



VIVEKANANDHA COLLEGE OF ENGINEERING FOR WOMEN

Approved by AICTE, New Delhi, Affiliated to
Anna University, Chennai & Accredited by
NAAC and NBA Tier - 1 (CSE, ECE, EEE, IT & BT),
Elayampalayam - 637 205,
TIRUCHENGODE, Namakkal Dt.

NEWSLETTER DEPARTMENT OF BIOTECHNOLOGY

ISSUE NO. 13
Dec 2022



Editorial Team



Dr. S. CHOZHAVENDHAN
PROFESSOR AND HEAD
BIOTECHNOLOGY

Mrs. P. ANBARASI
ASSISTANT PROFESSOR
BIOTECHNOLOGY



Student Editorial Team



B. VIJAYAMBIKA
III YEAR (2021-2025)
BIOTECHNOLOGY



K.M. AMERDHAVARSINE
III YEAR (2021-2025)
BIOTECHNOLOGY

PRINCIPAL'S MESSAGE

"BEHIND EVERY GOOD INSTITUTE
THERE IS A GOOD PRINCIPAL"

*Education is not the preparation for life;
Education is life itself*

I sanctify this prospect with delightful welcome on behalf of Vivekanandha College of Engineering for Women, to explore the multidimensional facts of our Institution. It's an endeavour to exchange the information on our best practices, achievements & deeds with the academic fraternity and it ensures our women students have empowered as per the standards of globalization. VCEW has made all efforts towards the core areas of excellence in Engineering and Technology along with facilitating research efforts. Our vision is to make innovation as the basic theme of engineering education and the synergic effort will make our students globally competitive with full potentiality of women empowerment exclusively and make self dependent and competent to the global challenges. We strongly believe the quality education which will make our students transform themselves into a knowledge puddle for the development of our country. Our strengths are best evidenced by state-of-the art infrastructure, high quality students and well qualified faculty. A woman is the full circle, where the power is to create, nurture and transform... It is been preserving the excellence as a continuous process and in pursuit of which the institute has made deep forays into contributing world renowned women technocrats, successful women entrepreneurs, competent women leaders, innovative women scientists and researchers' look forward to welcoming you to Vivekanandha College of Engineering for Women for experiencing real Women Empowerment.



Dr.K.C.K.VIJAYAKUMAR
B.E., M.E. Ph.D., MIE..
Principal, VCEW

Inside this issue

1 | **Principal message**

2 | **Vision & Mission**

3 | **Program Outcome**

6 | **Association Activity**

7 | **Funds Received**

8 | **Student Activity
& Alumni Interaction**

17 | **Faculty members
Participation**

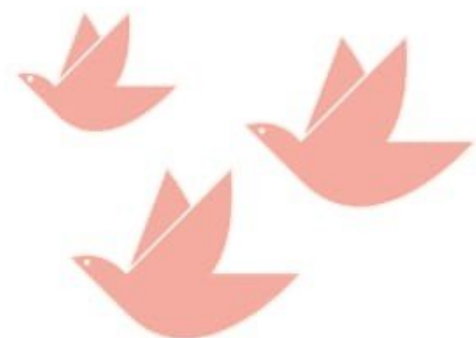
20 | **Faculty Publication &
Patent**

23 | **Placed student details**



To nourish the world of Technology & research with highly skilled women Biotechnologists to invent, innovate and disseminate the knowledge for the benefit of society & environment.

- To create excellent prospects for multifaceted bioengineering exercise and research in biotechnology.
- To produce tailored human resource to drive innovative biotechnological processes.
- To disseminate the knowledge in upcoming opportunities evolving sustainable entrepreneurship and research in the field of biotechnology for present and future.



BIOTECHNOLOGY PROGRAM OUTCOMES

<p>PO1</p>	<p>Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.</p>
<p>PO2</p>	<p>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.</p>
<p>PO3</p>	<p>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</p>
<p>PO4</p>	<p>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.</p>
<p>PO5</p>	<p>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.</p>
<p>PO6</p>	<p>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.</p>
<p>PO7</p>	<p>Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge and need for sustainable development.</p>

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.

PROGRAM EDUCATIONAL OBJECTIVES

The Graduants of Biotechnology have

PE01	The ability to provide the students with a solid foundation and the ability to apply mathematics, science in Biotechnology and to analyze data and technical concepts for application in Quality assurance and enabling placements/higher education.
PE02	An ability to inculcate the professional and ethical attitudes, effective communication skills, team work skills, multidisciplinary approach among the students and an ability to relate environmental issues in broader social context.



PE03	To provide with an excellent training to enhance the core profession career in the field of agriculture, pharmaceuticals, biochemical, food tech and other allied biosciences.
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**PROGRAM
SPECIFIC OUTCOMES**

The Graduates of biotechnology will be able to

PS01	Demonstrate expertise in basic sciences and foundation courses.
PS02	Demonstrate a working knowledge of advanced biological sciences
PS03	Demonstrate competence in application of engineering principles to biological systems.



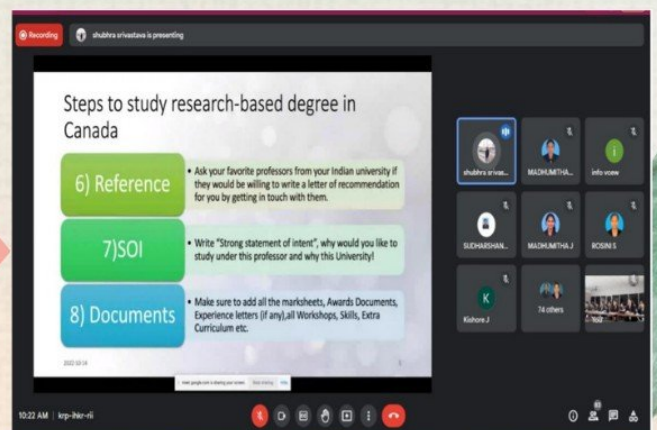
ASSOCIATION ACTIVITY

Mr.S.KARTHI

Assistant Manager, Quality control,
S.V. Intermediate delivered a talk on the
topic of "Career Guidance" in Association
inauguration- ORIGENE-2022 on
22/9/2022



**M.SHUBURA, A.WILLIAM JOHNSON,
& J. SIVARAMKRISHNAN**
they delivered talk in international
webinar on the topic of
"Multidisciplinary Approaches in
Biotechnology" on 15/10/2022



SIVASANKAR & RAMYA
Founder & Co-founder Dynamic
Megaceutics conducted
value added course on the topic of
"Algal for Future and Bioautomation"
from 17/10/2022 to 21/10/2022



FUNDS RECEIVED

**Total no.of project proposal
applied for TNSCST : 20 project**

27/08/2022

M.BHAVYA

has received ₹ 10000 fund in the title
"Biodegradation of Tannin contaminants
in tannery effluent using tannase from
newly isolated microorganisms" guided by
Dr.N.Prabhu

25/08/2022

K.K.NIVETHITHA, S.GOWSIKA

has received ₹ 10000 fund in the title
"Preservation of Emoki mushroom using
osmotic dehydration to prevent the
growth of *L.monocytogenes*" guided by
Dr.M.Sethu.

STUDENT ACTIVITY AND PARTICIPATION

22/06/2022

S.KAVYA and G.PRIYANKA
of final year attended the webinar
"Multiomics data generation from
neurological samples"
Symbiosis Institute of Digital And
Telecom Management

8/07/2022

A.V.RITHIKA and R.KIRUTHIKA DEVI
of final year undergone Training
"Biopython Training"
Spoken tutorial project at IIT Bombay

**13/07/2022-
26/07/2022**

S.NISHA ,V.SHRUTHI and K.RAJEEVY
of final year undergone Internship
"Biosynthesis & biomedical application of nanoparticles"
Trichy Research of Biotechnology

**11/07/2022-
22/07/2022**

M.MOUNIKA,S.KAVYA and G.PRIYANKA
of final year undergone Internship
"Molecular biology techniques"
Trichy Research of Biotechnology

**04/07/2022-
19/07/2022**

**G.CHARUMATHI, K.K.NIVETHITHA,
V.SUWATHI and S.YASOTHAI**
of final year undergone Internship
"Agricultural and environmental biotechnology
products"
Elies Biotech

**11/07/2022-
23/07/2022**

M.BAVYA and B.VANDHANA
of final year undergone Internship
"Immunotechnology"
Fortuniac Biotech

**11/07/22-
25/07/22**

**N.HIRITHA, R.EZHILARASI and
M.JENNITA SHARMI**
of final year undergone Internship in the title of
"Cancer Genomics"
Centre For Stem Cell and Cancer Genomics,
Ami Bioscience

**12/07/22-
01/08/22**

C.MADHUMITHA and K.NITHYA SREE
of final year undergone
Internship in the title
"EPN biopesticides, molecular characterization, rearing
of galleria mellonella larvae on artificial diet"

**12/07/22-
01/08/22**

**M.PRADEEPA, M.SUGANTHI
and N.VASAVI**
of final year undergone
Internship in the title
"Basic & molecular plant pathological technique"

**20/07/22-
04/08/22**

A.SUREJA
of final year undergone
Internship in the title
"Microplastic separation techniques from various
medium"

**21/07/22-
08/08/22**

S.MADHUMITHA and A.R.DEEPTHI NISHA
of final year undergone
Internship in the title
"Medical Cosmetics"

20/07/22

GAYATHRI D and RATHNA SREE
of third year attended the Webinar
"Role of biotechnologist in
pharma industry"
Anna University Regional Campus, Coimbatore

24/07/22

**M HEMALATHA, K DEEPIKA and
S M NANDHINI**
of third year attended the Webinar
"Protein Analysis"
Learn To Upgrade

08/07/22

**RABRI DEVI M, POOJA S,
SIVASAKTHI R, and VIDHYA SHRI S**
of third year undergone Training
"Avogadro Training"
Spoken Tutorial project, IIT Bombay

**13/07/22-
26/07/22**

S.NISHA, V.SHRUTHI, and K.RAJEEVY
of final year undergone
Internship in the title
"Biosynthesis & biomedical application of
nanoparticles"

**11/07/2022-
22/07/2022**

**M.MOUNIKA, S.KAVYA,
and G.PRIYANKA**
of final year undergone
Internship in the title
"Molecular biology techniques"

**04/07/22 -
19/07/22**

**G.CHARUMATHI, K.K.NIVETHITHA,
V.SUWATHI, and S.YASOTHAI**
of final year undergone
Internship in the title
"Agricultural and environmental biotechnology
products"

**11/07/22 -
23/07/22**

M.BHAVYA and B.VANDHANA
of final year undergone
Internship in the title
"Immunotechnology"

**11/07/22 -
25/07/22**

**N.HIRITHA, R.EZHILARASI
and M.JENNITA SHARMI**
of final year undergone
Internship in the title
"Cancer genomics "

**11/07/22 -
25/07/22**

S.LIVITHRA
of final year undergone
Internship in the title
"Medical and clinical microbiology, food industry-
quality analysis and control skills "

**04/07/22-
09/07/22**

M.ATCHAYA
of final year undergone
Internship in the title
"Microbial technology and downstream processing"

**11/07/22-
20/07/22**

**M.SHAREEN FATHIMA, M.SASMITHA,
S.MAIVIZHI and N.HEMALATHA**
of final year undergone Internship
in the title "Dairy technology"

**05/07/22 -
19/07/22**

**KARTHIKA S, MONIKHA G,
KANIYAMUDHU V, SHRUTHIKA K,
POOVITHA S,
HEMALATHA M and INDHUMATHI G**
of third year undergone
Internship in the title
"chromatography, plant tissue culture and
molecular biology techniques"

**11/07/22-
14/07/22**

**POOJA S, POOJA G,
RABRIDEVI M, JANANI SRI S,
BASKAMARY M and NIVETHA S**
of third year undergone
Internship in the title
"Algal Technology in lab and commercial scale and
its applications"

02/8/22

R. SRI MANJARI

of final year attended the Webinar
"Introduction to forensic science"
organized by Coursera

18/8/22

R. SRI MANJARI

of final year attended the Webinar
"Forensic Toxicology"
organized by Udemu

**29/9/22-
30/9/22**

R.DEVIKA and P.PRIYANKA

of second year attended
Paper presentation in the title
"Antioxidant and antimicrobial activity of lipids
extracted from *Turbinaria conoides* and associated
Aspergillus versicolor"
Paavai Institutions, Namakkal

12/09/22

**ATCHAYA M, CHARUMATHI G,
KAVYA S, KIRUTHIKADEVI R,
PRIYANKA G, SHAREEN FATHIMA M,
INDHUMATHI G, POOJA S, RATHNA SREE S,
NIVEDHITHA B, SHRUTHIKA K, HEMALATHA M,
KANIYAMUTHU V, KIRUTHIGA S, VIDHYA SREE S
and BHAVYA M**

of third and final year students
undergone Internship in the title
"Biological Science Journals"
Taylor and Francis Group

26/09/22

**KAVYA S, PRAVEENA J,
KANIYAMUDHU V and VIDHYA SREE S**

of third and final year students
attended Webinar in the title
"Mass Spectrometry"
Merk Innovation Lab

27/09/22

KAVYA S and SOMESHWARI G
of final year attended
Webinar in the title
"Climate Resilient Rice using Biodiverse resources"
Bioingene

28/09/22

**AMOKA S, PRIYANKA P, RUTHIRA P,
SHARMILA R, SWATHI S,
VASUNDARA DEVI M,
MEENA M, INDHUJA M,
THIVIJA V and HARSHINI S K**
of second year undergone
Training "Avogadro Training"
Spoken Tutorial project, IIT Bombay

22/09/22

**PRAVEENA J, RATHNA SREE S,
KANIYAMUDHU V, KIRUTHIGA S
and MADHUMITHA J**
of third year attended
Webinar in the title
"Molecular perspective SARS-CoV-2, drug target,
drug designing and research"
Paavai Engineering College

17/09/22

**PRAVEENA J, KIRUTHIGA S
and POOJA S**
of third year attended
Webinar in the title
"Career in Pharmaceutical production management"
DBT & nSDC

29/09/22

**POOJA S, BASKAMARY M
and NIVETHA S**
of third year attended
Paper presentation
"Recent Innovation in Biotechnology"
Vinayaka Missions Research Foundation

15/9/22

**SHIVANI DHARSHINI S M
and YASOTHAI S**
of final year attended Multimedia event
at "Engineer's Day" event organized by
VCEW

**17/10/22 -
21/10/22**

All the Students of final year
completed the Value Added
Course (VAC) on the title
"Basics in Biotechnological Techniques"
organized by our Biotechnology Department

15/10/22

All the Students of 2nd, 3rd & 4th Year
Attended the International Webinar
"Multidisciplinary Approaches in Biotechnology"
organized by VCEW

08/10/22

**RUTHIRA P, JANANI U S,
GAYATHRI D, PRIYADHARSHINI A R,
RATHNA SREE S S, POOJA S,
POOJA G, BASKAMARY M,
NIVETHA S, MONIKHA G, POOVITHA S,
POOVITHA S and VIDHYA SHRI S**
of final year attended the
Webinar in the title
"E-waste Management"
Organized by Narasus Sarathy
Institute of Technology

**July -Oct
2022**

KARTHIKA S
of third year has completed the
NPTEL course on
"Genome editing and engineering"

**17/10/22 -
21/10/22**

**CHARUMATHI G, SUGANTHI M,
VASAVI N, RAJEEVY K,
SHRUTHI V, VANDHANA B,
SIVARANJANI K, RITHIKA A V,
BHAVYA M, THIRULOSHNI S,
AKSHAYA T, PRASANTHI K,
SIVASAKTHI R, DEVADHARSHINI P,
RATHNA SREE S S and KALPANA S**
of final year attended
Workshop in the title
"Algal for Future and Bioautomation"

31/10/22

Second Year Students - 59 Students
went for Industrial Visit
to "VMCH"

10/11/22

SAVITHA S and KEERTHIKA M
of second year participated in
the Volleyball match at the "Zonal Tournament"
held at Narasu's Sarathy Institute of Technology.

**1/12/22 -
2/11/22**

SAVITHA S and KEERTHIKA M
of second year participated in
the Volleyball match at the
"Inter- Zonal tournament" held at
University College of Engineering

ALUMNI INTERACTION

06/04/2022

Ms. APARNA M T

Alumni Batch (2017-2021)
Episource India Private Limited, Chennai
Interacted in the title of
"Medical coding scopes and courses"

06/04/2022

Ms. PUNNIYA P NAIR

Alumni Batch (2017-2021)
Amogen Pharma Private Limited, Hyderabad
Interacted in the title of
"Scope of Biotechnology in Pharmaceutical Industry"

12/11/2022

Dr. C. NIRMALA

Alumni Batch (2002-2006)
Associate Professor, Paavai College Of Technology,
Namakkal
Interacted with all the 2nd, 3rd & 4th year students in
the title of
"Growth of Biotechnology since 2000"

FACULTY MEMBERS PARTICIPATION

**04/07/2022 –
09/07/2022**

Dr. N. PRABHU
has attended FDP titled
"Immunology"
at Kamraj College of Engineering & Technology

20/07/2022

Mrs. S. JEEVITHA & Mrs. P. ANBARASI
has attended Webinar titled
"Role of Biotechnologist in Pharma Industry"
organised by Anna University Regional Campus

31/05/2022 - 26/07/2022

**Mrs.P.ANBARASI, Mr.M.VIJAY PRADHAP SINGH
& Mrs.S.JEEVITHA**
has completed course on
"Statistical Techniques for Agriculturists" with
"Distinction"

12/09/2022

Dr. A. MUTHU KUMARA PANDIAN
has taken Seminar titled
"Biological science journals"
organised by Taylor and Francis Group.

16/09/2022

Dr. N. PRABHU
has taken seminar titled
"The exogenously driven disruption of
Bioprocessing" in Yokogawa Insilico
Biotechnology

15/09/2022 - 17/09/2022

Mr. M. VIJAY PRADHAP SINGH
has attended FDP titled
"PMO-IEDP"
at Sona College of Technology

22/09/2022

**Dr.N. PRABHU,
Dr. A. MUTHU KUMARA PANDIAN
and Dr. K. GILBERT ROSS REX**
have taken Seminar titled
"Molecular perspective SARS-CoV-2, drug
target, drug designing and research"
at Paavai Engineering College

23/09/22 -24/09/22

**Mr. M. VIJAY PRADHAP SINGH
& Ms. S. SHOBICA**
have attended on FDP titled
"Design thinking – A premiere" at
VCEW AICTE IDEA LAB

26/09/2022

Dr. N. PRABHU,
has taken seminar titled
"Mass Spectrometry: Concept, Instrumentation &
application " at Merck Innovation Lab

8/10/2022

Mrs. A. ESAITAMIL
has attended Webinar titled
"E-Waste Management"
at Narasu's Sarathy Institute of Technology

11/10/2022

Mrs. S. JEEVITHA
has attended Webinar Titled
"Evaluation of conventional pesticides to
organic nano pesticides" at Bannari Amman
Institute of Technology

13/10/2022

Dr. N. PRABHU
has attended Webinar titled
"Best Practices of Downstream Protein
Purification and Product
Concentration" by Bright talk

15/10/2022

**Dr. K. GILBERT ROSS REX
& Mrs. P. ANBARASI**
have attended Webinar titled "Multidisciplinary
Approaches in Biotechnology" at Vivekanandha
College of Engineering for Women

16/10/2022

Dr. M. SETHU
has attended Webinar titled
"Innovation Ambassador Training" at
Innovation Cell & AICTE

17/10/2022

Mr. M. VIJAY PRADHAP SINGH
has attended Webinar titled
"Innovative ideas to scholarly books and open
access in biological sciences"
in Taylor & Francis Group

17/10/2022 -21/10/2022

Dr. M. SETHU
has attended Workshop titled
"Algal for Future and Bioautomation" in
Dynamic Megaceutics

21/10/2022

Mr. M. VIJAY PRADHAP SINGH
has taken Seminar on
"Management and prevention measures to
overcome Iodine Deficiency disorder " at
VICAS in Economics Department

July to October

Mr. M. VIJAY PRADHAP SINGH
completed NPTEL course on "Fundamentals of
protein chemistry" with "60%"

August to October

Mrs. P. ANBARASI
completed NPTEL course on
"Cell Culture Technology"
with Elite (SILVER) "78%"

5/11/2022

Dr. S. CHOZHAVENDHAN
has taken Guest Lecture titled
"Overview of Fermentation Technology"
at Variyar Engineering College

24/11/2022

Dr. M.S. MANOJ KUMAR
has completed the Value Added Course on
"Biochemical Engineering" at
Arunai Engineering College

FACULTY PUBLICATION / PATENT

17/06/2022

**Mr. M. VIJAY PRADHAP SINGH &
Dr. A. MUTHU KUMARA PANDIAN**
has published Journal A Review:
" Food Fortification and their Role in Iron
Fortification International Journal Of Innovative
Research In Technology (IJIRT)"
Publication ISSN: 2349-6002 /Volume 9
Issue 1/ 1668-1673/ 2022

27/07/2022

**Dr. N. PRABHU &
Mr. M. VIJAY PRADHAP SINGH**
has Published Journal titled
"Statistical optimization of cellulase reduction and
its efficacy in hesperidin extraction from orange
peel and bioethanol production from rice straw by
simultaneous saccharification and fermentation
Research Journal of Biotechnology" Vol. 17(8) 20-31

15/07/2022

**Dr. A. MUTHU KUMARA PANDIAN ,
Mr.M.VIJAY PRADHAP SINGH ,Ms.S.KARTHIKADEVI,
& Dr. S. CHOZHAVENDHAN**
have published Book Chapter in biofuel and Bioenergy
(Elsevier) titled "Lignocellulosic biomass as an alternate
source for next generation biofuel" Pg.no: 207-221

15/07/2022

**Dr. A. MUTHU KUMARA PANDIAN,
Mr. M. VIJAY PRADHAP SINGH,
Mrs.M. RAJAMEHALA & Dr. S. CHOZHAVENDHAN**
have Published Book Chapter in biofuel and bioenergy
(Elsevier) titled "Boundaries and openings of
biorefineries towards sustainable biofuel production"
Pg.no: 3-22

19/07/2022

**Dr. A. MUTHU KUMARA PANDIAN,
Mr. M. VIJAY PRADHAP SINGH and
Dr. K. GILBERT ROSS REX**
have got Patent "Plastic Molding Machine "
Patent no:361837-004
Government of India and it has FILED

12/10/2022

Dr. S. CHOZHAVENDHAN
has published Journal titled
"Current and prognostic overview on the strategic
exploitation of anaerobic digestate: A review " on
Environmental Research Volume : 216 (2023) 114526

2022

Dr. A. MUTHU KUMARA PANDIAN
has Published Journal titled
"Synthesis of metal-based functional nanocomposite
material and its application for the elimination of
paracetamol from synthetic wastewater" on
Chemosphere Volume no:308 - 136530

2022

Dr. M.S. MANOJ KUMAR
has published Journal titled
"Phosphonium grounded ionic liquid influenced in
graphene oxide enabled to magnetic polysulfone
(GO/Fe₃O₄@PSF) for the elimination of 2,4-
Dichlorophenol" on Asian Journal of Chemistry
Vol.34,No.12 3108-3114

2022

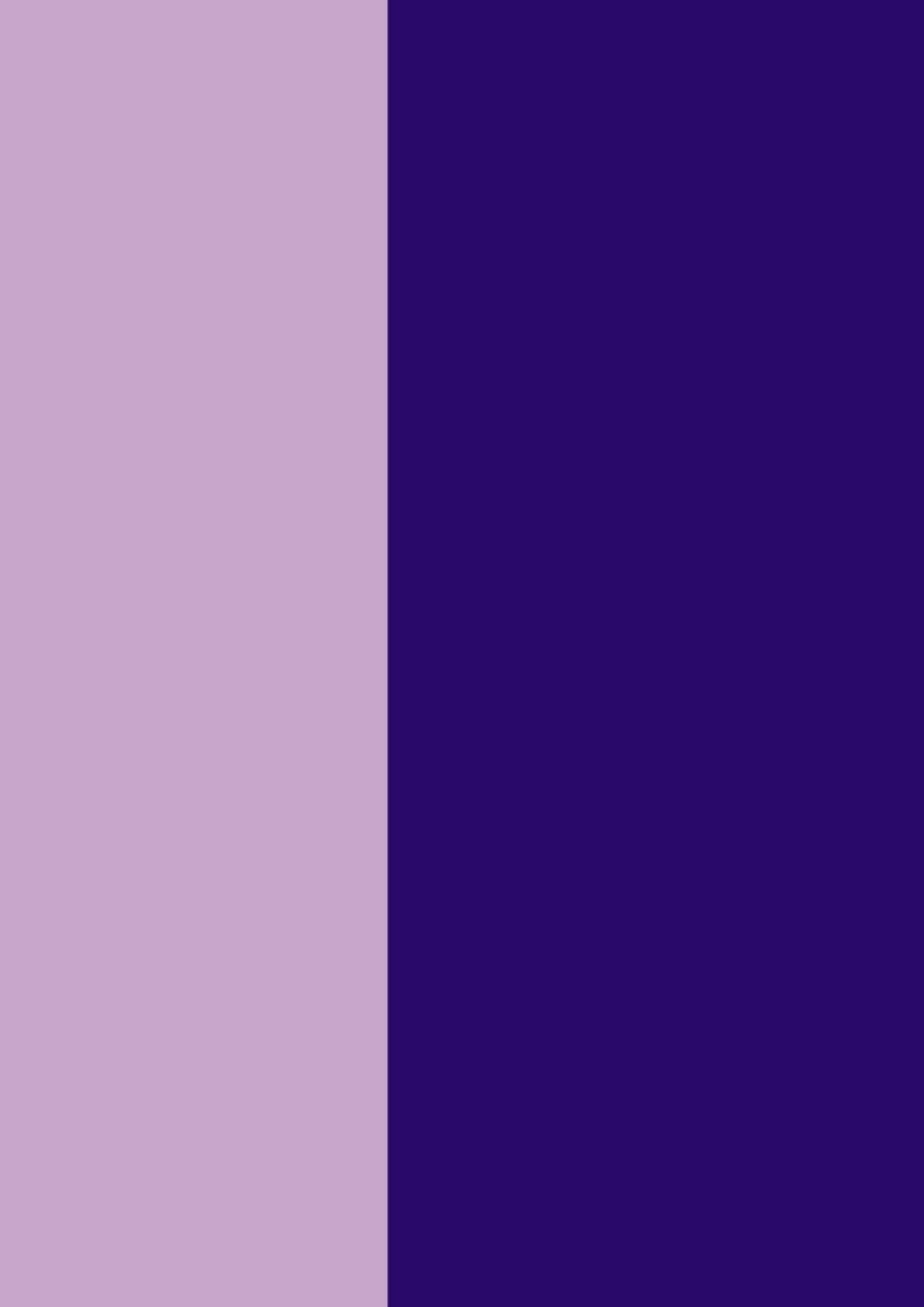
Dr. N. PRABHU
has published Journal titled
"Physical and chemical characterization of
alkaline protease from Bacillus subtilus VBC7
using agro waste as substrate" Journal of
Microbiology, Biotechnology and Food Sciences
Vol.1338-5178

2022

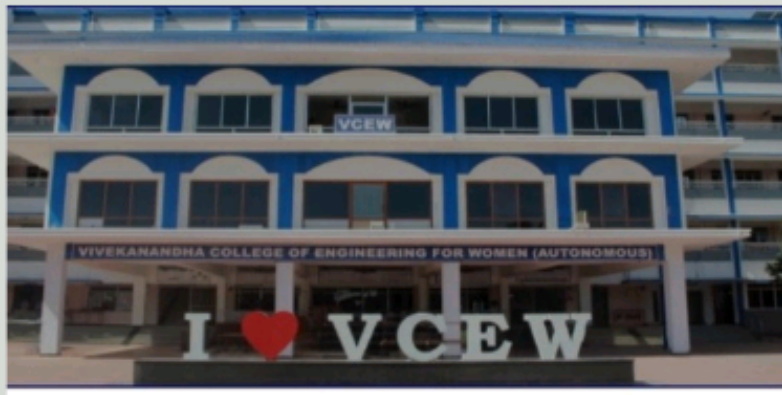
Dr. K. GILBERT ROSS REX
has published Journal titled
"Organophosphate Pesticide Degradation Using
Biogenic Zinc Oxide Nanoparticles" Journal of
Science and Technology 2456-5660 Volume 7,
Issue 09

PLACED STUDENT DETAILS

S.NO	Company Name	Name of the placed student
1.	ZIFO Rn&D solutions Chennai	C.Madhumitha
2.	Dynamic Megaceutics Chennai	S.Madhumitha, V.Shnethi, S.Kalpana R.Sudharshana, S.Gowsika
3.	TCS	K.Nithya sree M.Shareen Fathima
4.	CTS	G.Priyanka, M.Bhavya, J.Madhumitha , S.Thiruloshni, K.Nithya Sree, A.Sowmiya, S.Nisha
5.	Domex E data private limited	G.Someshwari



NEWS LETTER



VIVEKANANDHA COLLEGE OF ENGINEERING FOR WOMEN (Autonomous)

Approved by AICTE, New Delhi, Affiliated to
Anna University, Chennai & Accredited by
NAAC and NBA Tier - 1 (CSE, EEE, IT & BT),

**Elayampalayam - 637 205, Tiruchengode,
Namakkal Dt.**



DEPARTMENT OF BIOTECHNOLOGY

ISSUE NO :14

MAY 2023

EDITORIAL TEAM



Dr. S. CHOZHAVENDHAN
Head of the Department,
Biotechnology.



Mrs. P. ANBARASI
Assistant Professor,
Biotechnology.

STUDENT EDITORIAL TEAM



Ms. N. RANJANI
III year Student(2021-2025)
Biotechnology



Ms. D. MOHANAPRIYA
III year Student(2021-2025)
Biotechnology





CONTENT

INSIDE THE ISSUE

Principal's Message	3
College Vision & Mission	4
Department Vision & Mission	5
Program Outcomes	6
Association Activities	10
Student's Activities & Participation	11
Student's Publication	16
Faculty's Participation	16
Faculty's Publication	19
Gallery	20
Placed Students	21



PRINCIPAL 'S MESSAGE



Education is not the preparation for life; Education is life itself

I sanctify this prospect with delightful welcome on behalf of Vivekanandha College of Engineering for Women, to explore the multidimensional facets of our Institution. It's an endeavour to exchange the information on our best practices, achievements & deeds with the academic fraternity and it ensures our women students have empowered as per the standards of globalization. VCEW has made all efforts towards the core areas of excellence in Engineering and Technology along with facilitating research efforts. Our vision is to make innovation as the basic theme of engineering education and the synergic effort will make our students globally competitive with full potentiality of women empowerment exclusively and make self dependent and competent to the global challenges. We strongly believe the quality education which will make our students transform themselves into a knowledge puddle for the development of our country. Our strengths are best evidenced by state-of-the art infrastructure, high quality students and well qualified faculty. A woman is the full circle, where the power is to create, nurture and transform. It is been preserving the excellence as a continuous process and in pursuit of which the institute has made deep forays into contributing world renowned women technocrats, successful women entrepreneurs, competent women leaders, innovative women scientists and researchers' look forward to welcoming you to Vivekanandha College of Engineering for Women for experiencing real Women Empowerment.





COLLEGE VISION

To impart value based education in Engineering and Technology to empower young women to meet the societal exigency with a global outlook.

COLLEGE MISSION

- To provide holistic education through innovative teaching-learning practices
- To instill self confidence among rural students by supplementing with co-curricular and extra-curricular activities
- To inculcate the spirit of innovation through training, research and development
- To provide industrial exposure to meet the global challenges
- To create an environment for continual progress through lifelong learning





DEPARTMENT VISION

To nourish the world of Technology & research with highly skilled women Biotechnologists to invent, innovate and disseminate the knowledge for the benefit of society & environment.

DEPARTMENT MISSION

- To create excellent prospects for multifaceted bioengineering exercise and research in biotechnology.
- To produce tailored human resource to drive innovative biotechnological processes.
- To disseminate the knowledge in upcoming opportunities evolving sustainable entrepreneurship and research in the field of biotechnology for present and future.



BIOTECHNOLOGY PROGRAM OUTCOMES

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 ones 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.

PROGRAM EDUCATIONAL OBJECTIVES

The Graduants of Biotechnology have

PEO1

The ability to provide the students with a solid foundation and the ability to apply mathematics, science in Biotechnology and to analyze data and technical concepts for application in Quality assurance and enabling placements/higher education.

PEO2

An ability to inculcate the professional and ethical attitudes, effective communication skills, team work skills, multidisciplinary approach among the students and an ability to relate environmental issues in broader social context.

PEO3

To provide with an excellent training to enhance the core profession career in the field of agriculture, pharmaceuticals, biochemical, food tech and other allied biosciences.





PROGRAM SPECIFIC OUTCOMES

The Graduants of Biotechnology will be able to

PSO1

Demonstrate expertise in basic sciences and foundation courses.

PSO2

Demonstrate a working knowledge of advanced biological sciences

PSO3

Demonstrate competence in application of engineering principles to biological systems.



ASSOCIATION ACTIVITIES

09-01-2023

R. Karthick Hari Mathan

Senior scientist, Biocon Research Limited, Bangalore. delivered a talk on
"Primitive Applications Of HPLC In Pharmaceutical Industry "
With Second, third and final year students.

09-02-2023

P. Farzana

Senior Executive,
Biocon Research Limited, Bangalore .delivered a talk on
"Production process of monoclonal antibodies and overview of GMP "
With Second, third and final year students.

09-03-2023

R. Praveen Kumar

Managing Director , Institution of Innovation (MSME), Thiruvannamalai,
"National Level Technical Symposium (Zenomex- 2K23) "
With Second, third and final year students.

04-03-2023

Genov club

I. Titus

Asst prof, Dept of CSE, Karunya Institute of technology
and science, delivered a talk on
"Emerging Interdisciplinary research possibilities with Biotechnology"
With Second, third and final year students.

20-04-2023

Department Association valedictory function

J. Manoj

Territory manager, Hyclone life sciences, Private limited, Bangalore. Interact
with Second, third and final year students.



STUDENT ACTIVITIES AND PARTICIPATIONS

11-01-2023

Janani U.S ,
of third year has Participated in Workshop titled
"Artificial Intelligence for Computer Vision"organised by BME/VCEW.

11-01-2023

Priyadharshini A.R,
of third year has Participated in Workshop titled
"Artificial Intelligence for Computer Vision"organised by BME/VCEW.

11-01-2023

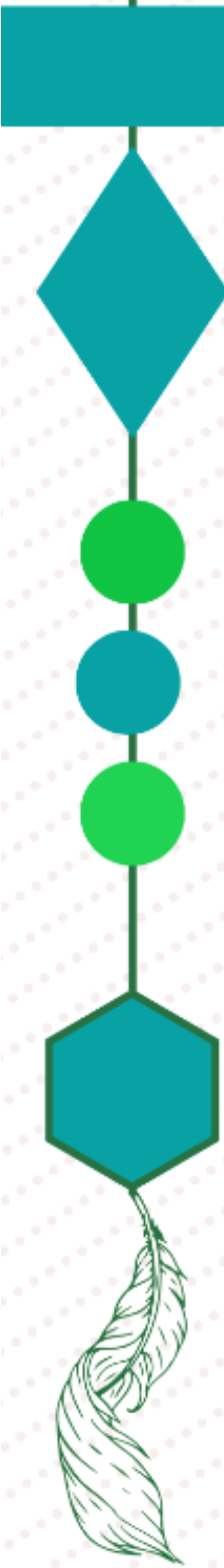
Praveena . J,
of third year has Participated in Workshop titled
"Artificial Intelligence for Computer Vision"organised by BME/VCEW.

11-01-2023

Rathna sree. S, Vidhya Shri ,
of third year has Participated in Workshop titled
"Artificial Intelligence for Computer Vision"organised by BME/VCEW.

01-02-2023-
02-02-2023

S.Suruthi,
of final year has Participated in International conference titled
"Contemporary Research For The Sustainable Development Of Biological Sciences"Vivekanandha College of Arts & Science for Women.



01-02-2023-
02-02-2023

J. Madhumitha ,
of final year has Participated in International conference titled
**"Contemporary Research For The Sustainable Development Of Biological
Sciences"**Vivekanandha College of Arts & Science for Women.

01-02-2023-
02-02-2023

M. Bhavya,
of final year has Participated in International conference titled
**"Contemporary Research For The Sustainable Development Of Biological
Sciences"**Vivekanandha College of Arts & Science for Women.

01-02-2023-
02-02-2023

G.Thangamari,
of final year has Participated in International conference titled
**"Contemporary Research For The Sustainable Development Of Biological
Sciences"**Vivekanandha College of Arts & Science for Women.

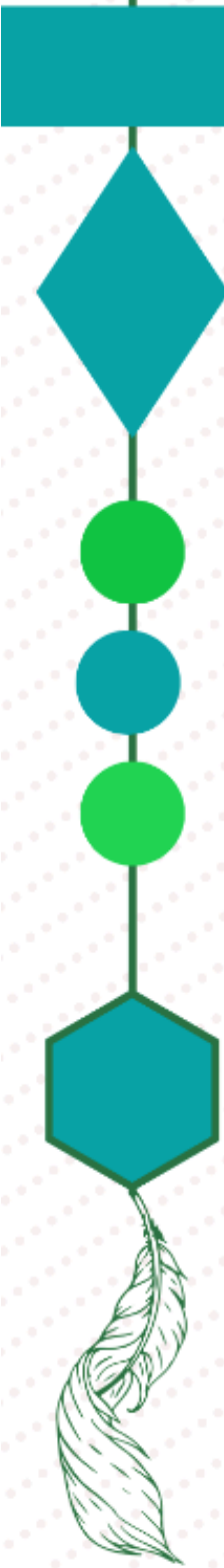
16-03-2023-
17-03-2023

M.Sasmitha ,
of final year has Participated in International conference titled
"Biotechnological solutions for sustainable development"
P.S.R Engineering College.

16-03-2023-
17-03-2023

S.Maivizhi ,
of final year has Participated in International conference titled
"Biotechnological solutions for sustainable development"
P.S.R Engineering College.





16-03-2023-
17-03-2023

M.Shareen Fathima ,
of final year has Participated in International conference titled
"Biotechnological solutions for sustainable development"
P.S.R Engineering College.

27-04-2023

B.Nivedhitha, A.Dhanusha,
of third year has Participated in **"Symposium- Medifest 2K23
MicroBubbles"**, KSR Institute for Engineering and Technology.

28-04-2023

P. Ruthira,
of second year has Participated **"Paper presentation"**, titled on
" Biodegradation of plant using fungi "
Sri Shanmugha College of Engineering and Technology

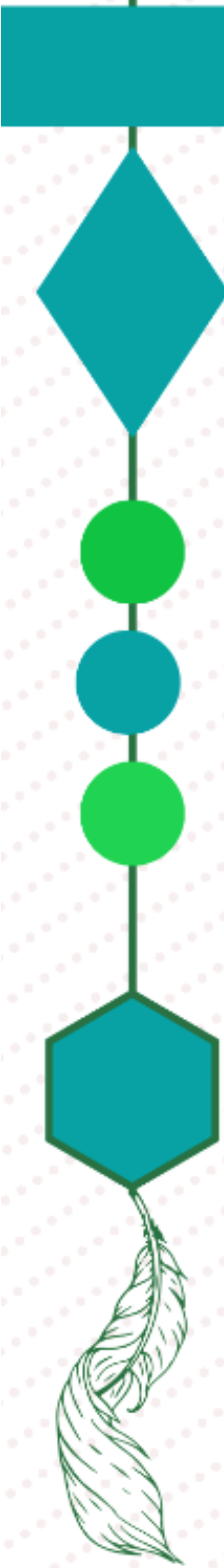
28-04-2023-
29-04-2023

V. Pavithra,
of third year has Participated in
"Sustainability Hackathon challenge 2023,"Cultured meat",
Entrepreneurship Development Institute of India, Ahmedabad.

Jan -
Feb

P. Rubinika , P.Ruthira , S.Samitha ,
of second year has Completed course on
"Human Molecular Genetics", in NPTEL .





Jan -
Feb

J.Praveena , A R Priyadharshini ,
of third year has Completed course on
"Human Molecular Genetics", in NPTEL .

Jan -
March

V.Pavithra, S.Vidhya Sri , Janani U S ,
of third year has Completed course on
"Nanotechnology in Agriculture", in NPTEL .

Jan -
March

S. Poovitha , V.Haripriya , M.Hemalatha , G. Indhumathi ,
of third year has Completed course on
"Cell Biology: Cellular Organization, Division and Process", in NPTEL .

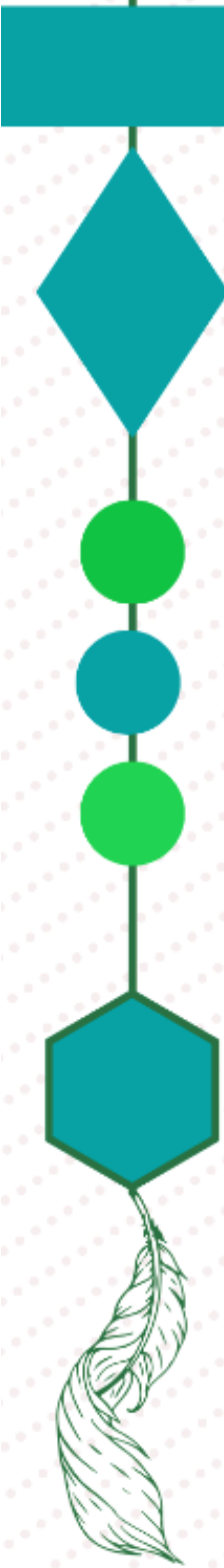
Jan -
April

S.Nivetha
of third year has Completed course on
" Applied Environmental Microbiology ", in NPTEL .

Jan -
April

K.M.Amerdhavarshine ,
of second year has Completed course on
" Basics of Biology ", with
Elite GOLD (93%)in NPTEL .





Jan -
April

B. Vijayambika ,
of second year has Completed course on
*** Basics of Biology ***, with
Elite GOLD (93%)in NPTEL .

26-01-2023-
30-01-2023

Kaniga U
of second year has participated in
*** Wearable MEMS Hands on Training for Smart Watch applications in
Health IoT ***.

26-01-2023-
30-01-2023

Shantha Roobini S K ,
of second year has participated in
*** Wearable MEMS Hands on Training for Smart Watch applications in
Health IoT ***.

26-01-2023-
30-01-2023

Dhanushya V ,
of second year has participated in
*** Wearable MEMS Hands on Training for Smart Watch applications in
Health IoT ***.

27-3- 2023-
9-3-2023

Janani U.S ,
of third year has attended
***3 day Boot Camp for TNSI-2022 *** .



STUDENT PUBLICATION IN JOURNALS / BOOKS

Feb 2023

M.Mounika, A. Sureja, M. Shareen Fathima, N.Hiritha ,
of final year has Published Book chapter titled
* **Biofertilizer from Industrial Waste Water by Microalgal Treatment
Biorefinery for Water and Wastewater Treatment**.*

Apr 2023

Shruthi.V , Rajeivy.K ,
of final year has Published a journal title
* **Biosynthesis of Zinc oxide nanoparticles using Royal poinciana leaf
extract and evaluating its biomedical potential against biological agents***,
in "Journal of Science and Technology".ISSN: 2456-5660
v8.i04.pp108 - 117

FACULTY MEMBERS PARTICIPATION

20-2-2023

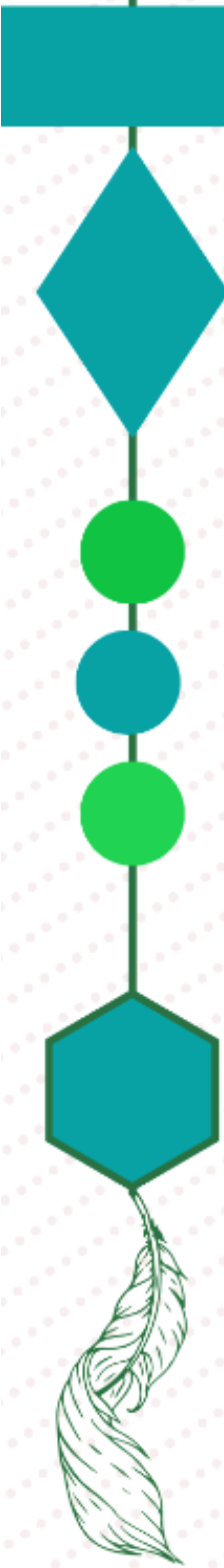
Dr.N.Prabhu ,
has attended Workshop
* **Mushroom Cultivation Technique** *, Nehru arts and science college .

16-03-2023-
17-03-2023

M. Vijay Pradhap Singh ,
has participated in International conference
* **Biotechnological solutions for sustainable development***,
P.S.R Engineering College. .

01-03-2023-
07-03-2023

Dr. S. Chozhavendan ,
has participated in Online FDP program
* **NAAC Accreditation Framework and Documentation***,
Shri Rajiv Gandhi Government College, Banda. .



01-03-2023-
07-03-2023

Dr. N. Prabhu ,
has participated in Webinar titled "**Fluorescent cell staining and microscopy cancer cell biology research**", Labroots.

01-03-2023-
07-03-2023

M. Vijay Pradhap Singh ,
has participated in Online FDP program
"**NAAC Accreditation Framework and Documentation**",
Shri Rajiv Gandhi Government College, Banda. .

11-03-2023

Rajamehala M ,
has participated in Online FDP program
"**NAAC Accreditation Framework and Documentation**",
Shri Rajiv Gandhi Government College, Banda. .

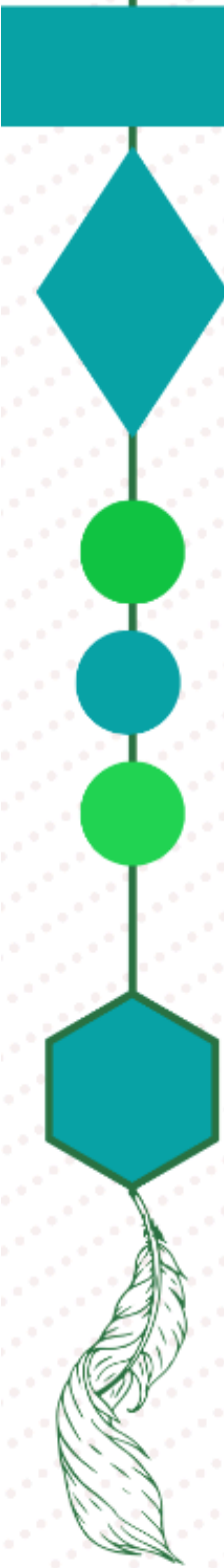
28-04-2023-
29-04-2023

S. Jeevitha ,
has participated in Webinar titled "**Proposal Writing Workshop**",
PALS.

28-04-2023-
29-04-2023

P. Anbarasi ,
has participated in Webinar titled "**Proposal Writing Workshop**",
PALS.





28-04-2023-
29-04-2023

A. Archana ,
has participated in Webinar titled "**Proposal Writing Workshop**",
PALS.

28-04-2023-
29-04-2023

M. Vijay Pradhap Singh ,
has participated in Webinar titled "**Proposal Writing Workshop**",
PALS.

28-04-2023-
29-04-2023

Rajamehala M ,
has participated in Webinar titled "**Proposal Writing Workshop**",
PALS.

28-04-2023-
29-04-2023

Dr. N. Prabhu ,
has participated in Webinar titled "**Proposal Writing Workshop**",
PALS.

18-04-23-
09-05-23

M. Vijay Pradhap Singh ,
has participated in FDP program
"**Technology Based Entrepreneurship Developed Program In Aquaculture**",
Sathyabama Institute of Science And Technology.



23-05-23-
30-05-23

Dr. A. Muthu Kumara Pandian ,
has participated in FDP program on **"Design thinking"**,
AICTE idea lab, AkGEC Idea lab, Ghaziabad.

FACULTY PUBLICATION IN JOURNALS / BOOKS

Feb 2023

Dr.N.Prabhu ,
has Published a Book chapter in the title of
"Biofertilizer from Industrial Waste Water by Microalgal Treatment",
in Biorefinery for Water and Wastewater Treatment. Page no : 197-215 .

Feb 2023

M. Vijay Pradhap Singh, Rajamehala M ,
has Published a Journal in the title of
**"In vitro Antioxidant and Antimicrobial Activities of Flowers Extract of
Aegle marmelos"**,
in Research J. Pharm. and Tech.
ISSN No./Volume :0974-360X /16(2):773-776.

Feb 2023

Dr . M. S. Manojkumar ,
has Published a Journal in the title of
**"Magneto recyclable, green fabricated Fe₃O₄ nanorods on photo
responsive of textile dye degradation and identification products by
LC- MS"**, in Journal of the Indian Chemical Society. ISSN no: 100 (2023)
100930 .

Apr 2023

Dr. K. Gilbert Ross Rex,
has Published a Journal in the title of
**"Biosynthesis of Zinc oxide nanoparticles using Royal poinciana leaf
extract and evaluating its biomedical potential against biological agents"**,
in Journal of Science and Technology. ISSN: 2456 5660.

GALLERY

GLIMPSE OF ACADEMIC ACTIVITIES IN (2022-2023)

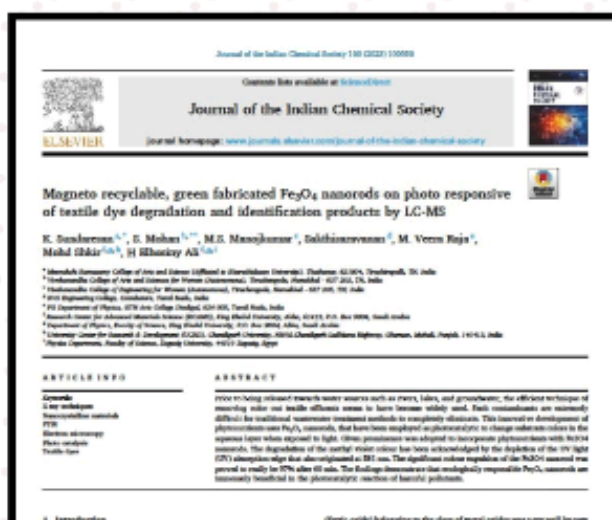


ZENOMEX 2k23

National level technical
symposium

GENOV CLUB

Online Guest lecture ,
given by
I.Titus



PAPER PUBLICATION


by
Dr.M.S.Manoj Kumar AP/BT

PLACEMENT DETAILS

S. NO.	Name of the Company	No of students Placed
1.	ZIFO RnD SOLUTIONS, CHENNAI	1
2.	DYNAMIC MEGACEUTICS ,CHENNAI	5
3.	COGNIZANT TECHNOLOGY SOLUTIONS ,CHENNAI	8
4.	TATA CONSULTANCY SERVICES , CHENNAI	1
5.	DOMEX E DATA PVT . LTD	4
6.	INDIAN HEALTH CARE, CHENNAI	6
7.	EPISOURCE, CHENNAI	11
8.	WISKILL, CHENNAI	1
9.	FOXCONN, CHENNAI	1
	TOTAL	38

PLACED STUDENT DETAILS IN EVEN SEMESTER

S. NO.	Name of the Student	Company Placed	Salary Package per annum
1.	VANDHANA. B	DOMEX E-DATA PVT. LTD	2,22,000
2.	RAJEEVY. K	DOMEX E-DATA PVT. LTD	2,22,000
3.	PRIYADIHARSHINI. S	DOMEX E- DATA PVT. LTD	2,22,000
4.	SURUTHI. S	DOMEX E-DATA PVT. LTD	2,22,000



5.	INDHUJA. D	INDIAN HEALTH CARE, CHENNAI	1,56,000
6.	RAMYA. P	INDIAN HEALTH CARE, CHENNAI	1,56,000
7.	YASOTHAI. S	INDIAN HEALTH CARE, CHENNAI	1,56,000
8.	RITHIKA. A. V	INDIAN HEALTH CARE, CHENNAI	1,44,000
9.	EZHILARASI. R	INDIAN HEALTH CARE, CHENNAI	1,44,000
10.	LIVITHRA. S	INDIAN HEALTH CARE, CHENNAI	1,44,000
11.	SASMIHA. S	EPISOURCE, CHENNAI	4,40,000
12.	PRADEEPA. M	EPISOURCE, CHENNAI	4,40,000
13.	MAIVIZHI. S	EPISOURCE, CHENNAI	4,40,000
14.	ANANDHI. S	EPISOURCE, CHENNAI	4,40,000
15.	ELAKYA. R	EPISOURCE, CHENNAI	4,40,000
16.	CHARUMATHI. G	EPISOURCE, CHENNAI	4,40,000
17.	THANGAMARI. G	EPISOURCE, CHENNAI	4,40,000
18.	MOUNIKA. M	EPISOURCE, CHENNAI	4,40,000
19.	SUWATHI. V	EPISOURCE, CHENNAI	4,40,000
20.	SUGANTHI. M	EPISOURCE, CHENNAI	4,40,000
21.	SUREJA. A	EPISOURCE, CHENNAI	4,40,000
22.	SOMESHWARI. G	WISKILL, CHENNAI	3,00,000
23.	HEMALATHA. N	FOXCONN, CHENNAI	2,10,000
	AVERAGE SALARY PACKAGE		3,10,347