



Sri Srinivasa Educational & Charitable Trust
SAPTHAGIRI COLLEGE OF ENGINEERING
NAAC "A" Accredited
(Affiliated to VTU, Belagavi, and Recognized by AICTE, New Delhi) (IAO9001-2015 and ISO14001-2015 certified institute)
14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057

June-2023

Department of Biotechnology

ANVESHANA

INSPIRING YOUNG MINDS....

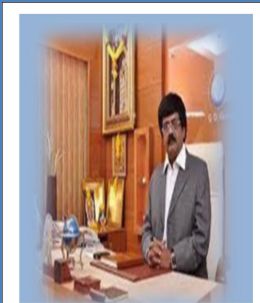


Vision

- To be a center of excellence in the field of biotechnology equipped to create technically strong, ethically, morally strong global man power that endeavor for the welfare of mankind.

Mission

- To impart innovative and value-added teaching with high research aptitude to forge connection between academia and industry.
- To create awareness towards sustainable socio-ethical and environmental implication of potentials of biotechnology.
- To develop new generation scholars and entrepreneurs in the field of biotechnology to be instrumental in economic growth of the country.



Sri G. Dayanand [Chairman]

The “ANVESHANA – inspiring young minds” newsletter of the department of Biotechnology is providing great space for the students and faculty to pen down their innovative ideas, imagination and perceptions to show case creativity. So, I take the opportunity to congratulate the Department of Biotechnology and its editorial team to successful release of this issue. I am sure that students and faculty will find the content of this edition very interesting and educating.



Sri G. D. Manoj [Managing Director]

I am indeed happy to share that department of Biotechnology is having its bi-annual newsletter “ANVESHANA – inspiring young minds” from 2012. I personally urge all faculty members and students of the department to make use of the platform to share and educate among themselves in publishing article pertaining to the emerging domain and interesting facts. I congratulate the team of Biotechnology editorial committee.



Dr. H. Ramakrishna [Principal]

It gives me immense pleasure to note that, SCE has been publishing bi-annual newsletter and I am sure, this will provide an opportunity for the faculty and students to share their knowledge and beacon the information about various issues and activities that are being taking place in the department. I look forward for more activities and achievements for the department to march towards excellence in the future. I would like to thank all teaching, supporting staff and our beloved students for their active participation in publishing this magazine. My special compliments and congratulation to the editorial team of the department for their consistent effort in publishing this newsletter.



Dr. Veena S. More [HOD]

It is immensely gratifying to note that our students and faculty members have created a platform to express their scientific and artistic talents through the newsletter “ANVESHANA – inspiring young minds”. This type of newsletters are very much necessary for an educational institution to keep pace with the latest trends and to promote creative thinking and innovative abilities of students. The combination of experienced staff and enthusiastic students will take this newsletter to the new heights. On this occasion, I would like to place a special word of appreciation for my dear students and the staff whose untiring efforts have made it possible to bring out this informative newsletter and wish them good luck.

GLIMPS OF TECHNICAL EVENTS



Expert Talk: “Programming languages for jobs and Future” January 2023



Industrial Visit: Jindal Nature Care Institute, Bengaluru, February 2023



Expert Talk: Entrepreneurship Skills, Attitude And Behavior Development, February 2023



Alumini Talk: Skill Set and Career Opportunity in Biotech Industry, April 2023



Hands on training workshop: “CRISPR/CAS Gene Editing: potential Tool in Therapy and Diagnostics” May 2023



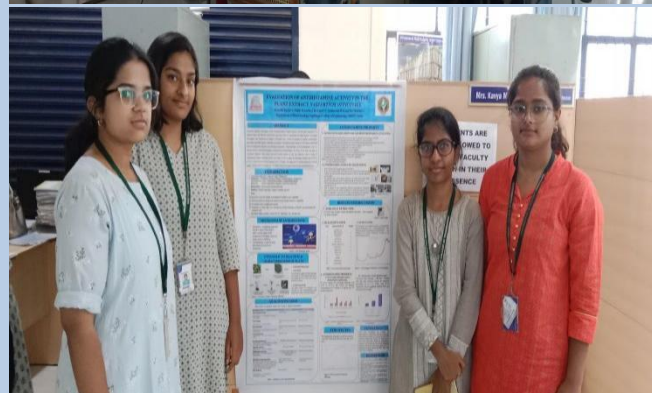
Industrial Visit: Patent Cell, IISc, May 2023

SKILL DEVELOPMENT ACTIVITIES



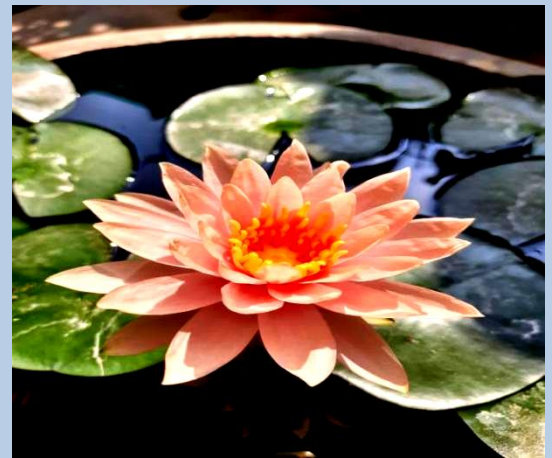
Project Exhibition, January 2023

Social Connect and Responsibility: Food Walk, March 2023

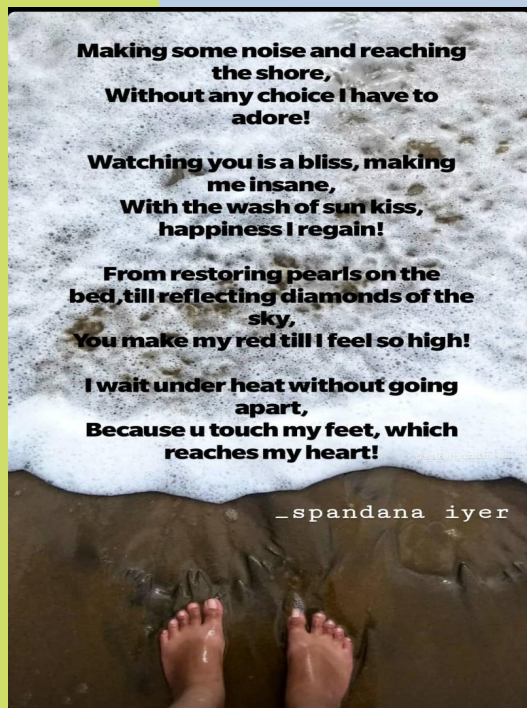


Project Exhibition 8th Sem, May 2023

CREATIVE CORNER



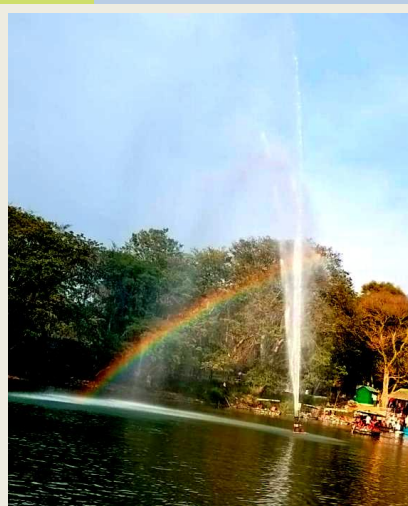
Vaidurya Keerthi,
(4th Sem, USN: 1SG21BT041)



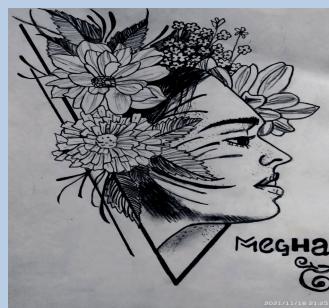
Aishwarya B L, 4th Sem
USN: 1SG20BT003



Soukarya Raha, 8th Sem USN:
1SG19BT033



Meghashree D, (8th Sem,
USN: 1SG21BT041)



Meghashree D, (8th Sem, USN:
1SG21BT041)



Soukarya Raha, 8th Sem
USN: 1SG19BT033

PUBLICATIONS

1. **Veena S. More**, Inhibition of LDL Oxidation and Foam Cell Development of Tannin Methanol Extract from Citrus limon and Honey Formulation on Cell lines. Pharmacogn Res. ; 14(2):158-165, April, 2022
2. **Veena S. More**, Production and Purification of Pectinase from Bacillus subtilis 15A-B92 and Its Biotechnological Applications. Molecules 2022, 27, 4195, June 2022
3. **Veena S. More**, Arbuscular mycorrhizae, a treasured symbiont to agriculture. New and Future Developments in Microbial Biotechnology and Bioengineering, 45-62, 2022 ISBN: 978-0-323-85163-3
4. **Veena S. More**, Extremophiles for sustainable agriculture. New and Future Developments in Microbial Biotechnology and Bioengineering. 243-264. 2022. ISBN: 978-0-323-855778.
5. **Allwin Ebinesar/ Dr. Veena S. More**. Biosorption of Heavy Metals and Metal-Complexed Dyes Under the Influence of Various Physicochemical Parameters. Biotechnology for Zero Waste: Emerging Waste Management Techniques, Print ISBN: 978-3-527-34898-5 ePDF ISBN: 978-3-527-83205-7 ePub ISBN: 978-3-527-83207-1 eBook ISBN: 978-3-527-83206-4. 189-205. March, 2022.
6. **Veena S. More/ Dr. Allwin Ebinesar**. Bioremediation of Pesticides Containing Soil and Water, Biotechnology for Zero Waste: Emerging Waste Management Techniques, Biotechnology for Zero Waste: Emerging Waste Management Techniques, Print ISBN: 978-3-527-34898-5 ePDF ISBN: 978-3-527-83205-7 ePub ISBN: 978-3-527-83207-1 eBook ISBN: 978-3-527-83206-4. 83-94. March, 2022.
7. **Veena S. More**, Biotechnological Application of Extremophilic Fungi. Extremophilic Fungi, Ecology, Physiology & Application. 315-345. ISBN 978-981-16-4906-6 ISBN 978-981-16-4907-3 (eBooks). April 2022.
8. **Veena S. More**. Extremophilic Fungal Xylanases: Screening, Purification, Assay, and Applications. Extremophilic Fungi, Ecology, Physiology & Applications. 367-393. ISBN 978-981-16-4906-6 ISBN 978-981-16-4907-3 (eBook). April 2022.
9. **Veena S. More**. Fungal Extremozymes in Green Chemistry. Extremophilic Fungi, Ecology, Physiology & Applications. 683-707. ISBN 978-981-16-4906-6 ISBN 978-981-16-4907-3 (eBook). April 2022.
10. **Veena S. More**. Molecular adaptations in proteins and enzymes produced by extremophilic microorganisms. Extremozymes and their Industrial Applications. 205-230. ISBN 978-0-323-90274-8. 2022

STUDENT ACHIEVEMENT SECTION



Niranjan and Team, 5th Sem Students, Won 1st Place in Group Dance, Organized by Gopalan College of Engineering



Niranjan and Team, 5th Sem Students, has actively participated in Group Dance, Organized by RR Institutions

PROGRAM SPECIFIC OUTCOME

1. Acquire exhaustive knowledge of theoretical and practical aspects in biotechnology
2. Apply the accomplished skills and modern tools to obtain sustainable solutions to complex problems.
3. Decipher the interdisciplinary skills of biotechnology to address the different ethical, legal and social issues in Biotechnology.

Chief Editor:

Dr. Veena S More

Professor and HOD
Department of Biotechnology
Sapthagiri College of Engineering

Associate Editors:

Dr. Chaitra B S

Assistant Professor
Department of Biotechnology
Sapthagiri College of Engineering

PROGRAM EDUCATIONAL OUTCOME:

1. **PEO1 (Preparation):** Students will endure higher education with harmonious combination of the knowledge of engineering, management & life science for global employability.
2. **PEO2 (Core competence):** Students will solve problems of biotechnology and utilize the acquired knowledge to develop biological processes and biotechniques.
3. **PEO3 (Professionalism):** Students will be skilled in different sectors of Biotechnology with high proficiency in multidisciplinary tasking.
4. **PEO4 (Learning Environment & Socialism):** Students will inculcate Socio-ethical values, team spirit for lifelong learning and well-being of society and mankind.

Student Members (8th, 6th and 4th Sem)

**Namitha
Aastha Roy
Suraj Pratap Singh
Vaishnavi
Vaidurya Keerthi
Manjesh Gowda**