



SOUTH KONKAN EDUCATION SOCIETY'S

# GOVINDRAM SEKSARIA SCIENCE COLLEGE

TILAKWADI, BELAGAVI – 590006

## DEPARTMENT OF BIOCHEMISTRY

### **ONE-DAY RESEARCH INSTITUTE VISIT TO KLE'S DR. PRABHAKAR KORE BASIC SCIENCE RESEARCH CENTER (BSRC), BELAGAVI ON 26<sup>TH</sup> MARCH, 2024**

This report is a summary of one-day Research Institute visit to KLE's Dr. Prabhakar Kore Basic Science Research Center (BSRC), Belagavi that was arranged by the Department of Biochemistry, GSS College, Belagavi. The visit took place on 26<sup>th</sup> March 2024. The purpose of the visit was to acquire foundational understanding and basic knowledge about the research and gaining exposure of various instrumentations and setup of Analytical, Microbiological, Cell Culture, Molecular Biology and Bioinformatics laboratories so as to become more integrated into scientific world. The tour team was headed by Dr. Varsha Jayakar, Coordinator and Assistant Professor, Department of Biochemistry and Dr. Vinayak Lokapur, Assistant Professor, Department of Biochemistry and comprised of Twenty-five students of 1<sup>st</sup> and 2<sup>nd</sup> year MSc Biochemistry program.

The initial phase of the visit to KLE's Dr. Prabhakar Kore Basic Science Research Center (BSRC), Belagavi started with the introductory lecture addressed by Dr. Ramesh S. Paranjape, Director of BSRC. Followed by Dr. Vijay Kumbar and Dr. Suneel Dodamani Scientist Grade 1 explained about the research activities of various departments of BSRC.

The second part of the visit started with Ms. Mitali Kubade from Analytical Laboratory who explained about the instruments such as UV Spectrophotometer, Viscometer, High Performance Liquid Chromatography (HPLC), Ultra Performance Liquid Chromatography (UPLC), dissolution aperture, High Performance Thin Layer Chromatography (HPTLC), Lyophilizer, Franz diffusion, Atomic absorption spectroscopy, rotary vapor, UV cabinet, and gave us the brief information about principle, working, uses and applications of all those instruments.

Later, Dr. Suneel Dodamani and Dr. Vijay Kumbar, Scientist grade I, explained in brief about the Microbiology Lab, Biotechnology Lab, Cell Culture Lab, Molecular Research Lab and the working principle of centrifuge, electrophoresis, gel doc, gel electrophoresis, Polymerase Chain Reaction (PCR) and Reverse Transcriptase Polymerase Chain Reaction (RT-PCR). They even demonstrated how different DNA fragments are separated using PCR,

electrophoresis and Gel doc. The session ended with research scholars demonstrating their proficiency in handling biological sample, performing experiment accurately and interpreting result effectively

This research institutional visit organized by the department has allowed the students to know about the work culture of scientific research laboratories and see a wide array of sophisticated instruments used in cutting-edge research, providing students with invaluable practical knowledge and motivated students to use the opportunity for their future career.



**1<sup>st</sup> and 2<sup>nd</sup> year MSc Biochemistry students and faculty team at KLE campus, Belagavi**



**1<sup>st</sup> and 2<sup>nd</sup> year MSc Biochemistry students and faculty team with Director and scientists at KLE's BSRC unit, Belagavi**



**Students interacting with Research Scholar in Analytical Laboratory**



**Students interacting with Dr. Vijay Kumbar, Scientist Grade I, in Molecular Research Laboratory**



**Students Performing Gel Electrophoresis experiment (Hands-on Demonstration)**



**Students interacting with fellow students of BSRC (MSc Biotechnology students)**