardship of Dr.T.S.K. Meenakshisundaram, Managing Trustee and Chancellor, Dr.V.Bharathi Harishankar, Vice Chancellor and Dr. S. Kowsalya, Registrar of the Institute. Its tremendous growth as an autonomous college was visible for 10 years from 1978 in various spheres of academics, community development and skill development of women, for the society and in national and international research and consultancy. These fast-paced contributions aided the UGC and MHRD in recognizing the Institution as a Deemed to be University in 1988. Thus, the Institution has been in the limelight both at National and International levels since then. The Institute has diversified and well qualified faculty. Around 8000 students benefit from the Undergraduate, Postgraduate and Research level programmes offered by different Schools such as Home Science, Physical Sciences and Computational Sciences, Biosciences, Arts and Social Sciences, Commerce & Management, Allied and Healthcare Sciences, Education and Engineering. Recently, the Institute has prestigiously secured A++ grade with CGPA of 3.65/4 by NAAC, 81st Rank in NIRF 2023, 11-50 Band in NIRF Innovation Category in ATAL Ranking of Institutions on Innovation Achievements (ARIIA) 2022.

School of Engineering

The School of Engineering, one of the arms of Avinashilingam Institute of Home Science and Higher Education for Women, a Deemed to be University, was started in the year 1996 with the approval of the All India Council for Technical Education (AICTE), New Delhi. The School is spread over an area of 94 acres and is situated 6 km off Mettupalayam Road at Varapalayam. Coimbatore. The Vision of the School of Engineering is to produce industry-ready women engineers who can compete in today's world through innovation, enterprise, and technical excellence. Well-qualified faculty members encourage and mentor the students to achieve technical expertise.

The School's curriculum is based on the Outcome Based Education (OBE) syllabus which is updated annually with the guidance of experts from academia, industry, and research organizations as well as our own successful alumni, who have achieved high positions in their professional careers.

Courses Offered

B.E.

- Artificial Intelligence and Data Science
 - Biomedical Instrumentation Engineering
 - Civil Engineering with Computer Application
 - Computer Science and Engineering*
 - Electronics and Communication Engineering
 - Food Processing and Preservation Technology*
 - Printing Technology
- *Accredited by NBA

Integrated M.Tech.

- Electronics and Communication Engineering (Internet of Things)

M.E.

- Data Science
- Food Technology
- Medical Electronics
- Embedded System and VLSI

About the Department

The Department of Electronics and Communication Engineering is one of the most versatile and fast developing branches of Engineering, established in the year 2000. The curriculum has been framed and updated regularly to keep up with the growing demands of the research community and in the design and automation sectors of industries. The department has well experienced and dedicated faculty with diverse specialization. The department has well established laboratories. Texas Instruments Innovation centre is established in the department to cater the innovative ideas of the students.

The courses offered by the department are,

- B.E. Electronics and Communication Engineering
- Integrated M.Tech. Electronics and Communication Engineering (Internet of Things)
- M.E. Embedded System and VLSI
- PhD Electronics and Communication Engineering

The department provides quality and contemporary education through effective teaching- learning process that equips the students with adequate knowledge and skills.

It also develops in students an ability to identify, formulate and apply appropriate techniques, resources to solve complex engineering problems through electronics & communication. The key research domains of the department include Digital Image Processing, VLSI Design, Wireless Sensor Networks, Optical Networks, IoT and Artificial Intelligence.

Objectives of the Seminar

- To provide participants with a comprehensive understanding of the principles and applications of nanotechnology in the context of healthcare.
- To showcase the latest advancements in Nanocomposites, Nano encapsulation, Nanoparticles and Nano Scopic imaging that have direct applications in health care systems.
- To discuss the challenges associated with implementing nanotechnology in healthcare and explore strategies to overcome them.
- To offer practical insights through case studies and real-world examples to illustrate how nanotechnology is being applied in the development of sensors for medical diagnostics, drug delivery systems, and other healthcare solutions.
- To create a platform for professionals, researchers, and students to network, share ideas, and exchange knowledge in the field of nanotechnology and healthcare.

Resources Persons

Dr. R. Pandeewari, Assistant Professor
Department of Nanoscience and Technology
Sri Ramakrishna Engineering College, Coimbatore

Dr. Deepa B Prabhu, Associate Professor
Department of Biomedical Engineering
Sri Ramakrishna Engineering College, Coimbatore

Dr. P. Geetha, Professor
Department of Electronics and Communication Engineering,
Sree Vidyanikethan Engineering College, Tirupati

Mr. Dhanapal, Plant Head
Safetab Life Science
Electronic Park, Thirubhuvanai, Puducherry

Dr. K. Natarajan, Professor
Department of Pharmaceutical
Biotechnology, T John College of Pharmacy, Bangalore

Dr. N. Sathish Kumar, Professor
Department of Electronics and Communication Engineering,
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