

# SCHOOL OF STUDIES IN BIOMEDICAL TECHNOLOGY

## Programme Offered :

### 1. M.Sc. Biomedical Technology (Approved and supported by UGC)

#### Profile of the course :

Biomedical Technology has emerged as a new specialized branch of biotechnology which has wide scope in hospitals and medical institutions in addition to its scope in research, teaching and industries. Since last few years most advanced studies have been conducted in the field of Biomedical Technology. With the impute of sophisticated biomedical instruments like CT Scan, Ultrasound, MRI, PCR, Cryopreservation, NMR, Autoanalysers, DNA finger printing and CADD in hospitals and research institutions, the entire scenario of education and research has changed. Demand of skilled personnel in these areas is increasing tremendously. Number of leading pharmaceutical industries like Smithkline, Beechem, Merck, Glaxo, Johnson & Johnson are looking after experts in Biomedical Technology. Keeping in view to produce excellent Biomedical Technologists and to create teaching and research opportunities "M.Sc. in Biomedical Technology" is an effort in this direction.

The School is well equipped with all basic infrastructure facilities. For practical training the institute has collaboration with local hospitals and research institutions. Under the "Health Check-up Schemes" camps are organized in the rural areas and the students participate actively in these camps. All efforts are being made to produce trained, skilled and dedicated manpower who may contribute their services for better medical assistance.

**Scope and job opportunies** : The trained students may be absorbed in hospitals, research institutes, pharmaceutical industries, tissue culture laboratories, academic institutions, manufacturing of biomedical goods etc.

#### 1. M.Sc. : (Two years / Four Semesters)

**Eligibility** : B.Sc. with 50% marks with Biochemistry / Biology / Biotechnology / Botany / Environmental Sciences / Microbiology / Zoology / Chemistry / Agriculture / Medicine.

**Available seats** : Open =15 Payment =5 NRI = 01

**Mode of selection** : Merit in the entrance test conducted by Jiwaji University, Gwalior.

**Contact Person** : Prof. Nalini Shrivastava, coordinator

**Faculty** : The teaching shall be interdisciplinary with the other School of Studies of the University.

#### Course structure:

I – Semester	II – Semester	III – Semester	IV – Semester
Human Anatomy & Physiology	Medical Microbiology	Pharmacology & Pharmacokinetics	Total Quality Management and IPR
Haematology & Pathophysiology	Biomedical Analysis	Biomedical Instrumentation II	Industrial Training, Report and Project Viva
Biochemistry & Molecular Biology	Biomedical Instrumentation I	Tissue Culture Technology	a) Bioanalytical Instrumentation III or
Immunology	Bioanalytical Instrumentation I	Bioanalytical Instrumentation II	b) Advanced Diagnostics Techniques
Lab Work I	Lab Work II	Lab Work I	
Lab Work I	Lab Work II	Lab Work II	
		OR (inplace of Lab Works)	
		Management Concept	
		Sales & Distribution	
		Management	

**Training** : This course requires a training of about 3-4 months in medical and / or research institutions for the fulfilment of the course requirements.

**Placement** : Students of this course are working in following organization.

Spectral Diagnostics

J. Mitra

Ozone Biomed

Nicholas-Piramal

IARI, Pusa, Delhi

Glaxo – Smithline

TIRF, Mumbai

J.N.U. New Delhi

BARC, Mumbai

Dr. LAL Path Lab.

N.Delhi

INMAS, Delhi

National Jalma

Institute

Leprosy & Other

Mycobacterium

Diseases, Agra

**Fees for the course :**

**Open Seat**

<b>Course</b>	<b>I Semester</b>	<b>II Semester</b>	<b>III Semester</b>	<b>IV Semester</b>
<b>M.Sc. Biomedical Technology</b>	<b>Rs. 27415.00</b>	<b>Rs. 23525.00</b>	<b>Rs. 24875.00</b>	<b>Rs. 23525.00</b>
<b>Payment Seat: M.Sc.</b>	<b>Rs. 16000/- per Semester additional to the fees for Open Seat</b>			