

# **UGC sponsored VOCATIONAL PROGRAMME**

## **IN**

## **BIOTECHNOLOGY**

### **M.G. Science Institute Offers a Special Course in Biotechnology (Under UGC Vocational Programme)**

Eligibility: Students from “B” group

Course offered as:

- 1 Vocational Biotechnology (Sem I to Sem VI)
2. Diploma in Biotechnology (Sem I to Sem IV)

#### **Salient features of the course:**

1. Hands on practical training
2. Self-learning in practical classes
3. Summer training at reputed institutes/ industries/ in-house research training
4. Equipped laboratory
5. Experienced faculty
6. Student friendly environment.
7. Upgraded syllabus
8. Entrepreneurship training

#### **Frequently Asked Questions**

##### **Who can enroll in the Biotechnology Program?**

*In order to register for the Vocational Biotechnology programme, students must enroll/ take admissions in Semester I first year BSc, while for Diploma course both Semester I and III will be eligible.*

## **Are the Biotechnology courses open to everyone?**

*Yes. In fact, the basic techniques in Biotechnology course will fulfill the General Education requirement for a Science Course with laboratory.*

## **How long does it take to complete the program?**

*We offer both vocational Biotechnology and Diploma in Biotechnology. Vocational program is designed to be completed in three years while diploma in two years.*

## **Future Prospects of the Programme**

*Bright Career with BIOTECH Jobs is on the rise. The Biotechnology programme prepares you for an entry-level position as a Biological Technologist/ Research associate/ Scientist/ Entrepreneur in -*

- *Pharmaceutical*
- *Academic Research Labs*
- *Manufacturing*
- *Food Industry*
- *Agro based Industry*
- *Dairy Industry*
- *Agricultural research*
- *Medical Science*
- *Forensic science*
- *And more.....*

*Specifically designed syllabus for preparing students to crack entrance examinations for higher education.*

## Hands on Training:

In the laboratory for the basic techniques in Biotechnology Course, students will get hands-on experience.

Experiments in basic techniques in Biotechnology lab:

- Aseptic techniques
- Plant tissue culture
- Immunotechniques
- Agarose gel electrophoresis
- Genomic DNA isolation
- Plasmid DNA isolation
- Recombinant DNA techniques
  - Restriction Digestion
  - Ligation
  - Bacterial Transformation
- Cell division
- Fermentation and distillation
- Isolation of microorganisms
- Antibiotic assay
- Water analysis

These technical skills are critical for a career in biotechnology. Students will also adhere to standard operating procedures and accurately document experimental data in a laboratory notebook, which are key aspects of working in a biotechnology laboratory that follows Good Laboratory Practices and Good Manufacturing Practices

## Entrepreneurship

**Students will also be trained** for entrepreneurship development for Setting up a small scale industry.

*For more details regarding admission procedure please contact:*

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