

MSP Mandal's  
Shri Shivaji College, Parbhani  
**Department of Zoology and Fishery Science**

**Training Program for School Teachers about Laboratory Equipment's**

Under

**DBT Star College Scheme**

**Report**

Department of Zoology and Fishery Science organized a Training Program for School Teachers on 29<sup>th</sup> January, 2026 under DBT Star College, Scheme. A training program was successfully conducted for the teaching staff of Deogiri Global Academy, Parbhani with the objective of enhancing their practical knowledge and operational skills in handling essential laboratory instruments. The session aimed to strengthen teachers' confidence in using modern laboratory equipment effectively for teaching and demonstration purposes.

The training covered a wide range of instruments commonly used in biological and chemical laboratories. Participants were introduced to the working principles, components, handling techniques, and maintenance of instruments such as autoclave, oven and incubator dual mode, hot air oven, laminar air flow, centrifuge, compound microscope, distillation unit, incubator shaker, and microtome.

The session began with an overview of laboratory safety practices and standard operating procedures. Demonstrations were then carried out for each instrument. The autoclave was explained in terms of sterilization using moist heat under pressure, while the hot air oven was demonstrated for dry heat sterilization. The incubator and incubator shaker were introduced for microbial culture growth under controlled conditions.

Hands-on training was provided for the laminar air flow unit, emphasizing aseptic techniques to prevent contamination. The centrifuge was demonstrated for separation of components based on density. The compound microscope session focused on proper handling, focusing techniques, and slide observation. The distillation unit was explained for purification of liquids, and the microtome was demonstrated for preparing thin tissue sections for microscopic studies.

Teachers actively participated in the training and were given opportunities to operate the instruments under supervision. Their queries were addressed, and common troubleshooting methods were discussed. Emphasis was also laid on routine maintenance and care to ensure longevity and accuracy of the equipment.

The program concluded with a feedback session, where participants expressed that the training was highly informative and beneficial for improving their practical teaching skills. Overall, the training program proved to be a valuable initiative in upgrading the technical competencies of the teachers and promoting effective laboratory-based education. The teachers Miss. Mohna A. Wankhede, Miss. Yashaswi Arabati and Miss. Naziya Khan were actively participated.

### **Photographs**



**Training about how to use the Equipment and their applications**



**School Teachers actively participated in training program**