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# GENETIC ENGINEERING

3 MONTHS ONLINE CERTIFICATE COURSE

**Any Biology, Chemistry, Biotechnology,  
Microbiology, Biochemistry, Pharmacy,  
Medical Science student/Faculty can join**

**Job Prospects: Industry/Research**

## **PART I: THE BASIS OF GENETIC ENGINEERING**

**Chapter 1: Introduction to Genetic Engineering**

**Chapter 2 Introducing molecular biology**

**Chapter 3 Working with nucleic acids**

**Chapter 4 The tools of the trade**

## **PART II THE METHODOLOGY OF GENE MANIPULATION**

**Chapter 5 Host cells and vectors**

**Chapter 6 Cloning strategies**

**Chapter 7 The polymerase chain reaction**

**Chapter 8 Selection, screening, and analysis of recombinants**

**Chapter 9 Bioinformatics**

## **PART III GENETIC ENGINEERING IN ACTION**

**Chapter 10 Understanding genes, genomes, and  
'otheromes'**

**Chapter 11 Genetic engineering and biotechnology**

**Chapter 12 Medical and forensic applications of  
gene manipulation**

**Chapter 13 Transgenic plants and animals**

**Chapter 14 The other sort of cloning**

**Chapter 15 Brave new world or genetic  
nightmare?**



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