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**Department of Zoology,
PDEAS Annasaheb Waghire
College, Otur
A.Y.2025-26**

**DBT STAR Scheme
Reports**

Rahul Patil
DEPARTMENT OF ZOOLOGY

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Department of Zoology, PDEAS Annasaheb Waghire College, Otur

Under DBT STAR Scheme

Report 1 Making of Portable Food/Spice Adulteration Kit

Date: 20 September 2025 – 27 September 2025

Organized by: Department of Zoology, PDEAS Annasaheb Waghire College, Otur

Participants: 10 students, of .B.Sc. Zoology

Objectives

- **Design and assemble** a portable kit capable of detecting common adulterants in food and spices.
- **Provide practical exposure** to applied zoology and basic biochemical tests.
- **Raise community awareness** about food safety and consumer health.

Methodology and Activities

- **Literature review and planning:** Students surveyed common adulterants (starch, chalk, artificial colors, metallic salts) and selected simple, field-friendly tests.
- **Kit assembly:** Using low-cost reagents and basic tools, students assembled a compact kit containing reagents, test strips, sample containers, and a user manual.
- **Practical demonstrations:** Kits were tested on locally sourced spice and food samples; procedures and results were recorded in lab notebooks.
- **Outreach material:** Students prepared concise awareness leaflets describing test procedures and health implications of adulteration.

Key Finding (quoted from project record)

“A functional kit was developed for detecting adulterants. Students gained hands-on skills in applied laboratory techniques.”

Outcomes

- **Technical:** A working portable adulteration kit prototype was produced and validated on representative samples.
- **Educational:** Participants acquired hands-on skills in simple biochemical assays and documentation.
- **Social impact:** Prepared awareness material suitable for school and community outreach.

Conclusion and Recommendations

The exercise successfully translated classroom theory into a practical tool for public benefit. It is recommended to: (1) refine the kit for durability and shelf life, (2) pilot the kit in community awareness camps, and (3) document standard operating procedures for wider dissemination.

Acknowledgement: This activity was conducted under the **DBT STAR Scheme** with the support of **PDEAS Annasaheb Waghire College, Otur**. The Department of Zoology gratefully acknowledges DBT STAR and the college authorities for their guidance and resources.



Department of Zoology, PDEAS Annasaheb Waghire College, Otur

Under DBT STAR Scheme

Report 2 Workshop Advanced Apiculture Techniques

Date: 25 April 2026

Resource Persons: Dr. R.P. Patil and Dr. V.D. Jadhav

Participants: 34students

Objectives

- **Introduce advanced beekeeping methods** including hive management and queen rearing.
- **Highlight ecological and economic roles** of apiculture.
- **Explore entrepreneurship** and livelihood options in honey production.

Methodology and Activities

- **Lectures:** The resource persons delivered structured lectures on modern hive designs, seasonal management, disease identification and control, and queen rearing techniques.
- **Demonstrations:** Practical demonstrations included colony inspection protocols and honey extraction steps.
- **Interactive sessions:** Students engaged in Q&A and case discussions on starting small apiculture enterprises and market linkages.

Key Finding (quoted from workshop record)

“Students acquired advanced knowledge of apiculture techniques. Awareness of apiculture as a commercial venture was enhanced.”

Outcomes

- **Skill development:** Participants learned practical colony management and basic disease control measures.
- **Entrepreneurial awareness:** Students identified apiculture as a viable small-scale enterprise and discussed value-addition opportunities.
- **Follow-up actions:** Several students expressed interest in field internships and establishing demonstration apiaries.

Conclusion and Recommendations

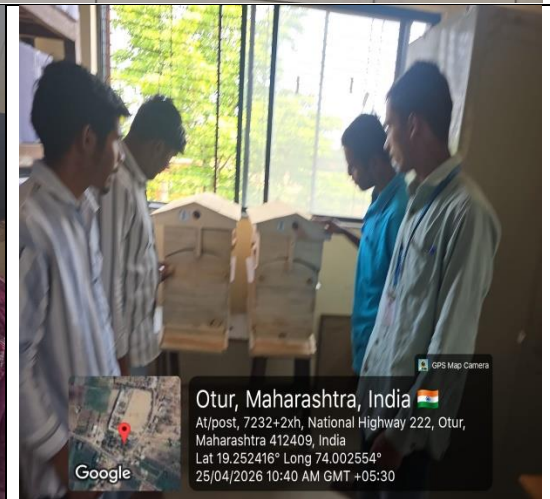
The workshop bridged theoretical knowledge and field practice. Recommended next steps: organize hands-on apiary visits, facilitate linkages with local beekeeping cooperatives, and include apiculture modules in elective practical's.

Acknowledgement: This workshop was supported by the **DBT STAR Scheme** and the college administration. The Department thanks DBT STAR and college authorities for enabling expert resource persons.

Sr.No	Name of Student	Class	Mob.No	Sign
1]	Bhise Gitanjali Shankar [Roll No-14]	FY BSC	7410187573	
2)	Lohote Apurva Anil [Roll No-70]	F.Y. Bsc	9322882774	
3)	Arote Vaishnavi Balascheb [R.No-08]	F.Y. Bsc	7218948038	
4)	Tambe Ankita Bipin	F.Y. BSC	7620693563	
5)	Ghadge Shweta Subhash	F.Y. Bsc	9860917936	
6)	More Rutik Pradip	F.Y. BSC	9561718422	
7]	Shelar Vaishnavi Sitaram	F.Y. B. SC	9960991414	
8)	Alshada Giteerum Dumbare.	F.Y. Bsc	8600393746	
9]	Wajal Poojanka Balascheb	F.Y. Bsc	8010759198	
10)	Honde Sakshi Sanjay	F.Y. Bsc	7558471579	
11)	Mhade Nisha Giteerum	F.Y. BSC	9699618624	
12)	Dharade Chandrakala Balu	F.Y. BSC	7498366247	
13)	Gode Sakshi Dhondibhau	F.Y. BSC	9356017984	
14)	Gonde pratiksha prakash	F.Y. BSC	9356815399	
15)	Thikekar Renuka Jogdish	F.Y. BSC	9096503928	
16)	Ukirde Dhanashree Anil	-1-	8530834467	
17)	Ukirde Tonvi Pradip	F.Y. BSC	7083727319	
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21]	Bhale Payal Dattatray	F.Y. BSC	8600193499	
22)	Bhor Sahil Vasant	F.Y. BSC	8446207352	
23)	Rat Nisha Ashish	F.Y. BSC	7743945055	

Date: _____

Sr.No	Name of Student	Class	Mob.No	Sign
24)	Gaykar Kartik Gulab	P.Y.BSC	9827194959	K.G.G.K.K.
25)	Bodake Aniket Pinesh	F.Y.BSC	7020793642	Bodake
26)	Gondake Goraksh Dattabhai	F.Y.BSC	7382547590	Gj
27)	Bankar Chaitali Navnath	F.Y.BSC	8685296761	
28)	Bankar Atharv Dattabhai	F.Y.BSC	7020884761	Atharv
29)	Pandhe Rushikesh Shashikant	F.Y.BSC	9284467532	Rushikesh
30)	Wardal Rahul Khema	F.Y.BSC	8830642947	Rahul
31)	Jadhav Yash Gorind	F.Y.BSC	8275218275	Yash
32)	Nalawade Sujal Sudhakar	F.Y.BSC	9975966832	Nalawade
33)	Arote Runit Sandip	F.Y.BSC	7083914628	Runit
34)	Umbre Ravindra Chandrakant	F.Y.BSC	9699332915	Ravindra



Department of Zoology, PDEAS Annasaheb Waghire College, Otur

Under DBT STAR Scheme

Report 3 Aquarium Management and Water Quality Analysis

Date: 25 April 2026

Resource Person: Dr. R.P. Patil

Participants: 30 students

Objectives

- **Train students** in aquarium setup, maintenance, and husbandry.
- **Emphasize water quality parameters** critical to aquatic life.
- **Introduce ornamental fish culture** as a potential entrepreneurial activity.

Methodology and Activities

- **Demonstrations:** Practical sessions covered aquarium design, aeration, filtration, substrate selection, and stocking densities.
- **Water quality analysis:** Hands-on testing for pH, dissolved oxygen, hardness and basic nutrient parameters; interpretation of results and corrective measures.
- **Discussion:** Economics of ornamental fish culture, disease prevention, and market considerations.

Key Finding (quoted from workshop record)

“Students gained skills in aquarium management and water analysis. Knowledge of ornamental fish culture as a business opportunity was enhanced.”

Outcomes

- **Practical competence:** Students performed standard water quality tests and learned corrective management.
- **Awareness:** Participants recognized ornamental aquaculture as a small-scale enterprise with local market potential.
- **Resource development:** Recommendations were made to set up a demonstration aquarium in the department for continuous learning.

Conclusion and Recommendations

The workshop effectively combined ecology and applied aquaculture. Recommended actions: establish a departmental demonstration aquarium, include routine water testing in practical curricula, and explore student micro-enterprises in ornamental fish rearing.

Acknowledgement: The Department acknowledges the **DBT STAR Scheme** and college leadership for supporting this practical workshop.

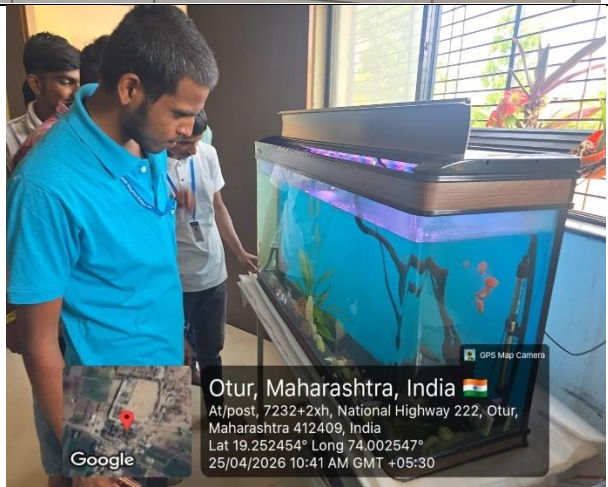
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Department of Zoology, PDEAS Annasaheb Waghire College, Otur

Under DBT STAR Scheme

Report 4 Development of Research Corner

Date: Academic Year 2025–26

Organized by: Department of Zoology

Objectives

- **Foster a research mindset** among undergraduate students.
- **Provide basic instruments and display space** for student projects and demonstrations.

Methodology and Activities

- **Space allocation and setup:** A dedicated corner was equipped with microscopes, specimen models, basic measuring instruments, and display boards.
- **Student displays:** Undergraduate research posters, small instruments developed by students, and project summaries were exhibited.
- **Mentoring:** Faculty guided students in small research projects and encouraged collaborative inquiry.

Key Finding (quoted from departmental record)

“Students benefited from hands-on exposure to research tools. A culture of inquiry and innovation was fostered at the UG level.”

Outcomes

- **Enhanced engagement:** Increased student participation in mini-projects and poster presentations.
- **Skill building:** Improved familiarity with basic laboratory instruments and research documentation.
- **Academic environment:** The corner served as a focal point for peer learning and faculty-student collaboration.

Conclusion and Recommendations

The Research Corner has become an incubator for undergraduate inquiry. To strengthen it further: procure a few intermediate-level instruments, schedule regular student research seminars, and document student projects for external funding applications.

Acknowledgement: The establishment of the Research Corner was supported by **DBT STAR** and the college administration; the department records its appreciation.



Department of Zoology, PDEAS Annasaheb Waghire College, Otur

Under DBT STAR Scheme

Report 5 Science-Preneurship Cell Startup and Innovation

Date: Academic Year 2025–26

Organized by: Department of Zoology

Objectives

- **Guide students** to convert ideas into small-scale entrepreneurial ventures.
- **Promote innovation and self-reliance** through product development and market awareness.

Methodology and Activities

- **Cell formation:** A Science-Preneurship Cell was constituted to mentor student projects.
- **Training modules:** Sessions on product development, basic business models, packaging, and quality considerations.
- **Student projects:** Development of herbal formulations, compost kits, and long shelf-life bouquet making; prototype testing and feedback cycles.

Key Finding (quoted from program record)

“Students developed entrepreneurial skills alongside scientific knowledge. Innovative products with commercial potential were created.”

Outcomes

- **Product prototypes:** Several student prototypes reached demonstrable stages suitable for pilot marketing.
- **Skill acquisition:** Students learned basics of product formulation, quality control, and simple business planning.
- **Culture change:** Increased interest in science-based entrepreneurship and self-employment pathways.

Conclusion and Recommendations

The Science-Preneurship Cell successfully linked science and enterprise. Recommended next steps: facilitate market trials, connect students with local incubators, and document standard protocols for product safety and compliance.

Acknowledgement: The Science-Preneurship initiative is implemented under the **DBT STAR Scheme** with institutional support from the college.

Making of Stone art



long shelf-life bouquet making



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Department of Zoology, PDEAS Annasaheb Waghire College, Otur

Under DBT STAR Scheme

Report 6.1 Outreach School Connect Program Government School and Junior College Kelikotul

Date: 15/01/2026

Organized by: Department of Zoology

Participants: 32 students

Objectives

- **Promote awareness** of NEP-2020 and its emphasis on skill-based, practical learning.
- **Encourage vocational and entrepreneurial thinking** among school students.

Methodology and Activities

- **Interactive lecture:** Focused on NEP-2020 principles, vocational training, and hands-on learning techniques.
- **Group discussions:** Students discussed local vocational options and simple science projects aligned with NEP goals.

Key Finding (quoted from outreach record)

“The session emphasized skill-based learning and practical applications under NEP-2020. Engaged 32 students in discussions on vocational training, entrepreneurship, and hands-on learning techniques promoted under the new policy.”

Outcomes

- **Awareness raised:** Participants gained a practical understanding of NEP-2020 and its opportunities.
- **Engagement:** Active student participation and interest in vocational pathways were observed.

Conclusion and Recommendations

The School Connect program effectively communicated NEP principles. Follow-up is recommended through hands-on workshops and teacher training to sustain momentum.

Acknowledgement: Outreach programs were supported by **DBT STAR** and organized with the cooperation of college authorities and partner schools.



Department of Zoology, PDEAS Annasaheb Waghire College, Otur

Under DBT STAR Scheme

Report 6.2 Outreach School Connect Program Shyadri School and Junior College Bramhanwada

Date: 15/01/2026

Organized by: Department of Zoology

Participants: 67 students

Objectives

- **Explain NEP-2020 impacts** on higher education, flexibility in subject choice, and technology integration.
- **Motivate students** to consider career options aligned with skill-based learning.

Methodology and Activities

- **Interactive session:** Covered NEP-2020 features, subject flexibility, and technology in education.
- **Career discussion:** Explored future career opportunities and practical steps to prepare.

Key Finding (quoted from outreach record)

“A total of 67 students participated in this interactive session, where they explored various aspects of NEP-2020, including flexibility in subject choices, integration of technology in education, and future career opportunities.”

Outcomes

- **Clarity:** Students reported improved understanding of NEP-2020 and its implications.
- **Interest:** Several students expressed interest in pursuing skill-based electives and technology-enabled learning.

Conclusion and Recommendations

The session successfully inspired students to consider NEP-aligned pathways. Recommended follow-ups include career counseling sessions and practical workshops on technology use in learning.

Acknowledgement: The Department thanks DBT STAR and the college for enabling the Shyadri School outreach.



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Department of Zoology, PDEAS Annasaheb Waghire College, Otur

Under DBT STAR Scheme

**Report 6.3 Outreach- Study Tour Educational Tour to
Lohgad Fort Lonavla Pune**

Date of Visit: 23 August 2025

Organized by: Department of Zoology, PDEAS Annasaheb Waghire College, Otur
Participants: 44 students (UG level) and 2 faculty members (faculty coordinators and accompanying staff)

Objectives

- **Educational exposure:** To provide students with first-hand experience of historical ecology, hill-fort ecosystems, and local biodiversity.
- **Field skills:** To train students in basic field observation, specimen documentation, and ecological note-taking.
- **Interdisciplinary learning:** To connect classroom concepts in zoology, ecology, and conservation with on-site observations.
- **Outreach and team building:** To strengthen student engagement, teamwork, and appreciation for local natural heritage.

Previsit Preparation

- **Briefing sessions:** Two preparatory sessions were held covering itinerary, safety protocols, objectives, and expected learning outcomes.
- **Permissions and logistics:** Transport, permissions from college authorities, first-aid arrangements, and contingency plans were finalized.
- **Materials issued:** Field notebooks, specimen collection permits (where applicable), basic first-aid kit, water bottles, and guidance leaflets on responsible field conduct.

Itinerary and Activities

- **0600 hrs Departure:** Bus departure from college campus.

- **0900 hrs Arrival and Orientation:** Short orientation at the Lohgad Fort base; safety briefing and route plan.
- **0930–1200 hrs Guided Ascent and Field Observations:**
 1. **Habitat survey:** Students recorded vegetation types, microhabitats, and signs of fauna (tracks, droppings, nests).
 2. **Avifauna and insect observations:** Visual and auditory identification of common birds and insects; use of binoculars and field guides.
 3. **Geological and historical notes:** Faculty explained fort architecture, rock types, and how geology influences local biodiversity.
- **1200–1300 hrs Picnic and Group Discussion:** Mid-day break followed by an on-site discussion linking observations to course concepts.
- **1300–1500 hrs Transect Walk and Microhabitat Sampling:**
 - **Transect exercise:** Students worked in small groups to record species presence along a fixed transect.
 - **Water and soil observations:** Simple qualitative assessment of soil texture and any nearby water bodies for signs of aquatic life.
- **1500–1600 hrs Descent and Debriefing:** Consolidation of field notes, safety check, and return to bus.
- **1800 hrs Arrival at College:** Submission of field notebooks and short oral reflections.

Observations and Field Notes

- **Vegetation:** Predominantly dry deciduous scrub with patches of lateritic outcrops; presence of native shrubs and seasonal herbs.
- **Faunal signs:** Frequent sightings and calls of common hill-birds; several insect taxa observed including butterflies and orthopterans.
- **Microhabitats:** Rock crevices and ledges provided refugia for small reptiles and invertebrates; leaf litter supported detritivore activity.
- **Human impact:** Evidence of footpath erosion and localized littering; faculty emphasized minimal-impact practices.

Learning Outcomes

- **Applied identification skills:** Students improved skills in visual identification of birds, insects, and plant forms using field guides.
- **Field methodology:** Hands-on experience with transect sampling, note-taking, and group data recording.
- **Ecological understanding:** Enhanced appreciation of how topography and substrate influence species distribution on hill forts.
- **Soft skills:** Improved teamwork, leadership within small groups, and communication during debrief sessions.

Student Feedback

- **Positive responses:** Majority of students reported the tour as highly informative and motivating for fieldwork. Many highlighted the value of seeing ecological concepts in situ.
- **Suggestions:** Requests for longer field sessions, more focused sessions on insect sampling, and future visits timed for migratory bird observations.

Safety and Welfare

- **Incidents:** No major incidents reported. Minor fatigue and dehydration cases were managed on site with rest and fluids.
- **Precautions observed:** Faculty ensured adherence to safety briefings, maintained group integrity during ascent/descent, and carried first-aid supplies.

Documentation and Evidence

- **Field notebooks:** All students submitted individual notebooks containing observations, sketches, and preliminary species lists.
- **Photographs:** Photographic documentation of habitats, notable species, and student activities archived in departmental records.
- **Attendance list:** A signed attendance register of 44 students and accompanying faculty is filed with the department.

Impact and Benefits

- **Curricular relevance:** The tour reinforced theoretical modules in ecology and zoology through experiential learning.
- **Motivation for research:** Several students expressed interest in developing mini-projects based on observations made during the visit.
- **Community awareness:** The visit fostered respect for local heritage sites and highlighted the need for conservation and responsible tourism.

Conclusion

The educational tour to Lohgad Fort on **23 August 2025** successfully met its objectives by providing 44 participating students with meaningful field exposure, practical skills in ecological observation, and renewed interest in local biodiversity and conservation. The Department of Zoology recommends integrating such field visits regularly into the curriculum to strengthen experiential learning.

Acknowledgement: This outreach study tour was organized with the support of the **DBT STAR Scheme** and the administration of **PDEAS Annasaheb Waghire College, Otur**. The Department of Zoology gratefully acknowledges DBT STAR and the college authorities for facilitating the visit.



Department of Zoology, PDEAS Annasaheb Waghire College, Otur

Under DBT STAR Scheme

Report:7 One-Day Biodiversity Workshop

Organized by: Student Development Board & Department of Zoology, Hon. Balasaheb Jadhav Arts, Commerce and Science College, Ale, Tal-Junnar, Dist-Pune

Date: 18 February 2026 (Wednesday)

Venue: Hon. Balasaheb Jadhav College, Ale, Tal-Junnar, Dist-Pune

Resource Person: Mr.Shubhash Kuchik

Certificates: Issued by Hon. Balasaheb Jadhav College (certificate copies attached)

1. Purpose and Objectives

- **Primary purpose:** To expose participating students to contemporary concepts in biodiversity, conservation and field-level observation techniques through a focused one-day workshop.
- **Specific objectives:**
 1. Introduce basic principles of biodiversity and its local significance.
 2. Demonstrate simple field and laboratory methods for documenting biodiversity.
 3. Encourage student participation in biodiversity documentation and awareness activities.
 4. Provide formal recognition of participation through certificates.

2. Participants

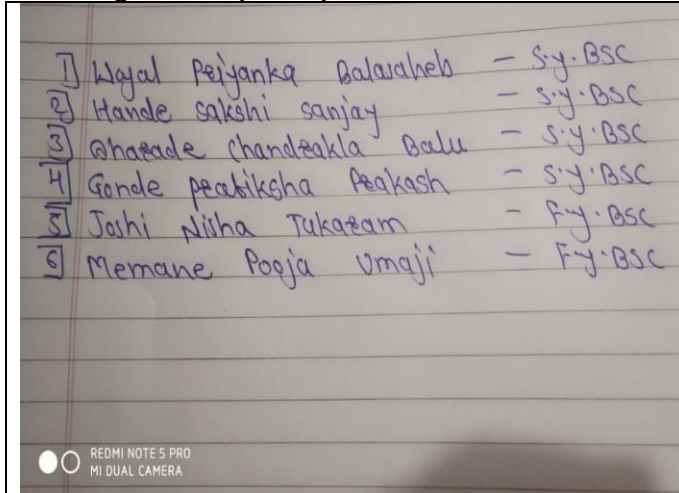
- **Students from PDEAS Annasaheb Waghire College, Otur** who attended the workshop (listed participants):
 1. **Wayal Priyanka Balasaheb** — S.Y. B.Sc.
 2. **Hande Sakshi Sanjay** — S.Y. B.Sc.
 3. **Khade Chandrakala Balu** — S.Y. B.Sc.
 4. **Gonde Pratiksha Prakash** — S.Y. B.Sc.
 5. **Joshi Nisha Tukaram** — F.Y. B.Sc.
 6. **Memane Pooja Umaji** — F.Y. B.Sc.
- **Accompanying faculty:** Dr.Rahul Patil

3. Workshop Structure and Methodology

- **Opening session:** Welcome address by the host college and introduction to workshop objectives.
- **Lecture session (Mr.Shubhash Kuchik):** Core concepts covered included biodiversity definition and levels, importance of local biodiversity, threats and conservation priorities, and the role of students in biodiversity documentation.
- **Practical/demonstration:** Demonstration of simple field techniques (visual surveys, use of field notebooks, basic photographic documentation) and an overview of specimen handling ethics and non-destructive sampling.

- **Interactive segment:** Question-answer session and group discussion on local biodiversity issues and potential student projects.
- **Certification:** Distribution of participation certificates by the host college authorities.

4. Acknowledgement: The Department of Zoology gratefully acknowledges the support of the **DBT STAR Scheme** and the administration of **PDEAS Annasaheb Waghire College, Otur** for enabling student participation in external academic events.



*Thank
you!*