



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

NEWS LETTER 2025 - 2026 (EVEN SEMESTER)



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



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.



CHAIRMAN'S WORDS

Our Institution, a temple of learning and a hallmark of discipline, treads towards the zenith of glory by preferring the education of global standards in the best quality and variety, and substantiates to be a benchmark among all the colleges in India.

– Mr.V.S.Balsamy, B.Sc., L.L.B.,



VISION AND 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 AND 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.

HoD WORDS

**Dr.M.Aniskumar, M.Tech.,Ph.D.,
Head & Professor**



It gives me immense pleasure to share that our Department of Biotechnology has been accredited by the National Board of Accreditation (NBA), a recognition that reflects our commitment to academic excellence, quality teaching, and continuous improvement. Our institution is also accredited by the National Assessment and Accreditation Council (NAAC) and recognized by the University Grants Commission (UGC), further strengthening the credibility of our academic ecosystem.

The Department is well-supported with state-of-the-art infrastructural facilities and modern laboratory equipment to cater to the needs of innovative learning and research. We are proud to mention that our Institute has also been recognized as a Centre for Research by Anna University, Chennai, enabling scholars to pursue advanced research in various domains of biotechnology.

Our laboratories are equipped with sophisticated instruments such as Heating Mantle, Magnetic Stirrer with Hot Plate, pH Meter, Soxhlet Apparatus, Reflex Condenser, Calorimeter, UV Spectrophotometer, Ice Flaking Machine, Autoclave, Incubator, Thermogravimetric Analyzer, Laminar Air Flow, Cooling Centrifuge, Microscopes, ELISA Reader, PCR, SDS-PAGE Unit, Sonicator, Chemical Fume Hood, Bioinformatics Systems, and many other essential tools and glassware. These facilities play a vital role in ensuring the successful execution of student projects, research work, and practical training.

With highly qualified faculty members, strong academic processes, and a vibrant student community, the Department of Biotechnology continues to strive towards excellence in education, research, and innovation. We remain committed to nurturing young minds and preparing them to become competent biotechnologists who contribute meaningfully to society.

STUDENT ACHIEVEMENT

Inter-state National level Conference



2nd Prize on paper Presentation

**Amit Das, Divakaran N P,
Gowtham G
ADHIYAMAAN COLLEGE OF
ENGINEERING, HOSUR**

2nd Prize on Poster Presentation

Suganth G, Sudharshan S

**ADHIYAMAAN COLLEGE OF
ENGINEERING, HOSUR**



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DR.M. ANISKUMAR
&
MS.J.SHANMUGAPRIYA



Formulation of Carrageenan - Based Drug Delivery System For Sustained Release of Letrozole In Breast Cancer Therapy

RESEARCH PAPER

Bioerradication of Pesticide-Contaminated Soils: Microbial Approaches and Technological Advances

Sanjeev Kumar Mishra¹, Jayashree P. Singh¹, Nisha K. V. Patil¹, Vipul K. Singh², Anand Kumar Singh³

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DR.M. ANISKUMAR
&
DR.M.A.SUNDARAMAHALINGAM

DR.M. ANISKUMAR
&
MRS.K.KEERTHIGA

In silico screening of phytochemicals targeting skin aging associated enzymes using molecular docking and ADMET profiling

Computational and Experimental Investigation of Phytochemicals as Drug Candidates for Mucoviscidosis

[illegible]

Development Of Microbe-Sourced Bio-Polymeric Films For Prolonging Freshness Of Fruits And Vegetables

DR.M. ANISKUMAR
&
DR.R.ANANTHA KRISHNAN

DR.M. ANISKUMAR & DR.D.KARTHIGA



Plant-Based Antifungal Activity of Carica Papaya Against Skin-Infecting Dermatophytes

Bio-Inspired Scaffold Derived from Milkweed Fibre for Regenerative Medicine

DR.M. ANISKUMAR & DR.G.PRATAP KUMAR



Suppression of pH-Triggered Virulence in Candida albicans by Endophytic Fungal Metabolites Isolated from Tinospora Cordifolia

Preventative and Therapeutic Potential of Coumarin Compounds from Hemidesmus indicus Against Peptic Ulcer Disease: A Review



DR.M. ANISKUMAR & DR.K.PALANISELVAM

Development Of Microbe-Sourced Bio-Polymeric Films For Prolonging Freshness Of Fruits And Vegetables

Harvesting Medicinal Plants for Nanoparticle Synthesis in Antimicrobial Research

PATENT PUBLICATION



**DR M ANISKUMAR
DR K PALANISELVAM
MRS K KEERTHIGA**

**GREEN FABRICATION OF COPPER CHITOSAN
NANOPARTICLES USING PERGULARIA DAEMIYA
FOR ANTIMICROBIAL WOUND CARE
APPLICATION**

**PATENT NUMBER:
202641045832 A
PUBLISHED ON
24.04.2026**

**DR M ANISKUMAR
DR G PRATAP KUMAR**

**IN-VITRO INVESTIGATION OF
HEPATOPROTECTIVE ACTIVITY OF
PERGULARIA DAEMIA**

**PATENT NUMBER:
202641045832 A
PUBLISHED ON
24.04.2026**

**DR M ANISKUMAR
DR D KARTHIGA**

**COPA SYNDROME DEVELOPING
AND EVALUATING A HERBAL
FORMULATION WITH SOLANUM
TRIBOATUM (THUTHUVALAI) AND
GLYCYRRHIZA GLABRA
(ATHIMADHURAM)**

**PATENT NUMBER:
202641046579 A
PUBLISHED ON
24.04.2026**

**DR. M. ANISKUMAR
DR. M. A. SUNDARAMAHALINGAM
DR. P. SIVASHANMUGAM
DR. R. ANANTHAKRISHNAN
DR. G PRATAP KUMAR
DR. K. PALANISELVAM**

**AUTOMATED BIOREACTOR WITH
REAL TIME PRESSURE CONTROL**

**PATENT NUMBER:
202641046579 A
PUBLISHED ON
26.03.2026**

BOOK CHAPTER PUBLICATIONS

DR. M. A. SUNDARAMAHALINGAM



TITLE : SCREENING OF POTENTIAL ANTIMICROBIAL PEPTIDES FOR CYSTIC FIBROSIS USING NETWORK AND DYNAMIC STUDIES
PUBLICATION NAME : SCREENING OF POTENTIAL ANTIMICROBIAL PEPTIDES FOR CYSTIC FIBROSIS USING NETWORK AND DYNAMIC STUDIES

DR. M. A. SUNDARAMAHALINGAM

TITLE : DEVELOPING AN ANTIBACTERIAL DERMAL PATCH USING THE ADMIXTURE OF FISH FRITTERED EIREVED POLYMER AND ACALYPHA INDICA LEAF BIO-NANOPARTICLES AS BIOMATRIX
PUBLICATION NAME : SCREENING OF POTENTIAL ANTIMICROBIAL PEPTIDES FOR CYSTIC FIBROSIS USING NETWORK AND DYNAMIC STUDIES



DR.M. ANISKUMAR,

MRS.K. KEERTHIGA,

DR.M.A.SUNDARAMAHALINGAM.



TITLE : CUTTING-EDGE ECO-CONSCIOUS TECHNOLOGIES FOR GLYCAN SEPARATION
PUBLICATION NAME : IN GREEN ENGINEERING AND SUSTAINABLE TECHNOLOGY, WILEY





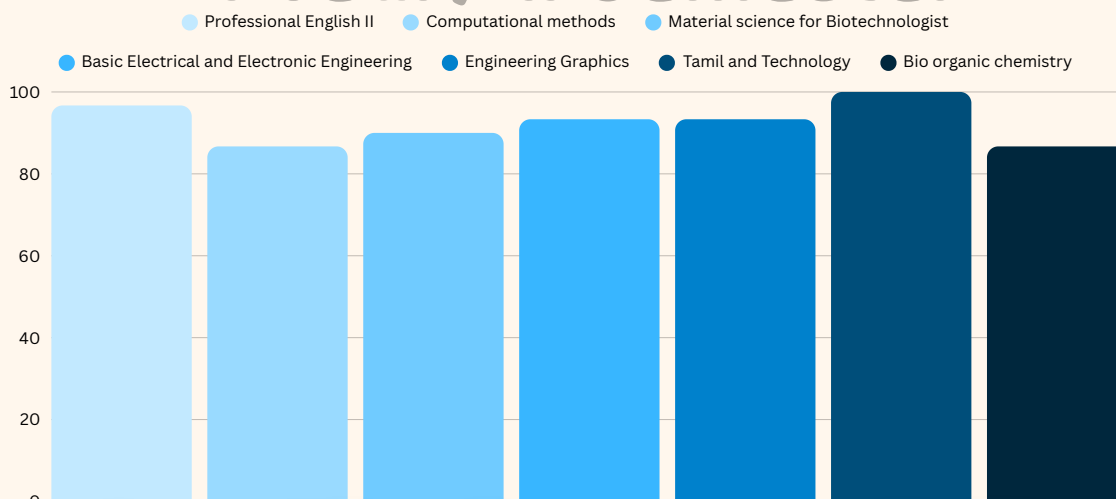
12

END SEMESTER RESULTS

April-May (2025-2026)



I Year/ II Semester



Overall Pass Percentage = 76.7%

TOPPERS

S.No.	Reg.No.	Name	SGPA	Photo
1	922525214024	PRIYADHARSHINI D	9.27	
2	922525214022	POORANIMALA E	9.07	
3	922525214016	MATHU SRI AJ	9	
4	922525214023	POOVITHA S	8.91	
5	922525214018	NISHA S	8.74	



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END SEMESTER RESULTS

April-May (2025-2026)

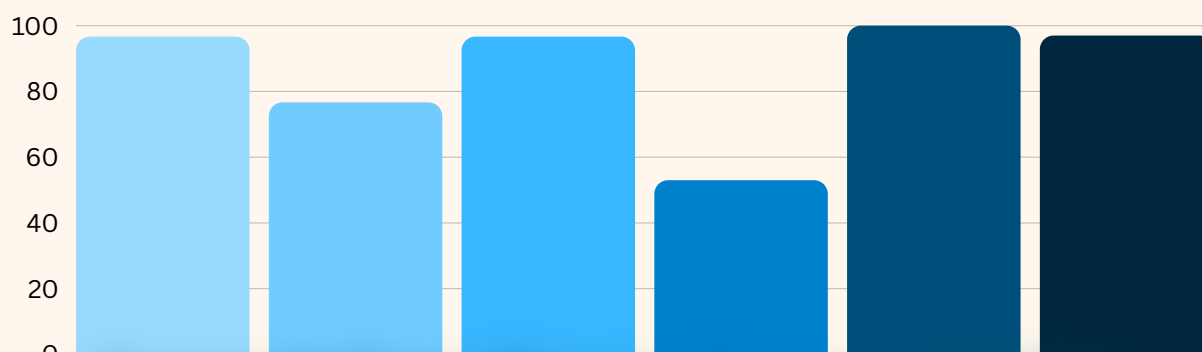


II Year / IV Semester

Molecular Biology Fluid flow and Heat transfer operations

Analytical techniques in biotechnology Chemical process calculations in Biotechnology

Industrial Enzymology Environmental science and sustainability



Overall Pass Percentage = 43.3%

TOPPERS

S.No.	Reg.No.	Name	SGPA	Photo
1	922524214022	ROSHNI K	8.775	
2	922524214009	JOY BASTIANA J	8.625	
3	922524214006	GAYATHRI R S	8.6	
4	922524214005	ELAKIYA R	8.3	
5	922524214025	SANDHIYA M	8.3	



14

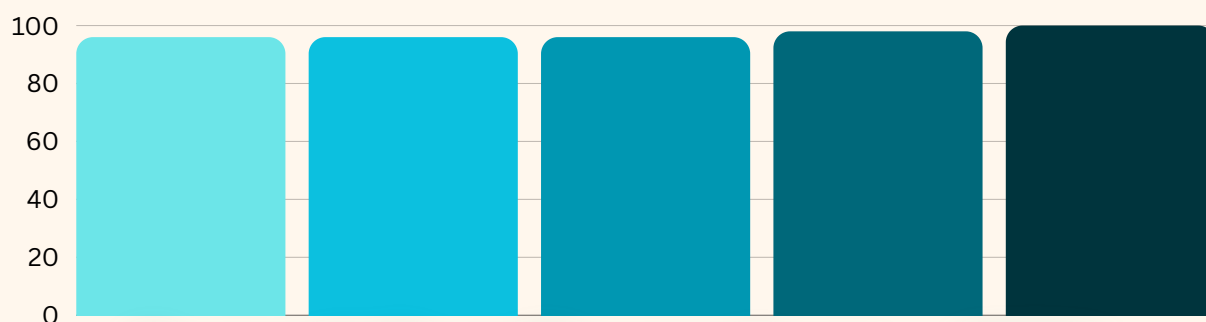
END SEMESTER RESULTS

April-May (2025-2026)

III Year/ VI Semester



- Bioinformatics ● Bioprocess Engineering ● Animal Cell culture Technologies
● Computer aided drug discovery
● Artificial intelligence and Machine Learning Fundamentals



Overall Pass Percentage = 92%

TOPPERS

S.No.	Reg.No.	Name	SGPA	Photo
1	922523214011	CHARUMATHI S	9.25	
2	922523214036	MANI DHARANI S	9.1	
3	922523214035	MADHUSHREE N	8.8	
4	922523214043	SANDHIYA M	8.73	
5	922523214018	GOWRI C	8.63	

EVENTS OF DEPARTMENT

V.S.B. ENGINEERING COLLEGE
(AN AUTONOMOUS INSTITUTION)
Approved by AICTE New Delhi & Affiliated to Anna University,
Chennai. NBAAC-Credited Courses, NAAC Accredited and ISO
Certified Institution. M&S Road, Karudiyampalayam
Post, Karur, Tamilnadu 639111.

DEPARTMENT OF BIOTECHNOLOGY
IN ASSOCIATION WITH

Institution's Innovation Council
ORGANIZES A SEMINAR ON :
**Investigating the Importance of Light-
Driven Diagnostic Techniques in
Advancing Personalized and Preventive
Healthcare**

Inviting Active
Participation from
Bio-Field Students


Scan and register


Dr. Arputharaj Emmanuvel
Postdoctoral Fellow,
Department of Biochemistry & Molecular Biology,
University of Maryland, Baltimore.



Time: 10:00 AM IST onwards
Venue: Seminar Hall, VSBE

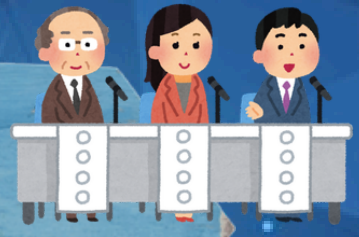
Shri V S BALSAMY
CHAIRMAN

Shri B SATHESH KUMAR
VICE-CHAIRMAN

Shri B VIJAY
SECRETARY



SYMPOSIUM

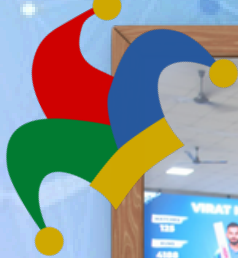


KANAL 2K26

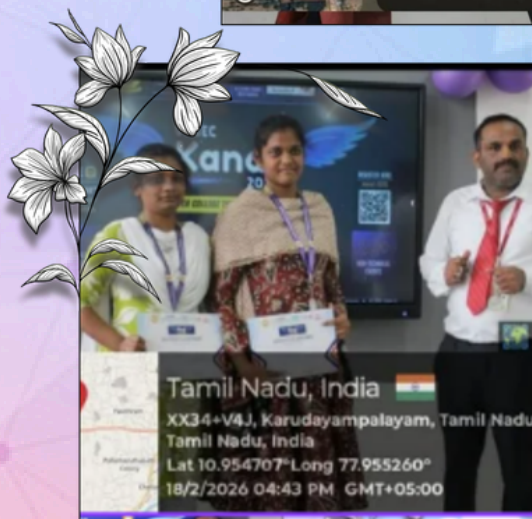
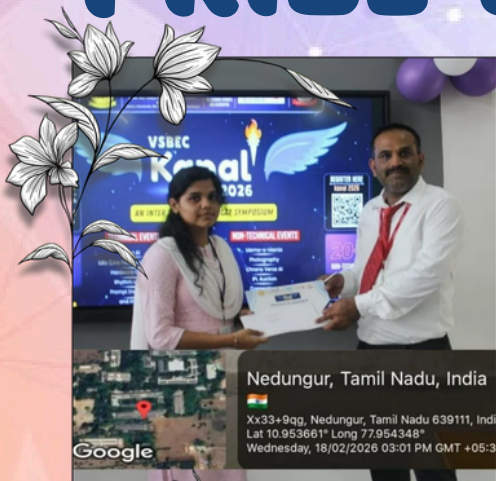
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PRIZE DISTRIBUTION





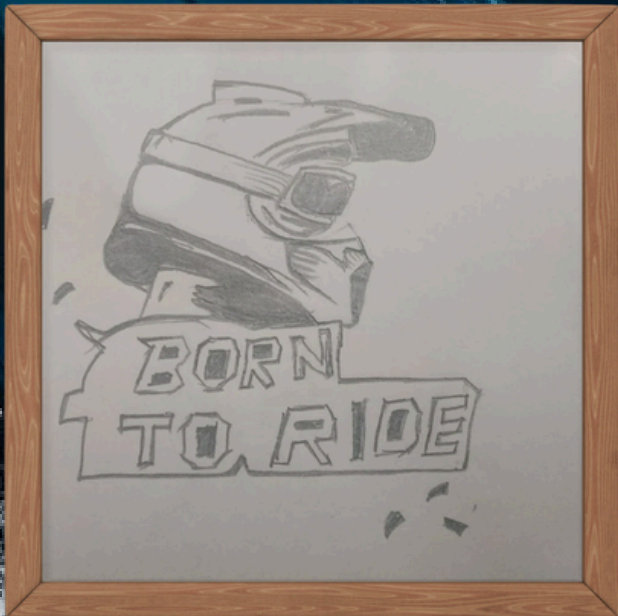
STUDENTS CORNER



DEEPASRI G
IV-YEAR



RENITHA YAVANIKA
SHREE
II-YEAR



AMIT DAS
III-YEAR



MADHU MATHI
III-YEAR



Students words

Hari Krishnan - IV YEAR

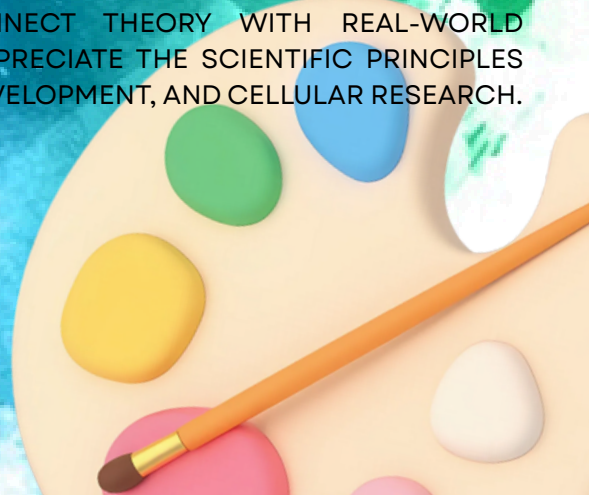
BIOTECHNOLOGY, ESPECIALLY IN THE FIELD OF BIOPROCESS ENGINEERING, INSPIRES US TO EXPLORE HOW LIVING SYSTEMS CAN BE HARNESSSED TO PRODUCE VALUABLE PRODUCTS FOR SOCIETY. THROUGH OUR BIOPROCESS COURSEWORK AND PRACTICAL SESSIONS, WE LEARN HOW MICROORGANISMS CAN BE CULTIVATED, OPTIMIZED, AND SCALED UP IN BIOREACTORS TO MANUFACTURE BIOPHARMACEUTICALS, ENZYMES, VACCINES, BIOFUELS, AND OTHER ESSENTIAL BIOMOLECULES. THE HANDS-ON EXPERIENCE WE GAIN IN FERMENTATION TECHNOLOGY AND DOWNSTREAM PROCESSING STRENGTHENS OUR CONFIDENCE IN USING SCIENTIFIC METHODS AND MODERN EQUIPMENT. EACH EXPERIMENT TEACHES US THE IMPORTANCE OF PRECISION, SAFETY, AND PROBLEM-SOLVING. BIOPROCESS ENGINEERING ALSO SHOWS US THE VITAL ROLE BIOTECHNOLOGY PLAYS IN HEALTHCARE, AGRICULTURE, ENVIRONMENTAL MANAGEMENT, AND INDUSTRIAL PRODUCTION. AS STUDENTS, WE FEEL MOTIVATED TO CONTRIBUTE TO SUSTAINABLE TECHNOLOGIES AND INNOVATIVE SOLUTIONS THAT CAN POSITIVELY IMPACT SOCIETY. THIS FIELD NURTURES OUR CURIOSITY AND PREPARES US FOR REWARDING CAREERS IN THE GROWING BIOTECHNOLOGY AND BIOPROCESS INDUSTRIES.

Lalitha - III YEAR

TISSUE ENGINEERING IS ONE OF THE MOST INSPIRING AREAS OF BIOTECHNOLOGY, AND AS STUDENTS, IT MOTIVATES US TO LOOK AT SCIENCE WITH A MEANINGFUL PURPOSE. THIS FIELD TEACHES US HOW CELLS, BIOMATERIALS, AND GROWTH FACTORS CAN BE COMBINED TO CREATE ARTIFICIAL TISSUES THAT SUPPORT HEALING AND REGENERATION. THROUGH OUR COURSEWORK, WE LEARN HOW ENGINEERED TISSUES CAN HELP PATIENTS WITH BURNS, ORGAN DAMAGE, OR DEGENERATIVE DISEASES BY PROVIDING SAFER AND MORE EFFECTIVE TREATMENT OPTIONS. LABORATORY SESSIONS ALLOW US TO UNDERSTAND CELL CULTURE TECHNIQUES, SCAFFOLD DESIGN, AND THE FASCINATING PROCESS OF HOW LIVING TISSUES DEVELOP OUTSIDE THE BODY. TISSUE ENGINEERING SHOWS US THE POTENTIAL TO REDUCE ORGAN SHORTAGES AND IMPROVE THE QUALITY OF LIFE FOR MILLIONS OF PEOPLE. AS BUDDING BIOTECHNOLOGISTS, WE FEEL INSPIRED TO CONTRIBUTE TO INNOVATIONS THAT BLEND BIOLOGY AND ENGINEERING TO CREATE SUSTAINABLE, LIFE-SAVING MEDICAL SOLUTIONS. THIS FIELD TRULY STRENGTHENS OUR PASSION FOR RESEARCH AND COMPASSIONATE SCIENCE.

Sri Suganth - II YEAR

BIOCHEMICAL THERMODYNAMICS HELPS US UNDERSTAND HOW ENERGY DRIVES THE REACTIONS THAT SUSTAIN LIFE. AS BIOTECHNOLOGY STUDENTS, LEARNING THIS SUBJECT GIVES US CLARITY ON CONCEPTS SUCH AS FREE ENERGY, EQUILIBRIUM, AND ENZYME ACTIVITY, WHICH ARE ESSENTIAL FOR DESIGNING AND OPTIMIZING BIOPROCESSES. IT SHOWS US HOW METABOLIC PATHWAYS FUNCTION AND HOW REACTIONS CAN BE MADE MORE EFFICIENT IN INDUSTRIAL AND MEDICAL APPLICATIONS. STUDYING THERMODYNAMICS IMPROVES OUR ANALYTICAL THINKING AND HELPS US CONNECT THEORY WITH REAL-WORLD BIOTECHNOLOGY SOLUTIONS. THIS SUBJECT MOTIVATES US TO APPRECIATE THE SCIENTIFIC PRINCIPLES THAT SUPPORT INNOVATIONS IN METABOLIC ENGINEERING, DRUG DEVELOPMENT, AND CELLULAR RESEARCH.





THANK YOU

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