

Rajat Shikshan Sanstha's  
Rajarshi Chhatrapati Shahu College, Kolhapur  
Avishkar UG PG Competition Report

The notification for the Avishkar Research Festival was received from the Shivaji University on 2nd February 2022. In that connection, UG and PG students from six different categories participated in the Avishkar. The Avishkar Committee in the college issued notices to the students and professors and informed them about this. For this, professors from various departments of Arts, Commerce and Science in the college prepared videos and a one page report of their students. After the report and video came to the Avishkar Committee, all the members of the Avishkar Committee sit together and examined all the videos and one page reports in a proper manner.

**A PRELIMINARY STUDY OF ANT DIVERSITY IN THE COLLEGE CAMPUS.**

**Abstract:** Insects are the largest and most diverse group of organisms on Earth. They positively affect soil properties, plant and animal distribution, and health of ecosystem. Ants create a stable ecosystem by recycling dead animals, insects, and decaying matter, placing nutrients back into the soil. In Present study College area were selected as a study area. Number of samples collected by various methods of trapping. Study shows that there is large diversity in ant species. Their eating habit also differs from species to species.

**Keywords:** Ants, traps, Ecosystem.

**Introduction:**  
Ant colonies aerate and enrich the soil. They create stable ecosystem by recycling dead animals, insects, and decaying matter, placing nutrients back into the soil. Ant tunnels enhance water infiltration and circulate air in the ground which is beneficial not only to the soil, but plant roots as well. It can indirectly impact on local populations of many animal groups. Secondly, predator ants prey on a wide range of animals, including larger prey which can be attacked by large numbers of ant workers. Present study focus on study of diversity of ant species college campus which also focus on impact of ants on the ecosystem.

**Research Methodology:**  
Study area: Botanical garden, parking area, canteen area, near the ladies room area. we planted near about 15 traps with the help of some methods such as:  
Oil trap, Bone trap, Chocolate trap, Sugar solution trap, Deodorant trap, Leaf litter sifting, Dry grains (wheat) trap.

**Observation**

Various traps for collection of ant specimens

**Result and Conclusion:** Study shows that there is large diversity in ant species. Their eating habit also differs from species to species. Total 20 different ant species were collected and studied morphologically. Samples were also preserved for next level study at ZSI.

**References:**  
1. Ants and us: A preserving insects & notes Reference book by M. A. Schaeff  
2. Ant Diversity in an urban garden at Mumbai, Maharashtra, Kashmira Khat et al. National Conference on Biodiversity Status and Challenges in Conservation - FAVEO-2013

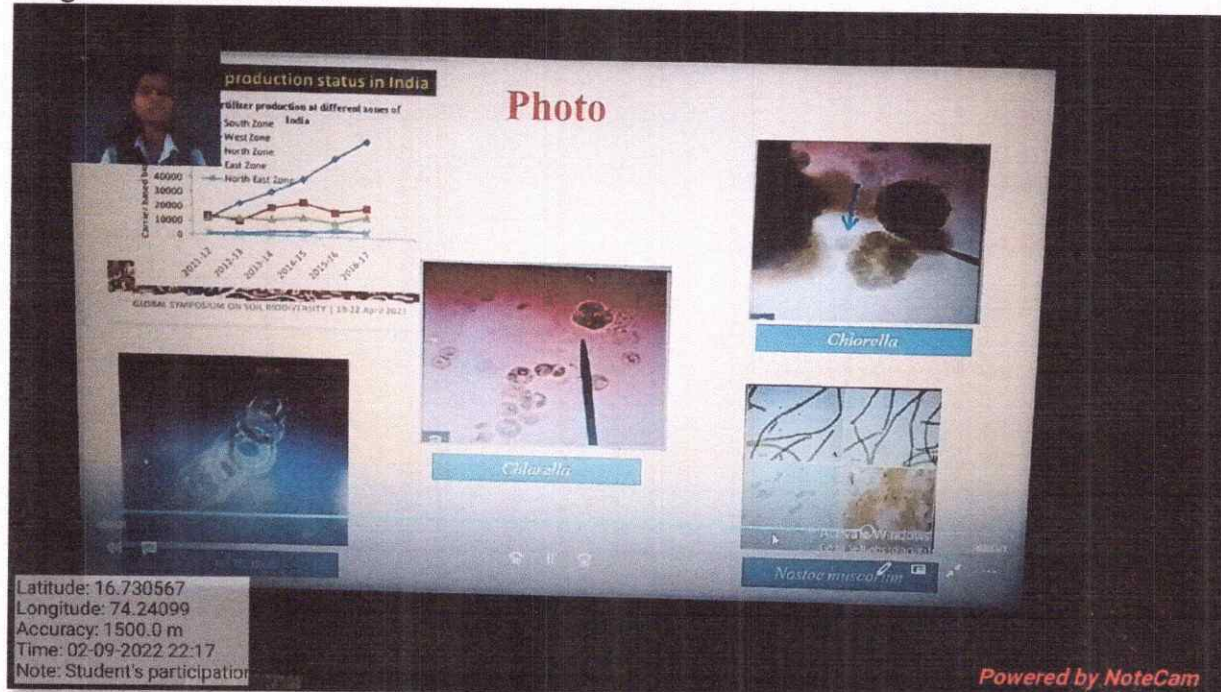
Latitude: 16.730549  
Longitude: 74.241034  
Accuracy: 1500.0 m  
Time: 02-09-2022 22:15  
Note: Student's participation in AVISHKAR RESEARCH FESTIVAL

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It will be decided to send two students from each of the above six categories for the University Avishkar Competition after seeing the videos of the students who are good at Presentation, showing innovative work in that subject. The following students were




selected from the Arts, Commerce and Science Departments for the six different categories for innovation.



After logging in with the login ID given to the college from the link available on the website of Shivaji University, videos and a one page pdf report of all the selected students from the above UG and PG department were uploaded on 9th February, 2022, Shivaji University Avishkar Research Festival online.

The videos and a one page report of all the uploaded students checked online by the Avishkar Committee of Shivaji University. After the completion of all the examination procedures, total **Five students** were awarded first, second and third ranks. Eligible students will then be admitted for the next round. Students will then be selected for the Direct State Level Avishkar Competition.

  
CO-ordinator  
(Dr. K. V. Gaikwad)



  
PRINCIPAL  
R.C. SHAHU COLLEGE  
KOLHAPUR



## Rajarshi Chh. Shahu College, Kolhapur

### List of Students UG- Avishkar 2021-22

Sr.No	Name of Category	Title of Research paper	Name of Student	Class
1	Humanity, Language, Fine Arts	Socio Economic status of Girgaon Village in Shahuwadi tehsil: A Case Study	Pujari Shivam Dhondiram DOB-07/05/2001	B.A III
2	Humanity, Language, Fine Arts	Impact of social media on college youth	Vrishali Manohar Parab DOB-31/10/2000	B.Sc III
3	Commerce, Management, Law	"Birthday Beast children's Party planning and services".	Ruchita Ramchandra shelke DOB-27/07/2003	B.Com II
4	Commerce, Management, Law	To study the pattern of mobile and service providers using statistical methods	Prajakta Hanmant gavade DOB-02/04/2001	B.Sc III
5	Pure Science	A study of rainfall pattern Kolhapur district using statistical techniques	Samriddhi Parashram Naralkar DOB-09/06/2001	B.Sc III
6	Pure Science	A PRELIMINARY STUDY OF ANT DIVERSITY IN THE COLLEGE CAMPUS.	Gautami Dilip Gaikwad 06/06/2001	B.Sc III
7	Agriculture and Animal Husbandry	A comparative study of quality and quantity of milk of buffalo and cow using statistical tools and techniques in kolhapur district	Bhushan Ajit Kadam DOB-13/10/2002	B.Sc II
8	Agriculture and Animal Husbandry	Role of Algae as Biofertilizer along Maharashtra	Shivani Rahul Gawade DOB-03/05/1999	B.Sc III
9	Engineering And Technology	3D Searching Study	Hemant Vinod Singh DOB-11/10/2001	B. Com IT III
10	Engineering And Technology	-	-	-
11	Medicine And Pharmacy	A study of Type-2 Diabetics using statistical tools	Pavankumar Tanaji Patil DOB-12/02/2001	B. Sc III
12	Medicine And Pharmacy	Statistical Analysis of Dialysis Patients	Nishant Tukaram Matane DOB-27/07/2002	B. Sc II



**Rajarshi Chh. Shahu College, Kolhapur**

**List of Students PG- Avishkar 2021-22**

Sr. No	Name of Category	Title of Research paper	Name of Student	Class
1	Humanity, Language, Fine Arts	Study on William Golding's "lords of the filels"	Smt Akshta Kamble. 17-07-1998	M.A I
2	Pure Science	Exploring the Recent Advances in Multicomponent Reaction	Mr. Omkar patil 28/07/1999	M.Sc I
3	Pure Science	Synthesis of NiO NPs Via Green route for daily life application	Mr.Sanket Jadhav 04-01-1998	M.Sc I
4	Agriculture and Animal Husbandry	Pesticide-resistance high nutritional Genetically modified crops:importance in advance agriculture	Miss prajakta Patil 18/07/1999	M.Sc II
5	Medicine And Pharmacy	Designing of Alginate Agarose based Hydrogel for controlled drug delivery and wound dressing application	Miss. Ankita Patil 29-09-1999	M.Sc II
6	Medicine And Pharmacy	Designing of Alginate-Agarose Based Hydrogel of Plantago Ovata Plant's musilage Husk for wound healing Application	Miss Naina Karambalkar 18/4/2000	M.Sc I



**Rajarshi Chh. Shahu College, Kolhapur**

**District level Ranker Students UG- Avishkar 2021-22**

Sr.No	Name of Category	Title of Research paper	Name of Student	Class
1	Humanity, Language, Fine Arts <b>1<sup>st</sup> Rank</b>	Impact of social media on college youth	Vrishali Manohar Parab DOB-31/10/2000	B.Sc III
2	Humanity, Language, Fine Arts <b>2<sup>nd</sup> Rank</b>	Socio Economic status of Girgaon Village in Shahuwadi tehsil: A Case Study	Pujari Shivam Dhondiram DOB-07/05/2001	B.A III
3	Pure Science <b>1<sup>st</sup> Rank</b>	A study of rainfall pattern Kolhapur district using statistical techniques	Samriddhi Parashram Naralkar DOB-09/06/2001	B.Sc III
4	Pure Science <b>3<sup>rd</sup> Rank</b>	A PRELIMINARY STUDY OF ANT DIVERSITY IN THE COLLEGE CAMPUS.	Gautami Dilip Gaikwad 06/06/2001	B.Sc III
5	Medicine And Pharmacy <b>3<sup>rd</sup> Rank</b>	A study of Type-2 Diabetics using statistical tools	Pavankumar Tanaji Patil DOB-12/02/2001	B. Sc III

