

# MBA WITH SPECIALIZATION IN BIOTECHNOLOGY MANAGEMENT

2 years, full-time and residential



## FOCUS AREAS

- ▶ Biotech Plant Management
- ▶ ERP in Biotech Industry
- ▶ Biotech Laboratory Management
- ▶ Entrepreneurship in Biotech
- ▶ Legal & Ethical Laws
- ▶ Drug Discovery & Development

**“India is emerging as an important destination for biotech development requirement of global companies.”**  
Economic Times

Biotech industry made historic progress with strong product pipelines and product successes, record-breaking financing totals, unprecedented deal activity and impressive financial results in the last three years. The global biotech revenues of the public listed companies in 2006 grew to US \$73.5 billion recording a 14% growth over that in 2005 (US \$64 billion). All the leading regions in the world recorded a strong double digit growth, with the US and Europe recording 13 percent growth each and Canada registering 22% growth. Biotech industry in India grew by 37% since the fiscal year 2004-2005. It reached the target of US \$1.50 billion in 2005-2006 and touched 2 billion dollar mark in revenue for 2006-07. In 2007- 2008 industry growth was 20%. It is expected that biotech industry in India will reach the target of US \$5.00 billion by 2010 and generate minimum 100,000 jobs. The changing global economy has created opportunities for the Indian biotech sectors for the joint ventures, mergers and acquisition. Despite the global meltdown, Indian biotech industry continued its progress in the fiscal year 2007-2008 and has been on the progressive tract in the fiscal year 2008-2009. The major sectors of biotech industry demanding for expertise and manpower in the area are molecular biology, biomarker technology, recombinant proteins, industrial biotechnology, nanobiotechnology, biotech IPR issues, biotech regulatory affairs, cGMP, and clinical research management and bio-supply segment. Government and business organizations have been placing emphasis on transfer of technologies from lab to market in biotechnology sector. Management professionals with a technology background can accelerate this process for the benefit of business and commerce at the national and global levels. This advanced postgraduate program equips science and technology students to become management savvy professionals for the biotech industry.

## ELIGIBILITY

Bachelors or Masters Degree in Biotechnology and Bioinformatics, in any branch of Life Sciences, Medical Sciences, Pharmaceutical Sciences, Chemical Sciences, Physical Sciences, Engineering and Technology or equivalent (with minimum aggregate 55% marks or equivalent grades).

# MBA WITH SPECIALIZATION IN BIOTECHNOLOGY MANAGEMENT

## COURSE STRUCTURE

SEMESTER	CODE	COURSE NAME	CREDITS*
<b>SEMESTER I</b>			
	MBO-011	Overview and New Trends in Biotechnology	2
	MBOI-031	Bioinstruments and Equipments	2
	MBOI-032	Biotechnology Laboratory Management	2
	MBM-008	Financial Statement Analysis	3
	MBM-003	Principles of Management	3
	MBM-005	Marketing Management	3
	MBM-006	Organizational Behavior	3
	MBM-007	Managerial Economics	3
	MBM-001	Soft Skills Development-I	3
		<b>Total</b>	<b>24</b>
<b>SEMESTER II</b>			
	MBO-012	Biotechnology Plant Management	3
	MBO-013	Safety and Hazard Management in Biotechnology	3
	MBOI-033	Fermentation Technology and Downstream Processing	3
	MBOI-034	Introduction to Biostatistics	3
	MBOI-035	Methods for Drug Discovery and Development	3
	MBMI-001	Enterprise Resource Planning-I	3
	MBM-016	Corporate Finance Management	3
	MBM-010	Human Resource Management	3
	MBM-002	Soft Skills Development-II	3
		<b>Total</b>	<b>27</b>
<b>SEMESTER III</b>			
	MBOI-036	Simulations and Optimization in Bioprocess Technology	3
	MBO-014	IPR, Regulatory and Ethical Issues in Biotechnology	3
	MBO-015	Biotechnology and Pharmaceutical Industry	3
	MBO-016	Materials Management in Biotechnology	3
	MBO-017	Biotech and Pharmaceutical Product Marketing	3
	MBO-018	Project Management	3
	MBMI-002	Entrepreneurship in Biotechnology	3
	MBM-017	Legal Aspects of Business	2
		<b>Total</b>	<b>23</b>
<b>SEMESTER IV</b>			
	MBOP-009	Internship	14
		<b>Total</b>	<b>14</b>
<b>Total Credits</b>			<b>88</b>

Delivery of an elective will be subject to availability of domain expert / faculty as well as minimum number of students for that particular elective