



V.S.B. ENGINEERING COLLEGE

(An Autonomous Institution)

(Anna University Recognized Research Institute)

Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai

NBA Accredited Courses, Accredited by NAAC



9001:2015

CERTIFIED
INSTITUTION

TNEA CODE

2622

DEPARTMENT OF BIOTECHNOLOGY

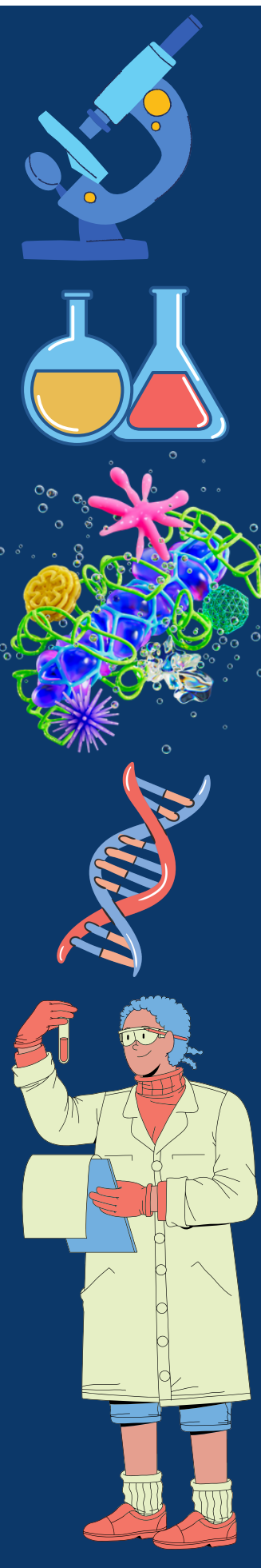
NEWSLETTER 2024-25

EVEN SEMESTER

BIOTECHNOLOGY

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V.S.B. ENGINEERING COLLEGE, KARUR (AN AUTONOMOUS INSTITUTION)

CHAIRMAN

Mr.V.S.Balsamy



V.S.B. Educational Trust was founded in the year 2000 by Mr. V.S. Balsamy, the founder and correspondent of the V.S.B. Group of Institutions, with an interest in promoting, managing and administrating educational institutions with high academic standards, discipline and to take up and help other allied activities in the field of education. Under the Trust, V.S.B. Engineering College was established in the year 2002 and V.S.B College of Engineering Technical Campus in the year 2012.



Vision & Mission OF INSTITUTE

VISION

We endeavour to impart futuristic technical education of the highest quality to the student community and to inculcate discipline in them to face the world with self-confidence and thus we prepare them for life as responsible citizens to uphold human values and to be of service at large. We strive to bring of the Institution as an Institution of academic excellence of International standard

MISSION

We transform persons into personalities by the state-of the art infrastructure, time consciousness, quick response and the best academic practices through assessment and advice

Vision & Mission OF DEPARTMENT

VISION

To accomplish eminence in academic excellence through quality teaching with latest technology and innovations in the areas of agriculture, environment, health care and entrepreneurship for the welfare of the society.

MISSION

- Equip the students to adapt to changing global and local needs through well designed curriculum and syllabus.
- Groom students to uphold professional ethics and develop leadership qualities.
- Disseminate a blending of knowledge acquisition and its application in real-life situations to the students.
- Train students on issues related to social welfare.



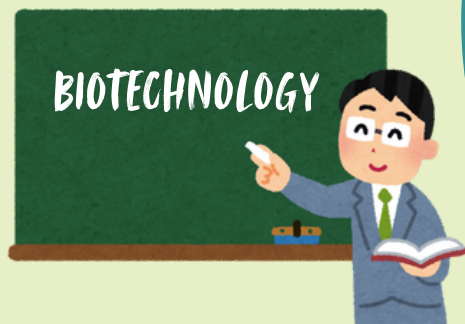
HEAD OF THE DEPARTMENT

**DR.M.ANISKUMAR ,
PROFESSOR.**

Born on April 12th, 1981, in Coonoor, The Nilgirs, Tamil Nadu, India, Dr.M.Anis kumar embodies unwavering commitment to Engineering and Technology. He embarked on his academic journey with an M.Tech in Industrial Biotechnology from SASTRA University in 2005. His insatiable curiosity led him to learn a PhD Degree in Technology (Biotechnology) from Anna University, Chennai in 2016.

Driven by his passion for engineering and technology advancement, Dr.M.Anis kumar authored one book, 6 book chapters, 11 patents with 4 grants received, 25 research and review papers in refereed international and national journals. His areas of research include optimizations and scale up of Bioprocess engineering and separations based on downstream processing with Molecular and genetics engineering identifications.

Beyond research, Dr.M.Anis kumar excelled in education, shaping young minds during his 18 tenure as a University-level educator. As an Professor in the Department of Biotechnology at VSB Engineering College, Karur Tamilnadu, India, he continues to inspire through his dedication to scientific inquiry, commitment to education, and significant contributions to the engineering and Technology.



Meet Our Team



Mrs.K.Keerthiga

**AHOD/ASSISTANT
PROFESSOR**



**Dr.Niharika
Singh**

**ASSISTANT
PROFESSOR**



**Dr.Sundharamahalingam
M A**

**ASSISTANT
PROFESSOR**



Dr.Ananthakrishnan

**ASSOCIATE
PROFESSOR**



Ms.G.Jeyashree

**ASSISTANT
PROFESSOR**



**Ms.Sumaya
Fathima**

**ASSISTANT
PROFESSOR**

STUDENTS ACHIVEMENT

Inter-state National level Conference



PAPER PRESENTATION

'BEST PAPER AWARD'



cash prize winner

₹ 2000

Venue: KPR Institute of Engineering and technology, Coimbatore

PAPER PRESENTATION

2ND PRIZE IN PAPER PRESENTATION

Venue: Vivekananda College of Engineering for Women, Thiruchengode





**Venue : Selvam college of Technology,
Namakkal
2ND PRIZE IN
NON TECHNOICAL EVENT**

PAPER PRESENTATION

'BEST PAPER AWARD'

**Venue: Vivekananda College of
Engineering for Women ,
Thiruchengode**



PAPER PRESENTATION

3RD PRIZE IN PAPER PRESENTATION

**Venue : Sethu Institute of Technology,
Virudhunagar**



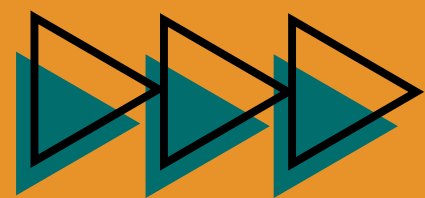
OTHER-STATE INTERNATIONAL LEVEL PARTICIPATION



**N. SENTHIL VELAN,
R. PATHI,
L. VEERAPRATHAPAN.
III-BIOTECH**

**DIVAKARAN,
ABISHEK,
BALASUBRAMANI.
II-BIOTECH**

**VIGNAN'S FOUNDATION OF SCIENCE AND
TECHNOLOGY, GUNTUR, ANDHRA PRADESH**



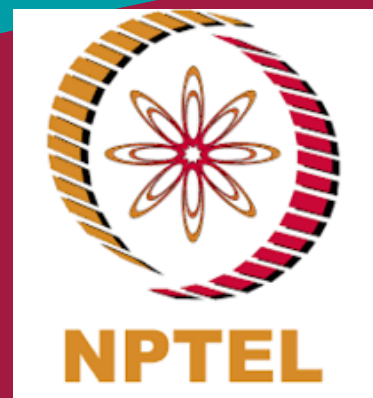


NPTEL

NAME	COURSE	AREA OF TRAINING	DURATION
Baby S	Molecular Biology	IIT Guwahati	Jan–Apr 2025
Manidharani	Nanotechnology in Agriculture	IIT Kanpur	Jan–Apr 2025
Janani B	Molecular Biology	IIT Guwahati	Jan–Apr 2025
Lalitha S	Molecular Biology	IIT Guwahati	Jan–Apr 2025
Mathumathi K	Molecular Biology	IIT Guwahati	Jan–Apr 2025
Sujitha S	Microbial Biotechnology	IIT Guwahati	Jan–Apr 2025
Manidharani	Microbial Biotechnology	IIT Guwahati	Jan–Apr 2025
Hareni R	Molecular Biology	IIT Guwahati	Jan–Apr 2025
Sujitha S	Nanotechnology in Agriculture	IIT Kanpur	Jan–Apr 2025
Sandhiya M	Molecular Biology	IIT Guwahati	Jan–Apr 2025
Vaitheeshwaran S	Microbial Biotechnology	IIT Guwahati	Jan–Apr 2025
Infant Androse M	Computational Genomics	IISER Bhopal	Jan–Apr 2025
Vignesh T	Computational Genomics	IISER Bhopal	Jan–Apr 2025
Padmavathi A	Human Physiology	IISER Pune	Jan–Apr 2025



ELITE STUDENTS



Elite
NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)

This certificate is awarded to
MANIDHARANI
for successfully completing the course
Nanotechnology in Agriculture
with a consolidated score of **61** %

Online Assignments	23.75/25	Proctored Exam	37.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: **551**

Jan-Mar 2025
(8 week course)

Prof. S. V. Ratish Kumar
Chairman, Centre for Continuing Education
IIT Kanpur

Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur

Indian Institute of Technology Kanpur

swayam

Roll No: NPTEL25BT36534200963 To verify the certificate No. of credits recommended: 2 or 3

Elite
NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)

This certificate is awarded to
VIGNESH T
for successfully completing the course
Computational Genomics
with a consolidated score of **68** %

Online Assignments	24.75/25	Proctored Exam	43.5/75
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Total number of candidates certified in this course: **405**

Jan-Apr 2025
(12 week course)

Prof. Srigitha Thakur
Dean, Academic Affairs
ISER Bhopal

Prof. Anandhesh Srivastava
NPTEL Coordinator
ISER Bhopal

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras

ISER - Indian Institute of Science
Education and Research Bhopal

swayam

Roll No: NPTEL25BT135645101019 To verify the certificate No. of credits recommended: 3 or 4

Elite
NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)

This certificate is awarded to
VAITHEESHWARAN S
for successfully completing the course
Microbial Biotechnology
with a consolidated score of **79** %

Online Assignments	24.08/25	Proctored Exam	54.75/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **1403**

Jan-Apr 2025
(12 week course)

Prof. T. V. Bharat
Head, Centre for Educational Technology
NPTEL Coordinator, IIT Guwahati

Indian Institute of Technology Guwahati

swayam

Roll No: NPTEL25BT335545100844 To verify the certificate No. of credits recommended: 3 or 4

Elite
NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)

This certificate is awarded to
INFANT ANDROSE M
for successfully completing the course
Computational Genomics
with a consolidated score of **87** %

Online Assignments	25/25	Proctored Exam	61.5/75
--------------------	-------	----------------	---------

Total number of candidates certified in this course: **405**

Jan-Apr 2025
(12 week course)

Prof. Srigitha Thakur
Dean, Academic Affairs
ISER Bhopal

Prof. Anandhesh Srivastava
NPTEL Coordinator
ISER Bhopal

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras

ISER - Indian Institute of Science
Education and Research Bhopal

swayam

Roll No: NPTEL25BT135645000561 To verify the certificate No. of credits recommended: 3 or 4

Elite
NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)

This certificate is awarded to
MANIDHARANI
for successfully completing the course
Microbial Biotechnology
with a consolidated score of **83** %

Online Assignments	25/25	Proctored Exam	57.75/75
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Total number of candidates certified in this course: **1403**

Jan-Apr 2025
(12 week course)

Prof. T. V. Bharat
Head, Centre for Educational Technology
NPTEL Coordinator, IIT Guwahati

Indian Institute of Technology Guwahati

swayam

Roll No: NPTEL25BT335545000777 To verify the certificate No. of credits recommended: 3 or 4





TNSCST

Students Activity

TNSCST PROJECT



Dr. Niharika Singh,
Assistant Professor

MS-395: Utilizing the crude elements of *Mirabilis jalapa* aqueous extract as a biocontrol for tinea



MS-436: Dual role of beta-glucanase in *Euglena* anticancer and antidiabetic effects on lung cancer and chronic kidney diseases

Mrs. K. Keerthiga,
Assistant Professor



Dr. Sundaramahalingam,
Assistant Professor

BS-333: Screening of potential antimicrobial peptides for cystic fibrosis using deep learning and cell line approaches





Annual placement



1



1



1



17



1



2



FACULTY PUBLICATIONS

JOURNAL PUBLICATION



BIOSORPTION OF HEAVY METALS USING PLANT-DERIVED SORBENTS: AN ENVIRONMENTAL SOLUTION FOR INDUSTRIAL WASTEWATER ISSN: 1790-7632 : VOL 27, NO 4, 06874 : [HTTPS://DOI.ORG/10.30955/GNJ.06874](https://doi.org/10.30955/GNJ.06874) : FEB 2025

EVALUATION OF BIOACTIVE MOLECULES FROM QUERCUS INCANA FOR WOUND HEALING ACTIVITY USING FIBROBLAST CELL LINE: A REVIEW ISSN: 1012-3407VOL: 13(5) PAGE NO.221-243 MAY 2025



UNLOCKING THE PHARMACOLOGICAL POTENTIAL OF ANNANA SQUAMOSA ROOT: A PHYTOCHEMICAL AND BIOLOGICAL INVESTIGATION ISSN: 1012-3407VOL:13(5) PAGE NO.95-118 : MAY 2025



THE ROLE OF NANOMATERIALS IN ENHANCING FABRIC PROPERTIESISSN:2583-1062 5(2) PAGE NO 622-635 : FEB 2025



GREEN SYNTHESIS OF SELENIUM NANOPARTICLES USING ANACARDIUM OCCIDENTALE LEAF AND ITS ENHANCED PHOTOCATALYTIC ACTIVITY, ANTIMICROBIAL EFFICACY ANTICANCER PROPERTY AND DNA FRAGMENTATIONISSN: 1006-7647VOL: 9(5)PAGE NO: 130-163DOI:- 14.4018.JAPCS.2025.9.5.010



ADVANCED BIOENGINEERING IN DRUG DELIVERY: PRECISION SOLUTION FOR GENETIC DISEASES MANAGERMENTS ISSN: 2296 2646
VOL:13:1425666 [HTTPS://DOI.ORG/10.3389/FCHEM.2025.1425666](https://doi.org/10.3389/fchem.2025.1425666)



HARNESSING BIOENGINEERED MICROBES AS ADVANCED DRUG DELIVERY SYSTEMS: A REVIEW ISSN: 1012-340713(3) PAGE NO. 110-144



EFFICACY OF PIPER LONGUM AGAINST HEPG2 CANCER USING IN VITRO AND IN SILICO STUDIES ISSN: 1006-7647VOL: 9(5)



INTEGRATION OF CONTINUOUS IMPROVEMENT APPROACH IN SUSTAINABLE E-GOVERNMENT SERVICES TOWARDS CITIZEN SATISFACTION IN HEALTH SECTOR DEVELOPMENT OF CONCEPTUAL MODEL 979-8-3315-4237-5/25/\$31.00 ©2025 IEEE | DOI: 10.1109/AUTOCOM64127.2025.10957299



PATENT



GREEN SYNTHESIS OF ZINC OXIDE NANOPARTICLES FROM NYCTANTHES ARBORTRISTIS: A PROMISING APPROACH AGAINST STRUVITE CRYSTALS, MICROBIAL INFECTIONS, AND OXIDATIVE STRESS

PATENT NO. 202541015061 A



GREEN REMEDIATION OF AQUEOUS SOLUTIONS USING PLANT ROOT BIOSORBENTS: INVESTIGATING ADSORPTION EFFICIENCY, KINETICS, AND SORPTION ISOTHERMS FOR SUSTAINABLE ENVIRONMENTAL POLLUTION CONTROL

PATENT NO. 202541016389 A



CRONOBACTER SAKAZAKII ISOLATES FROM VARIOUS PLANT AND ENVIRONMENTAL COMMODITIES: PREVALENCE & VIRULENCE DETERMINANT PROFILING

PATENT NO. 202541014698 A



DEVELOPMENT OF AN ANTIBIOTIC DERMAL PATCH USING FISH FRITTER-DERIVED POLYMER ANTIBIOTIC DERMAL POLYMER & ACALYPHA INDICA BIO-NANOPARTICLES FOR SUSTAINABLE WOUND HEALING

PATENT NO. 202541014673 A





ECO FRIENDLY INNOVATIONS: SECURING WATER, ENERGY AND THE ENVIRONMENT FOR A SUSTAINABLE FUTURE

PERIOD : 07TH APRIL 2025 TO 12TH APRIL 2025

COLLEGE/UNIVERSITY : SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, RAMAPURAM, CHENNAI



FOSTERING THE SIGNIFICANCE OF RESEARCH SKILLS AND INNOVATIONS AMONG EDUCATORS

PERIOD : 17TH FEB 2025 TO 22ND FEB 2025

COLLEGE/UNIVERSITY : GOJAN SCHOOL OF BUSINESS AND TECHNOLOGY

ECO FRIENDLY INNOVATIONS: SECURING WATER, ENERGY AND THE ENVIRONMENT FOR A SUSTAINABLE FUTURE

PERIOD : 07TH APRIL 2025 TO 12TH APRIL 2025

COLLEGE/UNIVERSITY : SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, RAMAPURAM, CHENNAI

FOSTERING THE SIGNIFICANCE OF RESEARCH SKILLS AND INNOVATIONS AMONG EDUCATORS

PERIOD : 17TH FEB 2025 TO 22ND FEB 2025

COLLEGE/UNIVERSITY : GOJAN SCHOOL OF BUSINESS AND TECHNOLOGY



PRACTICAL ASPECTS OF ICT TOOLS & ONLINE TEACHING IN CURRENT SCENARIO

PERIOD : 03RD MAR 2025 TO 10TH MAR 2025

COLLEGE/UNIVERSITY : RESEARCH FOUNDATION OF INDIA



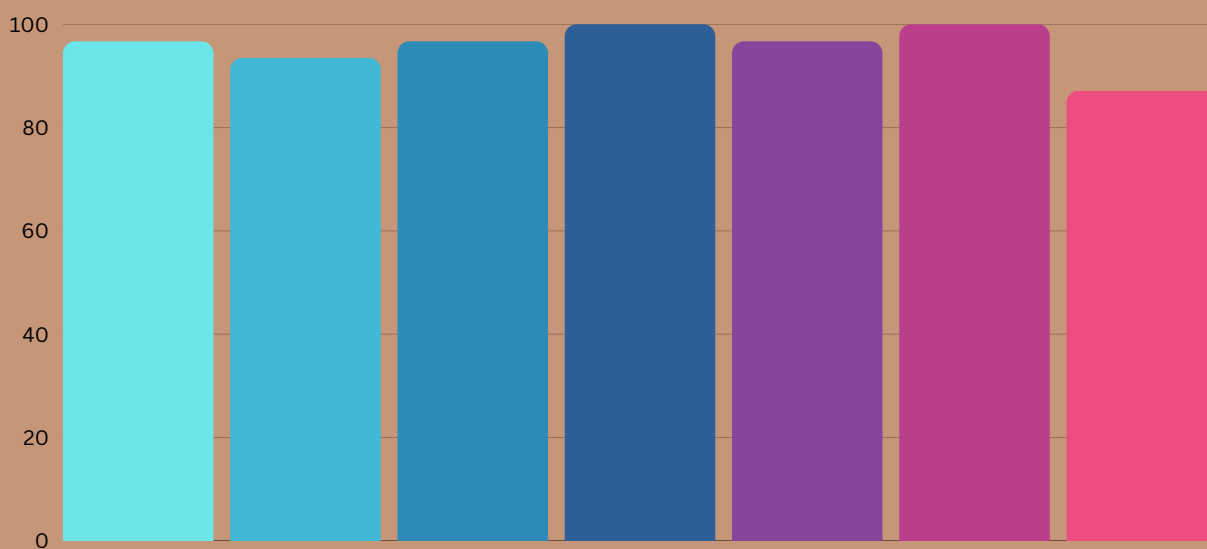


Result Analysis





2024-2025 (Even Semester)

I YEAR /II SEMESTER

Professional English II Computational methods Material science for Biotechnologist
Basic Electrical and Electronic Engineering Engineering Graphics Heritage of Tamil
Bio organic chemistry



TOPPERS

S.NO	NAME	SGPA	PHOTO
01	SANDHIYA.M	9.15	
02	JOY BASTIANA.J	9.12	
03	ROSHINI.K	9.08	
04	GAYATHRI .R.S	9.00	

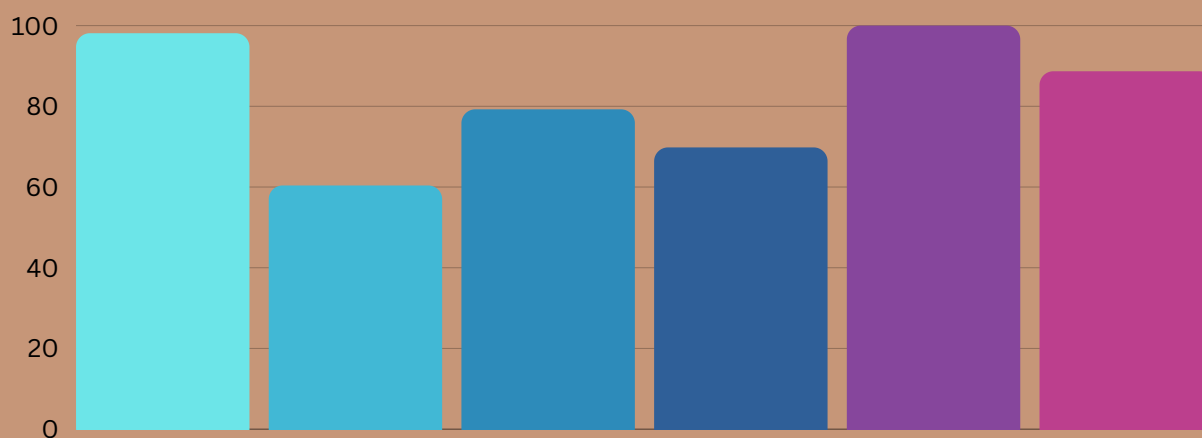


Result Analysis





2024-2025 (Even Semester)

II YEAR / IV SEMESTER

- Molecular Biology
- Fluid flow and Heat transfer operations
- Analytical techniques in biotechnology
- Chemical process calculations in Biotechnology
- Industrial Enzymology
- Environmental science and sustainability



TOPPERS

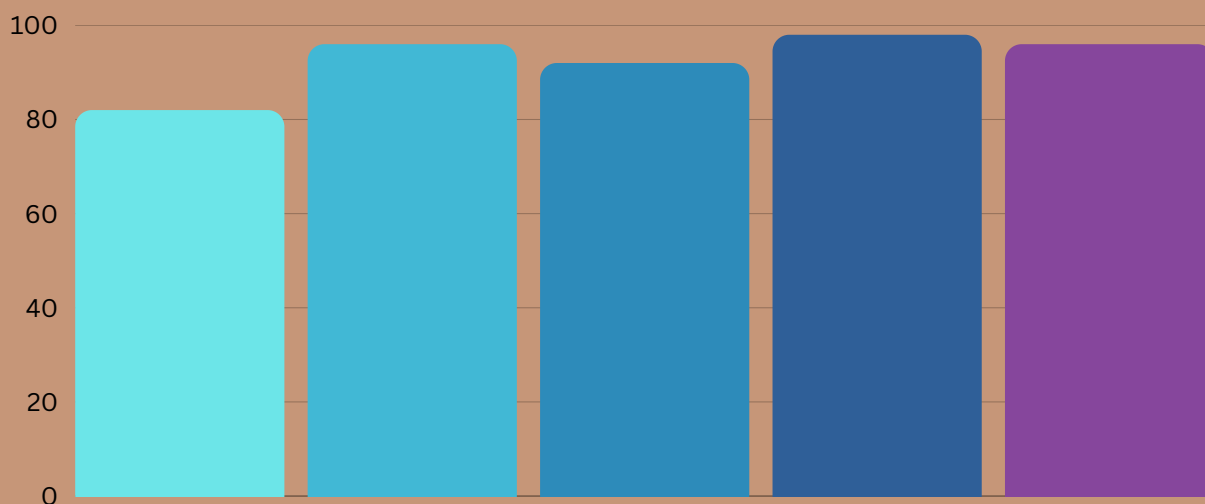
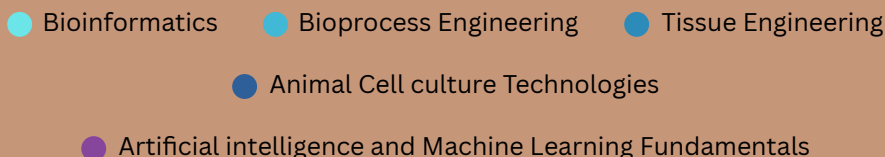
S.NO	NAME	SGPA	PHOTO
01	MANI DHARANI.S	9.03	
02	MADHUSREE.N	8.58	
03	SANDHIYA.M	8.58	
04	LALITHA.S	8.53	







Result Analysis

2024-2025 (Even Semester)

III YEAR /VI SEMESTER



TOPPERS

S.NO	NAME	SGPA	PHOTO
O1	PERIYASAMY.D	9.33	
O2	INFANT ANDROSE.M	8.83	
O3	MAHESHWARA.P.T	8.83	
O4	SAKTHI MAHESWARI.K	8.83	

B T E V E N T S



WEBINAR

V.S.B. ENGINEERING COLLEGE, KARUR
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NH 67 Coval Road Karudayampalayam Post, KARUR - 639 III. T.N.

Department of Biotechnology
(Accredited By NBA)

Proudly Organizes
A seminar On
"From campus to Global Carrers: A Biotechnology Opportunities in abroad for Biotech Aspirants"

26th Feb 2025
2.00 p.m
seminar Hall, VSBEC

Mrs. Nivinya Priya
QMS SPECIALIST
NATEC MEDICAL
LIMITED
MOKA, MAURITIUS

FOLLOW US AT
Instagram Facebook Twitter YouTube LinkedIn

MODE : **ONLINE**

Further Details Contact
Organizing Committee: Department of Biotechnology
biotechvents.vsbec@gmail.com
biotech@vsbec.com

BIO-FUSION

- **BIOQUEST**
- **DUMB-C**
- **BIOCONNECT**



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NH-67 Covai Road, Karudayampalayam Post, Karur - 639111, TN

BIOFORUM
DEPARTMENT OF BIOTECHNOLOGY
in association with
INSTITUTION'S INNOVATION COUNCIL

INVITING ACTIVE PARTICIPATION FROM ALL BIOTECH STUDENTS

PROUDLY ORGANIZES
BIOFUSION '25
"Empowering Managerial Skills in Bio-Aspirants"

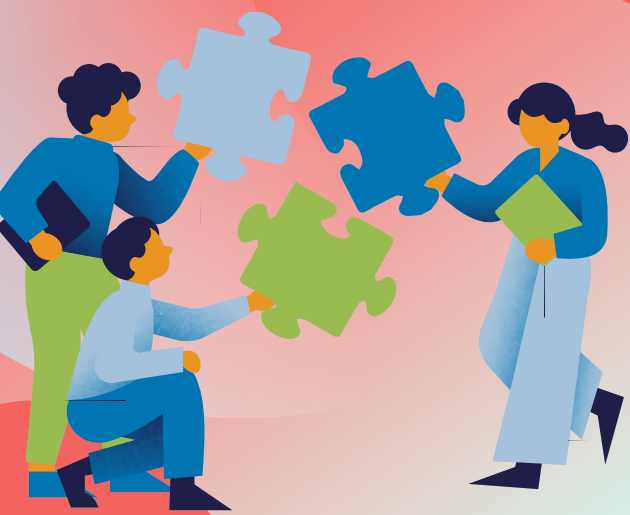
EVENT'S
BIOQUEST DUMB-C BIO-CONNECT

10:00 AM ONWARDS
SEMINAR HALL, VSBE

FOLLOW US AT
Instagram Facebook Twitter YouTube LinkedIn

MODE : ☐ ONLINE ☒ OFFLINE

VISIT US AT
www.vsbec.edu.in



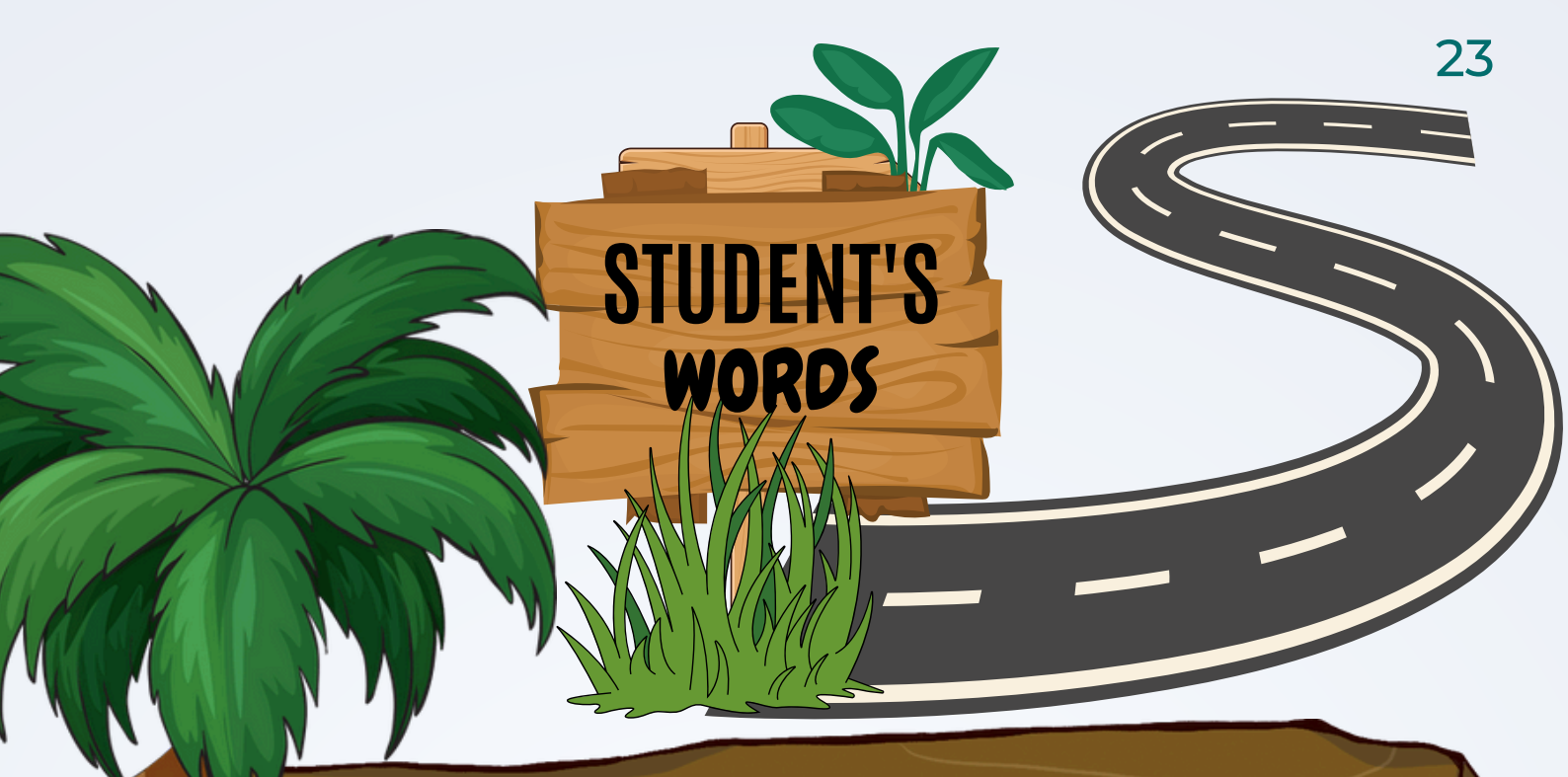
INDOOR ACTIVITY

BLOOD DONATION CAMP



Our department II & III year Students Actively Participated in the Blood donation camp and donated Blood

Blood donation camp conducted by NSS in association with Karur Medical College and GCHC, Chinnadharapuram on 18.03.2025



STUDENT'S WORDS

I am Seshathri D, pursuing II-BIOTECH, "I've learned many things in biotechnology — especially about genes, cells, tissue culture, and enzymes. I find it really interesting because we get to understand living organisms and use technology to create something new. Doing experiments in the lab makes learning more exciting. There are so many facilities in biotech, from agriculture to medicine, and even for solving environmental problems. I feel like biotechnology has the power to change the world for the better, and that really inspires me."

I am Kanishka K, pursuing III-BIOTECH, "Biotechnology is one of the most exciting subjects I've studied. I've learned about DNA, cloning, microbes, and how we can use them to make medicines, improve crops, and protect the environment. What I like the most is how science and technology come together to solve real-life problems. Biotech labs are full of new tools and techniques, and I enjoy trying out experiments and seeing how things actually work. I'm really interested in this field because it has so many future opportunities and can make a big difference in the world."



STAY UPDATE !

FACULTY EDITORIAL TEAM:

Dr. M. Aniskumar
H_oD. Biotech

Mrs. K. Keerthiga,
A_HoD. Biotech

STUDENT EDITORIAL TEAM:

Deepana Manokaran
III yr Biotech

Dharanika Annadurai
III yr Biotech



Biotech Vsbec



@VSBECBIOTECHNOLOGY



biotech_vsbec



biotechvsbec2018@gmail.com



<https://vsbec.edu.in/bio-technology/>