**PhD openings in the Department of Biotechnology (2022-2023)**

*Faculty of Life and Allied Health Sciences, M.S.Ramaiah University of Applied Sciences*

The Department of Biotechnology offers 4 PhD openings in the academic year 2022-2023. Details on the openings are listed below:

1) **Name of the Guide: Dr Soma Chaki**



**Faculty profile:** Associate Professor, Biotechnology

**Research interest:** Cancer Immunology

**Tentative project titles:**

1. Study of possible correlation between tumor-infiltrating lymphocytes and cancer stem cells in oral squamous cell carcinoma
2. Identification and characterization of inflammatory bio-markers in oral squamous cell carcinoma

**Minimum course requirement for students:** M.Sc. in Biotechnology/ Molecular Biology/ Biochemistry/Zoology; with basic practical skills in microscopy, electrophoresis, biochemical assays, basic idea on aseptic techniques, basic laboratory tools and techniques in molecular biology; NET, BET qualification desirable.

2) **Name of the Guide: Dr. K. Prashanthi**



**Faculty profile and research interest:** Cancer Metabolism

**Tentative project title:** Regulation of Cancer Metabolism (Breast Cancer)

**Minimum course requirement for students**: Students should have completed MSc Biotechnology/Biochemistry having scored greater than 70% in their Masters. They should have basic knowledge in Molecular biology, biochemistry techniques, bioinformatics. They should have done a project in their final year of MSc. The candidates having programming in R or python and experience in analysing gene expression data will be preferred. CSIR net qualification would be preferred.

3) **Name of the Guide: Dr Swati Sinha**



**Faculty profile**: Assistant Professor, Biotechnology

**Research interest:** Gliomagenesis , Alternative Cell Death Mechanisms

**Tentative project titles:**

a. Molecular Mechanism of Gliomagenesis: role of different cell types in brain.

b. Molecular mechanism of Gliomagenesis: role of tumour micro-environment.

**Minimum course requirement for students:** M.Sc. in Biotechnology/ Molecular Biology/ Biochemistry. Preferred Skills: Basic knowledge of Molecular biology, Microscopy and Animal cell culture techniques . CSIR-UGC NET qualification desirable.

4) **Name of the Guide: Dr. Ekta Tripathi**



**Faculty profile:** Assistant Professor, Dept of Biotechnology

**Research interest:** Cancer Biology and Telomere biology

**Tentative project title:** Telomerase regulation in breast cancer

**Minimum course requirement:** M.Sc. in Biotechnology/ Molecular Biology/ Biochemistry. Preferred Skills: Basic molecular biology techniques (PCR, cloning, electrophoresis) and basic cell culture techniques. CSIR-UGC NET qualification desirable.