

School of Applied Sciences, Department of Biotechnology & School of Allied Health Sciences

in collaboration with
Neuberg Anand academy of laboratory medicine Pvt. Ltd.

Offer 1 Month Certification Program in Advanced Molecular Biology in Diagnostics



Key Features

- Understanding on Industrial work culture & requirements-Safety, work environment and soft skills
- Hands on training & demonstration of automated and semi automatic techniques in microbiology
- Advanced tools in microbiology and its applications
- Opportunity to pursue career in diagnostics microbiology
- Hands on training for all modules

About the Certificate Program

An Advanced Molecular Biology in Diagnostics [AMD] involves the use of molecular techniques to study the genome and diagnose diseases. This certificate program is designed to equip individuals with the knowledge and skills required to Molecular diagnostics, also called molecular pathology, involves taking DNA or RNA, the unique genetic code found in our cells, and analyzing the sequences for red flags that can pinpoint the potential emergence of a specific disease. The field has expanded rapidly in recent years. In this certificate program, you can expect to study topics such as molecular biology techniques such as CB NAAT, Genome editing, laboratory safety, Diagnosis in oncology, and Research methodology and writing and so on. The curriculum covers various aspects of AMD, and practical, hands-on experience is often a significant component, allowing students to apply theoretical knowledge in a laboratory setting.

About REVA University

REVA University is a State Private University established in Karnataka State under the Government of Karnataka Act No. 13 in the year 2012 in Bengaluru, the IT capital of India. REVA University, recognised by the University Grants Commission (UGC) and approved by the All India Council for Technical Education (AICTE), has an A+ grade from NAAC.

REVA University prides itself in contributing to every student's holistic development. The University currently offers 37 full-time undergraduate programmes, 28 full-time postgraduate programmes, 19 Ph.D. programmes, and certification and diploma programmes. The University offers programmes in Engineering, Architecture, Science and Technology, Commerce, Management Studies, Law, Arts & Humanities, and Performing Arts. Courses are offered in Certificate/Diploma and Post Graduate Diploma too. REVA University facilitates research leading to a Doctoral Degree in all disciplines. The programmes offered by REVA University are well-planned and designed based on methodical analysis and research with emphasis on knowledge assimilation, practical applications, hands-on training, global and industrial relevance, and their social significance.

Teachers and instructors with illustrious academic experience are the architects of the meticulously designed curriculum and program modules offered at REVA University. They come with industrial exposure and experience that often translates through their teaching, thus bridging the gap between the industry and academia.

About Neuberger Anand academy of laboratory medicine Pvt. Ltd.

Neuberger Anand Academy of Laboratory Medicine (NAALM) is an academic vertical of Neuberger Anand Reference Laboratory, strives to build the required infrastructure to support and sustain:

- Training of qualified professionals in niche areas of diagnostic laboratory medicine.
- Identifying and launching research projects with focus on translational research that would bridge the gap between the scientist and physician.
- Providing cost effective proficiency testing solutions and support to cover a wide range of routine and specialised laboratory tests including molecular tests and genomics.

Who can Attend: M.Sc./B.Sc. Microbiology/biotechnology Biochemistry/Any other life science BSc and MSc-MLT

Outcome: Knowledge gained from this certification at REVA University in collaboration with Neuberger Anand Laboratory will widen scope for career opportunities in the field of diagnostics and other allied fields.

1. Candidate will be able to understand sample flow & activities in Molecular Diagnostics
2. Provide information on both basic and advanced techniques used in Molecular diagnostics
3. Enable individual to know the challenges & opportunities in Molecular diagnostics
4. Provide job opportunity to work as technologist in Molecular Biology unit of diagnostic laboratory

Module Details

Week	Component	Topic
One	Basic Concepts of laboratory working & Basics laboratory techniques of microbiology	Introduction to Diagnostics - Overview, journey of samples
		Lab safety-1 General and Fire
		Lab safety-2 Chemical and mechanical
		Bio safety and biohazard
		Calculations and conversions
Two	Extraction of genetic materials	Basic molecular techniques
		GLP in Molecular biology
		Manual methods- DNA/RNA extraction
		Semi-automated methods- DNA/RNA
		Gel electrophoresis
		Quantification of Nucleic acids

Week	Component	Topic
Three	PCR and analysis of PCR products	PCR workflow
		PCR-1 (Qualitative and Quantitative assay).
		PCR-2 (HIV, HCV, COVID etc.,).
		CB NAAT
		Molecular Diagnosis in Oncology
Four	Quality indicators in Molecular biology	Sequencing techniques in Diagnostics/ Genome editing
		QI in Qualitative Molecular diagnostics
		QI in Quantitative Molecular diagnostics
		Research methodology & Writing
		Evaluation & Conclusions

Registration & Payment Link

<https://www.reva.edu.in/payment>



Total No. of Seats: 15

Duration: 1 Month

Fee Structure: Rs. 10000/-

Date: August 01, to August 30, 2025

Last date for registration: June 30, 2025

Venue: Neuberg Anand Academy, Bowring Hospital Road, Shivaji Nagar, Bangalore

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