

# **SCHOOL OF BIOTECHNOLOGY**

## **DEVI AHILYA VISHWAVIDYALAYA, INDORE**

### Report on Hands-on Workshop

The School Of Biotechnology, Devi Ahilya Vishwavidyalaya, organized a 7 days hands-on training program from 20<sup>th</sup>- 26<sup>th</sup> February 2023. The topic of the workshop was “ENZYMES, GENE MANIPULATION AND FUNCTIONAL GENOMICS”. Respected HOD Dr. Anjana Jajoo mam and Dr. Hamendra Singh Parmar sir planned the schedule of the whole program, including different detection and analytical techniques. Dr. Parmar himself actively participated and supervised the whole workshop. The workshop was attended by around 50 Master's students.

This 7 day long hands-on training program started with some great motivational words by respected HOD Dr. Anjana mam emphasizing on gaining out the maximum from this wonderful opportunity. Next Dr. Parmar gave an overview of the tentative schedule and also mentioned the importance of all the techniques from industrial point of view and how they'll help in developing good laboratory practices. After which we started with our 1<sup>st</sup> experiment 'Western Blotting' on day 1 followed by 'Southern Blotting' on day 2. On day 3 we started our 3<sup>rd</sup> experiment 'Plasmid DNA Isolation and Analysis' which was then followed by our 4<sup>th</sup> experiment 'GFP Cloning In Bacteria'. Our 5<sup>th</sup> experiment 'Real Time PCR For Quantification Of Gene Expression' was performed on day 4. On day 5 we performed our 6<sup>th</sup> experiment 'SNP Detection'. We wrapped up all the previous time-taking experiments on day 6 and started with a fresh experiment on day 7 that was on 'Enzyme Isolation and Immobilization Techniques'. This marked the successful completion of our 7 days workshop.

The whole program was very informative and engaging where students witnessed and learned some of the common and majorly used techniques in wet labs like SDS-PAGE, PCR, gel electrophoresis, blotting etc. All the students were given a chance to actively participate and also handle some basic instruments themselves. This program also provided a great opportunity for PhD. Scholars to hone their skills and also provided a chance to students for better interaction with them and with each other. In the end all the participants were provided with a certificate of participation.

We are extremely thankful to the institute and all the faculty members for providing us with such a well-organized and enriching training program. Not only this workshop aided in gaining some valuable skill-set but also gave students a chance to experience real work environment and learn teamwork.

**Reported By:**

SHIVANGI SINGH

MSc. Genetic Engineering (II Sem)