

# KAMARAJ

## COLLEGE OF ENGINEERING & TECHNOLOGY



**(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)**

**S.P.G.Chidambara Nadar - C.Nagammal Campus**

**S.P.G.C. Nagar, K.Vellakulam – 625 701 (Near VIRUDHUNAGAR).**

## NEWSLETTER

**DEPARTMENT OF BIOTECHNOLOGY**

ACCREDITED BY NATIONAL BOARD OF ACCREDITATION ,  
NEW DELHI

## BIO – NEXUS

JANUARY TO MARCH 2025



# EDITORIAL BOARD



**Er. Amuthalakshmi**  
**ASP/ BT**



**S. Aparna II - BT**



**J. Marisha Christine Stisha**  
**II - BT**



**S. Varshini III - BT**



**L. Priya Dharshini III - BT**

**Vision :** To make the Department of Biotechnology, unique of its kind in the field of research and development activities pertaining to the field of biotechnology in this part of the world

**Mission:** To impart highly innovative and technical knowledge in the field of biotechnology to the urban and rural student folks through “Total Quality Education”

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### **Program Educational Outcome (PEO)**

**PEO 1:** The student will be able to pursue higher education in India/Abroad in Biotechnology and its related fields by taking up competitive exams like GATE, CSIR, TANCET, GRE, TOEFL etc.

**PEO 2 :** The student will be able to come up with solutions for any scientific or technical problems related to Biotechnological industries/institutes.

**PEO 3 :** The student will be able to plan and conduct experiments in modern biotechnology and allied field laboratories including interpreting the significance of resulting data, reporting results and writing technical reports.

**PEO 4 :** The student will be able to get familiarized with professional and economical issues in biotechnology and foster important job related skills such as communications and experience in working as a team that will help them to become good Entrepreneurs.

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### **Program Specific Outcomes (PSOs)**

**PSO1 :** Future ready graduates: The student will be able to identify, choose and perform to their best ability in the next career step: Higher education/Job/Entrepreneurial initiatives.

**PSO2 :** Industry ready graduates: The student will be able to apply the acquired knowledge to provide cost-effective and sustainable solutions in Biotechnology.

## Program Outcomes (PO)

**PO1 :** Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

**PO2 :** Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

**PO3 :** Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

**PO4 :** Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

**PO5 :** Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

**PO6 :** The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

**PO7 :** Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

**PO8:** Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

**PO9 :** Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

**PO10 :** Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

**PO11 :** Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

**PO12 :** Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

# STUDENT ACHIEVEMENTS

## Technical & Innovation Achievements

- **Ms.Akshaya** of II year BT got **first** place in the Paper Presentation at the National level seminar organized by The Madura College, Madurai on 21/02/2025.
- **Ms.Veeralakshmi, Ms.Jeevaasri and Ms.Dhivya** of II year BT got **third** place in Paper Presentation at National level seminar organized by The Madura College, Madurai on 21/02/2025.
- **Mr.Haresh** of III year BT has won Best Oral Presentation Award at the National level seminar organised by The Madura College, Madurai on 21/02/2025.
- **Ms.Rajapriyadharshini, Ms.Janani** of II year BT got third place in paper presentation conducted by National Engineering college, Kovilpatti on 14/03/2025.



**Ms.Marisha Christine Stisha, Ms.Puvina Jasmine, Ms.Aparna and Ms.Swetha** of II year BT got second prize for paper presentation at the **international conference** held at Hindustan College of Art and Science on 31/01/2025.

## Special achievements

- **Mr.Abinanthan** of III year BT participated in NSS National Integration Camp held at Agricultural University, Jorhat, Assam from 21/01/2025 to 27/01/2025.
- **Mr.Sanjayveera.S**, II year BT was selected in all India trekking expedition AP trek at Tirupati.
- **Ms.Karanya** of II year BT won third Prize in Business Introduction Speech competition Conducted by Business Network International (BNI), Virudhunagar on 05/02/2025.
- **Ms.Janani** of II year BT won second Prize in Business Introduction Speech competition Conducted by Business Network International (BNI), Virudhunagar on 05/02/2025.
- **Ms.Sujitha** of IV year BT has attended the NPTEL Stars Felicitation Event at IIT Madras on 09/02/2025.



## Sports achievements

- **Mr.Lalithraj** of II year BT got second Prize in weight lifting conducted by Virudhunagar District Weightlifting Association at junior level (81Kg) 09/02/2025.
- **Ms.Priyadharshini** of III year BT won first prize in throw ball conducted by Kamaraj College of Engineering and Technology.
- **Ms.Sakthishivani** of III year BT won second prize with 1,800 cash award in solo dance event conducted by Kalasalingam University on 14/02/2025.



**Ms. Sakthi Shivani**, III year BT has got second prize with cash award of Rs. 8000 in Khelo India Yoga competition at zonal level.

# ACADEMIC TOPPERS



## RYLA - 2025



**Mr. Mohanraj** of II year BT has won the title of **MR. RYLA** from Rotary Club of Virudhunagar on 07/02/2025.

**Ms. Viveha Bala** of II year BT has won the title of **MS. RYLA** from Rotary Club of Virudhunagar on 07/02/2025.

## Faculty Achievements

- Er. Karl Joseph Samuel, AP/BT has successfully participated & completed ATAL Academy Faculty Development Program on "Recent progress in Process Modelling, Simulation and Process Control" at National Institute of Technology Tiruchirappalli from 06-11-2024 to 11-01-2025.
- Dr K.Geetha, ASP/BT attended the Inpods OBE Live Demo organized by Inpods ED-Tech, A leading Education Technology Provider on 15-01-2025.
- An Alumni Event was conducted for Third year Biotechnology students by our Alumni (Mr. B. Sathish Kumar (2016 - 2020) on 20th January 2025.
- Dr K.Geetha, ASP, BT has attended an online webinar on ACADEMIC ADMINISTRATIVE AUDIT BINARY NAAC NEW MODEL on 23/1/2025 organized by ISDE ACADEMY INDIA PVT LTD, A Division of P S QUALITY CERTIFICATION PVT LTD.
- Dr K.Geetha has registered as a Faculty member of the Global Society for Technical Education (GSTE), a dynamic international Professional body organization.
- Dr Shyam Kumar Rajaram /Professor/BT participated in a one-day program on NABL AWARENESS PROGRAM FOR STRENGTHENING INDUSTRIES THROUGH LAB UPGRADATION, Organized by NABL, BANGALORE AND Virudhunagar chamber of commerce on 30/1/2025
- Dr. SHYAM KUMAR RAJARAM/Professor/BT Participated in Online seminar on webinar on 'Nourishing a Healthier Tomorrow: The Role of Nutrition in Modern Lifestyles' Organized by PFNDAI -Protein Food Nutrition Development on 31st January 2025
- Dr. S. Karthikumar/ASP/BT, Dr. R. Shyam Kumar/Prof/BT and J.Puvina Jasmine, J.Marisha Christian Stisha, R.B. Akshaya of II year of Biotechnology received copyright for development of micro encapsulated and multi functional coconut serum face mask using coconut milk.
- Er. Raja Rajesweri R received certified Lifetime Membership in Education Research and Development Association(ERDA) on 05.02.2025.
- Department of Biotechnology organized an Online Guest Lecture on "Unlocking Success: The role of Competitive Exams in Higher Studies" for Biotechnology students on 10/02/2025. Guest Speaker- Mr Seenivasaperumal, Centre Head, Allen Career Institute Pvt Ltd, Madurai, Alumni (2011-15 batch).
- Department of Biotechnology organized a guest lecture from the Genes Association for BT students on the topic "Effective communication for placement" Resource Person: MS. Madhumitha A., Data Analyst, Google, Bangalore on 15/02/2025.
- Dr. SHYAM KUMAR R, Professor/BT/ participated Webinar on "Operational guidelines for FPOs, Cooperatives and SHGs" on 18-02-2025, Organized by EEI Hyderabad.
- Alumni interaction on "Emerging trends and Career Opportunities in the pharma sector" by Er. M. Areef Sulaiman (2018 – 2022 Batch), Executive in Biosimilars Production Downstream Biocon Biologics Limited, Bangalore on 19-02-2025.
- Dr Pradiba D, Dr Baskaran R and Er Ganga A submitted a proposal under the "Partial Funding of conferences" scheme of Tamil Nadu State Council for Science and Technology for a sum of Rs 25000/- on 20-02-2025
- Department of Biotechnology, conducted an ISTE sponsored student chapter event on "Reading Comprehension" for II BT students on 20-02-2025
- Dr. Shyam Kumar R /professor /BT participated Webinar on "Healthy Oils for Happy Lives" organized by Protein Foods and Nutrition Development Association of India (PFNDAI) is organizing a sponsored by Marico Limited, Mother Dairy Fruit & Vegetable Pvt. Ltd., and Frigorifico Allana Private Limited on 21-02-2025
- Industry specific training has been given to the students on 21-02-2025 for attending the QBSS Interview, which is scheduled on 25-02-2025.
- Zifo has delivered preplacement talk for biotechnology students on 21-02-2025
- Dr. S. Karthikumar, ASP/BT Presented a Startup lecture cum Startup Stall Expo to the participants of SRISTI 2025, 11th National Level Technical Project Exhibition and Competition, organised by Saingits College of engineering, Kottayam, Kerala on 24-02-2025
- Dr Pradiba D acted as judge at the "Edu epo", KVS EMS, Virudhunagar on 28-02-2025

## ORA - 2K25

The Department of Biotechnology, KCET, organizes “ORA,” an annual national-level conference celebrating National Science Day. ORA-2025, themed "Biotechnology and the SDGs: Pioneering Solutions for a Sustainable World," will explore biotechnology's role in achieving the United Nations Sustainable Development Goals (SDGs). The conference will address global challenges like food security, clean energy, healthcare, and climate change through innovative solutions, showcasing cutting-edge research and interdisciplinary collaborations. It offers a platform for experts, industry leaders, and students nationwide to exchange knowledge, network, and collaborate. ORA-2025 aims to inspire actionable solutions and drive progress toward a sustainable and equitable future.

