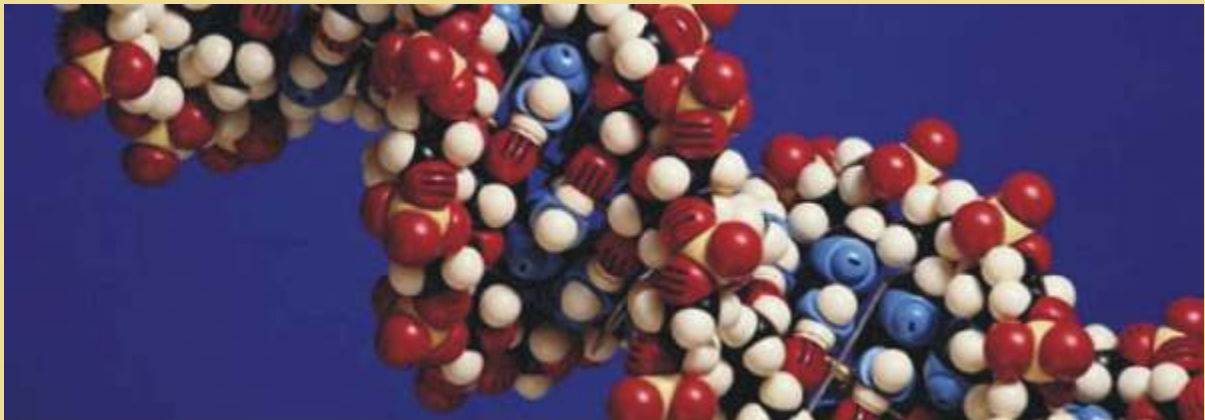


# Advanced Postgraduate Program in Biotechnology Management (APGP-BTM)

An Autonomous Full-Time Residential Postgraduate Program (24 months)

"India is emerging as an important destination for biotech development requirement of global companies."

- Economic Times, 23<sup>rd</sup> November 2008



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 percent 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 percent 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 US\$ 2 billion mark in revenue for 2006-07. In 2007- 2008 industry growth was 20%. It is expected that biotech industry in India will reach a target of US\$ 5 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 the expertise and manpower in the area are molecular biology, biomarker technology, recombinant proteins, industrial biotechnology, nanobiotechnology, biotech IPR issues, biotech regulatory affairs, cGMP, 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 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

Graduates with any recognized Bachelors degree of minimum 3 years in any field with at least 55 percent marks at the graduation level. Graduates in Commerce / Arts / Science / Economics / Statistics / Engineering / Technology are preferred.

## FOCUS AREAS

- ▶ Biotech Plant Management
- ▶ ERP in Biotech Industry
- ▶ Biotech Laboratory Management
- ▶ Entrepreneurship in Biotech
- ▶ Legal and Ethical Laws

# Advanced Postgraduate Program in Biotechnology Management (APGP-BTM)

## COURSE STRUCTURE

|                             | CODE   | COURSE NAME  | CREDITS* |
|-----------------------------|--------|--|----------|
| <b>BRIDGE</b>               | COM001 | Life Skills Development-I                          | 2        |
|                             | COM002 | Life Skills Development-II                         | 2        |
| <b>FOUNDATION</b>           | BM501  | Financial Statement Analysis                       | 3        |
|                             | BM531  | Principles of Management & the Business Enterprise | 3        |
|                             | BM541  | Organizational Behavior                            | 3        |
|                             | BTM501 | Overview of Biotechnology                          | 2        |
|                             | BTM502 | Biostatistics                                      | 3        |
|                             | BTM503 | Biotechnology Laboratory Management                | 3        |
|                             | BTM504 | Bioinstruments and Equipment                       | 3        |
| <b>CORE</b>                 | BM611  | Enterprise Resource Planning - I                   | 3        |
|                             | BM621  | Corporate Financial Management                     | 3        |
|                             | BM641  | Human Resource Management                          | 3        |
|                             | BM651  | Marketing Management                               | 3        |
|                             | ITM601 | Information Management Systems                     | 2        |
|                             | TCM601 | Managerial Economics                               | 2        |
|                             | BTM611 | Biotechnology Plant Management                     | 3        |
|                             | BTM612 | Materials Management in Biotechnology              | 3        |
| <b>ADVANCED</b>             | BM206  | Research Methodology                               | 3        |
|                             | BM711  | Enterprise Resource Planning II                    | 3        |
|                             | BM721  | Quantitative Methods in Business                   | 3        |
|                             | BTM711 | Regulatory Issues in Biotechnology                 | 3        |
|                             | BTM712 | Simulations & Optimization in Biotechnology        | 2        |
|                             | BTM713 | Entrepreneurship in Biotechnology                  | 3        |
|                             | BTM714 | Legal & Ethical Issues in Biotechnology            | 3        |
|                             | BM753  | Services Marketing                                 | 3        |
| <b>ELECTIVES</b>            | BTM811 | Biotechnology & Pharmaceutical Industry            | 3        |
|                             | BTM812 | Safety & Hazard Management in Biotechnology        | 2        |
|                             | BTM813 | New Trends in Biotechnology                        | 2        |
| <b>INTERNSHIP / PROJECT</b> | BTM901 | Internship   | 6        |
|                             | BTM902 | Project  | 6        |

\*1 Credit Hr = 16 Class Hrs / 32 Lab Hrs in a semester