DEPARTMENT OF BIOTECHNOLOGY 2021-2022(VOLUME I)
SRI SHAKTHI INTSTITUTE OF ENGINEERING AND TECHNOLOGY

NEWSLETTER:

VISION OF THE INSTITUTION

To make the institution one of our nations great engineering schools recognized nationally and internationally for excellence in teaching, research and public service. We seek to be the preferred destination for students, practitioners seeking an engineering education, employers hiring engineering graduates and organizations seeking engineering knowledge.

MISSION OF THE INSTITUTION

To provide an encouraging environment to develop the intellectual capacity, critical thinking, creativity and problem-solving ability of the students.

VISION OF THE DEPARTMENT

To cultivate scientific and technical manpower in Biotechnology to solve various problems and challenges faced by industry and academia for the betterment of society.

MISSION OF THE DEPARTMENT

- Provide an academic environment that emphasizes critical thinking.
- Equip students with knowledge and practical skills required for the industry and academia
- Constitute Institute-Industry relationship via implant training programs and projects and establish a centre of excellence (COE) in the frontier areas of biotechnology

PROGRAMMEOUTCOMES:

Engineering Graduates will be able to:

PO1	a	Engineering knowledge: Apply the knowledge of mathematics, science, engineering, fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO2	b	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	c	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	d	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	e	Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an Understanding of the limitations.
PO6	f	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	g	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	h	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PO9	i	Individual and teamwork: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO10	j	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	k	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	l	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.

PROGRAM SPECIFIC OBJECTIVES (PSOs):

PSO1	Knowledge and hands on training to solve engineering and scientific problems.
PSO2	Ability to work in interdisciplinary areas of science and technology towards industrial and academic research applications.
PSO3	Infer the potentials and impact of biotechnological innovations for finding sustainable ethical solutions to issues pertaining to health, environment and agriculture

DEPARTMENT PROFILE LABORATORY DETAILS:

The Department of Biotechnology was established in the year 2016. The department has well qualified and supportive faculty members and a strong focus on quality teaching for the students at all levels. The department has well equipped lab facility with sophisticated instruments such as Gel Documentation, PCR, UV-VIS spectrophotometer, Ultra-sonicator. The department has highly qualified and well experienced faculty with Doctorate degree in the field of Biotechnology and they are actively engaged in research and constantly publish papers in International and National Journals. The Department regularly conducts

International Conferences and other programs for the benefit of both teaching and student community.

EVENTS:

- On 23.7.2021, Dr. N. Prabhu, Assistant Professor, Department of Biotechnology, Vivekanandha College of Engineering for Women, Tiruchengode gave Handson Training on Bio fermentor operation. He taught how bioreactor operates,what are the major steps involved in operating bioreactors, he demonstrated how each type of fermenters work. Then he made students to work on bioreactors to produce industrially important products like Single cell protein. This training helped students a lot by instilling them knowledge in the field of bioprocess technology which is very much important.

- On 03.08.2021, Genomics Dr.R.Ragunathan, Director, Centre for Bioscience & Nanoscience Research, Coimbatore – 21 came to lecture about genomics. The event starts with the welcome address by the principal and introduction about the guest. The speaker starts his speech with the

introduction of mRNA Genomics. The lecture was conducted mainly to understand the importance of genomics in our life. The guest clearly explained about the difference between genomics and genetics. He also gave many current trends happening in the field of biotechnology based on genomics. The session was very interesting and useful. The session ended with the vote of thanks by the president.

- On 18.08.2021, Ms. Florida Tilto ,Chairperson& Managing Director at Biozone ResearchTechnologies Pvt Ltd. The session starts with the Greeting of bouquet by the principal has started with a welcome gathering by the staff members of bio technology department. 90% of the students attended the Guest lecture. The speaker has started his speech with interactive by asking questions to students and then he started his speech

about Scope ofBiotechnological research in the Industrial sectors.His lecture made motivated students by making them understand how importants biotechnology is in day to life. The session ended with the vote of thanks by the HOD of the department of bio technology followed by National anthem.

- On 02.09.2021,Seminar on Digital Transformation Mr. Mohan, Project Head, Yaazh Xenomics, Coimbatore took lecture on digital tranformation. The event started with great welcome address by the principal. Most of the students attended the Guest lecture. The speaker has started his speech with the quotes and he started his speech on introduction about technological development. He talked about how digitalisation made our lives easy. The guest also gave Guest Lecture on Bioentrepreneurship. Students interrogated him with certain questions. It was an interactive and a very useful session. The session ended with Vote of Thanks by the Head of the Department followed by the National Anthem.

- On 6.10.21, Dr. T. Sengottuvel, AssociateProfessor, KMCH College of Pharmacy, Coimbatorefacilitates the gathering. The event started with the worm welcome the guest with honour of presenting a bouquet. And the welcome gathering was given by the Principal. The speaker started his speech with the great quotes and he started his speech on drug designing. The guest discussed about the principals and applications of drug desingning and its importance. Students were able to understand the need for biotechnology in the society and asked few questions. The guest answered to all the questions and gave much more details on the topic. It was an interactive and a useful session. The session ended with the Vote of Thanks by the Head of the Department followed by the National Anthem.

- On 08.12.2021,Dr. D. J. Mukesh Kumar, Principal Scientist, Avigen Biotech, Chennai took seminar about spectroscopic techniques. The session starts with the Greeting of bouquet by the principal has started with

a welcome gathering by the staff members of bio technology department. 90% of the students attended the Guest lecture. The speaker has started his speech with interactive by asking questions to students and then he started his speech about the applications of spectroscopy in analysing the samples. He briefly explained the process involved and the principal mechanism behind the technique. The session ended with the vote of thanks by the HOD of the department of bio technology followed by National anthem.

WEBINAR ACTIVITIES:

- On 05/10/2021, Dr. Jikku Jose from Scire science Research and Laboratory, Kerala facilitates the gathering. This event started with the welcome address by the HOD Of the Bio technology department. Followed by the Guest Introduction 80% of Biotechnology students has attended the Guest lecture. The Guest started his speech with the introduction of startup companies. The webinar was about learn startup and minimum viable products. She was explaining many functions and advances in bio technology which was very useful and the students to came to many things from his speech it was more interactive and interesting section at last of the section the students came to many thing from his speech which was very useful to the students in future use and finally . The session was ended with the vote of thanks by the staff members of the department followed by National anthem.

SRI SHAKTHI

INSTITUTE OF ENGINEERING AND TECHNOLOGY
(An Autonomous Institution)
L&T By pass, Chinniyampalayam, Coimbatore - 62

DEPARTMENT OF BIOTECHNOLOGY
organizes

Webinar on "Learn startup and minimum viable products"

Dr.Jikku Jose
Scire Science Research & Laboratory, Kerala

Chairman
Dr. S. Thangavelu
SIET

Joint Secretary
Mr. Sheelan Thangavelu
SIET

Dean Academic
Dr. S. Prakash
SIET

Secretary
Er. Dheepan Thangavelu,
SIET

Principal
Dr. A. R. Ravikumar
SIET

HoD
Ms. M. Sujitha
SIET

Co-ordinator
Mrs.Divya Nair
SIET

Zoom Id: 6362384467
Password: 3426

DATE: 05/10/2021

TIME: 02:30- 3.30 PM

FACULTY PROFILE:

Faculty Name Qualification Designation

Dr. Shipa Joy	M. Tech & PhD	Professor
Dr. J. Bindhu	M. Tech & PhD	Associate Professor
Dr. R.Arthe	MS(by research) & PhD	Assistant Professor
Mrs. S. Lakshmi Prabha	M. Tech	Assistant Professor
Mr. S. Vishnu	M. Tech	Assistant Professor
Mrs. T. Chitra Devi	M. Tech	Assistant Professor
Mr. M. A. K. Kalirajan	M. Tech	Assistant Professor
Mr. S. Gabriel	M. Tech	Assistant Professor
Ms. Divya Nair	M. Tech	Assistant Professor
Ms. D. Anitha Shree	M. Tech	Assistant Professor
Mrs.G.Srisugumathi	M. Tech	Assistant Professor
Ms. Sri Thatchayani	M. Tech	Assistant Professor
Ms. Broony Maria Tency	M. Tech	Assistant Professor
Dr. S. Vignesh Raj	M. Tech & PhD	Associate Professor
Dr.Peerzada Jeelani	M. Tech&PhD	Assistant Professor
Mrs.J.Srimathi devi	M. Tech&PhD	Assistant Professor
Ms.K.Geethanjali	M.Tech	Assistant Professor

ASSOCIATION MEMBERS:

K. Sathish

(PRESIDENT)

P. Kapisa

(VICE PRESIDENT)

Ashwath. R

(TREASURER)

Rupa. R

(VICE TREASURER)

Kaviya. T. S

Monish Kumar. K

Subhashini. B

Sangameshwaran. R

STUDENT PARTICIPATION:

S.no	Date	Name of Student	Name of the Event	Place	Topic	Prize/ Participation
1.	26/07/2021 TO 28/07/2021	BHAGYALAKSHMI MANIKANDAN	INTERNATIONAL WEBINAR	MADRAS CHRISTIAN COLLEGE	INDUSTRIAL INNOVATIONS AND ENTREPRENEURS HIP OPPOURTUNITIES IN ALGAL BIOTECHNOLOGY	Participation
2.	30/07/2021	BHAGYALAKSHMI MANIKANDAN	WEBINAR	ONLINE	ALLERGEN MANAGEMENT IN FOOD PROCESSING	Participation
3.	17/07/2021	BHAGYALAKSHMI MANIKANDAN	WEBINAR	ONLINE	ANTIRETROVIRAL THERAPY	Participation
4.	17/07/2021	BHAGYALAKSHMI MANIKANDAN	WORKSHOP	SATHYABAMA INSTITUTE	FIND YOUR MUTATED ANCESTORS	Participation