



**RAYAT SHIKSHAN SANSTHA'S
MAHATMA PHULE ARTS, SCIENCE AND COMMERCE COLLEGE, PANVEL.**

DEPARTMENT OF ZOOLOGY
DBT STAR COLLEGE SCHEME
2024-25

**PHOTO-GALLERY OF THE ACTIVITIES
CONDUCTED UNDER DBT STAR COLLEGE
SCHEME IN THE ACADEMIC YEAR 2024-25**

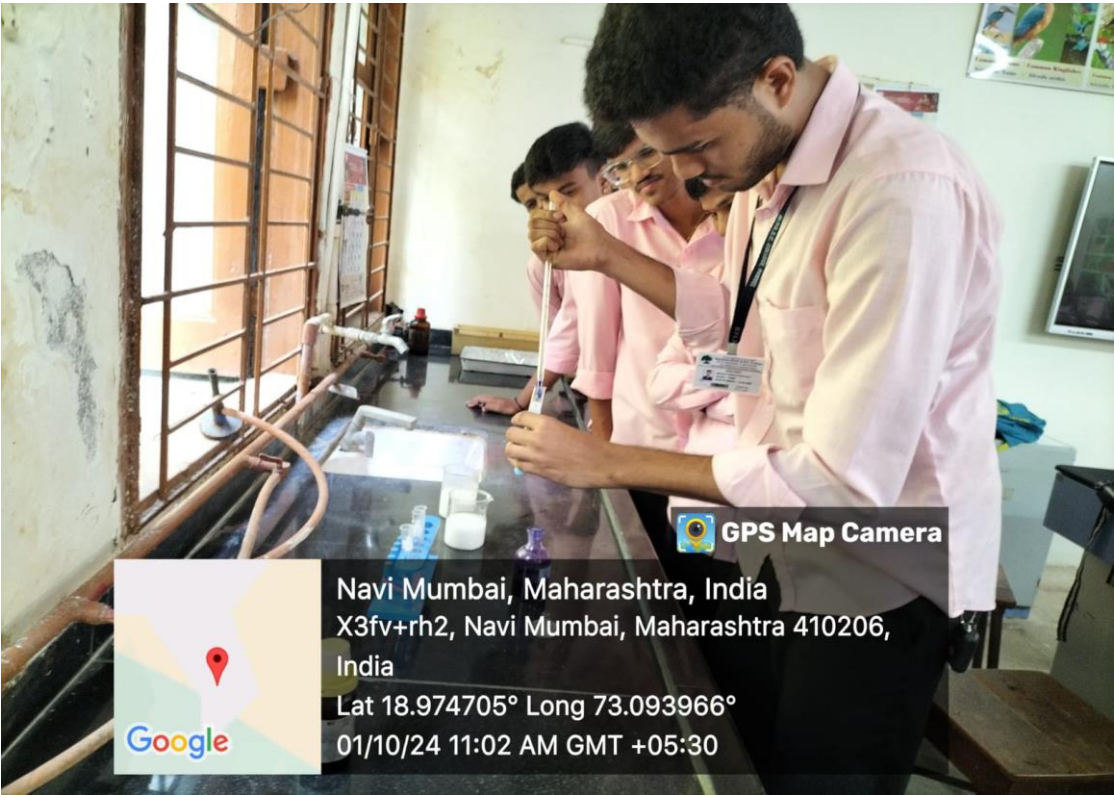


**PHOTO-GALLERY OF NEW
EXPERIMENTS CONDUCTED UNDER
DBT STAR COLLEGE SCHEME IN THE
ACADEMIC YEAR 2024-25**

Class	Title of Experiment	Name of Equipment/ Instrument Used	Dates of Conduct	Beneficiaries
F.Y.B.Sc.	Study of Prokaryotic cells (Bacteria) by Crystal violet staining technique.	Zoom Stereo Microscope	26/09/2024, 27/09/2024 & 28/09/2024	128



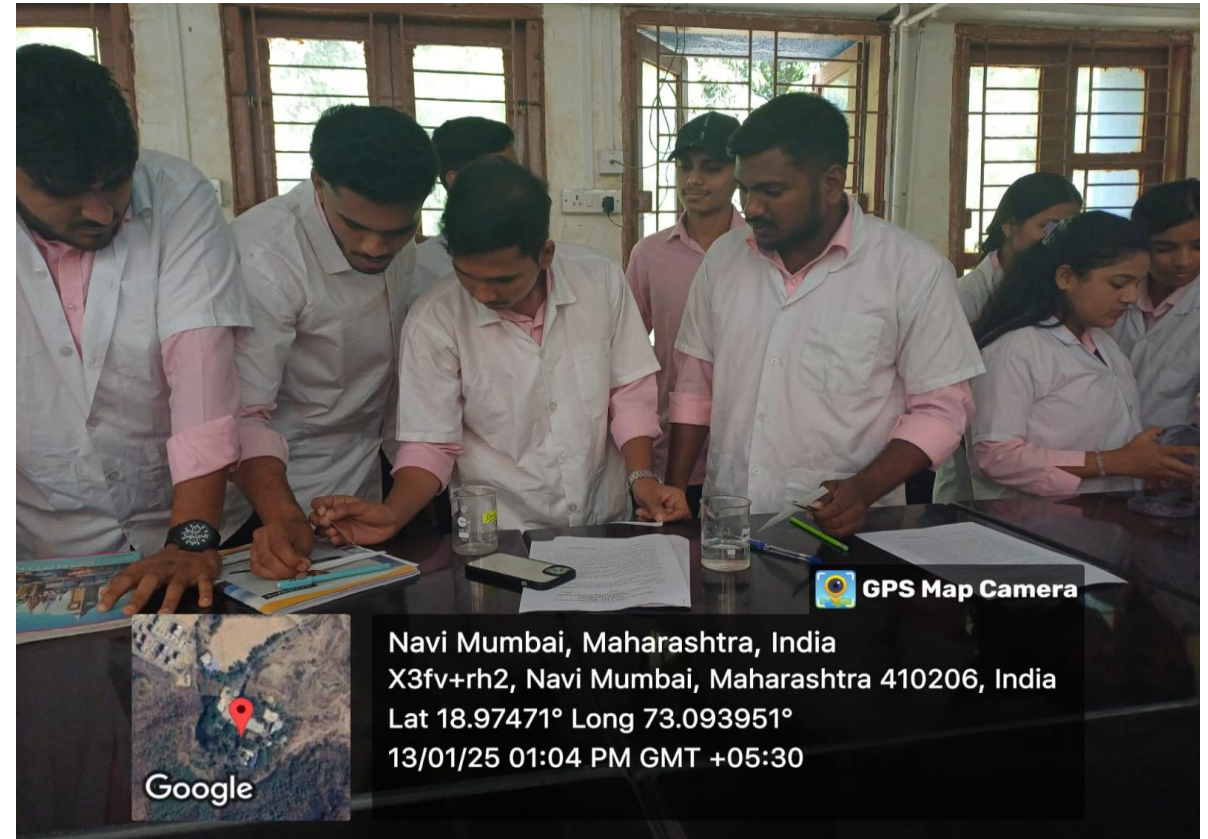
Class	Title of Experiment	Name of Equipment/ Instrument Used	Dates of Conduct	Beneficiaries
F.Y.B.Sc.	Detection of health-hazardous adulterant from milk products.	Compound Microscope	30/09/2024, 03/09/2024 & 01/10/2024	125



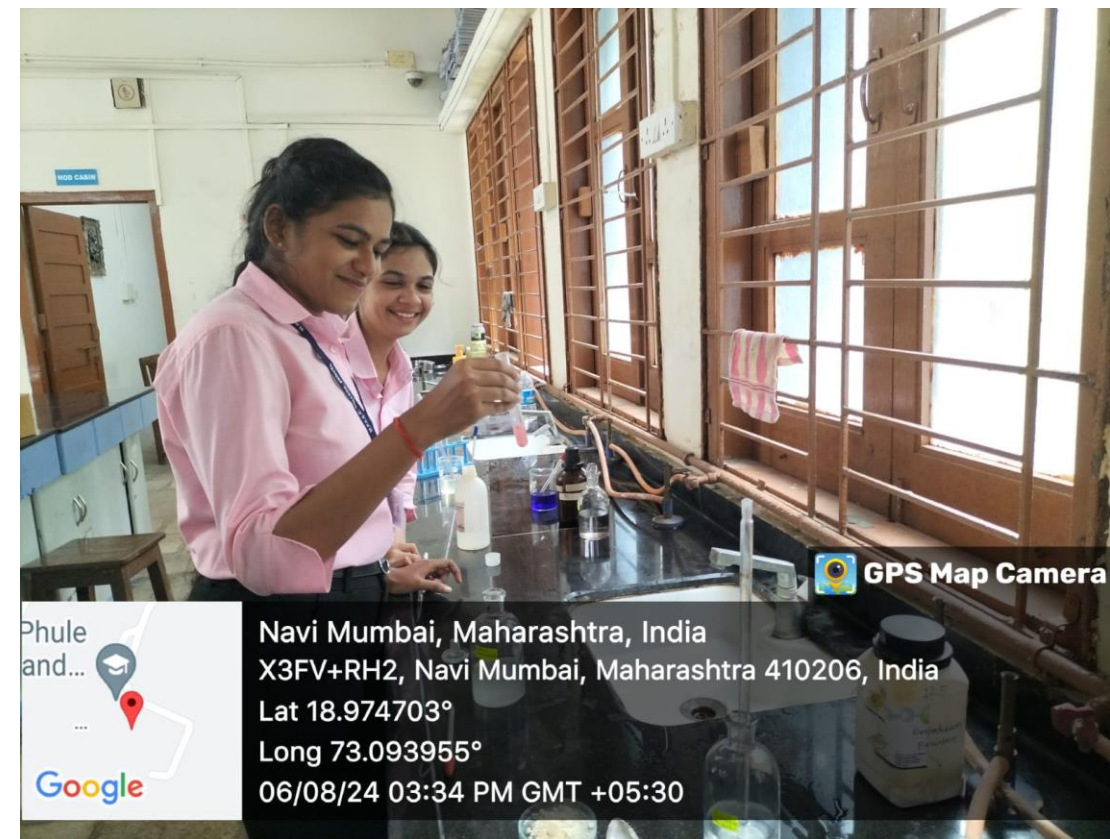
Class	Title of Experiment	Name of Equipment/ Instrument Used	Dates of Conduct	Beneficiaries
F.Y.B.Sc.	Study of Nutritional Content of fish available local market.	Bacteriological Oven, Digital Colorimeter, Vertical autoclave	21/01/2025 22/01/2025 23/01/2025	130



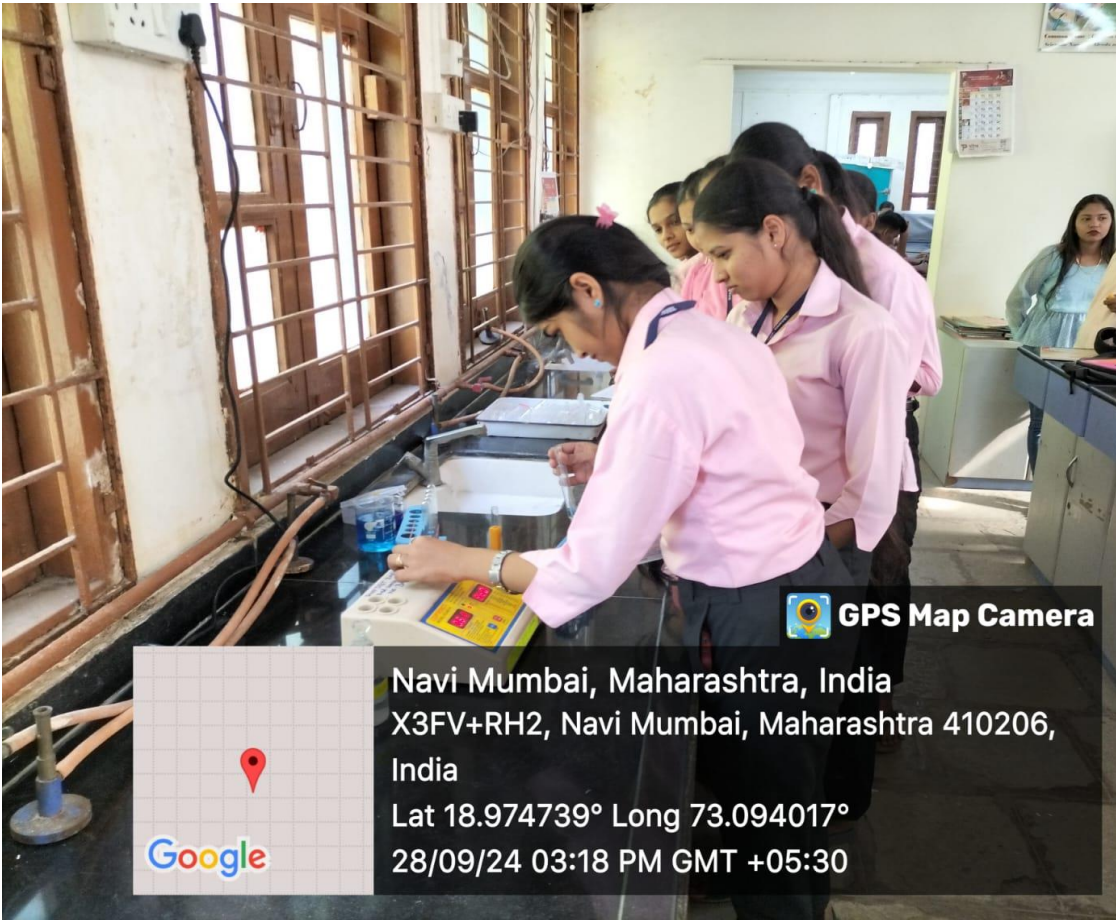
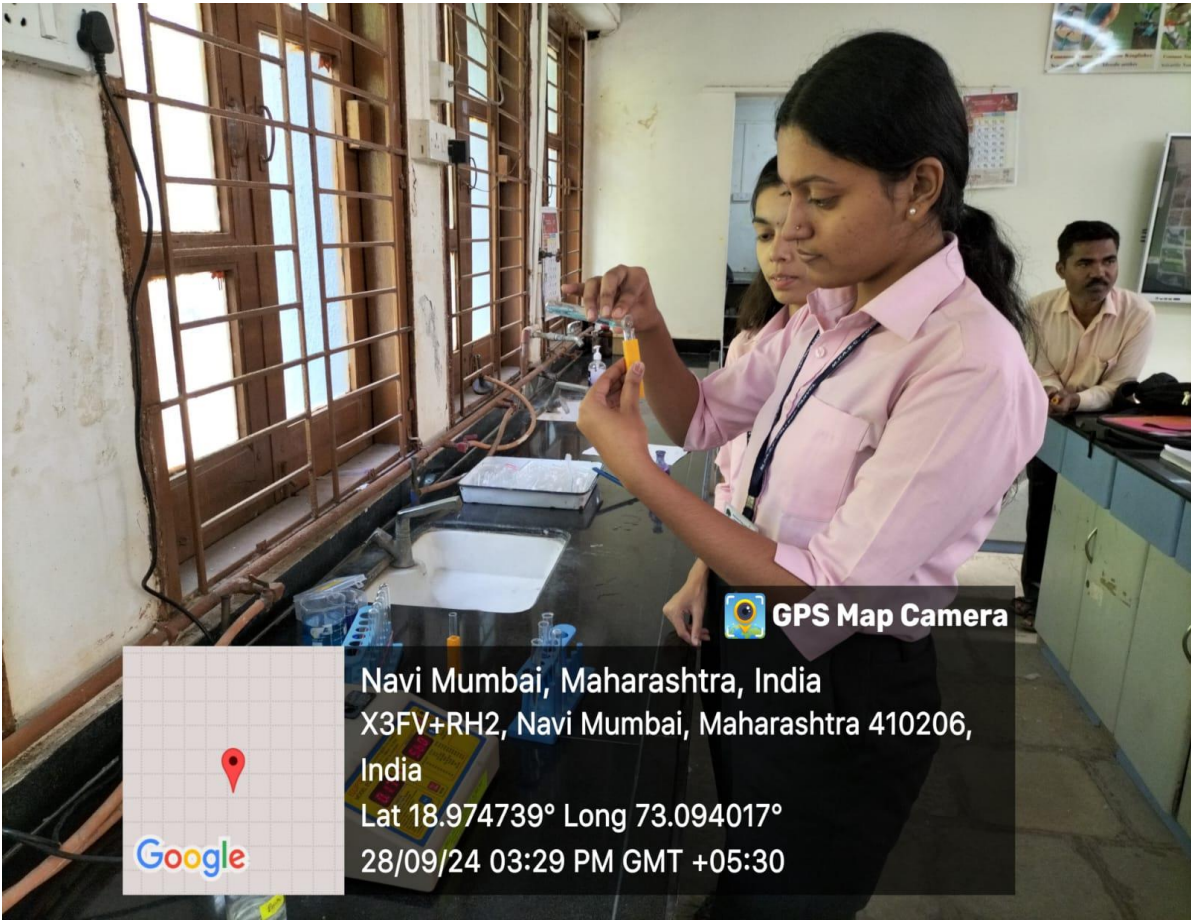
Class	Title of Experiment	Name of Equipment/ Instrument Used	Dates of Conduct	Beneficiaries
F.Y.B.Sc.	Calculation of R _f value of separated pigments/amino acids from various samples. .	Paper Chromatography	13/01/2025 , 14/01/2025 & 15/01/2025	126



Class	Title of Experiment	Name of Equipment/ Instrument Used	Dates of Conduct	Beneficiaries
S.Y.B.Sc.	Detection of abnormal constituents of urine.	Binocular Medical Microscope	06/08/2024, 08/09/2024 & 10/08/2024	69



Class	Title of Experiment	Name of Equipment/ Instrument Used	Dates of Conduct	Beneficiaries
S.Y.B.Sc.	Evaluation of nutrient contents of table eggs from different sources in the retail market.	Bacteriological Oven, Digital Colorimeter	28/09/2024 &28/09/2024	68



Class	Title of Experiment	Name of Equipment/ Instrument Used	Dates of Conduct	Beneficiaries
S.Y.B.Sc.	Assessment of Water Quality Parameter from resources around Panvel.	Salinometer, Digital Colorimeter	24/12/2024	71



Class	Title of Experiment	Name of Equipment/ Instrument Used	Dates of Conduct	Beneficiaries
S.Y. B. Sc.	Detection of Soil fertility and texture by analysis of Physical, Chemical & Microbiological Characters of Soil..	Laminar Airflow, Digital Quebec Colony counter, Digital pH meter	06/01/2025 & 07/01/2025	69



Class	Title of Experiment	Name of Equipment/ Instrument Used	Dates of Conduct	Beneficiaries
S.Y. B. Sc.	To prepare paneer from given milk sample	Lactometer	08/01/2025 & 09/01/2025	70



Class	Title of Experiment	Name of Equipment/ Instrument Used	Dates of Conduct	Beneficiaries
T.Y.B.Sc.	Enumeration of total count of RBC, WBC & Platelets.	Binocular Medical Microscope	08/07/2024	15



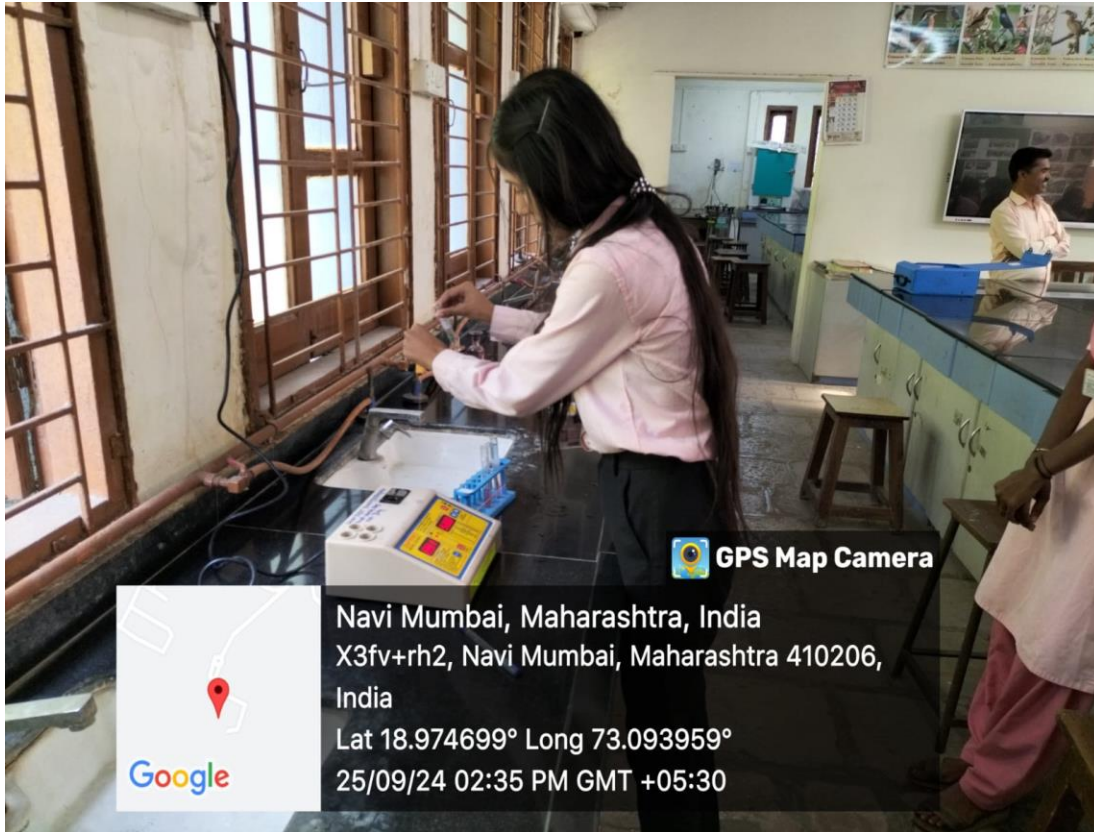
Class	Title of Experiment	Name of Equipment/ Instrument Used	Dates of Conduct	Beneficiaries
T.Y.B.Sc.	Colorimetric estimation of protein, triglycerides & sugars.	Digital Colorimeter	21/09/2024	16



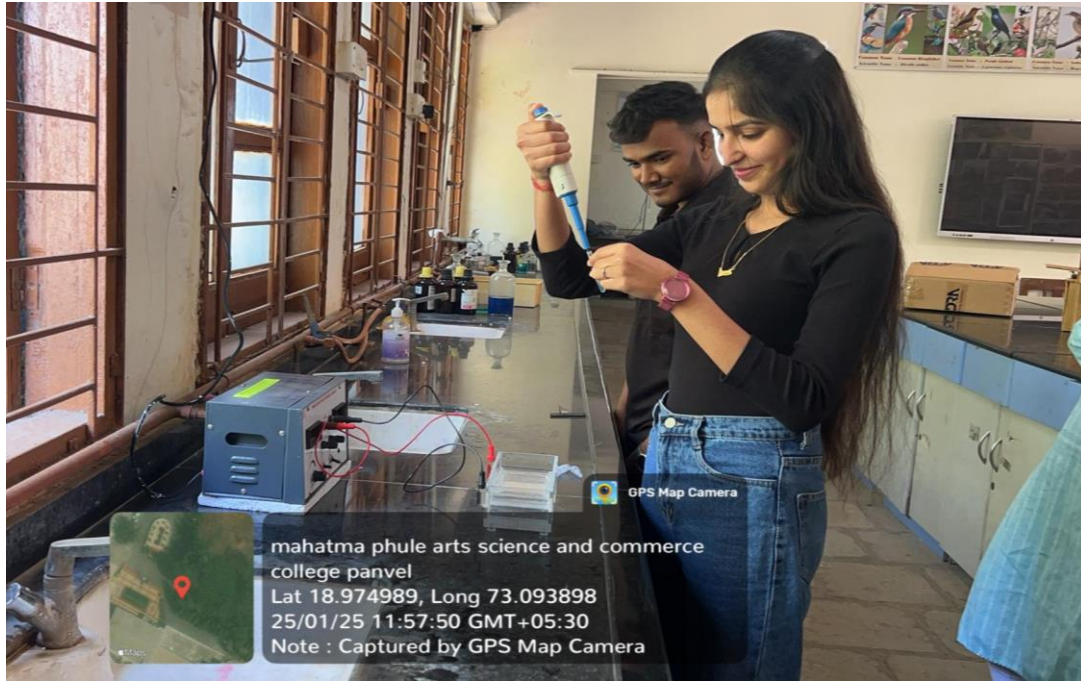
Class	Title of Experiment	Name of Equipment/ Instrument Used	Dates of Conduct	Beneficiaries
T.Y.B.Sc.	Extraction and detection of DNA & RNA from various samples.	Digital Colorimeter	17/12/2024	18



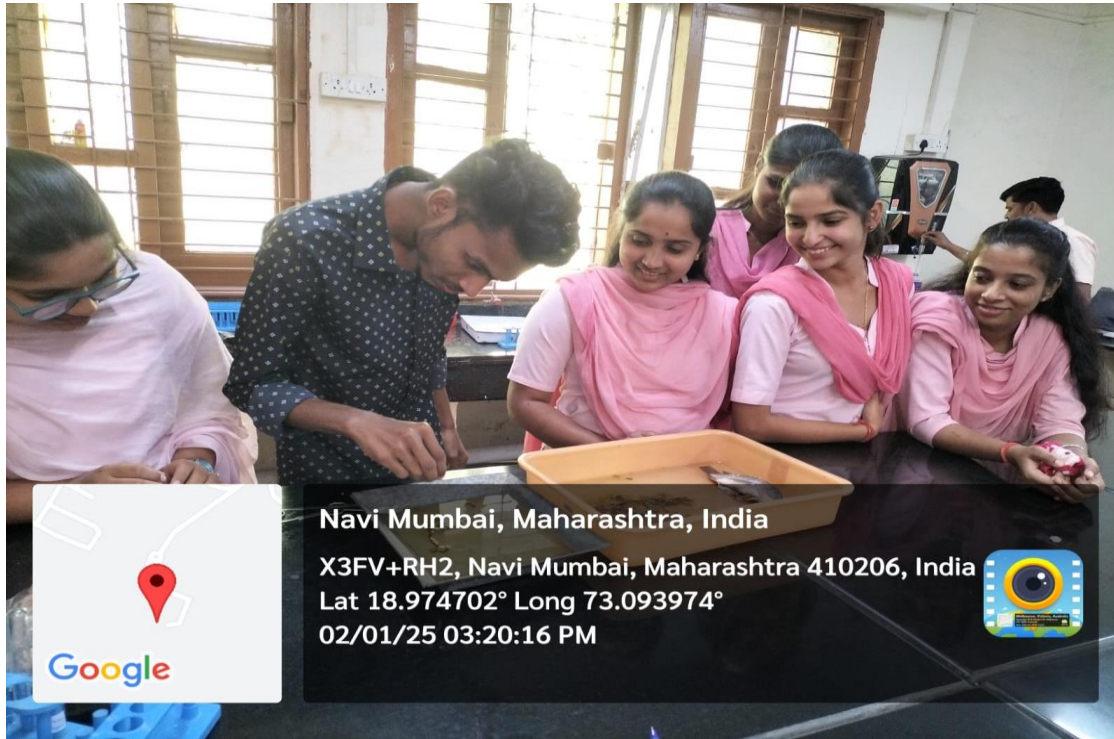
Class	Title of Experiment	Name of Equipment/ Instrument Used	Dates of Conduct	Beneficiaries
T.Y.B.Sc.	Determination of blood sugar by GOD/POD methods.	Digital Colorimeter	25/09/2024	17



Class	Title of Experiment	Name of Equipment/ Instrument Used	Dates of Conduct	Beneficiaries
T.Y.B.Sc.	Separation of plasma protein by Gel Electrophoresis	Gel Electrophoresis kit, Colorimeter	25/01/2025	17



Class	Title of Experiment	Name of Equipment/ Instrument Used	Dates of Conduct	Beneficiaries
T.Y.B.Sc.	Assessment of nematode parasite from commercially important fishes sold in retail market of Panvel	Binocular Medical Microscope, Zoom Stereo Microscope	02/01/2025	18



Class	Title of Experiment	Name of Equipment/ Instrument Used	Dates of Conduct	Beneficiaries
T.Y.B.Sc.	Use of Plant Extracts as an ecofriendly pH indicator	pH scale, pH Meter	03/01/2025	17



**PHOTO-GALLERY OF MINOR
RESEARCH PROJECTS CONDUCTED
UNDER DBT STAR COLLEGE
SCHEME IN THE ACADEMIC YEAR
2024-25**

Class	Title of Minor Research Project	Name of Equipment/ Instrument Used	Dates of Conduct	Beneficiaries
F. Y. B. Sc.	Ecological Studies on Species Diversity of Mangrove Ecosystem from Navi Mumbai	Binocular, Brass Sieves, Digital camera with zoom lens	04/12/2024 to 28/02/2024	68



Class	Title of Minor Research Project	Name of Equipment/ Instrument Used	Dates of Conduct	Beneficiaries
F. Y. B. Sc.	Study of water quality of drinking water in nearby villages from Navi Mumbai	Hot Air Oven, Bacteriological Incubator	04/12/2024 to 28/02/2025	67



Class	Title of Minor Research Project	Name of Equipment/ Instrument Used	Dates of Conduct	Beneficiaries
S. Y. B. Sc.	Assessment of species diversity of intertidal benthos from Panvel creek	Binocular, Brass Sieves, Digital camera with zoom lens	04/12/2024 to 28/02/2025	25



Class	Title of Minor Research Project	Name of Equipment/ Instrument Used	Dates of Conduct	Beneficiaries
S. Y. B. Sc.	Microbial assessment of water and sediment from Panvel creek	Hot Air Oven, Bacteriological Incubator	04/12/2024 to 28/02/2025	25



Class	Title of Minor Research Project	Name of Equipment/ Instrument Used	Dates of Conduct	Beneficiaries
S. Y. B. Sc.	Monitoring of adulteration of milk and milk products.	Hot Air Oven, Bacteriological Incubator	04/12/2024 to 28/02/2025	67



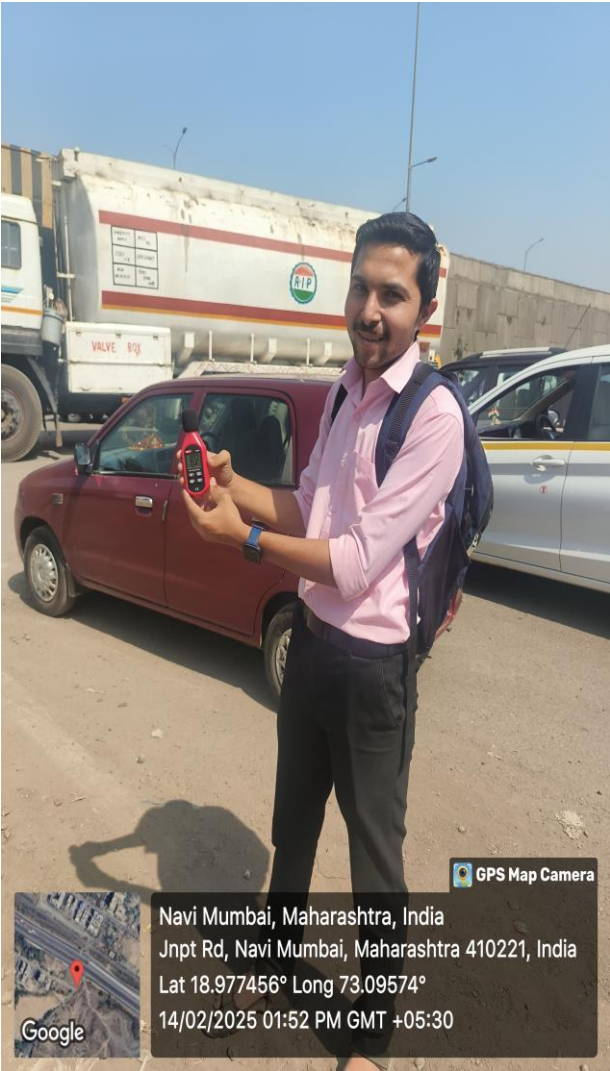
Class	Title of Minor Research Project	Name of Equipment/ Instrument Used	Dates of Conduct	Beneficiaries
T. Y. B. Sc.	Study of faunal diversity in and around Panvel	Binocular, Digital camera (Nikon Z 30)	04/12/2024 to 28/02/2025	05



Class	Title of Minor Research Project	Name of Equipment/ Instrument Used	Dates of Conduct	Beneficiaries
T. Y. B. Sc.	Primary Health Status Survey of entry-level students using BMI	Weighing balance, Haemocytometer	04/12/2024 to 28/02/2025	05



Class	Title of Minor Research Project	Name of Equipment/ Instrument Used	Dates of Conduct	Beneficiaries
T. Y. B. Sc.	Monitoring of sound pollution in Panvel City	Digital Decibel meter`	04/12/2024 to 28/02/2025	05



Class	Title of Minor Research Project	Name of Equipment/ Instrument Used	Dates of Conduct	Beneficiaries
T. Y. B. Sc.	Study of Plastic pollution from Panvel creek	Binocular (Nikon Aculon), Digital camera (Nikon Z 30)	04/12/2024 to 28/02/2025	05

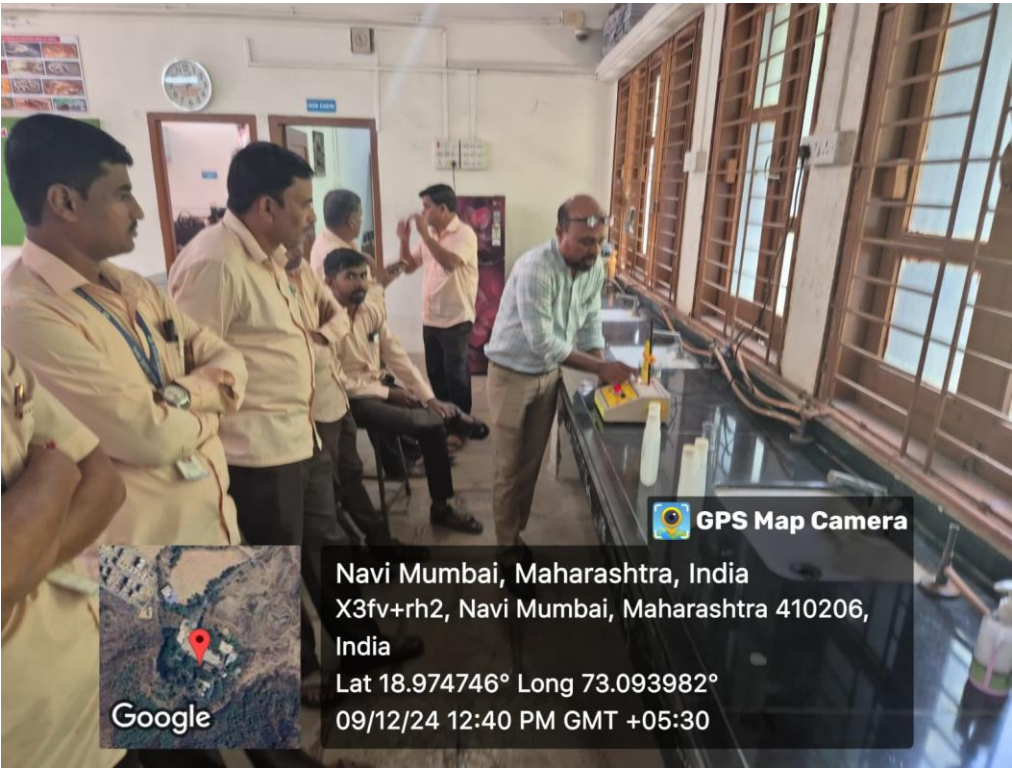


**PHOTO-GALLERY OF FACULTY
IMPROVEMENT/TRAINING
PROGRAMMES & GUEST LECTURE
ORGANIZED UNDER DBT STAR
COLLEGE SCHEME IN THE ACADEMIC
YEAR 2024-25**

Title of Programme	Resource Person	Dates
Faculty Improvement Program on “Nature Inspired Innovations: Emerging Trends in Biomimicry Research”	Dr. Manda A. Mhatre, Associate Professor, Head, Department of Zoology, Changu Kana Thakur, ASC College, New Panvel	10/12/2024



Title of Programme	Resource Person	Dates
Laboratory Safety Practices	Mr. Zaki Ahemad, Service Engineer, LabLink, Malad, Mumbai	09/12/2024



Title of Programme	Resource Person	Dates
Guest Lecture on “Biodiversity and Its Conservation”	Dr. Rahul Patil, Veer Wajekar A.S.C. College, Phunde, Uran	09/12/2024



**PHOTO-GALLERY OF FACULTY
MEMBERS COMPLETED FDP/STC
ORGANIZED BY OTHER INSTITUTES
YEAR 2024-25**

Title of Programme	Organizing Institute	Dates
7-days hands-on Workshop for College Teachers on using <i>Drosophila melanogaster</i> for Biology Laboratory Classes	Department of Biology. Indian Institute of Science Education Research, Pune. (DBT-sponsored Centre for Training Teachers in Using <i>Drosophila melanogaster</i> for Biology Laboratories Cytogenetics Laboratory, Department of Zoology, Institute of Science, Banaras Hindu University, Varanasi)	24 to 30 December 2024



**PHOTO-GALLERY OF
INTERDISCIPLINARY ACTIVITIES
ORGANIZED UNDER DBT STAR
COLLEGE SCHEME IN THE
ACADEMIC YEAR 2024-25**

Title of Activity	Date	Resource Person/Chief Guest	Beneficiaries
Photography Competition	20/12/2024	Dr. S. P. Supanekar & Dr. L. N. Meshram	33



Title of Activity	Date	Resource Person/Chief Guest	Beneficiaries
Model Making Competition	21/12/2024	Dr. L. R. Rathod & Dr. N. A. Sasane	62



Title of Activity	Date	Resource Person/Chief Guest	Beneficiaries
Poster presentation competition	23/12/2024	Dr. G. S. Gund & Ms. A. A. Dhumal	69



**PHOTO-GALLERY OF OUTREACH
ACTIVITIES ORGANIZED UNDER
DBT STAR COLLEGE SCHEME IN THE
ACADEMIC YEAR 2024-25**

Title of Outreach Activity	Date	Beneficiaries
General Health Status Survey (BMI)	13/12/2024	44



**PHOTO-GALLERY OF STUDY TOURS
ORGANIZED UNDER DBT STAR
COLLEGE SCHEME IN THE
ACADEMIC YEAR 2024-25**

Study Tour	Date	Beneficiaries
Rajiv Gandhi Zoological Park, Katraj, Pune	06/12/2024	44



Study Tour	Date	Beneficiaries
Study Tour to Saguna Bag, Neral	09/12/2024	28





**THANK
YOU**



Department of Biotechnology Govt. of India



Star College Scheme

