



# AMIT

*Admits to the Course of 10th Batch on*

**LEADING TO THE UNIVERSITY DEGREE**

## **M.Sc.BIOTECHNOLOGY**

## **MASTER DEGREE PROGRAMME**

**Approved by Dept. of Higher Education.**

**Govt. of Odisha & Affiliated to Utkal University**

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***Academic Of Management & Information Technology,***

**Recognised By Govt. Of Orissa & Affiliate To Utkal University**

**AN UNIT OF ODISHA RESEARCH & DEPLOYMENT CENTRE TRUST**

**S-3/31, Sector-A, Zone-A, Mancheswar Industrial Estate, Bhubaneswar - 751010,**

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## AMIT

Academy of management and Information technology (AMIT) is the premier institute in the state of Orissa to impart education and research in the sphere of Biotechnology, Journalism & Mass Communication, Management and Information Technology. It is a unit of ODISHA RESEARCH AND DEVELOPMENT CENTRE (ORDC) trust, which is managed by a council of management, consisting of eminent Scientists and qualifications from leading industries, Research Scholars from various laboratories and research centres, management and I.T. professionals, Journalists, Academicians, Administrators and leading public personalities. The major objective of AMIT is to provide world class education. Its aim is to groom and nurture young talent of the country who desire to take up Biotechnology, Bio-information, Genetic Engineering, Biochemistry, Microbiology as a career in their life. In order to face the emerging challenges of scientific revolution, AMIT has, of late, taken the bold step to offer a two-year Post graduation course in Biotechnology which is approved by the Utkal University & Government of Orissa, leading to the university degree of M.Sc. Biotechnology.

## WHY AMIT

Academy of Management & Information Technology (AMIT) is recognized by the Government of Odisha, Department of Higher Education and affiliated to Utkal University. It is located at Bhubaneswar, the capital city of Odisha. The city is witnessing the upsurge of media houses, multinational companies, entrepreneurs, enterprises, academia, dedicated industrial research and development centre and scientific research laboratories. It is considered as a major educational research and trade centre of Orissa. This is the only institute in the state providing the need-based education in Biotechnology programme which course of study is approved by the Utkal University and the University Grants Commission (UGC). AMIT's every effort will be made to send the students to high ranking research institute where in the knowledge and practical skill would be applied properly and enhanced.

## M.SC. BIOTECHNOLOGY

M.Sc. Biotechnology is a new scientific multi-disciplinary professional course, it trains and updates scientific knowledge and skill required for a research fellow in bio-science. It gives the major disciplines like bioinformatics, Microbiology, molecular-biology and biochemistry. Bioinformatics is an integral part of Biotechnology, which promises to help research and development of many other areas, including including medical diagnostic, pathology, Genetic Engineering and the next generation of high throughput biological data acquisition. Bioinformatics uses computer technology for processing and storing of biological information to diagnose the disease of living bodies and discover newer drugs. Microbiology is considered as the backbone of all biology. It is an integrated study of natural Bioscience. This has naturally extended into the realms of Microbiology which occupy a key place, in

biotechnology. As a consequence of this, there has been a considerable expansion in the field of teaching, research and useful presentation of various bio-tech industries. progress Biochemistry is taking place in a very fast. Biochemistry is the heart of life science. It is a fundamental topic of Biotechnology. The syllabus, designed by the Utkal University, to provide degree level studies in all the above discipline with up-to date and balanced account of chemical and biological fundamentals. It is assumed, as a genuine subject matter of biochemistry. Mainly, the elucidation of biochemical processes, past and present, responsible for chemical composition and changes in composition is the biology and its environment. Application of Molecular Biology principles in scientific investigations give a new direction to biotechnology study of molecular Biology has resulted in many new and stimulating developments in virology, immunology, animal cloning, cell culture, production of hormones, antibodies, enzymes, vaccines, virus pre-plants, bioprocess engineering, DNA replication etc. In view of this it was felt that there is a real requirement for the study of the subject in which all the above disciplines have been incorporated along with other relevant subjects. Its remarkable identification in academic, research, industrial application and science, where it is appropriate.

## VALIDITY OF THE COURSE

M.sc. Biotechnology Programme of AMIT is Approved by the Department of Higher Education, Government of Orissa, vide letter No. 25435, dt. 26.05.2005 and Utkal University.

## COURSE PACKAGE

Duration	: 2 years
Total Paper	: 1100
Total mark	: 2000
Internal Marks	: 400(Institute level)
External mark	: 1400(University level)
Examination	: At AMIT (Conducted by Utkal University) Biochemistry
Specialization	: Biochemistry, Microbiology, Genetic Engineering, Molecular biology, Immunology, Marine Biotechnology, Medical Biotechnology, Agricultural Biotechnology etc.

## HOW TO JOIN

The candidates must be from +3 Science discipline or equivalent. There will be an entrance test question paper for admission into the course. The entrance test paper will have questions of objective type on general Awareness. It will be followed by viva-voce. After qualifying in the test, the candidates are required to produce the necessary documents for admission. The prospectus and application form can be obtained from the office of AMIT on any working day from 9 a.m. to 6 p.m. against the payment of Rs. 150/- in cash or Rs. 200/- by MO/DO.

## SEMINAR AND CONFERENCE

Seminar And Conferences are organized by the institute in various fields of Bioscience, with a view to contribute to better understanding of the law on patent, Central dogma of Molecular-biology. Mutation. Immunology. Tissue culture, Protein Prolifcation etc, issue in the context of India and other nations.

## INFRASTRUCTURES, EQUIPMENT AND FACILITIES AT AMIT

In order to keep pace with the Development in the field of M.Sc. Biotechnology especially in areas of computer-based information's the insititute has acquired personal computers, multimedia systems etc. The institute has well furnished Laboratory magazine is soon going to be launched in the Cyber space.

## TRAINING AND PLACEMENT

Special emphasis is laid on training that promises scope for placements. The students are deputed to reputed and celebrated organizations. AMIT has achieved records in giving placements to all the successful students. Campus interviews are organized for the placement of the students. The placement cell makes efforts to identify suitable employment opportunities through contacts with organized working in areas like Agriculture, Pharmaceutical, Medical Biotechnology, Health Organization, Food Industry, Genetic Engineering, Bio-Informatics, Forensic Laboratory, Environments Management etc. students will develop technical and scientific competence, deductive and analytical skills as a preparation for a wide-range of career, The degree in Biotechnology course gives the students more confidence, towards self-employment through in-depth knowledge of techniques, involved with the Industries, utilising Biochemistry

## CAREER AND PROSPECTS

Career opportunities for M.Sc Biotechnology pass-out get placement in professional areas placement like Scientist, Chemist, Biology coordinator, Bio-informatics software Devleoper, Bio-Informatics programme, medicine designer, Genetic Engineer, Quality Control Office, Enviroment Scientist, Research Officer, Scientist Officer, Sequence Analyst, Drugs Technologist, Technical Assistant, Micro-Biologist, Laboratory Technician and other areas where the skill of science graduates is recognized. A Modern Professional Post-Graduation Qualification in Biotechnology Opens up employment opportunities immediately after successful completion of the course.

***Beckoning you to the world of success***

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