DEPARTMENT OF BIOTECHNOLOGY **2020-2021 (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

PROGRAMME OUTCOMES:

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 26.08.20 Dr. Sushil Kumar Upadhyay, is working as Assistant Professor in the Department of Biotechnology, Maharishi Markandeshwar (Deemed to be University), Mullana- Ambala, Haryana facilitates his speech. The seminar starts with the welcome address and the guest gave introduction about Recent research in Biotechnology. Then he discussed about the Recent Trends in Biotechnology. The session clearly gave idea to the students to choose their department in Biotechnology which is in recent trend. The seminar was very interactive and useful for the students. The session ends with the vote of thanks by the Genmatics association President.

- On 08.09.20, Prof. Girija Kothari, Biology, Department, Seneca College, Toronto. The event starts with the welcome address by the principal and introduction about the guest. The speaker starts his speech with the introduction about protein. The webinar was conducted on the topic Engineering Proteins of biotechnology. The guest clearly explained about the protein structure, types, and also the modifications. The session was very interesting and useful. The webinar ends with the vote of thanks by the president.

- On 15.10.20, Dr. Manjunatha, Assistant Professor, Sri Siddhartha Institute of Technology, Karnataka. 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. 80% of the students has been attended the Guest lecture. The speaker has started his speech with interactive by asking the question and then he started his speech about Bioinformatics Advances. He also explained about the Artificial Intelligence (AI) techniques and the session was very interactive with the students. The session ended with the vote of thanks by the HOD of the department of bio technology followed by National anthem.

- On 11.11.20, Dr. R. Jayachandran, Associate Professor, Department of Botany, St. Joseph's College, Trichy. The event started with great welcome address by the principal.90% of the students has been attended the Guest lecture. The speaker has started his speech with the quotes and he started his speech on introduction about Entrepreneurial studies. 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 27.12.20, Dr. Robert B. Best, Section Chief: Computational Biophysics Section, Laboratory of Chemical Physics, NIDDK, USA facilitates 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. 80% of the students has been attended the Guest lecture. The speaker has been

started his speech with the great quotes and he started his speech on Proteomics. The guest discussed about the protein structure assembles 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.

FACULTY PROFILE:

Dr. Shilpa Joy	M. Tech & PhD	Professor
Dr. J. Bindhu	M. Tech & PhD	Associate Professor
Dr. R. Kannan	M. Tech & PhD	Associate Professor
Dr. K. Vasanthraj	M. Tech & PhD	Associate 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. M. Sujitha	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

ASSOCIATION MEMBERS:

S. Gautham Siddharth

(PRESIDENT)

V. S. Prithika

(VICE PRESIDENT)

Necthra. K

(TREASURER)

Bhavanisha Rithiga. S

(VICE TREASURER)

Shrihastini. V

Meshach Sharan J

Harish. G. S

Akassh. V. S

STUDENT PARTICIPATION:

S.no	Date	Name of Student	Name of the Event	Place	Organized by	Prize/ Participation
1.	12.03.2021	Bhagyalakshmi Manikandan	IIEA 2021	Online	Department of Biotechnology	Participation
2.	26.07.2021 28.07.2021	Bhagyalakshmi Manikandan	International Webinar International Inovations and Entrepreneurship in Algal Biotechnology	Online	Department of Biotechnology	Participation
3.	13.01.2020	Janu Priya.S	Siddha Polyherbal Formulation	Amman Aranga m, Chennai	Ministry of Ayush	Agathiyar Award/Poster Presentation
4.	30.05.2020	Bruce Joshua	Tamilnadu Student Innovatores Program	Anna University	Enrerpreneur Development and Innovation Institute	Participation/ Cash Award of Rs.10,000
5.	30.05.2020	Elizabeth Angel	Tamilnadu Student	Anna University	Enrerpreneur Developme	Participation/

			Innovatores Program		nt and Innovation Institute	Cash Award of Rs.10,000
6.	30.05.2020	Bharath Kumar	Tamilnadu Student Innovatores Program	Anna University	Enrerprenur Developmnt and Innovation Institute	Participatin/ Cash Award of Rs.10,000
7.	01.06.2020 03.06.2020	Avanish.K	Currenty Innovation and Future of Therapeutics Developments	VIT	Centre for Biomaterial Cellular and Molecular Theragnosic	Participatin in Indo UK Virtual Conference
8.	20.06.2020	Ramachandra Dilip	CRISPR BASIC	Online	Department of Biotechnology Bioinfomatics	Participation

SPORTS ACHIEVEMENT:

	Name of the students	Year	Dept	Decipline	AU Zone	AU I Zone	State	National / inter university	CENTIES	COVAI TIES	OPEN TROPY
	NANDHINI.P	III	BT	Ball Badmintion	Gold						
	GOWSALYA.P	III	BT	Ball Badmintion	Gold						
	P.Nandhini	III	BT	Badminton-w	Second						
	M.Deepak	IV	BT	Tennis - M	Third						
	Vibavarshini.K	III	BT	Chess-w	Third						
	A.Vignesh	III	BT	Hockey - M					Second		Winners
	T.harisudhan	III	BT	Hockey - M					Second		Winners


CITC
147
CITC
148