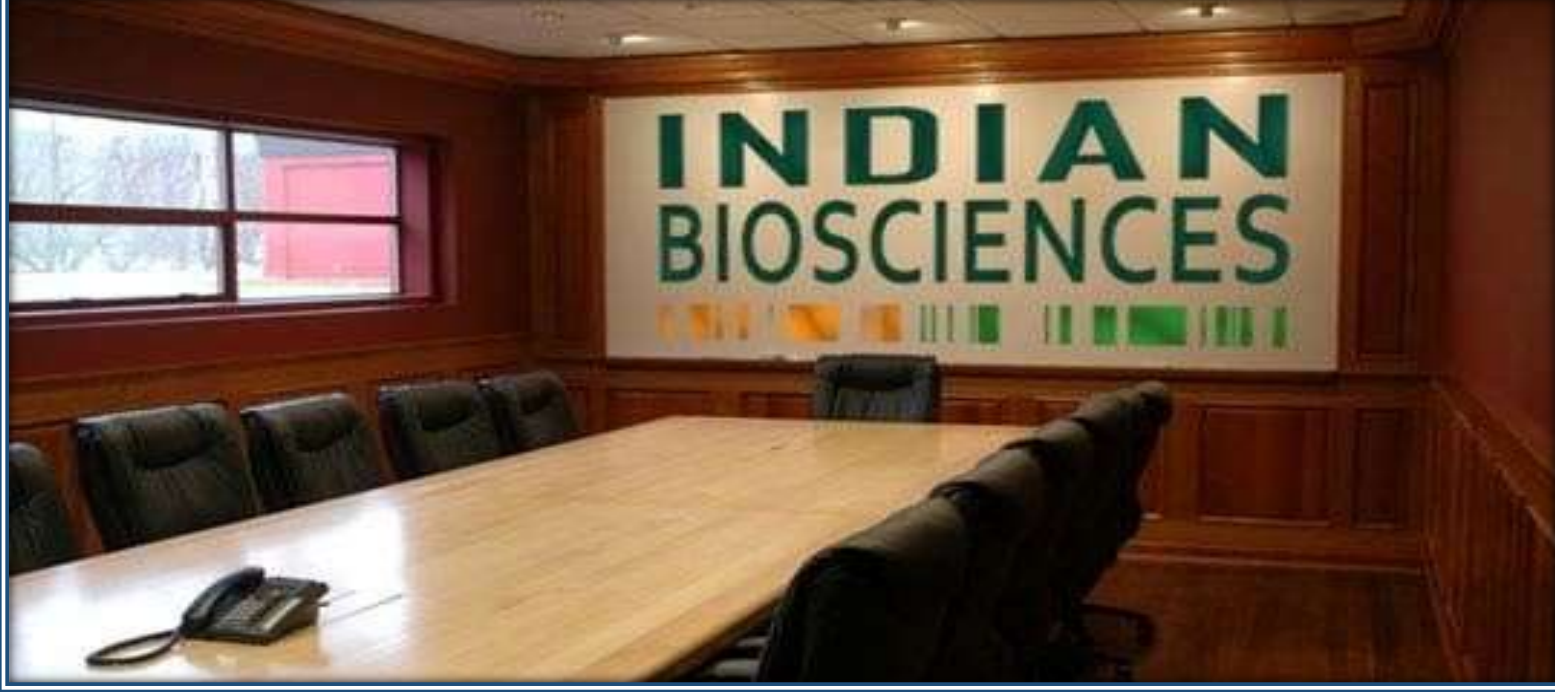




# TRAINING PROSPECTUS 2017-18

**INDIAN<sup>TM</sup>  
BIOSCIENCES**  
DNA TESTING SIMPLIFIED



## **ABOUT US**

Indian Biosciences Institute of Technology (**INBIT**) is a Biotechnology Training Institute based in Delhi/NCR.

We offer industry oriented and certified training programs in the field of Biotechnology, to professionals and students. Our training modules are designed in manner as to cover prevalent areas like DNA Fingerprinting, Bioinformatics and Next Generation Sequencing. We provide hands-on related biotechnology training to our trainees on some of the best world-class equipment. All our faculty is well trained in laboratory techniques and have years of experience from International Laboratories. The career prospects of all our trainees are enhanced on completion of their biotechnology short term training program with us. Suitable candidates are given lucrative job offers to join us.

We are headed by an eminent Professor Dr. K.S. Mehta, who comes with 40 years of rich experience in teaching, strategic planning, handling overall operations of organizations specializing in the fields of Biotechnology, Computer Software, IT Consultancy, Publications and Biotech Education. Himself an esteemed professor, Dr. K.S. Mehta is highly involved in imparting training in Genetic sciences and Forensic Sciences to the younger generation.

Indian Biosciences is a leading name in the field of DNA Testing and Genetics in the country. We provide DNA Testing services for establishing relationships, legal purposes, forensics, Immigration, fingerprinting and disease diagnostics. We are actively involved in Genetics Research on Disease Markers and Plant Cloning. We work in close coordination with many Multinational Companies, Government Bodies, Embassies, Hospitals, Clinics, Doctors and Medical Research Institutions.

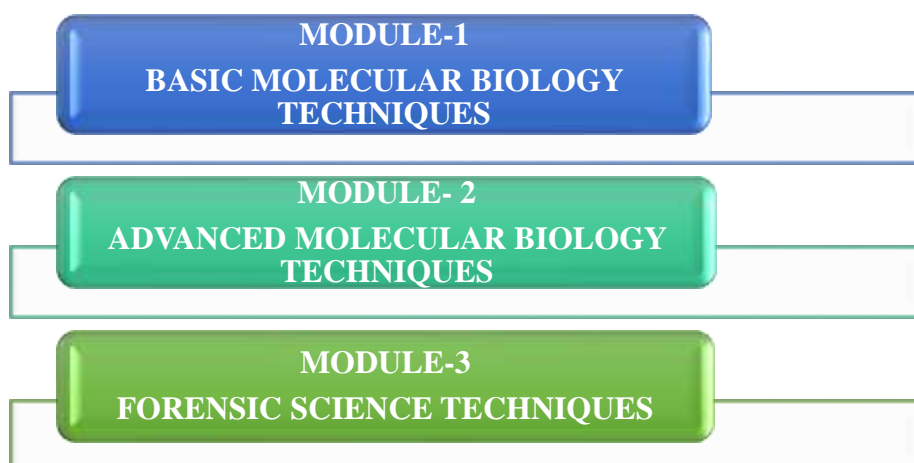


# Course Module

## OUR MODULES

- **Basic Molecular Biology Techniques** including DNA isolation, AGE, PAGE, Bioinformatics, etc. (Duration: 4-6 weeks)
- **Advanced Molecular Biology Techniques** starting from DNA isolation from different sources to STR Analysis (Duration: 4-6 weeks)
- **Forensic Biology Techniques** including Body Fluid Detection techniques, Hair, Semen, Saliva identification through DNA analysis, along with STR analysis and Report interpretation. (Duration: 4-6 weeks)
- **Project Work in Relevant topics in Molecular Biology and Forensic Biology:** From providing the topic, hands-on Training to providing literature (3 -6 months)

*Certificates are provided to all trainees* on completion of their respective modules. Project work guidance and support is available to final year college students. The biotechnology training program will be offered in **Biotech Summer training** (Apr-Sept) and **Biotech Winter training and Project Work** (Oct-March) schedules.



# OUR MODULES IN DETAIL

Module – 1		Duration: 4 Weeks
Basic Molecular Biology Techniques		Fee: Rs. 7,500/-
<p><b>Conceptual Basics &amp; Scope of Biotechnology</b> Genes, Nucleic Acid, Nucleotides &amp; Nucleosides, DNA Polymerase, Genetic code, Alleles. History Ongoing Biotech Projects</p>	<p><b>Basic Molecular biology techniques &amp; applications</b> Isolation &amp; Visualization of Nucleic acid DNA isolation from plant source DNA isolation from buccal mucosa Agarose Gel Electrophoresis (AGE) Polyacrylamide Gel Electrophoresis (PAGE) SDS-PAGE ELISA RFLP</p>	
<p>Introduction to biotech laboratory Good Laboratory Practices Basic instrument handling Solution Preparation</p>	<p><b>Bioinformatics</b> Introduction to Bioinformatics. Application &amp; Research, Present Scenario</p>	
Module – 2		Duration: 4 Weeks
Advanced Molecular Biology		Fee: Rs. 8,500/-
<p><b>Advanced Concepts of Biotechnology</b> SSCP RFLP STR VNTR</p>	<p><b>Reagent Preparation</b> Reagent preparation of different molarities. Reagent preparation of different concentrations. Blood group estimation</p>	
<p><b>Advanced Molecular Biology Techniques &amp; Applications</b> Isolation &amp; Separation of Nucleic Acid (DNA) from Various Sources - Plant leaves, Green gram seeds, Saliva, blood etc. Qualitative &amp; Quantitative Analysis of DNA through Gel Electrophoresis Polyacrylamide Gel Electrophoresis (PAGE) Electrophoresis and Elution of DNA Restriction Digestion of <math>\lambda</math> DNA using molecular scissors</p>	<p><b>PCR and its application</b> Introduction to PCR Handling &amp; Programming Amplification of nucleic acid (DNA) through PCR Electrophoresis of PCR Products Forensic application of PCR Clinical Application of PCR Relationship Testing through PCR</p>	
<p><b>Staining Techniques</b> Silver staining Ethidium Bromide staining</p>	<p><b>DNA Fingerprinting</b> Introduction Application in Human Identification , Relation establishment &amp; Forensics DNA profiling through STR Analysis</p>	
Module – 3		Duration: 4 weeks
Forensic Testing		Fee: Rs. 10,000/-
<p><b>Detection of Blood</b> Benzidine Test Micro Chemical Tests Microspectroscopic test Determination origin of blood stains Grouping of blood stain DNA profiling through STR Analysis</p>	<p><b>Body Fluid Examinations and their DNA analysis</b> Examination of Seminal Stains Physical Examination Chemical Examination Microscopic Examination Age of Seminal Stain</p>	
<p><b>DNA Analysis of Blood Stains</b> Age of blood stains Sexing of blood stains Identification of Menstrual blood stains</p>	<p><b>Examination of Saliva Stains and their</b> Chemical Examination Microscopic Examination Grouping of Saliva Stain</p>	



## **OUR LABORATORY**

INBIT provides hands on training to students pursuing biotechnology and genetics courses with colleges/institutions across the country. INBIT has been setup to nurture young, technical and research oriented minds to build an outstanding career for themselves in the fast growing area of Biotechnology/Genetics Research.

In our training programme, we will imbibe in them, knowledge about DNA, Genetics Forensics, Research, and Bioinformatics and provide an insight into this vast domain. This would entitle them to the best career opportunities in these fields for the next two decades.

We are equipped with world-class instruments and students get hands-on experience on these instruments. From preparation of samples, extracting the DNA, to running it on a gel, analysing the quality and quantity on the PCR to final genetic data analysis, we provide best quality education in the field of Biotechnology and Forensic Sciences

All our faculty is well trained in laboratory techniques and have years of experience from International Laboratories. The career prospects of all our trainees are enhanced on completion of their biotechnology short term training program with us. Suitable candidates are given lucrative job offers to join us.



## *INBIT Student Data 2017*

### Average no. of students in 2017

S.No.	Months	No. of Students
1	January	20
2	Feb	10
3	March	20
4	April	24
5	May	30
6	June	45
7	July	12

### Feedback from students enrolled with INBIT

S.No.	Factors	Rating out of 5*
1	Equipment in the Lab	4
2	Faculty Qualification and Skills	5
3	Teaching Aids	3
4	Hands-on Experience	5
5	Relevance of Experiments	4

\*- 5: Excellent, 4- Very Good, 3: Good, 2: Poor, 1: Very Poor

## WHAT STUDENTS SAY ABOUT US



### TESTIMONIALS

"INBIT has given me good exposure in the field of biotech, the hands-on-training imparted here has helped me work with full confidence in any biotech lab now" says Ishita Shrivastava, Amity University, Noida.

"The availability of latest instruments in their lab and the management by the teachers here have given a boost to my career. I cannot just extract DNA, but also analyse it well. Thanks to their teachers" says Himani Mittal, JECRC University, Jaipur.

Vishal Mavi of Manav Rachna International University and Ankita Pandey of Amity University, Lucknow says "The faculty is qualified and cooperative. They use teaching aids to help us understand everything in detail. They are friendly and handle all our queries with patience. It has been a wonderful experience, giving us confidence and making us ready to enter the professional world. We would highly recommend it to our friends and juniors"

"In their training programme, they imbibe in students, the knowledge about DNA, Genetics Research, Bioinformatics and provide an insight into this vast domain. The students after completing their training are awarded with a certificate that is beneficial to them in getting jobs in the highly competitive biotech sector. This would entitle them to the best career opportunities in these fields for the next two decades" says a Professor of an esteemed university.



**Contact Us**

## **CONTACT US**

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Please feel free to contact us on +91 9818779747/48 in case of any queries. We will be happy to come over and discuss financial terms and course content, best suited to your college.