

GENESIS BIOTECH

I'm a biotechnology student, constantly evolving and interested about your genes.
The courses, I've attended in my undergraduate study at Kathmandu University:

B. TECH. IN BIOTECHNOLOGY

01

YEAR I SEMESTER I

Calculus and Algebra
General Physics
General Chemistry
General Biology
Professional Communication
Information System Technology
General Physics Lab

02

YEAR I SEMESTER II

Statistics & Probability
General Biophysics
Introduction to Python Programming
Chemistry I
Introductory Biotechnology
Biosafety
Engineering Drawing

03

YEAR II SEMESTER I

Microbiology
Genetics
Biochemistry
Cell Biology
Developmental Biology
Principles of Biochemical Engineering
Microbiology Laboratory
Biochemistry Laboratory
Cell Biology Laboratory
Developmental Biology Laboratory

04

YEAR II SEMESTER II

Molecular Biology I
Immunology
Microbial Bioprocess Engineering
Environmental Biotechnology
Quantitative Analysis
Microbial Bioprocess Engineering Laboratory
Immunology Laboratory
Environmental Biotechnology Laboratory
Quantitative Analysis Practice

05

YEAR III SEMESTER I

Downstream Processing
Molecular Biology II
Plant Cell and Tissue Culture
Animal Cell Culture
Instrumental Analysis
Downstream Processing Laboratory
Molecular Biology Laboratory
Animal Cell Culture Laboratory
Plant Cell and Tissue Culture Laboratory
Instrumental Analysis Laboratory

06

YEAR III SEMESTER II

Recombinant DNA Technology
Enzymology and Enzyme Technology
Medical Biotechnology
Bioinformatics
Research Methodology
Bioethics and IPR
Industrial Plant Studies
Recombinant DNA Technology Laboratory
Bioinformatics Laboratory
Medical Biotechnology Laboratory

GENESIS BIOTECH

(Curiosity Meets Genes)

B. TECH. IN BIOTECHNOLOGY

07

YEAR IV SEMESTER I

Industrial Biotechnology
Entrepreneurship Development
Total Quality Management
Agricultural Biotechnology (Elective)
Cancer Biology (Elective)
Food Processing and Preservation (Elective)
Industrial Biotechnology Lab
Industrial Training

Extra Elective:
Molecular Modeling and Drug Design
Immunotechnology

08

YEAR IV SEMESTER II

Vaccine Development and Production (Elective)
Neutraceuticals and Functional Foods (Elective)
Project Work

Extra Elective:
Genomics and Proteomics

Stay Tuned

MY RESEARCH, PROJECTS, AND DOCUMENTARY SERIES

showcasing the field of biotech.