

## **Research Project Internship Form**

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**Department/School:** Department of Basic & Applied Sciences, School of Engineering & Sciences, GD Goenka University, Gurugram, Haryana - 122103

**Internship Project Name:** Basic skills of Applied Microbiology

**Duration of Internship:** 3 Months or 6 Months

**Number of Students Needed:** 02

**Location of Internship (Lab/Company/Office):** Microbiology and Biotechnology Laboratory, Department of Basic & Applied Sciences, School of Engineering & Sciences, GD Goenka University, Gurugram, Haryana

**Prerequisites:** School Level Biology and Basic knowledge of Microbiology

**Project Details:** *(At least 150 words)*

This internship project in Basic skills of Applied Microbiology is designed for UG and PG students of Microbiology and Biotechnology for providing up-to-date knowledge in their field. The internship is in relevance for Quality Control and Quality Assurance and biological research. It will cover the basics of microbiology, laboratory tools and techniques under the following topics-

- Introduction to Good Laboratory Practices and Biosafety
- Basics of Calculations; Buffers and Reagent Preparation
- principle and applications of important instruments used in the microbiology laboratory
- Various Nutrient Media (Solid/Liquid) preparation and Its Sterilization
- Various methods of Inoculation of Cultures (Streaking, spreading and pouring)
- Microbial Enumeration (TAMC and TCYM)
- Antimicrobial Susceptibility test (Kirby-Bauer test)

For any questions: [international@gdgu.org](mailto:international@gdgu.org)

