

## DEPARTMENTAL REPORT OF ZOOLOGY

<b>Name of the Department: -</b>	Zoology																						
<b>Faculty:-</b>	<ol style="list-style-type: none"> <li>1. Dr. B. B. Sharma (Principal)</li> <li>2. Dr. Ms. B. P. Hardikar (Head of Department)</li> <li>3. Dr. Ms. N. S. Kulkarni</li> <li>4. Dr. V. Koli</li> <li>5. Dr. V. R. Ragade</li> <li>6. Ms. Shanti Upadhye (CHB)</li> </ol>																						
<b>Technical and administrative staff:-</b>	<ol style="list-style-type: none"> <li>1. Mr. A.G. Dayate (Administrative staff)</li> <li>2. Mr. V.U. Muley (Technical staff)</li> <li>3. Mr. P.N. Belkade</li> <li>4. Mr. K.J. Gade</li> <li>5. Mr. M.P. Tikas</li> </ol>																						
<b>Physical Infrastructure: -</b>	<p>Laboratories/ physical space: brief description of equipment</p> <p><b><u>Laboratory</u></b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Lab No 1</td> <td>Jr. College Lab 2180 Sq Ft</td> </tr> <tr> <td>Lab No 2</td> <td>Sr. College Lab 1233 Sq Ft</td> </tr> <tr> <td>Lab No 3</td> <td>M Sc Zoology Lab 482 Sq Ft</td> </tr> <tr> <td>Lab No 4</td> <td>Tissue Culture Lab 200 Sq Ft</td> </tr> <tr> <td>Lab No 5</td> <td>Research Lab 220 Sq Ft</td> </tr> <tr> <td>Lab No 6</td> <td>Preparation Room 200 Sq Ft</td> </tr> <tr> <td>Lab No 7</td> <td>Biotechnology</td> </tr> <tr> <td>Undergraduate Lab</td> <td>1500 Sq Ft Tissue Culture Lab 300 Sq Ft</td> </tr> <tr> <td>Lab No 8</td> <td>MSc Laboratory with 1500 Sq Ft</td> </tr> <tr> <td>ATC/PTC</td> <td>Tissue Culture Lab 200 Sq Ft</td> </tr> <tr> <td>Lab</td> <td>Molecular Biology 300 Sq Ft</td> </tr> </table> <p style="text-align: right;">*These Labs are used for Research Activity and are also shared by the Undergraduate and</p>	Lab No 1	Jr. College Lab 2180 Sq Ft	Lab No 2	Sr. College Lab 1233 Sq Ft	Lab No 3	M Sc Zoology Lab 482 Sq Ft	Lab No 4	Tissue Culture Lab 200 Sq Ft	Lab No 5	Research Lab 220 Sq Ft	Lab No 6	Preparation Room 200 Sq Ft	Lab No 7	Biotechnology	Undergraduate Lab	1500 Sq Ft Tissue Culture Lab 300 Sq Ft	Lab No 8	MSc Laboratory with 1500 Sq Ft	ATC/PTC	Tissue Culture Lab 200 Sq Ft	Lab	Molecular Biology 300 Sq Ft
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	<p style="text-align: right;">Post Graduate Students Library Facility.</p> <p><b><u>Equipments</u></b></p> <ol style="list-style-type: none"> <li>1. Compound Microscope</li> <li>2. Dissecting Microscope</li> <li>3. Incubator</li> <li>4. Electric Oven</li> <li>5. Homogenizer</li> <li>6. PH Meter</li> <li>7. Colorimeter</li> <li>8. Water Distillation Plant</li> <li>9. Conductivity Meter</li> <li>10. Microtome</li> <li>11. Paraffin Bath</li> <li>12. Autoclave</li> <li>13. Refrigerator</li> <li>14. Spectronic</li> <li>15. Kymograph Machine</li> <li>16. Digital Balance</li> <li>17. Electrophoresis App.</li> <li>18. Deep freezer</li> <li>19. Digital PH Meter</li> <li>20. Centrifuge Machine</li> <li>21. Photoelectric Colorimeter</li> <li>22. Rotary Shaker</li> <li>23. TLC Kit with spare parts</li> <li>24. Lux Meter</li> <li>25. Magnetic Stirrer</li> <li>26. Heating Mental</li> <li>27. Laminar Air Flow</li> <li>28. Binocular Microscope</li> <li>29. Hot &amp; Cold Blower</li> <li>30. Water Bath</li> </ol>
<b>Programs and Subjects taught</b>	<ol style="list-style-type: none"> <li>1. UG B.Sc.– Main: Zoology Applied Component: Environmental Science &amp; pollution</li> <li>2. PG M.Sc. – 1. Zoology; Oceanography 2. Zoology; Physiology</li> <li>3. PG M.Sc. by Research – Zoology</li> </ol>
<b>Other courses and programmes:-</b>	Biotechnology
<b>Add-on courses UGC career oriented course under X plan by the department:</b>	Biotechnology
<b>Revision of syllabus by the university.</b>	<ol style="list-style-type: none"> <li>1. 2010 – 11: T.Y.B.Sc.</li> <li>2. 2006 – 07 : M.Sc. - I</li> <li>3. 2007 – 08 : M.Sc. - II</li> </ol>

	<p>4. 2008 – 09: F.Y.B.Sc. 5. 2009 – 10: S.Y.B.Sc.</p>
<b>Salient features of Department</b>	<p><b>Number of faculty</b> <b>PG Recognition- 4</b> <b>PhD Guides -3</b> <b>Papers taught</b> S.Y.B.Sc. – 3 T.Y.B.Sc. – 4 + 2 AC No of Seminars Conducted (Interdisciplinary State level) : Nil Total number of Publications: 6 Total number of workshops/Seminars attended: 17 No of Participation at International Conferences: 3 No of Research Projects completed and in progress: 1 No of Consultancy projects: Nil No of UG Students T.Y.B.Sc. : (Total in last 5 years-126) (Last year -21) No of PG Students: (Total in last 5 years-48) (Last year -9) No of PhD students: 16 No of PhD degrees awarded: 11</p>
<b>Projects undertaken, completed:-</b>	<p>1 Major – UGC Evaluation of in vitro cytotoxic activity of the natural products, the crude extracts of <i>Poecilocus pictus</i> and its food plant <i>Calotropis gigantea</i>, and their characterization by Dr. B. P. Hardikar</p>
<b>Contribution of the department to college Administration and activities.-</b>	<ol style="list-style-type: none"> <li>1. Every member of the department has contributed to college administration and activities.</li> <li>2. Dr. B. B. Sharma was Vice-Principal of the college since 2006. He was then selected as a Principal of the college in 2009. Since then he is looking after administration along with his teaching schedule.</li> <li>3. Dr. Hardikar has been working as convener of Science association since 2009. During that time even Arts and commerce students were also a part of the association. She was also looking after Nature club of the college. She encouraged students to admire and acknowledge nature through various</li> </ol>

	<p>activities.</p> <p>4. Dr. N. S. Kulkarni has contributed largely through activities of NSS as she was PO for 2005 and 2006. She also has actively worked for Research Promotion Committee, Woman Development Cell. She was also an active member of editorial team of college magazine committee.</p> <p>5. Dr. V. A. Koli is coordinator of Vaze centre for talent search (VCTS) since 2005. It is through this centre, students of 8<sup>th</sup> and 9<sup>th</sup> standards are given guidance for Maharashtra Talent Search (MTS) and National Talent Search (NTS) examinations. Every year students prepared through this centre come out with flying colours. He is also contributing substantially as a member of student council, placement cell, discipline committee and magazine committee. He also helps in maintaining college website.</p> <p>6. Dr. Ragade has worked as a member of research promotion committee and PO of NSS cell of the college. He is also a convenor for cultural committee(external) since 2009.</p>
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**Students profile**

**Class: T.Y.B.Sc.**

Year	Appeared	I Class	II Class	Pass Class	% Pass
2005-06	25	01	14	12	92
2006-07	29	01	20	08	100
2007-08	27	01	19	08	100
2008-09	24	--	21	03	100
2009-10	21	00	14	07	100
2010-11	07	03	04	--	100

**Class: S.Y.B.Sc**

Year	I Class	II Class	Pass Class	Appeared	% Pass
2005-06	27	12	--	41	95.12
2006-07	23	17	02	48	87.50
2007-08	17	22	01	42	95.23
2008-09	10	25	05	41	97.56
2009-10	04	08	12	31	77.41
2010-11	12	14	--	28	92.85

**Class: F.Y.B.Sc**

Year	I Class	II Class	Pass Class	Appeared	% Pass
2005-06	21	28	10	79	74.68
2006-07	08	26	16	60	83.33
2007-08	10	27	04	65	63.07
2008-09	02	11	02	38	39.47
2009-10	02	16	07	86	29.06
2010-11	07	13	09	87	33.33
<b>Innovations in Teaching Methods:-</b>			Use of OHP Use of LCD Projector Seminars Group Discussion Quiz Projects		
<b>Innovation in evaluation Methods:-</b>			Assignments Weekly Exams Practical Exams		
<b>Plans for coming five years :-</b>			Organize and host an International Conference Workshop for Non Teaching in Instrument Maintenance and chemical preparations Organize Guest lecturers from Research Industries		
<b>Annual budget for the department for library.</b>					
YEAR		Allocation (RS)		Utilization (RS)	
2005-06		20750.00		22355.00	
2006-07		21800.00		19945.00	
2007-08		23700.00		23068.00	
2008-09		22900.00		19897.00	
2009-10		16500.00			
<b>Prominent Alumni</b>					
Name		Current Position		India / Abroad	Other Details
Ms. Tanuja Samant		Doing her Ph.D., KET'S V. G. Vaze College, and Mumbai.		India	
Ms. Aarti		Lecturer in Zoology, St Xavier's College		India	
Mr. Rajiv Jha		Lecturer, Bombay Teachers Training Center		India	
Ms. Ashu Vajpai		Lecturer in Zoology, K. C. College, Mumbai		India	
Mr. Amol Kulkarni		Lecturer in PGDCPM, KET'S V. G. Vaze College, Mumbai		India	
Ms. Juily Limye		Lecturer in PGDCPM, KET'S V. G. Vaze College, Mumbai		India	
Ms. Dipti Jain		Research Assistant, Ranbaxy, Mumbai		India	

Ms. Mugdha Divekar	Doing her Ph.D. in Germany	Germany	
Ms. Pridisha Ghosh	Doing her Ph.D. in UDCT, Mumbai	India	
Ms. Madhu Sharma	Doing her Ph.D. in Monash University, Australia	Australia	
Ms. Rutuja Patil	1) Assistant Coordinator of Vaze Centre for Talent search. KET'S V. G. Vaze College, Mumbai. 2) Study Coordinator In KET'S Scientific Research Centre – Cosmetology Division. KET'S V. G. Vaze College, Mumbai.	India	
Ms. Komal Soman	Data Analyst for CDM, Cognizant Tech Service, Powai. Mumbai.	India	
Ms. Snehal Kaswan	Novartis Health Care Ltd, Hyderabad	India	
Mr. Vikram Shirur	P. R. Manager, Victory Nox pvt Ltd, Nariman Point. Mumbai.	India	
<b>Student's Achievements</b>			
<b>Programmes Organized</b>			
<b>Other Highlights</b>		<ol style="list-style-type: none"> <li>1. Dr.N. S. Kulkarni was awarded best Programme Officer, Central Suburb, and Mumbai - 2006.</li> <li>2. Dr. V A Koli Completed orientation course with first rank.</li> <li>3. Dr.V.R.Ragade awarded young Scientist award.</li> <li>4. Patent- (1122/MUM/2007 A) has been published in the name of Kelkar Education Trust's research Centre, Bhagyashree Hardikar and Caroline Mathen for the invention titled "Insect extract based cytotoxic (anti neoplastic) agent", Patent office journal, 19<sup>th</sup> June 2009.</li> <li>5. Dr.N. S. kulkani was awarded travel grant from rattan Tata Trust to present paper at International Conference.</li> </ol>	

	Her case was at Hongkong selected to be a part of a documentary prepared by Ratan Tata Trust in 2009.
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