biotecnika
Your Bio Resource

BIOTECH ADMISSION & CAREER GUIDANCE

FOR STUDENTS AFTER NEET

Guidance + Mentorship + Training for a Bright Biotech Future

"Not qualifying NEET isn't the end—it's the beginning of your journey in biotech."

A specialized guidance and training program **exclusively for NEET aspirants who want to shift confidently into the field of biotechnology and life sciences.**

Contact Us :
1800-1200-1818,
080-5099-7000

Visit Us :
www.Biotecnika.org

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BIOTECH ADMISSION & CAREER GUIDANCE

BIOTECH Transition Course

Powered by Biotecnika – India's No.1 Biosciences Career Mentor

- **Start date: Monday, 16th June**
- **Time: 6 -7 PM IST**
- **Mode: Online**
- **Teaching Aids: Presentations, White boards, Videos, Animations**
- **Continuous assessment through Tests**
- **Dedicated Learning portal for all Lecture recordings, tests, ppts, etc.**

1800-1200-1818, 080-5099-7000

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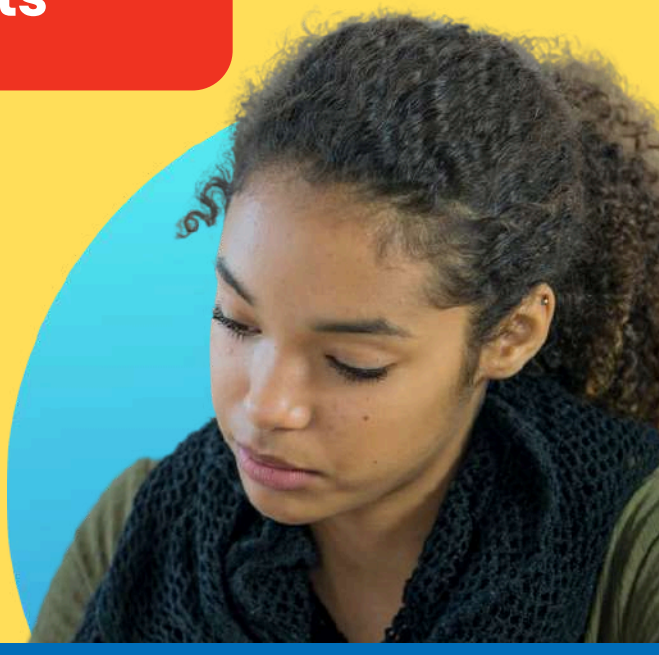
THE REALITY & THE OPPORTUNITY

THE NEET DILEMMA?

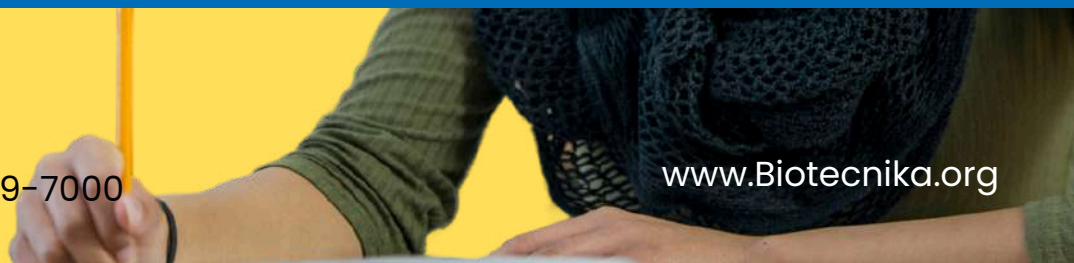
36+ lakh NEET aspirants each year

Less than 1.5 Lakh medical seats

Over 35 lakh students left confused, disheartened, and searching for direction



But biology is so much bigger than just MBBS or BDS....



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HERE'S THE GOOD NEWS

THE BIOTECHNOLOGY AND LIFE SCIENCES SECTOR IS BOOMING, WITH CAREER OPPORTUNITIES IN

AI in Biology & Computational Biology

Research & Innovation

Healthcare & Pharma

Global biotech companies & government labs

Genetic Engineering AgriTech, Biomanufacturing

1800-1200-1818, 080-5099-7000

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Why Choose This Course?

You should opt for this course if you:

- Didn't qualify NEET but want a biology-centered career
- Feel overwhelmed about career paths, job opportunities, or higher studies
- Plan to pursue B.Sc. or M.Sc. in Biotech, Microbiology, Life Sciences, or related fields
- Want to stay ahead with smart academic planning and industry awareness
- Plan to pursue B.Sc. or M.Sc. in Biotech, Microbiology, Life Sciences, or related fields
- Are confused about what to do next and need expert guidance

THIS COURSE WILL HELP YOU

01 Transition confidently from NEET to Biotech

02 Understand how to build your profile in B.Sc./M.Sc. years

03 Learn core biotech concepts with expert mentorship

04 Explore research, industry, and global career paths

05 Get access to mentors, scientists & real-world guidance

SCIENTISTS WHO WILL TRAIN YOU

Mrs. Urmimala Ray

Biochemistry Scientist
Scientist

Urmimala Ray is an experienced academic professional & a valuable mentor in the field of Biotechnology and Life Sciences Education, with a Master's degree in Biotechnology from Garden City College, affiliated with Bangalore University.

With almost 15 years of teaching experience, Urmimala has passionately trained, mentored, and facilitated the academic journeys of B.Sc, M.Sc Life Sciences students, as well as CSIR NET, GATE, and DBT aspirants. Currently serving as a Category Head of BioIT department and Academic Specialist at Biotecnika

she remains committed to guiding students toward academic excellence and competitive exam success.

Throughout her career, she has supervised and guided numerous college-level research projects, instilling research aptitude and scientific thinking in students. She has also been actively involved in college admission camps, academic promotion consortiums, and has co-organized college-level events, national conferences, symposiums, science exhibitions, and job fairs. She has also provided career guidance and mentorship to numerous students, helping them make informed decisions about higher education, research opportunities, and industry roles in the biosciences domain

SCIENTISTS WHO WILL TRAIN YOU

Dr. Elamathi

ALML & Bioinformatics Scientist

Dr. Elamathi Natarajan is a dedicated bioinformatician with a robust background in computational biology, data analysis, and genomics. Holding a Doctorate in Bioinformatics from Dr. A.P.J Abdul Kalam Technical University and an MBA in Information Systems Management, she has made significant contributions to the field through both research and teaching.

she has served as an Assistant Professor and Head of Department (HOD) In-Charge at Kalinga University, Raipur, where she excelled in lecturing, research, and departmental management. At Biotecnika Info Labs Pvt Ltd, Bangalore, she played a key role in academic support, enhancing student success through coaching and program development.

Elamathi's expertise includes developing bioinformatics pipelines, conducting quality assessments, and applying machine learning algorithms to genomics data.

Recognized for her work, including a Senior Research Fellowship from the Indian Council of Medical Research (ICMR), she continues to drive innovation in bioinformatics and is seeking a new challenge to further advance scientific discoveries.

SCIENTISTS WHO WILL TRAIN YOU

Mrs. Tithi Saha

Genetics Scientist
Biotecnika

Tithi Saha is a seasoned educator and life sciences expert with a strong academic and research background in Biotechnology. She holds a Master's degree in Biotechnology from the prestigious Nirma University, Ahmedabad, and successfully qualified the CSIR-NET examination in 2009, a testament to her academic excellence and deep subject understanding. She has also been a Gold Medallist of her batch.

She began her academic career as an Assistant Professor at Guru Ghasidas Vishwavidyalaya, Bilaspur, where she played a pivotal role in teaching and mentoring students in core areas of life sciences. For the past 10 years, she has been an integral part of Biotecnika, one of the most trusted platforms for life sciences education and research training in India and currently working as Category Head of Competitive Exams.

With over a decade of teaching and mentoring experience, her areas of expertise include Genetics, Molecular Biology, Molecular Tools, and Evolution. She is known for her clarity of concepts, structured teaching approach, and her ability to make complex topics both engaging and accessible to students. Passionate about nurturing the next generation of scientists, she continues to inspire thousands of GATE, CSIR-NET, and life sciences aspirants across the country.

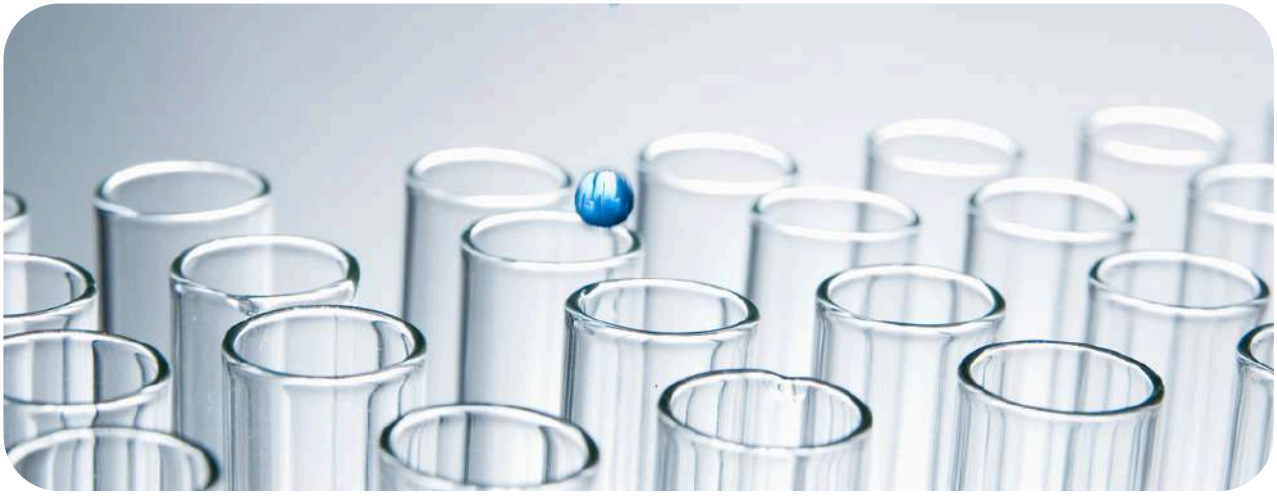
SCIENTISTS WHO WILL TRAIN YOU

Mr.Prodyot Banerjee

CADD, Bioinformatics & Genomics Scientist

Prodyot Banerjee is a seasoned professional in Computer-Aided Drug Designing, Bioinformatics Analysis, and Genomics, boasting rich experience from institutions like CSIR-IGIB, CSIR-CLRI, IIT Madras, and Delhi Technological University.

With an M.Tech in Bioinformatics from Delhi Technological University, Prodyot has excelled in research and development roles, presenting his work at prestigious venues like IIT Kharagpur. His research is published in esteemed journals such as IEEE and Frontiers in Pharmacology, with more underway. Prodyot's GATE 2019 qualification from IIT Madras underscores his dedication to both academic excellence and professional growth. With a proven track record and relentless pursuit of knowledge, he is a valuable asset in bioinformatics, genomics, and computer-aided drug design endeavors.



SCIENTISTS WHO WILL TRAIN YOU

Dr. Tanushree Saxena

Molecular Biology Scientist
Biotecnika

Dr. Tanushree Saxena is an accomplished expert in Genetics, Molecular Biology, and Research Techniques, with a Ph.D. in Biotechnology. She brings over 9 years of teaching experience and 5 years of hands-on research expertise to her current role as Category Manager – Clinical Research & Allied Fields and Academic Support Specialist at Biotecnika.

Her academic journey includes a significant research tenure at the Birla Institute of Scientific Research (BISR), a sister concern of BIT Mesra, Ranchi, where she contributed to various research projects, authored scientific publications and book chapters, and mentored postgraduate and undergraduate students in dissertations and training programs. Dr. Saxena has also served as a lecturer and guest faculty across several reputed institutions.

A recipient of the prestigious DAAD Fellowship, she attended a summer school at Leibniz University, Hannover, Germany.

She has consistently topped her classes, securing top ranks in her Ph.D. coursework, postgraduate Biotechnology, and undergraduate Botany. Her academic brilliance is further highlighted by multiple awards for oral and poster presentations at national and international conferences.

SCIENTISTS WHO WILL TRAIN YOU

Ms. Snigdha Tiwari

Clinical Research & Bioinformatics Trainer | Expert in Computational Biology, Telemedicine & Data-Driven Healthcare

Ms. Snigdha Tiwari, a highly accomplished Senior Research Fellow from IIT Roorkee, with over five years of experience in Computational Biology, Bioinformatics, and Telemedicine System Design.

Ms. Snigdha has made significant contributions at the intersection of basic and applied research, particularly in protein-protein and protein-ligand interactions, molecular docking and simulation studies, and healthcare/clinical data management. One of the highlights of her work includes leading the development of the UTSARJAN App, a digital health platform designed for pediatric nephrotic syndrome data collection & clinical research in collaboration with AIIMS Delhi.

Currently pursuing a PhD in Computational Biology at the Translational Bioinformatics Lab, [Ms. Sngdha] brings a rich academic foundation with a background in Chemistry and Bioinformatics, alongside a passion for interdisciplinary research and advancing biotechnology/healthcare through innovation and collaboration. She currently serves as an Academic Support Specialist in the BIO-IT and Clinical Research department in Biotecnika.

SCIENTISTS WHO WILL TRAIN YOU

Shweta Birajdar

Regulatory Affairs & Clinical Data Management Scientist at Biotecnika Worked at TCS, Aston Carter, and EVERSANA

Shweta Birajdar is an industry expert in regulatory affairs, clinical data management, and drug safety, with extensive experience in compliance, regulatory submissions, and quality assurance. Her expertise spans across regulatory documentation, dossier preparation, and compliance with global regulatory frameworks, making her an ideal mentor for this program.

Her vast industry experience includes roles as:

- Regulatory Affairs Specialist Manager at Regulatory Standards, Jeddah – Led a team of 29 regulatory associates, ensuring compliance with SFDA regulations.
- Senior Analyst at EVERSANA – Worked on pharmaceutical market research and data analysis.
- Regulatory Reporting Specialist at Aston Carter – Focused on automating and scheduling regulatory reports.
- Clinical Data Management Specialist at Tata Consultancy Services (TCS) – Developed and delivered training programs on GCP, data validation, and regulatory reporting.

Shweta's expertise and hands-on approach will equip participants with the skills needed to excel in the regulatory affairs domain.

SCIENTISTS WHO WILL TRAIN YOU

Mrs. Somrhita Pal

Plant Biotech Expert
Biotecnika

Somrhita Pal holds a M.Sc. and B.Ed., along with NET qualification, and has been actively involved in academics for over 11 years, specializing in Cell Biology, Genetics,and Plant Biotechnology.

A Master's from Calcutta University, she began her teaching career as a lecturer at the college level, where she served for five yearsbefore joining Biotecnika. She has also served as an instructor in a UGC-sponsored National Workshop on Mushrooms Cultivation.

Her research contributions include publications in both national and international platforms, such as MDPI's Journal-Agriculture and Science and Culture, with a focus on plant regeneration, morphogenesis, and sustainable agriculture. Her professional philosophy is deeply rooted in the belief that gathering knowledge is a passion, and spreading it is a devotion.

Dr. Nilofer K Shaikh

Bioinformatics global
Scientist, Biotecnika

With a strong background in big data analysis using computational approaches in cancer omics data, Ms. Nilofer K Shaikh brings a wealth of experience from MIT ADT University. Her expertise spans cancer research, drug design, molecular dynamics simulation, data mining, and various omics technologies. Proficient in Python, R, and computational methodologies, she has a deep understanding of genomics, metabolomics, proteomics, transcriptomics, pharmacogenomics, and AI for cancer treatment. Her skillset also includes machine learning, MySQL database management, and natural language processing (NLP

SCIENTISTS WHO WILL TRAIN YOU

Ms. Geethanjali

Pharmacovigilance & Drug Safety Trainer

Ms. Geethanjali holds a Master's degree in Pharmacy and brings 3.5 years of diverse experience across multiple domains. She previously worked as a Pharmacovigilance Associate, gaining valuable expertise in drug safety and Case Processing. Currently, she is working with Biotecnika as an Academic Support Specialist in pharmacovigilance.

Mrs. Divya S.

Precision medicine expert Biotecnika

With a strong academic foundation in plant biotechnology and molecular biology, Ms.Divya S. holds over two years of research and mentoring experience from the University of Kerala, where she guided both postgraduate and undergraduate students through their dissertation work.

Her expertise lies in plant tissue culture, molecular techniques, and gene expression analysis. She secured an All India Rank of 20 in the CSIR NET Life Sciences examination in 2018. For the past six years, she has been contributing as an AcademicSupport Specialist at Biotecnika, helping students and researchers excel in competitiveexams and research domains within the life sciences.

SCIENTISTS WHO WILL TRAIN YOU

Mr. Kowshik

Pharmacovigilance & Drug Safety Trainer

Mr. Kowshik is a dynamic and results-driven professional with over seven years of experience in Pharmacovigilance. He brings specialized expertise in quality and compliance, Medical Coding, Drug Safety, Audits, and Drug Development. With a strong foundation in team coordination, Mr. Kowshik brings extensive experience and deep expertise in pharmacovigilance regulations and coding dictionaries, acquired over the course of his impressive career.

Beginning as a Junior Data Analyst at Cognizant, he has held key roles, including Drug Safety Associate at Bioclinica, Medical Service Analyst at Accenture, and Operations Specialist I at IQVIA. Currently, he serves as a Pharmacovigilance and Drug Safety Trainer at Biotecnika, where he continues to share his expertise and passion for the field.

Kavitha

Kavitha is a dedicated Clinical Research Professional with two years of hands-on experience in clinical research and clinical operations. With a strong foundation in Good Clinical Practice (GCP) guidelines and regulatory requirements, Kavitha has supported the planning, coordination, and execution of clinical trials across various phases.

As a Clinical Research Trainer, she is passionate about sharing knowledge and supporting the professional development of research teams. She specializes in creating and delivering training sessions that cover essential clinical research concepts, site operations, protocol compliance, and ethical practices. Her approach is practical, engaging, and focused on building confidence and competence in new professionals entering the clinical research field.

With a keen eye for detail and a commitment to quality and compliance, Kavitha aims to foster a learning environment that supports operational excellence and high standards in clinical trial conduct.

Module -1 INTRODUCTION TO BIOTECH & LIFE SCIENCES SCOPE & OPPORTUNITIESS

LEARNING OUTCOMES AND CAREER BENEFITS

What will you learn?

Students will learn the fundamentals of biotechnology, including its history, everyday applications like curd, bread, and vaccines, and key areas such as medical, agricultural, industrial, environmental, and computational biotechnology. They will explore diverse career paths—from research and entrepreneurship to interdisciplinary roles combining biotech with law or AI. The module also highlights landmark Nobel-winning discoveries that have shaped modern biotechnology, inspiring students with real-world impact and innovation.

How will it help you?

This module will help students understand the real-world relevance of biotechnology and the wide range of career opportunities it offers. By exploring both foundational concepts and cutting-edge innovations, students can make informed academic and career choices, discover areas of interest, and gain inspiration to pursue impactful roles in science, technology, healthcare, and beyond.

FULL CURRICULUM OVERVIEW

DAY	Modules	Sub-topics
Day 1	1 Introduction to Biotech & Life Sciences: Scope & Opportunitiess	Brief history and definition of biotechnology, Simple biotech around us: curd, bread, vaccines, genetically modified crops (Common example)
Day 2		Branches of Biotechnology & Life Sciences- Medical, Agricultural, Environmental, Industrial, Computational biology and bioinformatics, Law and order (forensics and IPR)
Day 3		Career Paths in Biotech-Biotech researcher, genetic counselor, bioinformatics analyst; Biotech entrepreneur/startups (bioplastics, health tech); Drug discovery scientist, agricultural biotechnologist; Interdisciplinary careers: Law + Biotech (IPR), AI + Biotech
Day 4		Nobel Stories in Life Sciences (Paul Berg – Recombinant DNA (1980), Kary Mullis – PCR invention (1993), Andrew Z. Fire and Craig C. Mello- RNA interferance (2006), Sir John B. Gurdon and Shinya Yamanaka (2012)-Cellular reprogramming, Jennifer Doudna & Emmanuelle Charpentier – CRISPR gene editing (2020), Katalin Karikó and Drew Weissman- mRNA vaccine (2023), Victor Ambros and Gary Ruvkun (2024)- miRNA mediated gene regulation, David Baker, Demis Hassabis, and John Jumper(2024)- computaional protein structure prediction

Module -2 BIOTECHNOLGY BASICS AND BEYOND

LEARNING OUTCOMES AND CAREER BENEFITS

What will you learn?

You will gain a strong foundation in core biotechnology concepts, including cell division (mitosis and meiosis), DNA/RNA structure and function, and the central dogma processes. The module also covers classical and molecular genetics, including inheritance patterns and human genetic disorders. Additionally, you will learn the basics of enzyme function and kinetics, along with key immunology principles such as immune cells, antigens, and antibody responses.

How will it help you?

This module builds essential knowledge for understanding how life works at the molecular level—crucial for any career in biotechnology, medicine, or life sciences. It provides the conceptual groundwork needed for advanced topics, entrance exams, and research, while also making real-world connections through examples like genetic disorders and immune responses.

DAY	Modules	Sub-topics
Day 5	2 Biotechnolgy Basics and Beyond	Cell division- Mitosis and Meiosis
Day 6		Structure of DNA and RNA, DNA packaging
Day 7		Central Dogma: Replication, Transcription, Translation, Replication (detail)
Day 8		Transcription
Day 9		Translation
Day 10		Chromosome theory of inheritance; chromosomes and genes;
Day 11		Sex linked inheritance - haemophilia, colour blindness;

Day 12	2 Biotechnolgy Basics and Beyond	Mendelian disorders in humans - thalassemia; Chromosomal disorders in humans- Down's syndrome, Turner's and Klinefelter's syndromes.
Day 13		Enzyme and enzyme kinetics
Day 14		Immunology- Basic concepts- Part 1
Day 15		Immunology- Basic concepts- Part 2
Day 16		Immunology- Basic concepts- Part 3

Module -3 GENETIC ENGINEERING & GENOMICS

LEARNING OUTCOMES AND CAREER BENEFITS

What will you learn?

You will learn the principles and evolution of genetic engineering, including key tools like plasmids, vectors, and restriction enzymes, as well as gene transfer methods and modern techniques like CRISPR-Cas gene editing. The module also introduces applications of Recombinant DNA technology along with the significance of large-scale projects like the Human Genome Project, genomics, and proteomics.

How will it help you?

This module equips you with the knowledge of how genes are manipulated and studied—essential for fields like genetic research, diagnostics, drug development, and synthetic biology. It also builds awareness of cutting-edge tools and technologies, preparing you for careers or higher studies in biotechnology, genomics, and biomedical sciences.

FULL CURRICULUM OVERVIEW

DAY	Modules	Sub-topics
Day 17	3 Genetic Engineering & Genomics	Recombinant DNA Technology –Intro, history and its evolution
Day 18		Tools: Plasmids, Vectors, Restriction Enzymes
Day 19		Gene transfer methods- physical, chemical, biological
Day 20		Gene editing tool: CRISPR-Cas simplified
Day 21		GM animals- in research, in molemular pharming, Xenotransplantation
Day 22		Human Genome Project, Genomics & Proteomics

Module -5 MEDICAL BIOTECHNOLGY AND DIAGNOSTICS

LEARNING OUTCOMES AND CAREER BENEFITS

What will you learn?

You will learn the role of microorganisms in biotechnology, including their use in food processing, energy production, and as bio-control agents. The module also covers antibiotic production, antimicrobial resistance, and key microbial and parasitic diseases affecting humans, along with their prevention and treatment. Additionally, you'll explore the basics of cancer and HIV/AIDS, including their causes, diagnosis, and therapeutic approaches.

How will it help you?

This module helps you understand how microbes influence health, industry, and the environment, building a strong foundation for careers in medical biotechnology, microbial research, public health, and pharmaceutical sciences. It also prepares you to engage with global health challenges like antimicrobial resistance, infectious diseases, and cancer from a biotech perspective.

FULL CURRICULUM OVERVIEW

DAY	Modules	Sub-topics
Day 23	**4** Microbial Biotechnology and Human Health	Microbes in food processing
Day 24		Energy generation and microbes as bio-control agents
Day 25		Antibiotic and its production, Anti-microbial resistance
Day 26		Human Health and Disease Pathogens; parasites causing human diseases (malaria, dengue, chikungunya, filariasis, ascariasis, typhoid, pneumonia, common cold, amoebiasis, ring worm) and their control;
Day 27		GM animals- in research, in molemular pharming, Xenotransplantation
Day 28		Human Genome Project, Genomics & Proteomics

Module -5 MEDICAL BIOTECHNOLGY AND DIAGNOSTICS

LEARNING OUTCOMES AND CAREER BENEFITS

What will you learn?

You will learn how biotechnology is applied in modern medicine and diagnostics and various types of vaccines such as traditional and mRNA-based COVID vaccines. The module also covers stem cell therapy, gene therapy, and commonly used diagnostic tools.

How will it help you?

This module helps you understand how cutting-edge biotechnological tools are transforming healthcare by enabling personalized treatments, early disease detection, and innovative therapies. It is especially valuable for students interested in careers in biomedical research, clinical diagnostics, pharmaceutical development, or healthcare technology innovation.

FULL CURRICULUM OVERVIEW

DAY	Modules	Sub-topics
Day 29	**5** Medical Biotechnolgy and Diagnostics	Monoclonal antibodies, Precision medicines
Day 30		Vaccines: Traditional vs mRNA, COVID vaccine
Day 31		Stem cells & gene therapy
Day 32		Diagnostic tools: Blood group test, ELISA, RT-PCR, Biosensors

Module -6 AGRICULTURAL & ENVIRONMENTAL BIOTECHNOLOGY

LEARNING OUTCOMES AND CAREER BENEFITS

What will you learn?

You will learn how biotechnology is applied to address challenges in agriculture and the environment. The module also covers sustainable solutions such as bioremediation, biofuels, biofertilizers, and biopesticides that support pollution control and eco-friendly farming.

How will it help you?

This module highlights how biotechnology contributes to food security, sustainable agriculture, and environmental conservation, making it ideal for students interested in agricultural sciences, environmental biotech, or green technologies. It also prepares learners to explore solutions for global issues like climate change, resource depletion, and clean energy.

FULL CURRICULUM OVERVIEW

DAY	Modules	Sub-topics
Day 33	**6** Agricultural & Environmental Biotechnology	GM Crops (Bt Cotton, Golden Rice)
Day 34		Bioremediation & Pollution Control
Day 35		Biofuels and Sustainable Development
Day 36		Bio-fertilizers and Biopesticides

Module -7 TOOLS, TECHNIQUES & VIRTUAL LABS

LEARNING OUTCOMES AND CAREER BENEFITS

What will you learn?

You will learn essential biotechnology tools and laboratory techniques, including microbiological plating, microscopy, DNA sequencing methods, PCR, gel electrophoresis, centrifugation, and biochemical assays. The module also covers basic biostatistics, tissue culture techniques for plants and animals, and applied topics like DNA fingerprinting and genetic counseling in forensic science. All the techniques will be demonstrated with animations and lab videos.

How will it help you?

This module provides hands-on knowledge of fundamental experimental and analytical methods critical for research and diagnostics in biotechnology. It prepares you for practical lab work, data analysis, and applied biotech careers, while building skills relevant for advanced studies and interdisciplinary fields like forensic science and genetic counseling.

FULL CURRICULUM OVERVIEW

DAY	Modules	Sub-topics
Day 37	**7** Tools, Techniques & Virtual Labs	Microbiology- Part 1- Plating techniques
Day 38		Microbiology- Part 2 Microscopy
Day 39		Molecular Biology- Part 1-Basics of DNA sequencing (Sanger vs NGS),Basics of PCR,
Day 40		Molecular Biology- Part 2- Gel Electrophoresis- Agarose and SDS-PAGE
Day 41		Molecular Biology- Part 3 - Centrifugation
Day 42		Biochemistry- Spectrophotometry, pH, Benedict's test, Biuret test (demo/animation)
Day 43		Biostatistics (basic) - mean, median, mode, Standard deviation; Need and importance of biostatistic methods
Day 44		Tissue culture- plant, animal
Day 45		Forensic science- DNA fingerprinting, Genetic counselling

Module -8 BIOINFORMATICS & AI ML - TOOLS AND DATABASES

LEARNING OUTCOMES AND CAREER BENEFITS

What will you learn?

You will learn key bioinformatics tools and databases, including DNA barcoding for applications like adulteration detection and wildlife forensics, DNA data storage concepts, and sequence alignment using BLAST. The module also covers mutation detection, 3D protein visualization, and introduces the basics of AI, machine learning, and data science in biotechnology. All the topics will be taught with live database/tool demonstrations.

How will it help you?

This module equips you with computational skills essential for modern biological research and data analysis. Understanding bioinformatics and AI/ML applications prepares you for careers in genomic research, personalized medicine, biotech innovation, and emerging interdisciplinary fields that combine biology with data science.

FULL CURRICULUM OVERVIEW

DAY	Modules	Sub-topics
Day 46	**8** Bioinformatics & AI ML - Tools and databases	DNA Barcoding- basic and applications (aldultration detection, wildlife forensic)
Day 47		DNA data storage
Day 48		BLast - sequence allignment
Day 49		Mutaion detectiong using bioinformatics tools
Day 50		3D-visualization of protein
Day 51		AI/ML and Data science- Basic Introduction

Module -9 ROADMAP TO BIOTECH INDUSTRY- RESEARCH AND ENTREPRENEURSHIP

LEARNING OUTCOMES AND CAREER BENEFITS

What will you learn?

You will explore the educational pathways in biotechnology, including undergraduate and advanced course options, key entrance exams, and top institutes in India and abroad. The module covers diverse Life science based career tracks along with insights on internships, projects, job profiles, and global opportunities in biotech entrepreneurship and innovation.

How will it help you?

This module guides you in planning a successful academic and professional journey in biotechnology, helping you make informed decisions about courses, competitive exams, and career paths. It also equips you with practical tips for securing internships and projects, preparing you to thrive in the biotech industry or start your own venture.

FULL CURRICULUM OVERVIEW

DAY	Modules	Sub-topics
Day 52	**9** Roadmap to Biotech industry Research and entrepreneurship	UG options: BSc/BTech Biotech, Micro, Genomics, Bioinfo, forensic science, environmental science
Day 53		Advanced courses: AI/ML, Data science, Clinical Research, Biomedical science, Marine biology
Day 54		Top Institutes & Entrance Exams(UG and PG level): CUET (UG and PG), GAT-B, IISER, IIT (GATE), JNU, IISc, CSIR-UGC NET
Day 55		Global institutes and Exams - Foreign universities
Day 56		Career tracks: Research, Teaching, Industry, Healthcare, Patent Law; Salary trends, job profiles, global opportunities
Day 57		Internships & Projects: How to Find, Apply & Succeed (IISER, IISc, JNCSAR, NCBS, TIFR, IITs, NII, IGIB, CCMB)

Module -10 CAREER GUIDANCE/ COUNSELLING SESSIONS

LEARNING OUTCOMES AND CAREER BENEFITS

What will you learn?

You will learn essential career skills such as resume building, professional LinkedIn and email etiquette tailored for science students. The module emphasizes the importance of upskilling through certifications, internships, and hands-on training. It also provides guidance on higher studies and includes dedicated doubt-solving and admission support sessions.

How will it help you?

This module prepares you to effectively present your skills and connect professionally, boosting your chances in job and academic opportunities. It equips you with strategies to continuously enhance your expertise and navigate higher education and career decisions with confidence.

FULL CURRICULUM OVERVIEW

DAY	Modules	Sub-topics
Day 58	10 Career guidance/ counselling sessions	Resume Building, LinkedIn & Email Etiquette for Science Students
Day 59		Beyond the degree (Importance and need of upskilling through certification courses, internships, hands-on trainings etc.)
Day 60		Higher Study Guide
Day 61		Doubt solving and admission guidance Session 1
Day 62		Doubt solving and admission guidance Session 2

Module -11 CAMPUS CONNECT (MEET THE MENTORS)

What will you learn?

You will gain firsthand insights from deans, professors, and research scholars about various academic programs, course structures, eligibility criteria, and career opportunities across leading institutes. This direct interaction will provide clarity on choosing the right courses and institutions aligned with your i nterests and goals.

How will it help you?

This module helps you make well-informed decisions about your education and career by connecting you with experts who can guide you on academic pathways, research opportunities, and future prospects. It also allows you to build valuable networks and clarify doubts directly from mentors.

INSTITUTE 1

INSTITUTE 2

INSTITUTE 3

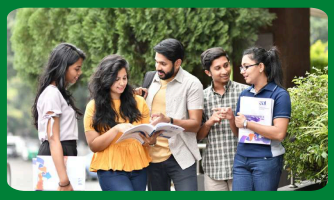
BONUS SESSION

You will gain firsthand insights from deans, professors, and research scholars about various academic programs, course structures, eligibility criteria, and career opportunities across leading institutes. This direct interaction will provide clarity on choosing the right courses and institutions aligned with your interests and goals.

Choose Your Path: Flexible Pricing Plans

CHOOSE FROM THREE TAILORED PLANS BASED ON YOUR GOALS, DURATION, AND SUPPORT LEVEL.

₹24,990
FOUNDATION PLAN



BEST FOR: STUDENTS SEEKING A QUICK, POWERFUL TRANSITION AFTER NEET

Duration: 65 Day

- 2 Months of Live + Recorded Online Classes
- Core Concepts: Biotech, Biochem, Genetics, Cell Biology
- Career Orientation: Research, Industry, Academia
- Weekly Motivation + Strategy Sessions
- Biotecnika Certification on Completion

₹48,990
PRO TRANSITION PLAN

STUDENTS STARTING B.SC. OR ALREADY IN THEIR 1ST YEAR WHO WANT EXTENDED SUPPORT

Duration: 6 Months

Everything in Foundation Plan PLUS:

- 2 Months of Live + Recorded Online Classes
- Core Concepts: Biotech, Biochem, Genetics, Cell Biology
- Career Orientation: Research, Industry, Academia
- Weekly Motivation + Strategy Sessions
- Biotecnika Certification on Completion

₹88,990
GRADUATION MENTORSHIP PLAN

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