

B.Sc. (Hon's) in Biotechnology

▪ **Course Objectives**

In tune with the rapid advancement and diversification of curricular of higher education in the country under the influence of escalating market forces and globalization effects, unemployment generation and use of skilled human resource in industries and corporate sector, B.Sc. (Hons) in Biotechnology was adopted as a self-financed degree programme from the academic session 2014-15 after due approval by B.R.A Bihar University, Muzaffarpur.

▪ **Course Structure for B.Sc. Biotechnology (Hon's) Vocational Course**

Year	Subjects	Marks
First Year	1 st Paper - Genetics, Cell Biology	100
	2 nd Paper - Microbiology, Biochemistry	100
	3 rd Paper - Practical	100
	Subsidiary- Botany	100
	Zoology	100
Second Year	4 th Paper- Immunology, Biophysics and Molecular Biology	100
	5 th Paper- Recombinant DNA Technology, Animal Cell Culture & Maths and Computer	100
	6 th Paper- Practical & Training	100
	Subsidiary- Botany	100
	Zoology	100
Third Year	7 th Paper- Animal Cell Biotechnology	100
	8 th Paper- Plant Biotechnology	100
	9 th Paper- Environmental Biotechnology & Culture Methods	100
	10 th Paper- Project Work & Training	100
	11 th Paper- ED (Entrepreneurship Development)	100

▪ **Course Duration – 3 years**

▪ **Academic Session – July to May**

▪ **Eligibility for Admission :**

- Admission through Entrance Test
- Minimum eligibility to appear in the Entrance Test :
I.Sc. (Bio)/ XII Pass (CBSE/ICSE)/Other equivalent board

▪ **Scope and Job Process**

- Employment in Pharmaceutical Industries and Research Lab
- Food Microbiology Industry
- Energy and Environment Sector
- Hospitals and Healthcare Institutions
- Lab Superintendent in Educational Institution

- Pursuing Higher and Specialized studies
- Internship/Project theory/ Training Work following Institutions are listed below where students are enrolled each year.
 - ☛ FSL Lab, A.D.G. E.I.D Patna (Bihar)
 - ☛ RMRIMS, Patna
 - ☛ Mahavir Cancer Sansthan, Patna (Bihar)
 - ☛ NBRI, Noida (U.P)
 - ☛ Rupture Biotech, Noida (U.P)
 - ☛ Bisleri Pvt. Ltd., Hajipur
 - ☛ IGIMS, Patna
 - ☛ Avion Pvt. Ltd., Muzaffarpur

▪ **Co-ordinator Profile:**

Name - Dr. Roseline Soren, M.Sc, Ph.D (Botany)

Designation - Associated Professor (Botany)
 - Co-ordinator of Biotechnology
 - HOD of Botany

Area for Specialization- Plant Anatomy, Plant Pathology

▪ **Faculty Profile :**

1. **Name** - Mr. Aniket Kumar, M.Sc. (Biotech),
 Ph.D (Biotech) pursuing

Designation - Biotech Faculty

Area for Specialization- Microbiology, Cell Biology, Biochemistry,
 Animal Cell Culture, Animal Cell Biotech

2. **Name** - Mr. Gaurav, M.Sc. (Biotech),

Designation - Biotech Faculty

Area for Specialization- Biophysics, Instrumentation, PCB, Genetics,
 Biotech lab work

Subsidiary Paper Faculty Profile

1. **Name** - Dr. Sushma Kumari, M.Sc., Ph.D (Zoology)

Designation - Professor of Zoology, Ex- HOD (Zoology)

2. **Name** - Dr. Roseline Soren, M.Sc., Ph.D (Botany)

Designation - Co-ordinator of Biotech, HOD of Botany,
 Associate Prof. (Botany)