



**MANAV BHARTI**  
UNIVERSITY

# Biotechnology Training Programme

**Schedule from 26/12/2011 to 31/01/2012**

**Last Date to apply: 10/12/2011**

**ORGANIZED BY:**  
**DEPT. OF BIOTECHNOLOGY**  
**MANAV BHARTI UNIVERSITY, (KUMHAR HATTI)**  
**TEHSIL & DISTT. SOLAN -173229**  
**HIMACHAL PARDESH**



# MANAV BHARTI UNIVERSITY

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**ADMISSION ON FIRST COME BASIS**

## **Our Profile**

Manav Bharti University established in 2009 under the H.P. Private University (Establishment & Regulation) Act is, owned by Manav Bharti Charitable Trust.

The aim of the University is to promote education and research in such a manner that what students are left with is lot of knowledge and discipline so that their contribution to the development of the nation is substantial. The University is also recognized by the government. The University is located in between the Lush Green hills of Solan offering a very elegant environment for studying.

The Dept. of biotechnology of the university is having experienced faculty that strongly encourage and nurture students.

As we Know biotechnology is the study of cell and its products for the welfare of human beings. It is also an Integration of engineering and technology to the life sciences. expected to play a key role in shaping India's rapidly developing economy. With numerous comparative advantages in terms of research and development (R&D) facilities, knowledge, skills, and cost effectiveness, the biotechnology industry in India has immense potential to emerge as a global key player. The Indian biotech industry grew threefold in just five years to report revenues of US\$ 3 billion in 2009-10, a rise of 17 per cent over the previous year, according to the eighth annual survey conducted by the Association of Biotechnology-Led Enterprises (ABLE) and a monthly journal, BioSpectrum, based on inputs from over 150 biotech companies.

## **Mission:**

Manav Bharti university is committed towards the quality of Education , research and training to fulfill the needs and expectations of students , parents and society at large . To impart quality of education the university biotechnology lab is equipped with the modern equipments so that the trainees can get interest towards their work and put their creative efforts towards the industry.

## **Vision:**

To provide the quality education to the students and to make students academically superior and ethically strong to fulfill the industry demands.

## **Training Programmes:**

Biotechnology is a industry which requires skilled manpower with the understanding of the technology as well as managerial proficiency to yield this technology in to profit industry. Biotechnology training in India is most important necessity for all the students, researchers, scientists and person interested in this field. This training program will cover all aspects of biotechnology including understanding principles, experimentation of molecular biology, and lots more to come. The main objective of this training program is create lab skills in the students, presentation skills, and a lot about the latest in the technology

## **Training Modules:**

### **Tissue Culture:**

- ✚ Preparation of stock solutions
- ✚ Preparation of MS Medium
- ✚ Micropropagation
- ✚ Protoplast isolation



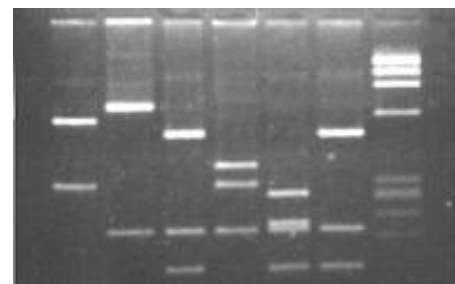
### **Genetic Engineering:**

- ✚ Restriction fragment length polymorphism (RFLP)
- ✚ Random Amplification of Polymorphic DNA(RAPD)
- ✚ Amplified fragment length Polymorphism(AFLP)
- ✚ Cloning of desired gene through different cloning methods like TA cloning, Shot gun methods etc.
- ✚ Characterization of recombinant clones by: PCR and RTPCR analysis.



### **Molecular Biology:**

- ✚ Isolation and purification of genomic DNA from various sources and methods
- ✚ Isolation of Plasmid DNA
- ✚ Isolation of RNA from various sources
- ✚ Agarose gel electrophoresis
- ✚ SDS-PAGE
- ✚ Native PAGE



## PCR Techniques (Types of PCR)

- ✚ Multiplex PCR
- ✚ RT-PCR
- ✚ Nested PCR



## Biochemistry:

- ✚ Paper Chromatography
- ✚ Thin layer Chromatography
- ✚ HPLC



## How to apply

Last date: 10/12/2011  
Duration: 26/12/2011 to 31/01/2012  
Special discount for first ten students

Training Fees: 7500/-  
Test series for CSIR NET/GATE

Interested candidates can send their Bio-data along with the Recommendation on the letter head of the Institute.

### **Contact at:**

**Dr. Gaurav Aggarwal**  
+919805665433  
gauravaggarwal\_btc@yahoo.co.in  
sumitathakur159@gmail.com

**Mrs. Sumita Thakur**  
+919805594067

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[www.manavbhartiuniversity.edu.in](http://www.manavbhartiuniversity.edu.in)