

Pune District Education Association's  
**BABURAOJI GHOLAP COLLEGE**  
 Arts, Commerce, Science & Computer Science  
 New Sangvi, Pune- 411027  
**DBT Star**



The data pertaining to the number of students that have opted for PG Courses in Science, after implementation of Star College Scheme of the college.

**Botany**

Academic year	No. of students enrolled	No of students passed out	No of students enrolled in PG courses	Name of Institute
2014- 15	13	11	03	Dept. of Botany, SPPU, Pune
2015- 16	15	9	02	Dept. of Botany, SPPU, Pune
2016- 17	20	18	05	<ul style="list-style-type: none"> <li>• Dept. of Botany, SPPU</li> <li>• N. Wadia, Pune</li> <li>• Prof. R. More College, Pune</li> </ul>
2017- 18				•

**Chemistry**

Academic year	No. of students enrolled	No of students passed out	No of students enrolled in PG courses	Name of Institute
2014- 15	19	06	03	<ul style="list-style-type: none"> <li>• Dept. of Chemistry , SPPU, Pune</li> </ul>
2015- 16	12	04	02	<ul style="list-style-type: none"> <li>• A. Garware College, Pune</li> </ul>
2016- 17	28	21	08	<ul style="list-style-type: none"> <li>• B. Gholap College, Pune</li> <li>• A. Garware College, Pune</li> </ul>
2017- 18				•

**Physics**

Academic year	No. of students enrolled	No of students passed out	No of students enrolled in PG courses	Name of Institute
2014- 15	12	07	06	<ul style="list-style-type: none"> <li>• Waghire College, Otur</li> <li>• A. Garware College, Pune</li> <li>• B. Gholap College, Pune</li> </ul>
2015- 16	15	12	05	<ul style="list-style-type: none"> <li>• B. Gholap College, Pune</li> <li>• R. More College, Akurdi, Pune</li> </ul>
2016- 17	17	13	02	<ul style="list-style-type: none"> <li>• S.P. College, Pune</li> <li>• Modern College, Pune</li> </ul>
2017- 18				•

DBT Star

Principal

**Dr. Vaishali M. Bansod**

**Dr. Balkrishna Zaware**

**DEPARTMENT OF ZOOLOGY**

**BABURAOJI GHOLAP COLLEGE,**

**SANGVI, PUNE**

**DBT**

**STAR COLLEGE ACTIVITY**

**REPORT**

**2016-17**

**DEPARTMENT OF ZOOLOGY**  
**Star activity**  
**2016- 2017**

Sr. no.	Activity	Title	Date	Year/ class	No. of students
1.	Animal Week	• Poisonous beetles	3 <sup>rd</sup> - 8 <sup>th</sup> Oct 2016	SYBSc	16
		• Liger			
		• Tigon			
		• Metallic beetles			
		• Descent of Man			
		• Genetic engineering			
		• Life cycle of Malarial parasite			
		• Sketches of birds			
2.	Charts Demo	1. Descent of Man	3/12/16 7/12/16	FYBSc SYBSc	<b>68</b>
		2. Lamareckism	21/12/16 10/12/16	FYBSc SYBSc	<b>68</b>
		3. Poisonous and Non-Poisonous snakes	4/1/17	FYBSc	<b>52</b>
		4. Zoogeographical distribution	17/12/16	SYBSc	<b>14</b>
		5. Poultry diseases	24/12/16	SYBSc	<b>13</b>
		6. Harmful and useful insects	5/1/2017	SYBSc	13
		7. Larvae of Crustacea	19/1/17	SYBSc	13
		8. Life cycle of Silk Moth	11/12/16	FYBSc	42
		9. Mouth parts of insects			42

Sr. no.	Activity	Title	Date	Year/ class	No. of students
3.	<b>Practicals</b>	1. Weighing balance	28/9/16	FYBSc	53
		2. Rotor	12/10/16		
		3. Water bath	19/10/16		
		4. Aquarium	7/12/16		
4	<b>Film Show</b>	‘Tiger’	30/12/16	FYBSc	54
5.	<b>Interdisciplinary activity</b>	Climatic change and Ecology	14- 15/12/16	FYBSc SYBSc	72
6.	<b>Visit</b>	Biocontrol lab	18/1/17	SYBSc	14
7.	<b>Guest lecture</b>	Aerobiology to Acarobiology	29/01/17	FY,SY,TY BSc.	60
8.	Models, posters, charts display	<b>ZOORBIT</b>	2/2/17	FY, SYBSc.	15

**Animal Week: Notice board display.**The students of SYBSc under star activity scheme displayed the facts and information regarding animals. The topics were given to the students. They selected their topic of interest. The topics were

The charts that were brought under the star activity were also displayed. The charts were then explained to the students the charts were

The students of FYBSc set up the Aquarium in the department.

**Demo Practicals:** The equipments brought under star scheme was displayed. A demonstration practical of the same was conducted for the students of Zoology. The equipment like

**Film Show:** the students of FY and SYBSc were shown the film titled ‘Tiger’ produced by Satpura Tiger Reserve, Hoshangabad, MP.

**Interdisciplinary activity:**

The department of Zoology plans to undertake visit to institutes. Interdisciplinary seminar was undertaken under the Climatic change and ecology seminar. The experts were called from the field of meteorology department, Zoology, Environmental Science and Journalist. They were

1. Dr. Nath – HOD Zoology
2. Mr. Majumdar- Director of IMD, Pune
3. Mr. Bokade from Sakal Newspaper

**Planning:**

1. The department of Zoology plans to have a visit to animal(veterinary) husbandry.

**DEPARTMENT OF ZOOLOGY**

**BABURAOJI GHOLAP COLLEGE,**

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**STAR COLLEGE ACTIVITY**

**REPORT**

**2017-18**



**DEPARTMENT OF ZOOLOGY**

Sr. no.	Date	Name of the activity	Class/ Year	Number of participants	Teacher-in - charge
1.	22 <sup>nd</sup> Aug- !5 <sup>th</sup> Sept. 2017	<b>Project: Display of facts about animal</b>	• S.Y.BSc	07	Dr. V.M. Bansod
2.	3 <sup>rd</sup> – 8 <sup>th</sup> October 2017	<b>Wild life week</b>	S. Y. B. Sc.	13	Dr. V.M. Bansod Dr. S. V. Giramkar
3.	2 <sup>nd</sup> Feb 2108	<b>ZOORBIT: model, posters, and project display</b>	• SYBSc. • FYBSc.	14	Dr. V.M. Bansod Dr. S. V. Giramkar
4.	23- 24 Jan 2018	<b>ZOOPLANET- Intercollegiate competition in N. Wadia College</b>	• S.Y.B Sc.	12	Dr. V.M. Bansod
5.	22 <sup>nd</sup> Dec 2017	<b>Guest lecture Dr. S. B. Jogdand</b>	• SYBSc. • FYBSc.	24	Dr. V.M. Bansod Dr. S. V. Giramkar
6.	22 <sup>nd</sup> Dec 2017	<b>Guest lecture Dr. R. M. Sharma</b>	• SYBSc. • FYBSc.	24	Dr. V.M. Bansod Dr. S. V. Giramkar
7.	22 <sup>nd</sup> Dec 2017	<b>Guest lecture Dr. Sudhakar Kurhade</b>	• SYBSc. • FYBSc.	37	Dr. V.M. Bansod Dr. S. V. Giramkar
8.	22 <sup>nd</sup> Dec 2017	<b>Guest lecture Dr. Rajendra Slunkhe</b>	• SYBSc. • FYBSc.	42	Dr. V.M. Bansod Dr. S. V. Giramkar
9.	22 <sup>nd</sup> Dec 2017	<b>Guest lecture Dr. R.V. Kshirsagar</b>	• SYBSc. • FYBSc.	27	Dr. V.M. Bansod Dr. S. V. Giramkar
10	9 <sup>th</sup> Feb 2018	<b>Visit: Biocontrol Lab</b>	• SYBSc	51	Dr. V.M. Bansod Dr. S. V. Giramkar



**Wild life week**



**Visit: Biocontrol Lab**



**ZOORBIT: model display**



**Guest lecture Dr. R.V. Kshirsagar**



**Guest lecture Dr. Rajendra Slunkhe**



**Students of FYBSc, SYBSc at Guest lecture**



**Guest lecture Dr. S. B. Jogdand**



**ZOORBIT: Students with their projects**

**Dr. Vaishali M. Bansod**  
*Head, Department of Zoology*

**DEPARTMENT OF ZOOLOGY**

**BABURAOJI GHOLAP COLLEGE,**

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**STAR COLLEGE ACTIVITY**

**REPORT**

**2015-16**



### New techniques carried out for the students

	<b>Title of Experiment</b>	<b>Date</b>	<b>No. of students</b>
<b>1</b>	Chick embryo mounting,	13/07/2015	11
		20/07/2015	12
<b>2</b>	BOD operating mechanism	20/07/2015	11
<b>3</b>	Calibration of pH meter	24/10/2015	05
4	Measurement of pH of tap water,	24/10/2015	05
	milk, lime juice, Pepsi cold drink,	27/10/2015	10
	Eno solution and NaOH solution	30/10/2015	10

#### 1. **Minor project implemented, name of students, supervisor:**

The total number of students allotted was 26. Out of which there are 12 girls and 14 numbers of boys. Four batches were made with equal distribution of boys and girls in each batch. The batches were named Pisces, Amphibia, Reptilia and Aves. Out of list of projects the students selected. It was organized under the supervision of Dr. Vaishali M. Bansod

- Preparation of DNA model
- Photos of Insects and other animals taken by students themselves
- Preparation of clay model of six types of Dinosaurs
- Preparation of model of brain of fish, frog, lizard, pigeon and rabbit

The students are given sufficient time from October to December 2015 to complete the project.

1. Deepali Wanmare
2. Vaishali Teldhune
3. Deepali Kumbhar
4. Akshay Shahapurkar
5. Amit Patil

6. Vishal Deshmukh
7. Ashish Kamble
8. Anees Gurfan
9. Swati Waghmare
10. Roshni Mishra
11. Dhanashree Patil
12. Shital Chavan
13. Pooja Mali
14. Omkar Shinde
15. Kanchan Pawar
16. Mandar Bhange
17. Akshata Alhat
18. Sweety Jadhav
19. Trupti Sapate
20. Varsha Tarade
21. Rekha Dongre
22. Akshay Girigosavi

The projects were supervised by Dr. Vaishali M. Bansod

**Mr. Suresh P. Rathod** of **F.Y. B.Sc.** class won prize in Model competition in *Intercollegiate Zoology Festival 2016* organized by the Department of Zoology, N. Wadia College held on 24- 25 Jan 2016

#### Guest lectures

Sr. no.	Name	Designation	Host institute	Duration of visit	Topic of lecture
1.	Mr. Mukund Deshpande	Health Officer	Public Health Department, Govt. of Maharashtra	10 <sup>th</sup> October 2015	'Vector Borne Diseases'
2.	Dr. Madhurima Dixit	Ex- Head of Department of Chemistry,	SPPune University	5 <sup>th</sup> Feb 2016	'Food Magic'

Total numbers of student present were 82.

2. Visits to industry/ institutes:

The department organized two days study visit on 28<sup>th</sup> and 29<sup>th</sup> October 2015. **Eleven** students of FYBSc class visited Ross Life Sciences Research laboratories. It is situated at MIDC, Bhosari, Pune. The students were thrilled to see the maintenance and culture of pest of household and medical importance. They were shown the working and maintenance of the high end lab equipment. Prior to that, the students were informed about the establishment and growth of the lab, and the research that is undertaken 24X7.

**Two of the students Harita Annapantula and Mrinal Talape were sent to singhad college of science to participate in one day workshop on ‘Organic farming and Aqua culture, current status and future prospects’.**

3. List of lab manual generated:

Sr. no.	Lab manual
1.	Department of Zoology Practical Protocol
	Practical I: <u>Preparation of Solutions</u>
	Practical II: Mounting of Chick embryo
	Practical III: Rust-Red Flour Beetle ( <i>Tribolium Castaneum</i> ): Life Cycle
	Practical IV: Calibration pH and find the pH of lime juice, lemon extract, cold drink, milk, Eno, distilled water and tap water.

4. Feedback mechanism adopted to be indicated in term of how the quality of teaching and hand on training improved: Feedback form was distributed to the students about the practical and hand on training

- The students were aware about the DBT Star activities
- The students found the chemicals in certain practical sufficient
- The students learnt practical in hands on training
- The students rated good for the guest lectures of eminent scientists and found it valuable
- The students experienced increase in the availability of the equipment
- The knowledge about new practical beside the curriculum of the students widened
- The scheme helped students and participated in model competition

5. Special innovative approach adopted by COLLEGE in improving UG education:

- new practical introduced
- Visit to institute
- Guest lecture by eminent personalities
- Projects undertaken
- Students were also sent to other college for one day workshop

6. A summary on 'How the scheme helped in strengthening of UG education and what would not have been possible without this:

The students were introduced about the various courses in the subject of Zoology. They were also motivated and encouraged to perform and handle instruments under new practical. They were also allowed to visit the research lab. They were introduced to the research students carrying out the research work and project. The practical of the same were demonstration to the students. The projects were given to the students where students completed it with the aid of computer, reference book, and download from internet. Without the scheme the student would not have known to use the computer and internet. Their knowledge about the subject increased and generated interest in the same.

7. Suggestion/ Feedback for improving the scheme: there should be considerable time for implementation and carrying out the activity.

**Term I : Total: 16 Appeared : 14**

**Pass: 14**

**% pass: 100**

**Fail: Nil**

**Male: 02**

**Female: 12**

**Pass Male :02**

**Female :12**

**P I (Dr. SGS/ TKP) Distinction: 08 I: 02 II :02 pass02**

**P II(Dr. VMB) Distinction: 13 I: -- II :01 pass: --**

Dist- 35 and above I: 30 -34 II: 25 -29 Pass: 20 -24



Model Of Dinosaur in intercollegiate competition held in N. Wadia



Mr. Suresh Rathod bagged prize in competition



Students shown the protocol using computer



Students carrying out the experiments calibration of pH meter and detection of pH



**Guest lecturer –  
Dr. Madurima Dixit delivering lecture on  
Food Magic**



Visit to Ross Life Science Institute Batch I



Students with Scientist and guide in Ross Life Science Institute- Batch II

Result :

Year	Class	Cut off %	No. of students admitted	% of result	No. of drop out students
<b>2015-16</b>	F. Y. B. Sc.	39	67	34.54	
	S. Y. B. Sc.(Zoology)	-	15	100	Nil
<b>2016-17</b>	F. Y. B. Sc.	42	68	54	02
	S. Y. B. Sc.	-	16	100	02
<b>2017- 18</b>	FYBSc	45	92	Appearing	-
	S. Y. B. Sc.	-	53	„	-