DEPARTMENT OF ZOOLOGY

SHIVAJI UNIVERSITY, KOLHAPUR

UGC –SAP, DST-FIST, DBT- IPLS and DST-PURSE

Faculty of Science and Technology

Established: 14th June, 1964

DEPARTMENTAL PROFILE

2020

Department Profile

Name of the Department: Zoology
Year of Establishment: 14th June, 1964

1) From the Desk of Head

It gives me an immense pleasure to lead this prestigious department that has produced eminent scholars. Over a time span of 56 years, the Department has imparted excellence in Education and Research. The faculty members are devoted and brought spectacular achievements in the field of Cell Biology, Animal Physiology, Entomology, Environmental Biology, Fisheries and Sericulture. We always make a point with our students to provide them Hands on Training in Cell culture, Silkworm rearing, Apiculture and Fisheries. To inculcate the Research skills in Post Graduate and Doctoral students, we assign topics in the fields of Cellular and Molecular aspects of Neuro degeneration, Therapeutic potential of Phyto-nanoparticles on Diabetes and Aging, Biodiversity & Biosystematics, Avian studies, Fish & Molluscan Toxicology, Eco-friendly Pest Management and Sericulture. This Department is blessed with well-equipped laboratories and an Animal House with the State of Art infrastructure. To showcase the biodiversity and conservation, Butterfly park is established in the campus with 80 species of host and nectar plants. So far 40 species of Butterflies are sighted in the park.

For promoting entrepreneurship, we have initiated two job-oriented courses, viz., Diploma in Sericulture and Post Graduate Diploma in Sericulture. Further, to provide a Niche for budding Entrepreneurs and Technocrats for venturing in Sericulture & Apiculture, "Centre of Excellence & Incubation in Sericulture" is established. To explore the new avenues in marine research, this department has taken the possession of 'Marine Environmental Research Centre' at Malvan, District Sindhudurg.

Situated in the midst of Northern-Western Ghats, Department has made several outstanding contributions in the fields of biodiversity of Insects, Molluscs, Fishes, Amphibians and Reptiles. In their endeavour to achieve the excellence in Research, faculty members have reported several species of Insects, amphibians and reptiles for the first time from Maharashtra. It's not only the Research area, that my colleagues have put up spectacular contributions, they have also proved their mettle in Transfer of Technology in the disciplines of Agriculture, Apiculture, Fisheries, Sericulture and Conservation of Biodiversity.

Prof. (Dr.) V. S. Manne
Head

2) Brief History of the department along with present focus in academic & research: -

Department of Zoology

Started with a student strength of 15 for M.Sc. in 1964 by Dr. E.N. Das, then the Principal of Rajaram College, Kolhapur, this Department has produced eminent Zoologists and contributed greatly for the advancement of the subject. Students of this Department excelled as Vice-chancellors of prestigious Universities and are serving in senior positions at Foreign Research Institutes and Universities. Presently, this Department is imparting M.Sc. for 60 students, 40 for Ph.D. and 15 for M.Phil. During the latter part of M.Sc., students are allowed to opt among five specializations, viz., Cell Biology, Animal Physiology, Entomology, Aquatic Biology & Fisheries and Sericulture. This premier Department is following Choice Based Credit System pattern for M.Sc. program. Post Graduate students are being provided with hands on training in various Entrepreneurship activities viz., silkworm rearing, Kisan nurseries, preparation of handicrafts from silkworm cocoons, fabrication of aquarium, rearing of ornamental fishes, Apiculture etc. through Value Added Courses funded by Department of Science & Technology, New Delhi. Students are encouraged to take up project works in order to inculcate research skills under the guidance of faculty members. To infuse confidence and determination in slow learners, faculty are continuously monitoring and motivating through remedial classes. The holistic efforts of our faculty members ensured great success of our students in competitive examinations, viz., NET, GATE, SET. From this Department, so far, 205 students were awarded with Ph.D. Degree.

With active funding of over 4.50 crores from several National funding agencies, this Department has put up excellent contributions in the fields of Biodiversity and Bio resources Management (UGC-SAP, CSIR, UGC, DBT-IPLS), Animal Physiology and Toxicology (DST – SERB, UGC, DBT), Cell Stress, Hormesis, Cellular and Molecular aspects of neurodegeneration, Therapeutically potential phyto nanoparticles on diabetes and Aging (DST, UGC, ICMR), Pest Management (UGC), Dissemination of Tasar culture and Silkworm disease management (UGC-SAP, CSIR). As a recognition to the spectacular contributions made by this premier Department, District Planning and Development Council, Government of Maharashtra, Kolhapur has granted Rs. 1.34 crores for establishment of Demonstration cum Training Centre in Sericulture, Mass production units for biological control agents of pests of agriculture and Public health. Several of our Researchers are recipients of awards at National & International arena for their research

excellence. One of our faculty members has filed for a Patent on "Nano encapsulation of Trigonelline: A novel remedy to treat Type 2 *Diabetes mellitus* in mice model".

Several **Transfer of Technology Programmes** have been taken up by the researchers of this Department in Sericulture and Aquaculture. Faculty members regularly provide their technical expertise in the fields of Apiculture, Biodiversity, Sericulture, Agriculture especially Pest Management and Pisciculture to Agricultural Officers, Sericulture Officers, farmers by dissemination of technologies through Trainers' Training Programmes, Workshops, Group Discussion, Awareness Programmes, Crisis Management programs, Exhibitions and KrishiMela etc.

To enhance the **Entrepreneurship activities** among our students and farmers, we are conducting two courses, viz., **Post Graduate Diploma in Sericulture** (PGDS) and **Diploma in Sericulture** (DS). Through these structured courses we are promoting the Entrepreneurship activities. These entrepreneurs are registering as Incubates under our **"Centre of Excellence and Incubation in Sericulture".** The University is providing all kinds of technical and infrastructural support to these incubates. Several alumni have achieved great success in the fields of Commercial rearing of Silkworms, Production of Silkworm Seed Cocoons, Kisan Nurseries, Chawki Rearing (Young silkworm rearing). Department is having **International collaboration with Ministry of Agriculture**, **Havana, Cuba** and National collaboration with National Institute of Oceanography, Goa. Our Faculty members take active part in various **Advisory Bodies** viz., Maharashtra State Biodiversity Board (Directorate of Forests, Govt. of Maharashtra), Nagpur and Directorate of Sericulture, Govt. of Maharashtra, Nagpur.

We arrange regular interaction sessions with external faculty members, Scientists, Government Officers and Technocrats from Industries to interact with our students through **Invited Lectures**. In collaboration with National Academy of Sciences India, Bangalore Chapter, we have organized **Lecture series in Biology** at this Department in 2017.

As Western Ghats are the Hot spot for faunal biodiversity, every year we conduct **workshops on Awareness on Biodiversity and its conservation**. These workshops are sponsored by Maharashtra State Biodiversity Board, Ministry of Forests, Govt. of Maharashtra, Nagpur. During these programs eminent personalities from Forest Department deliver lectures on the importance of Biodiversity and its conservation. During the deliberations, they narrate the students about the threatened species and their conservation techniques. Faculty members takes active part in conducting such programs in affiliated colleges with active funding from Maharashtra State Biodiversity Board.

Faculty members impart corporate training to Sericulture farmers on **"Integrated Sericulture Farming".** Under this programme **55 farmers from Osmanabad district** were trained during October, 2018. This program was sponsored by Agriculture Technology Management Agency (ATMA) and District Sericulture Officer, Directorate of Sericulture, Govt. of Maharashtra, Osmanabad. The second batch of "Integrated Sericulture Farming" is conducted for **25 farmers from Radhanagari village of Kolhapur District** during 11.02.2020 to 20.02.2020 in collaboration with D. Y. Patil Krishi Vigyan Kendra sponsored by Agriculture Skill Council of India, Indian Council of Agriculture Research, Govt. of India, Guragaon, Haryana.

3) Vision: To spread higher education in the subject of Zoology including recent advances for the welfare of Society.

Mission: To create expertise in the field of research in various disciplines of zoology like Animal Physiology, Environmental Pollution, Aquaculture and Fishery Technology, Entomology, Insect Pests and Disease management, Sericulture, Cell and Molecular biology and Animal diversity.

Goal:

To make efforts in utilization of the output of the researches in fulfilling the needs of the society of this region and the Nation as well.

Core Values of the Department.

I. Respect to all students in equality of learning by providing good facilities and services.
II. Conduct various activities honestly for students, faculty members, staff and community.
III. Strive to ensure the teaching and supporting systems works appropriately and in time.
IV. Provide quality teaching that will lead to perceive knowledge and skills necessary for achieving success in research, entrepreneurship, carrier and leadership.

4) Academic Programs offered with Intake.

Sr. No.	Program	Year of Inception	Intake
1.	M. Sc.	1964	60
2.	M. Phil.	1964	05
3.	Ph. D.	1964	41
4.	**Diploma**		
	a. Post Graduate Diploma in Sericulture	2017	40
	b. Diploma in Sericulture	2017	40

5) CBCS with course Structure

M.Sc. Programme Structure of Zoology
Part – I (CBCS pattern) (2019-2020)

SEMESTER – I (Duration 6 months)																			
Sr. No	Course Code	**Teaching Scheme**						**Examination Scheme**											
								Theory								Practical (CPPR)			
		Theory			Practical			Theory (UA)			Internal (IA)			Total		Total			
		No. of Lectures	Hours	Credit	No. of Lectures	Hours	Credit	Max.	Min.	Hours	Max.	Min.	Hours	Max.	Min.	Max.	Min.	Hours	
1	CC-101	4	4	4	16	16	8	80	40	3	20	8	1	100	40	Practical Examination is Annual.			
2	CC-102	4	4	4				80	40	3	20	8	1	100	40				
3	CC-103	4	4	4				80	40	3	20	8	1	100	40				
4	CC-104	4	4	4				80	40	3	20	8	1	100	40				
	Total	16	16	**16**	16	16	**8**					-		400	-				
5	AEC-I	2	2	**2**	-	-	-	-	-	-	-	-	-	50	20				
SEMESTER – II (Duration 6 months)																			
6	CC-201	4	4	4	16	16	8	80	40	3	20	8	1	100	40	Practical Examination is Annual.			
7	CC-202	4	4	4				80	40	3	20	8	1	100	40				
8	CC-203	4	4	4				80	40	3	20	8	1	100	40				
9	CC-204	4	4	4				80	40	3	20	8	1	100	40				
10	CCPR-205	-						-								200	80	As per BOS guidelines	
11	CCPR-206	-						-								200	80		
Total		16	16	**16**	16	16	**8**				80			400		400	-		
12	SEC-I	2	2	**2**	-	-	-	-	-	-	-	-	-	50	20	-	-		
Grand Total		32	32	**32**	32	16	**16**				160			800		400	-		

M.Sc. Programme Structure of Zoology
Part – II (CBCS pattern) (2020-2021)

SEMESTER – III (Duration 6 months)																			
Sr. No	Course Code	**Teaching Scheme**						**Examination Scheme**											
								Theory								Practical (CPPR)			
		Theory			Practical			Theory (UA)			Internal (IA)			Total		Total			
		No. of Lectures	Hours	Credit	No. of Lectures	Hours	Credit	Max.	Min.	Hours	Max.	Min.	Hours	Max.	Min.	Max.	Min.	Hours	
1	CC-301	4	4	4	16	16	8	80	40	3	20	8	1	100	40	Practical Examination is Annual.			
2	CBE-302	4	4	4				80	40	3	20	8	1	100	40				
3	CCS-303	4	4	4				80	40	3	20	8	1	100	40				
4	CCS-304	4	4	4				80	40	3	20	8	1	100	40				
	OE-II/SWM-II	2	2	2															
	TOTAL	16	16	**16**	16	16	**8**	320			80	-		400	-				
SEMESTER – IV (Duration 6 months)																			
5	CC-401	4	4	4	16	16	8	80	40	3	20	8	1	100	40	Practical Examination is Annual.			
6	CBE-402	4	4	4				80	40	3	20	8	1	100	40				
7	CCS-403	4	4	4				80	40	3	20	8	1	100	40				
8	CCS-404	4	4	4				80	40	3	20	8	1	100	40				
	OE-II/SWM-II	2	2	2															
9	CCPR-405	-						-								200	80	16	
10	CCPR-406	-						-								200	80	16	
TOTAL		16	16	**16**	16	16	**8**	320			80			400		400	-	-	
Grand Total		32	32	**32**	32	16	**16**	640			160			800		400	-	-	

6) Outcome base Education

a. Programme Outcomes:

PROGRAMME OUTCOMES OF M. Sc. ZOOLOGY

PO1: Apply the knowledge of zoology in day today life.

PO2: Students are able to understand animals from their sub-cellular to ecosystem level.

PO3: Gain knowledge of agro based entrepreneurship like Sericulture, aquaculture, apiculture and lac culture for providing lab-to-land benefits to Society.

PO4: Students are able to frame hypothesis, design experiment, analyse data & generate conclusions.

PO5: Students are able to work to work in animal cell culture lab, taxonomy, able to operate different instruments in biological sciences like toxicity studies.

PO6: Students are able to work in different fields of biological sciences like animal cell culture, toxicology, enzymology, bio-instrumentation and taxonomy.

PO7: Students are able to address societal issues like pollution, health awareness, pest-parasite management and biodiversity conservation.

PO8: Students are able to gain knowledge on applied science and its application to sustainable development.

PROGRAMME SPECIFIC OUTCOMES OF M. Sc. ZOOLOGY

PSO 1: Students are capable to get positions in the various fields of life sciences such as scientists, academic and administrative, industries, corporate, entrepreneurs, animal conservator, entomologists and taxonomists.

PSO 2: Perform procedures in laboratory areas of taxonomy, physiology, cell biology, ecology, genetics, applied Zoology, tools and techniques of Zoology, toxicology and pest control.

PSO 3: Groom and encourage the students for examinations like NET, SET, GATE and for their research careers.

PSO 4: Developing academically sound researchers and manpower in the field of Cell biology, Physiology, entomology, fisheries-aquaculture and Sericulture.

PROGRAMME OUTCOMES OF POST GRADUATE DIPLOMA IN SERICULTURE

PO1: Students are able to understand silkworms and silkworm rearing.

PO2: apply knowledge to develop healthy sericulture practices.

PO3: Students are able to address issues of sericulture farmers like disease and pest management of silkworm and mulberry.

PO4: Gain knowledge of agro based entrepreneurship in Sericulture for providing lab-to-land benefits to sericulturists.

PO5: Students are able to take up sericulture as a very good avocation.

PROGRAMME SPECIFIC OUTCOMES OF POST GRADUATE DIPLOMA IN SERICULTURE

PSO1: Students are capable to get positions in the field of sericulture such as scientists, academic and administrative, industries, corporate, entrepreneurs, and sericulturists.

PSO1: Perform practices in sericulture laboratories and take it to farmers for healthy sericulture practices.

PSO3: Shape the students to take up sericulture as successful career.

PROGRAMME OUTCOMES OF DIPLOMA IN SERICULTURE

PO1: Farmers and common people are able to understand silkworms and silkworm rearing.

PO2: Farmers are able to apply knowledge to develop healthy sericulture practices.

PO3: Common man is able to understand issues of Sericulture like disease and pest management of silkworm and mulberry.

PO4: Gain knowledge of agro based entrepreneurship in Sericulture for providing lab-to-land benefits to sericulturists.

PO5: Farmers are able to perform healthy and common sericulture practices.

PROGRAMME SPECIFIC OUTCOMES OF DIPLOMA IN SERICULTURE

PSO1: Students are capable to get positions in the field of sericulture such as Field Assistant, Technical Assistant, Grainage Assistant, Reeler etc. in academic institutions, administrative organizations, industries related with Sericulture, corporate, entrepreneurs, and can become sericulturists.

PSO1: Perform healthy practices of sericulture in the field.

PSO3: Motivate the farmers to take up sericulture as successful career.

7) Faculty Details

<table>
<tr><td>Name</td><td colspan="5">DR. VENKATA SANTHA KUMAR MANNE

M. Sc., Ph. D.</td><td colspan="2">  </td></tr>
<tr><td>Designation</td><td colspan="7">Professor & Head</td></tr>
<tr><td>Contact No.</td><td colspan="7">(91) 9130023099 (Mobile), 8788063988, 0231-2609247</td></tr>
<tr><td>Email ID</td><td colspan="7">mvs_zoo@unishivaji.ac.in; mvdrsanthakumar@gmail.com</td></tr>
<tr><td>Research Areas</td><td colspan="7">Entomology, Sericulture, Integrated Pest Management, Transfer of Technology, Extension Management</td></tr>
<tr><td rowspan="3">No. of Research Papers Published (National and International)</td><td colspan="2">Total</td><td colspan="5">Last 5 years</td></tr>
<tr><td>National</td><td>International</td><td colspan="2">National</td><td colspan="3">International</td></tr>
<tr><td>75</td><td>35</td><td colspan="2">14</td><td colspan="3">10</td></tr>
<tr><td rowspan="5">Research Projects</td><td colspan="2">Projects’ Title</td><td>Funding Agency</td><td colspan="2">Status Ongoing/Completed</td><td>Amount (Rs. Lakh)</td></tr>
<tr><td colspan="2">Biological control agents associated with vegetable crops for eco-friendly Pest Management</td><td>Shivaji University, Kolhapur</td><td colspan="2">Ongoing</td><td>2.20</td></tr>
<tr><td colspan="2">Establishment of Demonstration cum Training Centre in Sericulture,</td><td>DPDC, Govt., of Maharashtra</td><td colspan="2">Ongoing</td><td>94.00</td></tr>
<tr><td colspan="2">Establishment of mass production unit for Biological Control Agents of Agricultural pests</td><td>DPDC, Govt., of Maharashtra</td><td colspan="2">Ongoing</td><td>20.00</td></tr>
<tr><td colspan="2">Establishment of environment friendly management of housefly in public health</td><td>DPDC, Govt., of Maharashtra</td><td colspan="2">Ongoing</td><td>20.00</td></tr>
<tr><td rowspan="2">No. of Books/ Chapters Published</td><td colspan="3">National</td><td colspan="4"></td></tr>
<tr><td colspan="3">03</td><td colspan="4"></td></tr>
<tr><td rowspan="2">Research Impact</td><td>Citations</td><td>h-Index</td><td>i10-Index</td><td>RG Score</td><td colspan="2">Highest Impact Factor of the paper as per Thomson Reuters</td></tr>
<tr><td>329</td><td>4</td><td>1</td><td>2.78</td><td colspan="2">1</td></tr>
<tr><td rowspan="2">Total No. of Ph. D. Students</td><td colspan="3">Awarded</td><td colspan="4">Working</td></tr>
<tr><td colspan="3">02</td><td colspan="4">06</td></tr>
<tr><td>National/ International Fellowships</td><td colspan="7">1. CSIR – JRF during 1986 – 1989 at Department of Zoology, Shivaji University, Kolhapur</td></tr>
</table>

Top 10 Publications	1. **Santha Kumar, M.V.**, Bandyopadhyay, U.K., Lalitha, N. and Saratchandra, B. (2018). Biology and feeding efficacy of *Micraspis discolor*, a potential biological control agent of whitefly, *Dialeuropora decempuncta*. Journal of Entomology and Zoology Studies :6(1): 938-941. 2. **Santha Kumar, M.V.,** Dutta, P., Chakrabarty, N., Das, N.K. and A. D. Jadhav (2017). Critical factors influencing the incidence of a native predator of whitefly in mulberry. International Journal of Advance Research and Innovative Ideas in Education.3(6):1744-1748. 3. **Santha Kumar, M.V**. and Bandyopadhyay, U.K. (2017). Studies on biology of *Scymnus bourdilloni* Kapur (Coleoptera: Coccinellidae), the native predator of pink mealy bug, *Maconellicoccus hirsutus* (Green) (Hemiptera: Pseudococcidae). Bulletin of Indian Academy of Sericulture. 21(1&2):15-19. 4. **Santha Kumar, M.V.,** U. K. Bandyopadhyay, Das, N.K. and P. Mitra (2017). Development of weather-based forecasting models for major mulberry pests in Malda district of West Bengal. Bulletin of Indian Academy of Sericulture.21(1&2):25-32. 5. Lalitha, N., **Santha Kumar, M.V**. and Nirmal Kumar, S. (2018). Species diversity of predators on sucking pest complex in mulberry gardens of West Bengal. Journal of Entomology and Zoology Studies., 6(1):523-528. 6. Lalitha, N., HirakChatterje, **Santha Kumar, M.V.** and Nirmal Kumar, S. (2018). Predatory potential of new species of *Scymnus* Kuglann, *Scymnus latifolius* Poorani sp. nov (Coleoptera: Coccinellide) on papaya mealy bug, *Paracoccus marginatus* infesting mulberry. Journal of Entomology and Zoology Studies,6(4):1803-1807. 7. **Santha Kumar, M.V**., Datta, P. Chakrabarti, S., Das, N.K., Mukhopadhyay, S.K., Saha, A.K. and Bindroo, B. B. (2012). Biology and feeding efficacy of *Brumoides suturalis*, a native predator of whitefly, *Aleuroclava pentatuberculata*. Pp. 214 – 224. In the Proceedings of the UGC sponsored state level seminar on "Advancement of Biological Science Towards Sustainable Development", 29th& 30th March, 2012. 8. **Santha Kumar, M.V.,** Dutta, A.K., Sarkar, J., Das, D., Mukhopadhyay, S.K. and Bindroo, B.B. (2012). Cluster Promotion Programme: A trendsetter for success through participatory mode. Indian Silk, 3(7 & 8): 20-22. (2.5) 9. Lalitha, N., **Santha Kumar, M.V**.,Saha, A.K.and Nirmal Kumar, S. (2015). Avoidable leaf yield loss due to Pink mealy bug, *Maconellicoccus hirsutus* (Green) in mulberry Annals of plant protection 23(1):171-172. (International). 10. Lalitha, N., **Santha Kumar M.V.,**Saha, A.K. and Nirmal Kumar, S. (2015). Report of Papaya mealy bug, *Paracoccus marginatus* in mulberry in West Bengal. Current Biotica. 9 (1): 82-85.

<table>
<tr><td>Name</td><td colspan="4">DR. ASHISH AMBADAS DESHMUKH

M. Sc., Ph. D., SET, NET</td><td>  </td></tr>
<tr><td>Designation</td><td colspan="5">Professor</td></tr>
<tr><td>Contact No.</td><td colspan="5">9822230905</td></tr>
<tr><td>Email ID</td><td colspan="5">aad_zoo@unishivaji.ac.in</td></tr>
<tr><td>Research Areas</td><td colspan="5">Neurodegeneration in vitro and in vivo, Cellular Stress response, Cell senescence, Hormesis.</td></tr>
<tr><td rowspan="3">No. of Research Papers Published (National and International)</td><td colspan="2">Total = 41</td><td colspan="3">Last 5 years</td></tr>
<tr><td>National</td><td>International</td><td>National</td><td colspan="2">International</td></tr>
<tr><td>18</td><td>23</td><td></td><td colspan="2"></td></tr>
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<tr><td colspan="2">Effects of caloric restriction mimetic 2’deoxy glucose on molecular markers of cognitive function: Glycogen synthase kinase3β (GSK3β), cyclin dependent kinase5 (cdk5), reelin and phosphorylated Tau (pTau) in mouse primary cultured hippocampal neurons.</td><td>DST-CSRI</td><td>Completed</td><td>26.59</td></tr>
<tr><td colspan="2">Hormetic effects of dietary restriction on preservation of cytoarchitecture of mouse cortical and hippocampal neurons to youthful conditions during ageing.</td><td>UGC</td><td>Completed</td><td>12.38</td></tr>
<tr><td colspan="2">Effect of mild heat stress on localization and expression of Sirt1 and Hsp70 in the primary culture of mouse prefrontal cerebrocortical neurons</td><td>Shivaji University, Kolhapur</td><td>Ongoing</td><td>2.75</td></tr>
<tr><td rowspan="2">Research Impact</td><td>Citations</td><td>h-Index</td><td>i10-Index</td><td>RG Score</td><td>Highest Impact Factor of the paper as per Thomson Reuters</td></tr>
<tr><td>89</td><td>7</td><td>2</td><td>5.26</td><td>1.665</td></tr>
<tr><td rowspan="2">Total No. of Ph. D. Students</td><td colspan="2">Awarded</td><td colspan="3">Working</td></tr>
<tr><td colspan="2">04</td><td colspan="3">02</td></tr>
<tr><td rowspan="2">Total No. of M. Phil. Students</td><td colspan="5">Awarded</td></tr>
<tr><td colspan="5">01</td></tr>
<tr><td>Top 10 Publications</td><td colspan="5">1. Mane NR, Gajare KA and Deshmukh A A (2020). Hormetic effects of mild heat stress on the primary culture of mouse prefrontal cerebrocortical neurons The Journal of Basic and Applied Zoology (2020) 81:25 (Springer Nature)
2. Mane NR, Gajare KA and Deshmukh AA (2019). Beneficial effects of mild heat stress on the primary culture of mouse prefrontal cerebrocortical neurons. Res J Biotech. 14(9):69-76.
3. Mane NR, Gajare KA and Deshmukh AA (2018). Mild heat stress induces hormetic effects in protecting the primary culture of mouse prefrontal</td></tr>
</table>

	cerebrocortical neurons from neuropathological alterations. *IBRO reports*; 5: 110-115. **(Elsevier)** 4. Pathan KH, Gajare KA, **Deshmukh AA** (2016) Mouse cerebral cortex is more vulnerable to age related deposition of senile plaques than the hippocampus: a neuropathological study of amyloid plaques in the normal process of brain aging *Acta Biomedica Scientia;3(1):32-37*. 5. Pathan KH, Gajare KA and **Deshmukh AA** (2015). Ultrastructural study reveals that mouse hippocampal neurons are more protected than the cerebrocortical neurons from age related cytological alterations. Cell Science and Report *MOJ Cell Sci Rep* 2(5): 00039 DOI: 10.15406/mojcsr.2015.02.00039 **6.** Bele MS, Gajare KA and **Deshmukh AA** (2015). Caloric restriction mimetic 2-deoxyglucose maintains cytoarchitecture and reduces tau phosphorylation in primary culture of mouse hippocampal pyramidal neurons. *In Vitro Cell Dev Biol Anim*. 51(6): 546-55. **(Springer)** *7.* Pathan K.H., Yadav RB, Gajare KA and **Deshmukh AA** (2014). Effect of 40% dietary restriction on Periodic Acid Schiff (PAS) positive material and cytoplasmic lipid staining in the mouse hepatocytes Indian *Journal of Fundamental and Applied Life Sciences* 4(4) :465-469. 8. **Deshmukh AA** (2012) Rat hepatocytes maintained at a refrigerating temperature for one week exhibit a high Degree of viability. *CIBTech Journal of Biotechnology* 2(3): 64-68. 9. Theng AD, Gajare KA and **Deshmukh AA.** (2009). Protective effects of *in vitro* supplementation of ascorbic acid on plasma membrane, acrosomal membrane and mitochondrial activity index of human spermatozoa. *Current trends in biotechnology and pharmacy*. Vol 3(3) 291-296. 10. **Deshmukh AA,** Gajare K A and Pillai M M (2006). D-Galactose induced ageing in short duration: A quick model of accelerated ageing in mice. *J. Cell Tissue Res.*6 (2):753-756.

<table>
<tr><td>Name</td><td colspan="5">DR. SHIVANAND RAMAPPA YANKANCHI
M. Sc., B.Ed., Ph. D.</td><td>  </td></tr>
<tr><td>Designation</td><td colspan="6">Professor</td></tr>
<tr><td>Contact No.</td><td colspan="6">+91-9579692348</td></tr>
<tr><td>Email ID</td><td colspan="6">dryankanchi@gmail.com; sry_zoo@unishivaji.ac.in</td></tr>
<tr><td>Research Areas</td><td colspan="6">Biopesticides, Biological Insect Control, Pest Insect Biology</td></tr>
<tr><td rowspan="3">No. of Research Papers Published (National and International)</td><td colspan="2">Total</td><td colspan="3">Last 5 years</td></tr>
<tr><td>National</td><td>International</td><td>National</td><td colspan="2">International</td></tr>
<tr><td>26</td><td>14</td><td>08</td><td colspan="2">05</td></tr>
<tr><td rowspan="3">Research Projects</td><td colspan="2">Projects’ Title</td><td>Funding Agency</td><td>Status Ongoing/ Completed</td><td colspan="2">Amount (Rs. Lakh)</td></tr>
<tr><td colspan="2">“Bioefficacy of different Clerodendrum species from Western Ghats against Helicoverpa armigera and Spodoptera litura”</td><td>UGC</td><td>Completed</td><td colspan="2">8.9</td></tr>
<tr><td colspan="2">Synergistic efficacy of certain plant essential oils against stored grain insect pests</td><td>SUK</td><td>Ongoing</td><td colspan="2">1.8</td></tr>
<tr><td rowspan="2">Research Impact</td><td>Citations</td><td>h-Index</td><td>i10-Index</td><td>RG Score</td><td colspan="2">Highest Impact Factor of the paper as per Thomson Reuters</td></tr>
<tr><td>219</td><td>7</td><td>7</td><td>11.13</td><td colspan="2">0.97</td></tr>
<tr><td rowspan="2">Total No. of Ph. D. Students</td><td colspan="3">Awarded</td><td colspan="3">Working</td></tr>
<tr><td colspan="3">04</td><td colspan="3">03</td></tr>
<tr><td>Top 10 Publications</td><td colspan="6">1. Devarshi A. A. and Yankanchi, S. R. (2017) Ovicidal and toxic effects of certain plant extracts to the castor semilooper, Achaea janata L. Noctuidae: Lepidoptera), Indian Journal of Agricultural Research, 51(4): 345-349. DOI:10.18805/ijare.v51i04.8420
2. Yankanchi, S. R. and Kumbar, S. M. (2016) Bifid tail in Hemidactylus prashadi (Smith, 1935), Reptile Rap, 18: 34-35.
3. Jadhav, G. S., Devarshi A. A. and Yankanchi, S. R. (2016) Efficacy of certain Clerodendrum leaf crude extracts against cutworm, Spodoptera litura Fab and cotton bollwarm, Helicoverpa armigera Hub, Journal of Entomology and Zoology Studies, 4(4): 466-472.
4. Bajru, S. B., Yadav, O. V. and Yankanchi, S. R. (2016) Daily activity patterns and perch height utilization in pre-breeding season by forest calotes, Calotes</td></tr>
</table>

	rouxii (Sauria: Agamidae) in the sacred grove of the northern Western Ghats, *International Journal of Zoological Research*, 12: 18-24. DOI: 10.3923/ijzr.2016.18.24. 5. Yadav Omkar and **Yankanchi, S. R.** (2015) Occurence of *Ophiophagus hannah* Cantor, 1836 (Squamata, Elapidae) in Tillari, Maharashtra, India, *Herpetology Notes,* 8: 493-494. 6. **Yankanchi, S. R.**, Holihosur, S. N. and Kallapur, V. L. (2015) *In vitro* and *in vivo* inhibition of hemolymph juvenile hormone esterase activity by the ethanol extract of *Clerodendrum inerme* in fifth instar larva of castor semilooper, *Achaea janata* (L.). *Current Science*, 108(8), 1516-1520. 7. Yadav, O. V. and **Yankanchi, S. R.** (2014) *Raorchestes bombayensis* (Bombay Bush Frog) and *Microhyla ornata* (Ornate Narrow Mouthed Frog) interspecies amplexus, *Herpetological Review* 45(4), 683. 8. **Yankanchi, S. R.**, Yadav, O. V. and Jadhav, G. S. (2014) Synergistic and individual efficacy of certain plant extracts against dengue vector mosquito, *Aedes aegypti*. *Journal of Biopesticides* 7(1), 22-28. 9. **Yankanchi, S. R.** and Gadache, A. H. (2010) Grain protectant efficacy of certain plant extracts against rice weevil, *Sitophilus oryzae* L. (Coleoptera: Curculionidae). *Journal of Biopesticides*, 3(2): 511-513. 10. **Yankanchi, S. R.**, Koli, S. A. and Patil, P. A. (2009) Insecticidal activity of certain plant extracts against pulse beetle, *Callosobruchus chinensis* L. (Coleoptera: Bruchidae). *Entomon*, 34(4): 263-266.

<table>
<tr><td>Name</td><td colspan="5">DR. NITIN ANANDRAO KAMBLE

M. Sc., Ph.D., SET</td><td colspan="2">  </td></tr>
<tr><td>Designation</td><td colspan="7">Professor</td></tr>
<tr><td>Contact No.</td><td colspan="7">(91) 9850148586 (Mobile), (0231) 2609247 (office)</td></tr>
<tr><td>Email ID</td><td colspan="7">nak_zool@unishivaji.ac.in, drknitinkumar@yahoo.in</td></tr>
<tr><td>Research Areas</td><td colspan="7">Animal physiology, Toxicology and Aquatic biology</td></tr>
<tr><td rowspan="3">No. of Research Papers Published (National and International)</td><td colspan="2">Total = 102</td><td colspan="2">Last 5 years = 37</td><td colspan="2"></td></tr>
<tr><td>National</td><td>International</td><td colspan="2">National</td><td colspan="2">International</td></tr>
<tr><td>48</td><td>54</td><td colspan="2">12</td><td colspan="2">25</td></tr>
<tr><td rowspan="4">Research Projects</td><td colspan="2">Projects’ Title</td><td>Funding Agency</td><td colspan="2">Status Ongoing/Completed</td><td>Amount (Rs. Lakh)</td></tr>
<tr><td colspan="2">Risk assessment and management of Industrial pollution on molluscan fauna of Kolhapur, Sangli And Satara District</td><td>SERB</td><td colspan="2">Completed</td><td>15.68</td></tr>
<tr><td colspan="2">Comparative study of metal toxicity and molecular mechanism of immune defense with circulatory, excretory and neuro physiology in Mollusca</td><td>UGC</td><td colspan="2">Completed</td><td>6.17</td></tr>
<tr><td colspan="2">Bioassessment of Immunohistochemical Components from Gametocytes of Selected Mollusca</td><td>SUK</td><td colspan="2">Ongoing</td><td>2.75</td></tr>
<tr><td rowspan="2">No. of Books/ Chapters Published</td><td colspan="2">National =01</td><td colspan="5">International = 01</td></tr>
<tr><td colspan="2">Amylase activity in digestive organs of freshwater snail Bellamya bengalensis against toxicity of Copper sulphate and Acacia sinuate (Book Chapter)</td><td colspan="5">Metal toxicity on neurocytes and gill of bivalve L. Corrianus, LAP Lambert Academic Publishing, Germany. ISBN – 978-3-659-45089-1</td></tr>
<tr><td rowspan="2">Research Impact</td><td>Citations</td><td>h-Index</td><td>i10-Index</td><td>RG Score</td><td colspan="2">Highest Impact Factor of the paper as per Thomson Reuters</td></tr>
<tr><td>72</td><td>05</td><td>03</td><td>19.75</td><td colspan="2">1.05</td></tr>
</table>

Total No. of Ph. D. Students	Awarded	Working
	06	06
Top 10 Publications	1. S. R. LONDHE AND **N.A. KAMBLE** (2014) Acute effect of mercury and Zinc Chloride on Gastrin/CCK 8 Neuropeptide in relation with behavior of freshwater snail *Bellamya bengalensis*: a microscopic study, International Journal of Current Microbiology and Applied Sciences, 3(4): 1052-1065, 2. **N. A. KAMBLE** AND S. S. GAIKWAD (2012) "embryogenesis and early development of two molluscan species *Physa acuta* and *Lymnea stagnalis*, a comparative study" Asian journal of Microbiology, Biotechnology and Environmental sciences, 14(1): 01-06. 3. **N. A. KAMBLE** AND S.R. LONDHE (2012) Epileptic activity in neuronal cells, induced by hgcl2 and cdcl2 in terrestrial slug *Semperula maculata*: fine structure investigated by histology and histochemistry, Toxicological and Environmental Chemistry, 94(1): 109-120. 4. **N. A. KAMBLE** AND S.R. LONDHE (2012) Neurohistochemistry in mollusca: focus on extracellular matrix, Invertebrate neurosciences, 12:129-138. 5. **N.A. KAMBLE** AND S. R. LONDHE (2013) Mercuric chloride-induced Gastrin/ Cholecystokinin 8 immunoreactivity in the central nervous system of the terrestrial slug *Semperula maculata*: an immunohistochemical study, Invertebrate neurosciences, 13: 179-188. 6. **N. A. KAMBLE** AND S. R. LONDHE (2014) Mucin reactivity after acute exposure of mercury and zinc chloride in neurocytes of freshwater snail Bellamya bengalensis: a histochemical study, Journal of Environmental Chemistry, 1-11. 7. **N. A. KAMBLE** AND S. R. LONDHE (2015) Effect of mercuric chloride on terrestrial slug *Semperula maculate* and histopathology of reproductive organs: a comprehensive study, Toxicological and Environmental Chemistry, 97(5):1-16. ISSN:1029-0486. 8. S. S. SAKHARE AND **N. A. KAMBLE** (2016) Gametogenic decline of testicular Cells in *Barytelphus acunicularis* Against domestic discharge and industrial effluents. World Journal of Pharmacy and Pharmaceutical Sciences, 5 (10):1407-1432. ISSN- 2278-4357. 9. P. P. CHAVAN, **N. A. KAMBLE** AND S. S. GAIKWAD (2018) Checklist of freshwater mollusks from Panchaganga River, Kolhapur, (MS) India. Aarhat Multidisciplinary International Education Research Journal, 7(9):15-20. 10. SUTAR V. S. AND **N. A. KAMBLE** (2019) Phytoremideation of Ethylene Glycol induced Renal Calculi in the vertebrate Model *Rattus norvigicus*, GSC Biological and Pharmaceutical Sciences, 08(01): 001–011.	

<table>
<tr><td>Name</td><td colspan="5">DR. (SMT.) MADHURI VASANT WALVEKAR
M. Sc., Ph. D.</td><td>  </td></tr>
<tr><td>Designation</td><td colspan="6">Associate professor</td></tr>
<tr><td>Contact No.</td><td colspan="6">8856996831</td></tr>
<tr><td>Email ID</td><td colspan="6">mvw_zoo@unishivaji.ac.in</td></tr>
<tr><td>Research Areas</td><td colspan="6">Phytonanomedicines in diabetes and aging, Endocrine role of submandibular gland</td></tr>
<tr><td rowspan="3">No. of Research Papers Published (National and International)</td><td colspan="2">Total</td><td colspan="2">Last 5 years</td><td colspan="2"></td></tr>
<tr><td>National</td><td>International</td><td colspan="2">National</td><td colspan="2">International</td></tr>
<tr><td>28</td><td>24</td><td colspan="2">13</td><td colspan="2">16</td></tr>
<tr><td rowspan="4">Research Projects</td><td colspan="3">Projects’ Title</td><td>Funding Agency</td><td>Status Ongoing/Completed</td><td>Amount (Rs. Lakh)</td></tr>
<tr><td colspan="3">Myofibrillar compositional study of skeletal muscles in salivary adenectomised male and female offsprings of salivary adenectomised mother</td><td>UGC New Delhi</td><td>Completed</td><td>11.82</td></tr>
<tr><td colspan="3">Effect of Salivary secretions on the development of thymus gland of male offsprings of sialoadenectomised mother mice</td><td>DBT New Delhi</td><td>Completed</td><td>26.21</td></tr>
<tr><td colspan="3">Injectable sustained release of Curcumin nanoparticles in the expression of IRS1, IRS2 and TNF alpha in type 2 diabetic mice</td><td>Shivaji University Kolhapur</td><td>Ongoing</td><td>2.90</td></tr>
<tr><td rowspan="2">No. of Books/ Chapters Published</td><td colspan="2">National</td><td colspan="4">International</td></tr>
<tr><td colspan="2">02</td><td colspan="4"></td></tr>
<tr><td rowspan="2">Patents/ IPR</td><td colspan="6">Filed-01</td></tr>
<tr><td colspan="6">Nanoencapsulation of Trigonelline- A novel remedy to treat type 2 Diabetes mellitus in mice model</td></tr>
<tr><td rowspan="2">Research Impact</td><td>Citations</td><td>h-Index</td><td>i10-Index</td><td>RG Score</td><td colspan="2">Highest Impact Factor of the paper as per Thomson Reuters</td></tr>
<tr><td>100</td><td>6</td><td>3</td><td>11.77</td><td colspan="2">0.879</td></tr>
<tr><td></td><td colspan="2">Awarded</td><td colspan="4">Working</td></tr>
</table>

Total No. of Ph. D. Students	8	4
Total No. of M. Phil. Students	Awarded	
	01	
Visits Abroad (Last 5 years; Give Details)	Presented paper in the "International conference on Emerging trends and challenges in Sciences and technology" **Bangkok , Thiland** on 3rd to 8th Nov,2014	
Top 10 Publications	1. P. P. Sarvalkar **M.V. Walvekar** and L.P. Bhopale, (2011)Antioxidative effect of curcumin (*Curcuma longa*) on lipid peroxidation and lipofuscinogenesis in submandibular gland of D-galactose- induced aging male mice, Journal of Medicinal Plant Research, 5 (20), 5191-5193 **2. M.V. Walvekar,** N.H. Shaikh and P.P.Sarvalkar (2013) Effect of glycowithanolides on lipid peroxidation and lipofuscinogenesis in male reproductive organs of mice. Iranian journal of reproductive Medicine, 11(9), 711-716. **3.** M. Deshmukh**, M. V. Walvekar** and S.R. Desai, (2014) Modulatory effect of *Trigonella Foenum Graecum* (Fenugreek) seed extract on salivary gland lipofuscinogenesis in aging accelerated male mice. International Journal of Pharma and Bio Sciences, 5(2), 83-89. 4. Nilofar H. Shaikh, Vidhya M. Deshmukh, **Madhuri V. Walvekar, (**2015) Alteration in testicular morphology and sperm count due to glycowithanolides treatment during aging. Asian journal of pharmaceutics and clinical research, 8(3), 72-76. 5. **M. V. Walvekar** V. M. Deshmukh**,** and S. B. Pol, (2015) Structural and cytochemical study of salivary glands after fenugreek seed extract administration in oxidatively stressed mice, International journal of pharmacognosy and phytochemical research, 7(3), 395-400. **6. M. V. Walvekar**, S.R. Desai ,S. P. Khairmode and M. M. Pillai**, (**2016) Role of salivary glands secreted growth factors on differentiation of CD3and CD5 cells of thymus in mice, Asian Journal of microbiology, Biotechnology and Environmental sciences, 18(1), 245-252. **7. M. V. Walvekar** ,S.B.Pol and V. M. Deshmukh, (2016) Modulatory effect of fenugreek loaded PLGA nanoparticles on lipofuscinogenesis in pancreas of alloxan induced diabetic mice. International journal of pharmaceutical and clinical research 8(1), 22-25. 8. **Walvekar M V,** Potphode N D, Desai S S, Deshmukh V M (2016), Histological studies on islets of Langerhans of pancreas in diabetic mice after curcumin administration**.** International journal of pharmaceutical and clinical research 8(9):1314-1318. 9. S. S. Desai S. P. Khairmode, **M. V. Walvekar** (2018) Free radical scavenging activity of Lepidium sativum seed extract in HFD/STZ induced diabetic mice, International Journal of Pharma and Bio Sciences, 9(2)(B):127-132. 10. S.P. Khairmode, S. S. Desai and **M.V.Walvekar** (2020) Flow Cytometric Analysis of Peripheral T Cell Subsets in the Sialoadenectomized and Salivariadenectomized Male Mice (Mus musculus Linn.), Journal of Endocrinology and Reproduction, 22(2): 37-41.	

<table>
<tr><td>Name</td><td colspan="5">DR. MADHAV PRALHAD BHILAVE
M. Sc., Ph. D.</td><td colspan="2">  </td></tr>
<tr><td>Designation</td><td colspan="7">Associate Professor</td></tr>
<tr><td>Contact No.</td><td colspan="7">9822874909</td></tr>
<tr><td>Email ID</td><td colspan="7">mpb_zoo@unishivaji.ac.in</td></tr>
<tr><td>Research Areas</td><td colspan="7">Aquatic Toxicology, Fisheries Science.</td></tr>
<tr><td rowspan="2">No. of Research Papers Published (National and International)</td><td colspan="2">Total = 95</td><td colspan="2">Last 5 years = 39</td><td colspan="2"></td></tr>
<tr><td>National</td><td>International</td><td>National</td><td colspan="3">International</td></tr>
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<tr><td colspan="2">Effect of Chlorantraniliprole on fingerlings of freshwater fish Cirrhinus mrigala</td><td>SUK</td><td colspan="2">Ongoing</td><td>1.05</td></tr>
<tr><td colspan="2">Biodiversity of fishes of Satara Tahasil</td><td>UGC</td><td colspan="2">Completed</td><td>0.40</td></tr>
<tr><td colspan="2">Efficacy of formulated fish feed on growth and disease resistance.</td><td>UGC</td><td colspan="2">Completed</td><td>8.39</td></tr>
<tr><td colspan="2">Comparative study of metal toxicity and molecular mechanism of immune defense with circulatory, excretory and neurophysiology in Mollusca</td><td>UGC</td><td colspan="2">Completed</td><td>5.76</td></tr>
<tr><td rowspan="2">Research Impact</td><td>Citations</td><td>h-Index</td><td>i10-Index</td><td>RG Score</td><td colspan="2">Highest Impact Factor of the paper as per Thomson Reuters</td></tr>
<tr><td>173</td><td>6</td><td>5</td><td>13.82</td><td colspan="2">1.05</td></tr>
<tr><td rowspan="2">Total No. of Ph. D. Students</td><td colspan="3">Awarded</td><td colspan="3">Working</td></tr>
<tr><td colspan="3">05</td><td colspan="3">04</td></tr>
<tr><td>Top 10 Publications</td><td colspan="7">1. Bhosale S V, Bhilave M. P. and S B Nadaf (2010) Formulation of Fish Feed using Ingredients from Plant Sources. Research Journal of Agricultural Science 1(3) 284-287 ISSN: 0976-1675
2. Muley. D.V., Kamble G.B. and M. P. Bhilave (2000) Effect of heavy metals on Nucleic acids in Cyprinus carpio, Journal of Environmental Biology 21 (4) 367-70 ISSN: 0254-8704 (IF 0.64)
3. Bhosale S.V., Bhilave, M.P, and S. B Nadaf. (2012) Protein Efficiency Ratio (PER) of Ctenopharengedon idella fed on soyabean formulated feed Biological forum 4 (1) 44-47 ISSN:0975-1130
4. M. P. Bhilave, V.B Nalawade and J.J. Kulkarni, (2014) Amylase activity of fingerlings of freshwater fish Labeo rohita fed on formulated feed. International Journal of Fisheries and Aquatic Studies, 2(1): 53-56 ISSN: 2347-5129</td></tr>
</table>

	5. **Bhilave, M. P.**, Nadaf. S. B, Bhosale S.V and V.B Nalawade (2013) Nutritional Analysis of Plant Formulated Feeds. Research Journal of Agricultural Sciences 4(4): 480-483 ISSN: 0976-1675 6. Nalawade, V.B. and **M. P. Bhilave** (2011) Protein Efficiency Ratio (PER) and Gross Food Conversion Efficiency (GFCE) of freshwater fish *Labeo rohita* fed on formulated feed The Bioscan 6(2): 301-303 ISSN:0973-7049 7. **Bhilave, M. P.,** Nadaf.S.B and S.V. Bhosale (2010) Gross Conversion Efficiency (GCE) of *Labeo rohita* fed on formulated feed The Bioscan 5(3) 483-485 ISSN:0973-7049 8. Kulkarni JJ and **M. P. Bhilave** (2015) Response of Organophosphate Pesticide Acephatase Induced Stress in Biochemical and Haematological Indices of *Labeo rohita* International Journal of Innovative Science, Engineering and Technology, Vol 2 Issue 2, 222-226 ISSN 2348-7968 9. Deshpande V.Y, **M. P. Bhilave**, D.V. Muley and G.B. Kamble (1999) Pesticides induced alternations in alkaline and acid phosphatases in liver and intestine of *Labeo rohita* Journal of Aquatic Biology 14 (1 & 2) 71-74 ISSN:0971-4235 10. **M. P. Bhilave** (2018) Study of shelf life of formulated fish feed. International Journal of Fisheries and Aquatic Studies Volume VI Issue I: 174-176 ISSN: 2347-5129

<table>
<tr><td>Name</td><td colspan="4">DR. SUNIL MADUKAR GAIKWAD
M. Sc., Ph. D.</td><td>  </td></tr>
<tr><td>Designation</td><td colspan="5">Associate Professor</td></tr>
<tr><td>Contact No.</td><td colspan="5">9604260460</td></tr>
<tr><td>Email ID</td><td colspan="5">smg_zoo@unishivaji.ac.in</td></tr>
<tr><td>Research Areas</td><td colspan="5">Biodiversity, Insect Taxonomy and Physiology.</td></tr>
<tr><td rowspan="3">No. of Research Papers Published (National and International)</td><td colspan="2">Total</td><td colspan="3">Last 5 years</td></tr>
<tr><td>National</td><td>International</td><td colspan="2">National</td><td>International</td></tr>
<tr><td>27</td><td>52</td><td colspan="2">09</td><td>13</td></tr>
<tr><td rowspan="4">Research Projects</td><td colspan="2">Projects’ Title</td><td>Funding Agency</td><td>Status Ongoing/Completed</td><td>Amount (Rs. Lakh)</td></tr>
<tr><td colspan="2">Diversity of Coleopteran fauna of Kolhapur district.</td><td>CSIR, New Delhi</td><td>Completed</td><td>18.73</td></tr>
<tr><td colspan="2">Faunal diversity of Orthopteroid Insects from Kolhapur and Sangali Districts.</td><td>UGC, New Delhi</td><td>Completed</td><td>9.198</td></tr>
<tr><td colspan="2">‘Studies on Diversity of Vertebrates in the Shivaji University Campus, Kolhapur, Maharashtra, India.’</td><td>Shivaji University, Kolhapur.</td><td>Ongoing</td><td>2.25</td></tr>
<tr><td rowspan="2">No. of Books/ Chapters Published</td><td colspan="2">National</td><td colspan="3">International</td></tr>
<tr><td colspan="2">Books-1; Chapters- 5</td><td colspan="3"></td></tr>
<tr><td rowspan="2">Research Impact</td><td>Citations</td><td>h-Index</td><td>i10-Index</td><td>RG Score</td><td>Highest Impact Factor of the paper as per Thomson Reuters</td></tr>
<tr><td>114</td><td>5</td><td>3</td><td>12.44</td><td>1.32</td></tr>
<tr><td rowspan="2">Total No. of Ph. D. Students</td><td colspan="2">Awarded</td><td colspan="3">Working</td></tr>
<tr><td colspan="2">05</td><td colspan="3">04</td></tr>
<tr><td>Visits Abroad (Last 5 years)</td><td colspan="5">❖ France: Best Paper Award: In 20th International Conference on Entomology at Paris, Oct. 29-30, 2018.</td></tr>
<tr><td>Top 10 Publications</td><td colspan="5">1. G. A. Raut and S. M. Gaikwad (2018): New distribution record of Praying Mantis Gonypetyllis semuncialis Wood-Mason, 1891 from Western Ghats, India. Journal of Bombay Natural History Society. 115. 10.17087/jbnhs/2017/v114/103964.</td></tr>
</table>

	2. G.A. Raut and **S**. **M. Gaikwad** (2017). A new record of *Tenodera fasciata* (Oliver, 1792) (Insecta: Mantodea: Mantidae: Mantinae) for western India. *Journal of Threatened Taxa* 9 (6): 10351–10354; https://doi.org/10.11609/jott.2908.9.6.10351-10354 3. S.H. Waghmare and **S. M. Gaikwad** (2017). First Record of the Predatory Stink bug *Eucanthecona concina* (Walker, 1867) (Pentatomidae: Asopinae) from India. *Journal of Threatened Taxa.* 9(2): 9870-9873. https://doi.org/10.11609/jott.3051.9.2.9870-9873 4. **S. M. Gaikwad,** Y.J. Koli, G.A. Raut, S.H. Waghmare and G.P. Bhawane (2016). Long-horned grasshoppers (Orthoptera: Tettigoniidae) in Radhanagari Wildlife Sanctuary, Maharashtra, India. *Journal of Threatened Taxa* 8 (2): 8533–8537. https://doi.org/10.11609/jott.2574.8.2.8533-8537 5. **S. M. Gaikwad,** Y.J. Koli and G.P. Bhawane (2015). A first record of *Hemithyrsocera palliata* Fabricius, 1798 (Blattodea: Blattellidae: Blattellinae): An addition to the fauna of Maharashtra, India. *Journal of Threatened Taxa* 7 (8): 7487-7489. http://dx.doi.org/10.11609/JoTT.o4282.7487-9 6. Manoj Jadhav, P. Girish Kumar and **S. M. Gaikwad** (2014). A new record of *Scolia (Discolia) fasciatopunctata dunensis* Betrem (Insecta: Hymenoptera: Scoliidae) from the Western Ghats of Maharashtra, India. *Journal of Threatened Taxa*. 6(14): 6715-6718. https://doi.org/10.11609/JoTT.o3704.6715-8 7. **S. M. Gaikwad,** Y.J. Koli and G.P. Bhawane (2014). Blattodea of Kolhapur District with First Record of *Supella (Supella) longipalpa* (Blattodea: Blattellidae) for the State of Maharashtra, India. *Florida Entomologist.* 97(1): 80-84. IF. 1.052. https://doi.org/10.1653/024.097.0110 8. **S. M. Gaikwad,** Y.J. Koli, G.P. Bhawane (2014). Histomorphology of the Female Reproductive System in *Papilio polytes polytes* Linnaeus, 1758 (Lepidoptera: Papilionidae). *Proceedings of the National Academy of Science, India Section B: Biological Sciences.*84 (4): 901-908.IF. 0.396. https://doi.org/10.1007/s40011-014-0322-y 9. **S. M. Gaikwad** and Y.J. Koli (2013). First record of C*lonacris kirbyi* Finot 1903 (Insecta: Orthoptera: Acrididae) in Maharashtra State, India. *Florida Entomologist.* 96(3):1193-1195.IF. 1.052. https://doi.org/10.1653/024.096.0365 10. Y.B. Gaikwad, **S. M. Gaikwad** and G.P. Bhawane (2010) Effect of induced oxidative stress and herbal extracts on acid phosphatase activity in lysosomal and microsomal fractions of midgut tissue of the silkworm, *Bombyx mori*. *Journal of insect science*, 10 (1): Article. 113. IF. 1.357 https://doi.org/10.1673/031.010.11301

Name	**DR. ADHIKRAO DHANAJI JADHAV** **M. Sc., Ph. D., PGDS, PGDAEM**	
Designation	Assistant Professor	
Contact No.	(91) 9822701925 (Mobile), (0231) 2609250 (office)	
Email ID	adj_zoo@unishivaji.ac.in, dradjadhav@yahoo.co.in	
Research Areas	Animal Physiology, Sericulture, Entomology	

No. of Research Papers Published (National and International)	Total = 71		Last 5 years = 24	
	National	International	National	International
	51	20	15	09

Research Projects	Projects' Title	Funding Agency	Status Ongoing/ Completed	Amount (Rs. Lakh)
	Studies on field performance of some silkworm breeds (FC1 &FC2) of Bombyx mori L. with reference to Western Maharashtra conditions	Shivaji University, Kolhapur	Ongoing	2.70
	Impact of wild sericulture on socioeconomic development of tribal and economically weaker sections and women empowerment from western Maharashtra	CSIR New Delhi	Completed	19.46
	Biodiversity of Pisces and Amphibians from Satara districts including Ghats	CSIR New Delhi	Completed	10.81
	Amorphous form stabilization of Solid state pharmaceuticals using sericin	CSIR New Delhi	Completed	17.47
	Establishment of Demonstration cum Training Centre in Sericulture,	DPDC, Govt., of Maharashtra	Ongoing	94.00
	Establishment of mass production unit for Biological Control Agents of Agricultural pests	DPDC, Govt., of Maharashtra	Ongoing	20.00
	Establishment of environment friendly management of housefly in public health	DPDC, Govt., of Maharashtra	Ongoing	20.00

No. of Books/ Chapters Published	National	International
	Books = 05 Book Chapter = 02	

Research Impact	Citations	h-Index	i10-Index	RG Score	Highest Impact Factor of the paper as per Thomson Reuters
	115	5	3	20.96	5.162

	Awarded	Working
Total No. of Ph. D. Students	02	03 = 01 (Hard bond Thesis submitted Viva awaited); 02 (Spiral thesis submitted)
Visits Abroad	Cuba (2015, 2016 and 2018): National Institute of Agriculture Science, Cuba Thailand (2016): Queen Sinikit Department of Sericulture, Govt. of Thailand. Nepal (2018): Department of Agriculture, Govt. of Nepal. Japan (2019): National Agriculture and food Research Organisation, Ministry of Agriculture, forestry and fisheries, Tsukuba, Japan.	
National/ International Fellowships (Give Details)	Advisor: National Sericulture Project, Govt., of Cuba. International Expert: Black Caspian Seas Central Asia Silk Association, Bulgaria Member: Maharashtra State Biodiversity Board, Ministry of Revenue & Forests, Govt., of Maharashtra Member (Expert): Maharashtra State Sericulture Advisory & Development Committee, Ministry of Cooperation, Textile& Marketing, Govt., of Maharashtra. Member: Animal Expert Committee, MSBB, Ministry of Forests, Maharashtra.	
Top 10 Publications	1. RP Bagade, **A. D. Jadhav**, RV Chavan (2020) Toxicity and repellency of four plant essential oils against *Tribolium castaneum* (Herbst) (Coleoptera: Tenebrionidae), International Journal of Tropical Insect Science, 1-8. 2. Gophane A., T. V. Sathe and **A. D. Jadhav** (2017). Diversity and Distribution of wild Silkmoths (Lepidoptera: Saturniidae) in State of Maharashtra, India. Bull. Indian Acad. Seri., 21 (1&2): 1-6. ISSN 0972-1657 3. Anna Gophane, **A. D. Jadhav**, M. V. Santhakumar and T. V. Sathe (2019). Influence of climatic regions on species richness, distribution and abundance of wild Silk moths in Maharashtra, India, International Journal of Life Sciences Research 7(2): 495-502. ISSN 2348-3148. 4. N H Salunkhe, NR Jadhav, H N More, **A. D. Jadhav** (2018) Screening of drug-sericin solid dispersions for improved solubility and dissolution, International journal of biological macromolecules 107(B):1683-1691. (Springer). 5. Belgumpe, S. J. and **A. D. Jadhav** (2017) Mass production and utilization of Nesolynx thymus Girault for biological control of uzi fly Exorista bombycis in Sericulture farming system of Maharashtra, Bull. Indian Acad. Seri., 21 (1&2): 33-36. ISSN 0972-1657. 6. R. A. Sandi and **A. D. Jadhav** (2016). Occupational health and physiological profile of sericulture industry workers with respect to workplace environment, International Journal of Pharma and Bio Sciences, 7 (4):137 – 143. 7. T A Jadhav, A C Attar, S Verma, **A. D. Jadhav** (2019). Intervention of civil engineers in construction of geothermal ventilation system in silkworm rearing house, International Journal of Advance Research, Ideas and Innovations in Technology, 5(3):1344- 1347. 8. Sujit Nade, J. B. Narendra Kumar, S. J. Belgumpe, **A. D. Jadhav** and V. Sivaprasad (2017). Freeze killed house fly pupa for multiplication of *Nesolynx thymus* Girault (Hymenoptera: Eulophidae), an ecto-pupal parasitoid of the silkworm uzi fly, *Exorista bombycis* (Louis), *Indian J. Seric*., 56(1-2): 30-34. 9. **Jadhav A. D.** and T. V. Sathe (2016). Host preference by Uzifly *Exorista bombycis* L. in pure line bivoltine breeds FC1 and FC2 (*Bombyx mori* L.) and Economical loss in seed cocoon production, *Biolife* 4 (1): 88-93. 10. T A Jadhav, **A. D. Jadhav** A C Attar, S Verma (2020) Evaluation of silkworm Rearing Houses from Western Maharashtra, *Ind. J. of Traditional Knowledge, NISCAR,CSIR,*Vol.19(4),pp.861-867.	

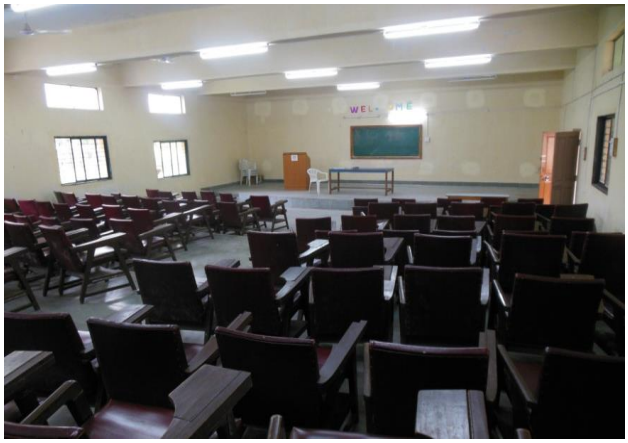
<table>
<tr><td>Name</td><td colspan="5">DR. ANNA DNYANADEO GOPHANE

M. Sc, Ph. D., PGD Bioinfo.,
SET, NET, GATE</td><td>  </td></tr>
<tr><td>Designation</td><td colspan="6">Assistant Professor</td></tr>
<tr><td>Contact No.</td><td colspan="6">9881427873</td></tr>
<tr><td>Email ID</td><td colspan="6">anna.gophane@gmail.com</td></tr>
<tr><td>Research Areas</td><td colspan="6">Cell Biology, Ecology, molecular phylogeny, Toxicology</td></tr>
<tr><td rowspan="3">No. of Research Papers Published (National and International)</td><td colspan="2">Total = 15</td><td colspan="4">Last 5 years = 14</td></tr>
<tr><td>National</td><td>International</td><td colspan="2">National</td><td colspan="2">International</td></tr>
<tr><td>03</td><td>12</td><td colspan="2">02</td><td colspan="2">12</td></tr>
<tr><td rowspan="2">Research Impact</td><td>Citations</td><td>h-Index</td><td>i10-Index</td><td>RG Score</td><td colspan="2">Highest Impact Factor of the paper as per Thomson Reuters</td></tr>
<tr><td>183</td><td>06</td><td>04</td><td>19.86</td><td colspan="2">6.395</td></tr>
<tr><td>National/ International Fellowships</td><td colspan="6">1. INSPIRE Fellow, DST, Govt. of India (2011)
2. The Earthwatch Fellow, UK (2010)</td></tr>
<tr><td>Top 10 Publications</td><td colspan="6">1. Gophane, A., Sathe T. V., Khairmode, P., Londhe, S. D. and S. Kurane, (2015). Triungulin occurrence and its load carrying capacity by Xylocopa letipes Drury (Hymenoptera: Xylocopidae). Biolife, 3(3), 688–693. ISSN 2320-4257.
2. Sathe, T. V., Gophane, A., and Shendage, N. (2015). Colour attractivity and occurrence of some cell sap sucking pests on crop plants. Biolife, 3(2), 540–546. ISSN 2320-4257.
3. Kadam, A., Dhabbe, R., Gophane, A., Sathe, T., and Garadkar, K. (2016). Template free synthesis of ZnO/Ag2O nanocomposites as a highly efficient visible active photocatalyst for detoxification of methyl orange. J. Photochem. Photobiol. B, Biol., 154:24–33. ISSN 1011-1344. (IF. 4.067)
4. Gavade N. L., Babar S. B., Kadam A. N., Gophane A. D., and K. M. Garadkar (2017). Fabrication of M@CuxO/ZnO (M= Ag, Au) Heterostructured Nanocomposite with Enhanced Photocatalytic Performance under Sunlight. Ind. Eng. Chem. Res. 56 (49): 14489–14501. ISSN 1520-5045. (IF. 3.375)
5. Gophane A., T. V. Sathe and A. D. Jadhav (2017). Diversity and Distribution of wild Silkmoths (Lepidoptera: Saturniidae) in State of Maharashtra, India. Bull. Indian Acad. Seri., 21 (1&2): 1-6. ISSN 0972-1657
6. Babar S.; Gavade N.; Bhopate D.; Kadam A.; Kokane S.; Sartale S.; Gophane A.; Garadkar K. M. and V. Bhuse (2018). An efficient fabrication of ZnO-Carbon Nanocomposites with enhanced photocatalytic activity and superior photostability. J. Mater. Sci. Mater. Electron. 30:1133-1147. ISSN 0957-4522. (IF. 2.195)</td></tr>
</table>

	7. Govind Vyavahare, Pooja Jadhav, Jyoti Jadhav, Ravishankar Patil, Chetan Aware, Devashree Patil, **Anna Gophane**, Yung-Hun Yang and Ranjit Gurav (2019). Strategies for crystal violet dye sorption on biochar derived from mango leaves and evaluation of residual dye toxicity, Journal of Cleaner Production, 207: 296-305. ISSN 0959-6526. **(IF. 6.395)** 8. **Anna Gophane**, A. D. Jadhav, M. V. Santhakumar and T. V. Sathe (2019). Influence of climatic regions on species richness, distribution and abundance of wild Silk moths in Maharashtra, India, International Journal of Life Sciences Research 7(2): 495-502. ISSN 2348-3148. 9. Khairmode P. V., **Gophane A. D.,** Shewale V. S., Santha Kumar M. V. and Sathe T. V. (2019). Diversity of Curculionidae from Kolhapur District.Indian Journal of Entomology, 81(3):589-596. ISSN 0367-8288. 10. Naikwade, Altafhusen; Jagadale, Megha; Kale, Dolly; **Gophane, Anna**; Garadkar, Kalyanrao; Rashinkar, Gajanan (2019). Photocatalytic degradation of methyl orange by magnetically retrievable Supported ionic liquid phase photocatalyst. ACS Omega, 5(1): 131-144. ISSN 2470-1343. **(IF. 2.584)**

8) Details of Research Laboratories & infrastructure with photographs:

Sr. No.	Type	Number
1	Classrooms	04
2	PG Practical Laboratories	05
3	Research Laboratories	09
4	Preparation Room	02
5	Instrumentation Room	02
6	Silkworm rearing house	02
7	Museum	01
8	Departmental Library	01
9	Computer Room	01
10	Auditorium	01
11	Staff cabins	10
12	Ladies Room	01
13	NAAC Room	01
14	Office	01
15	Store Rooms	04
16	Animal House Facility	01
17	Butterfly Park	01



Auditorium

Class Room

Instrumentation Room

Computer Room

Museum

Animal Cell Culture laboratory

Physiology laboratory

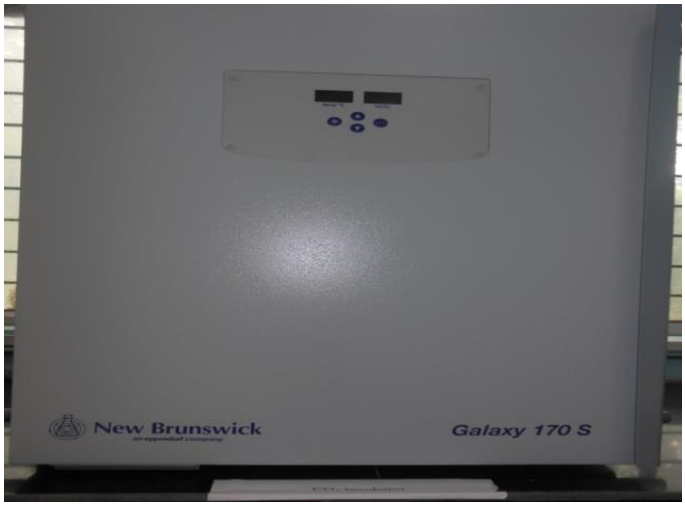
Cell Biology laboratory

Departmental Animal House Facility

Mulberry Silkworm Rearing House Funded by DBT, New Delhi

Spectrofluorometer

2 D Gel Electrophoresis System



CO_2 Incubator

UV - Spectrophotometer

Inverted Phase Contrast Microscope

Gel Doc Unit

ECG- Machine

PCR- Thermocycler

Laminar Air Flow

Cooling Centrifuge

9) SET/NET Qualified Students:

SET Qualified Students (2014-2019)

Sr. No	Seat No	Name of Candidate	Qualifying Year
1.	330727	Atigre Rajaram Hindurao	2013
2.	330836	Gaikwad Yogesh Baban	2013
3.	371613	Shaikh Ayaj Ladlesaheb	2013
4.	532451	Ambi Ashutosh Appasaheb	2015
5.	570976	Patkar Namdev Babruvan	2015
6.	633174	Gaikwad Jayanti Sanjay	2016
7.	724171	Shinde Rekha Jalindar	2017
8.	735560	Behere Rhuta Purushottam	2017
9.	736314	Yadav Omkar Vishnupant	2017
10.	121184	Mulla Rubina Rafik	2018
11.	121368	Pharande Amruta Daulat	2018
12.	131745	Koli Kashinath Bhanudas	2018
13.	132107	Sutar Shital Shamrao	2018
14.	131714	Kamble Umesh Ramji	2018
15.	741395	Namrata Ajit Jadhav	2019
16.	741260	Chaugule Tanaji	2019
17.	741258	Sana Chaugule	2019
18.	741281	Jitesh Daunde	2019
19.	741659	Pratikshya Pardeshi	2019
20.	741283	Abhijit Desai	2019
21.	741664	Patel Najnin Aslam	2019
22.	741942	Shivsharan Dhiraj Yadav	2019
23.	727156	Pradip Gaikwad	2019

NET Qualified Students (2014-2019)

Sr. No.	Seat No	Name of Student	Exam Qualified	Year
1.	356732	Patkar NamdevBabruwan	NET-LS	2015
2.	355962	Jadhav Namrata Ajit	NET-JRF	2016
3.	355734	Chaphekar Kajal	NET-LS	2016
4.		Behere Rhuta Purushottam	NET-JRF	2016
5.	350122	Bhilugade Arati Kakaso	NET-LS	2017
6.	371059	Sutar Vishal Saudagar	NET-LS	2017
7.	350030	Shinde Rekha Jalindar	NET-JRF	2017
8.	352711	Kamble Vinit Vijay	NET-JRF	2017
9.	367533	Matwal Sirinbanu Rijwan	NET-JRF	2017
10.	366216	Sutar Shital Shamrao	NET-LS	2018
11.	358816	Shelake Sachin Kenchappa	NET-LS	2018
12.	358122	Mali Sumit Ravi	NET-LS	2018
13.	359373	Pharande Amruta Daulat	NET-LS	2018
14.	366008	Babar Rahul Ashok	NET-JRF	2018
15.	359272	Shivsharan Yadav Dhiraj	NET-JRF	2018

16.	355700	Sathe Jyoti Shivaji	NET-JRF	2018
17.	355040	Dhandale Archana	NET-LS	2018
18.	353957	Mulla Rubina Rafik	NET-JRF	2018
19.	355297	NadafSabehaKausar	NET-JRF	2018
20.	354003	SuhasAmrutsagar	NET-LS	2018
21.	357198	Yogesh Gaikwad	NET-LS	2018
22.	359969	Bhosale Amrut	NET-LS	2019
23.	29303	Chaugule Sana Inayatullah	ICMR-NET	2019

10) Details of Students Placements:

PLACEMENT RECORD (2014-2019)

Average percentage of placement of outgoing student during the five years

Year	No. of Student placed	No. of Employers	Average Package received (Rs./pm)	Program Graduated
2014-15	15	14	11243	M. Sc., Ph. D.
2015-16	26	19	12750	M. Sc., Ph. D.
2016-17	16	12	21588	M. Sc., Ph. D.
2017-18	11	09	15455	M. Sc., Ph. D.
2018-19	19	15	17247	M. Sc., Ph. D.
2019-20	10	04	70,000	M. Sc., Ph. D.

11) Details of MoUs and Linkages.

Memorandum of Understanding at National and International Level:

Organization	Date of MoU signed	Purpose and Activity	Number of students/ teachers participated
CSIR-National Institute of Oceanography	08-08-2017	**Purpose:** To enhance activities and Awareness about marine ecosystem study **Activity:** Guest lectures of NIO scientists were arranged.	
		1. Dr. Samir Damare, Senior Scientist, NIO, Goa **Topic –** Deep Sea: Extreme Environment? Date: 21/09/2019	99 students 9 teachers **Total = 108** participants
		2. Dr. Baban Ingole, Chief Scientist, NIO, Goa **Topic-** India's Deep-Sea mission- What are the opportunities for Zoologist's Date 23/09/2019	88 students 9 teachers **Total = 98** participants
National Research Institute of Agricultural Sciences, Mayabeque, Cuba	2013	**Purpose:** To exchange knowledge and expertise in Sericulture. Faculty exchange. Technology transfer in sericulture. **Activities:** Consultancy and training to Sericulture staff of Cuban Government in silkworm seed production, silkworm rearing, mulberry production and crop protection.	
		1. Dr. A. D. Jadhav participated as sericulture expert in Training program of Cuban Sericulture Staff, November, 2015. 2. Dr. A. D. Jadhav provided advisory on Sericulture Project, 21st November to 1st December 2016. 3. Dr. A. D. Jadhav delivered lecture on "Diseases of Mulberry and Silkworm" to staff in The National Centre for Animal and Plant health, Cuba, November 29th, 2016. 4. Dr. A. D. Jadhav consulted to update Cuban sericulture Project during 19th November to 1st December 2018.	**01** teacher

12) Extracurricular and Extension activities.

- Department is involved in various **Extracurricular activities** such as celebration of various days of national importance, Betibachao – Betipadhaoabhiyan, National Science Day, Plantation, village development and Campus cleanliness activities under National Service Scheme, Sports day, creation of awareness about various health and environmental issues.
- Several **Transfer of Technology Programmes** have been taken up by the researchers of this Department in Apiculture, Aquaculture, Biodiversity and Sericulture through Trainers' Training Programmes, Workshops, Vichargoshtis, Awareness Programmes, Crisis Management programs, Exhibitions and KrishiMela etc.. The main beneficiaries of this Program are Agricultural Officers, Sericulture Officers, farmers, faculty members and students.
- We arrange regular interaction sessions with external faculty, scientists, Government Officers and technocrats from Industry to interact with our students through **Guest Lectures**.
- In collaboration with National Academy of Sciences India, Bangalore Chapter, we have organized **Lecture series in Biology** at this Department during 2017. During this Lecture series, several Fellows of National Academy of Sciences India, Bangalore shared their vast experience in the Modern biology.
- As Western Ghats are the Hot spot for faunal biodiversity, every year we conduct **workshops on Awareness on Biodiversity and its conservation**. These workshops are sponsored by Maharashtra State Biodiversity Board, Ministry of Forests, Govt. of Maharashtra, Nagpur. During these programs eminent personalities from Forest Department and wild life experts deliver lectures on the importance of Biodiversity and its conservation. During the deliberations, they narrate the students about the threatened species and their conservation techniques. Faculty members take active part in conducting such programs in affiliated colleges with active funding from Maharashtra State Biodiversity Board.
- Every year, we conduct **workshops on Apiculture**. With the financial assistance from Central Bee Research & Training Institute, Govt. of India, Pune, these events are conducted both in the University campus and at affiliated colleges. During these workshops both theoretical & practical aspects of Bee keeping, Honey extraction, wax preparation and Entrepreneurship opportunities and various incentive schemes from Government are well explained to stakeholders.
- With a view to increase the **Entrepreneurship activities** among our students and farmers, we are conducting two courses, viz., **Post Graduate Diploma in Sericulture** (PGDS) and **Diploma in Sericulture** (DS). Through these structured courses we are promoting the Entrepreneurship activities.
- To provide a platform for budding entrepreneurs **"Centre of Excellence and Incubation in Sericulture" is established. Several enthusiasts** are registering as Incubates under this Centre. The University is providing all kinds of technical and infrastructural help to these incubates. Several alumni have already achieved great success in the fields of Commercial rearing of Silkworms, Production of Silkworm Seed Cocoons, Kisan Nurseries, Chawki Rearing Centers (Young silkworm rearing).

- This Department is having **International collaboration with Ministry of Agriculture**, **Havana, Cuba.** Our faculty visits and trains several Agriculture Officers, Extension Officers and farmers in various aspects Sericulture.
- Our Faculty are holding **advisory positions** with Maharashtra State Biodiversity Board (Directorate of Forests, Govt. of Maharashtra), Nagpur and provides guidelines for conservation of Biodiverstiy, preparation of village level Biodiversity Registers etc.
- Further, our faculty are in the **advisory panel** of Directorate of Sericulture, Govt. of Maharashtra, Nagpur and plays a key role in formulation of developmental strategies for Sericulturists to increase the productivity per unit area.
- Our faculty are invited as **resource persons** by Directorate of Sericulture and Directorate of Agriculture, Govt. of Maharashtra for various skill enhancement training programmes of Sericulture Development Officers and Agriculture officers.
- Several **Technology dissemination programmes** for farmers (workshops, awareness programs, Krishi Melas etc.) conducted by Directorate of Sericulture and Directorate of Agriculture, Govt. of Maharashtra requisites the services of our faculty as resource persons.
- In our Department, Faculty members impart corporate training to Sericulture farmers on **"Integrated Sericulture Farming".** Under this programme **55 farmers from Osmanabad district** were trained during October, 2018. This program was sponsored by Agriculture Technology Management Agency (ATMA) and District Sericulture Officer, Directorate of Sericulture, Govt. of Maharashtra, Osmanabad. The second batch of "Integrated Sericulture Farming" is conducted for **25 farmers from Radhanagari village of Kolhapur District** during 11.02.2020 to 20.02.2020 in collaboration with D.Y.Patil Education Society. This program was sponsored by Agriculture Skill Council of India, Indian Council of Agriculture Research, Govt. of India, Guragaon, Haryana.
- As per the request of Collector & District Magistrate, Kolhapur (to comply with directions given by National Green Tribunal, New Delhi), our faculty members served as experts in framing the guidelines for preparation of illustrated field manual for identifying various fauna, to prepare Village level Biodiversity Registers (BDRs).

CELEBRATION OF VARIOUS DAYS:

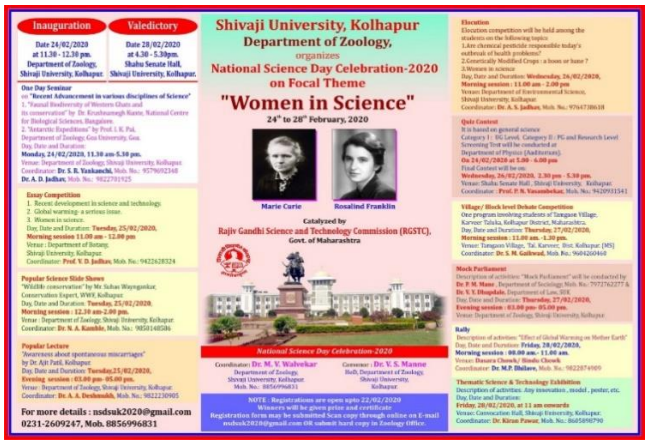
Plantation

Students during Campus Cleaning

Sports Day

AIDS awareness program

Celebration of National Science Day-2020



Popular lecture by Dr. Krishnamegh Kunte

National Science day Exhibition.

Science day Debate competition at Tamgaon.

Dr. Ashok P. Giri delivered lecture

Dr. N. Shylesha felicitation during lecture.

Celebration of Luis Pasteur Day

Celebration of World Heart Day

LECTURES FOR STUDENTS:

1. **Foundation Lectures in Biology**

Foundation Lectures in Biology


Lecture delivered by Prof. Raghunath

2. **Prof. A. T. Varute Memorial lectures**

Prof. I. K. Pai delivering lecture


Dr. Sachin Kulkarni delivering lecture

3. **Guest Lectures:**

Lecture by Dr. Vishal Shinde


Lecture by Dr. Manoj Borkar

WORKSHOPS:

National Workshop on "Dissemination of Apiculture Technologies"

Prof. B. B. Wyakar delivering lecture.

Dr. K. Lakshmi Rao delivering lecture.

One Day Seminar On "Understanding the Life Style Diseases and Their Management":

Felicitation of guest during seminars: -

Dr. Pinky Thapar, Gastroendologist

Dr. Alpa Dalal, Pulmonologist

Corporate training to Sericulture farmers on **"Integrated Sericulture Farming".**

“Centre of Excellence and Incubation in Sericulture” is establ

Inauguration at hands of Hon’ble VC, Prof. D. B. Shinde and Hon’ble Pro-VC, Prof. D. T Shirke.

Dr. A. D. Jadhav training to Cuban Sericulture officers.

Dr. A. D. Jadhav delivering lecture.

13) List of Distinguished Alumni.

Many students of the Department are successful as Researchers, Academicians, Administrators in Government and several are Entrepreneurs.

Sr. No.	Name	Address	Designation	Photo	Contact Details
01.	Dr. Udayan Apte	School of Medicine, Kansas University Medical Centre, 4087 HLSIC; MS-1018 3901 Rainbow Blvd. Kansas City, Kansas 66160	Associate Professor		Phone: (913) 588-9247 E-mail: uapte@kumc.edu
02.	Dr. Mandar Nanajkar	Business Development Group, CSIR-NIO, Dona Paula Goa.	Senior Scientist		Mob.No.: 8886291444 E-mail: mandar@nio.org
03.	Dr. Meghanad Joshi	D. Y. Patil University, Kolhapur	Associate Professor		Mob. No. : 9767677772 E-mail: cmd@stemplusbiotech.com
04.	Dr. Mahendra Jagtap	Office of Jt. Director, Health Services (malaria) Pune 06, Arogya Bhavan, Alandi Road Vishrantwadi, Yerawada, Pune 06	State Entomologist at Health Services Govt. of Maharashtra		Mob. No. : 9422606504 E-mail: drjmahendra@gmail.com
05.	Ketaki Nishikant Methe	Ketaki N. Methe, Råbyvägen 33, Lgh 1304, 754 22, Uppsala, Sweden (0046 761577329)	Researcher, Gothenburg University, Sweden		E-Mail: ketaki.methe@gu.se, knmethe2020@gmail.com
06.	Dr. Rahul Jamdade	Sharjah Research Academy, UAE	Post-doctoral Researcher		Mob. No. : 097668 16678 E-mail: rahul.aqualab@gmail.com
07.	Shri. Sameer Bajaru	Bombay Natural History Society, Hornbill House, S. B. S. Road, Fort, Mumbai -400001, India	Assistant Curator, Natural History Collection Department		Mob. No. : 8369454638 E-mail: s.bajaru@bnhs.org

08.	Dr. D. L. Bharmal	Shri Pancham Khemraj Mahavidyalaya, Sawantwadi Near Moti Talav, Tal - Sawantwadi, Dist - Sindhudurg, 416510	Principal		Mob.No.: 9422964019 E-mail: bharamaldeelip@gmail.com
09.	Dr. S. B. Kengar	Yashwantrao Chavan College of Science, Karad, 415124	Principal		Contact No. :02164 271356 E-mail: prinyccsk@gmail.com
10.	Dr. Vijaya R. Chavan	Shri. Vijaysinha Yadav Arts and Science College, Pethvadgaon, Tal. Hatkangangale, Dist. Kolhapur. Pin:416 112	Principal		Mob. No.: 9421181666 E-mail: mrs.vijaya.chavan@gmail.com
11.	Shri. Dilip J. Rayannavar	Sudhagad-Pali, Tal. Pali, Dist. Raigad	Tehsildar		Mob. No. : 9768400659 E-mail: dilipjkr@gmail.com

14) Future roadmap of the department:

Based upon on our strengths and Opportunities available and challenges to address the departmental roadmap is planned as -

2022	➢ Establishment of Demonstration cum training centre for Sericulture. ➢ Facility for in-situ conservation of butterflies.
2023	➢ Phytonanomedicine development to restore important signalling pathways for uptake of glucose in body cells. ➢ Establishment of training centre for freshwater aquaculture practices.
2024	➢ Creation of awareness and propagation of host and nectar plants of butterflies. ➢ Development of phyto-chemicals for management of agricultural, medical and stored product insect pests.
2025	➢ Development of digital inventory of various animal groups. ➢ To understand the effect of different stressors in intervention of neurodegeneration. ➢ Molecular characterization of lepidoptera from Western Ghats

15) Media coverage of the Department.

This Department regularly conducts various Guest lectures by inviting eminent personalities in various fields of Research and public life. Various Transfer of Technology programs sponsored by various agencies involving workshops, awareness programs, Training programs are being regularly conducted.

सकाळ
कोल्हापूर, शुक्रवार, ९ मे २०१४
८

शिवाजी विद्यापीठाचे रेशीम उद्योगासाठी कार्य कौतुकास्पद

सुधीर कुरसंगे : उद्योगाला शासनाचे प्रोत्साहन

कोल्हापूर, ता. ८ : रेशीम उद्योगासाठी कुशल व प्रशिक्षित विद्यार्थी घडविण्यासाठी शिवाजी विद्यापीठात सुरू असलेले कार्य कौतुकास्पद आहे, असे मत वस्त्रोद्योग विभागाचे सचिव सुधीर कुरसंगे यांनी व्यक्त केले.

कुलगुरू डॉ. एन. जे. पवार व प्र-कुलगुरू डॉ. अशोक भोईटे यांची सकाळी कुरसंगे यांनी भेट घेतली. रेशीमशास्त्र विभागाचे डॉ. ए. डी. जाधव उपस्थित होते.

श्री. कुरसंगे म्हणाले, ''पश्चिम महाराष्ट्रात उसाच्या लागवडीमुळे अन्य शेतीकडे दुर्लक्ष झाले आहे. राज्य शासनाने अल्प खर्चातला आणि दीर्घकालीन उत्पन्नाचा स्रोत म्हणून रेशीम उद्योगाला प्रोत्साहन दिले. रेशीम क्षेत्राशी संबंधित अभ्यासक्रम प्राणीशास्त्र विभागात शिकविण्याचा उपक्रम कौतुकास्पद असून विद्यार्थ्यांना चांगले भवितव्य आहे.''

यशवंतराव चव्हाण ग्रामीण स्कूलच्या माध्यमातून एखादा प्रकल्प, पथदर्शी प्रकल्प राबविता येतो का, या दृष्टीने विचार करता येईल, असे डॉ. पवार यांनी नमूद केले.

TIMES CITY
THE TIMES OF INDIA, KOLHAPUR | TUESDAY, SEPTEMBER 5, 2017

Varsity students to get training in sericulture

Piyush.Bhusari@timesgroup.com

Kolhapur: The department of zoology from Shivaji University, Kolhapur (SUK) will receive hands-on training on the sericulture technology from September 11 at Mysuru in Karnataka.

Experts from Central Research and Training Institute in Mysuru will guide the students throughout the whole process.

A D Jadhav, professor at the department of zoology, SUK, told **TOI**, "The training is important for students. They get to know about the advancements in sericulture. The students' entrepreneurial skills are also given a push. These students can start their own sericulture farming or they can advise their friends and families about the advantages of it."

Jadhav said that the department always gives a push to students' entrepreneur skills and sericulture is one such department which is still relatively unexplored.

Elaborating on the course he added that students will be trained for five days from September 11. It will focus mainly on the basics of sericulture such as mulberry varieties and their characteristics, silkworm breeds and their incubation as well as boxing and silkworm rearing.

He added that as many as 24 students and two progressive farmers from Satara are being sent to the said training program.

He further said that the training program has been organised in the past two years. Students and farmers who have been there, are actively working in this field.

"Farmers, who have attended the sessions there, have witnessed a rise of almost 40% in their production later on. We will be soon signing an MOU with the Mysuru University, to facilitate periodic lecture and workshops on sericulture in future," added Jadhav.

According to Jadhav, the sericulture department of the state government purchases cocoons as per the prescribed rates and quality from farmers. It provides them with insecticide to get a good silk harvest.

The state government has also started various schemes to promote sericulture among farmers, wherein they can turn into independent entrepreneurs, according to Jadhav.

सकाळ
कोल्हापूर, सोमवार, २५ सप्टेंबर २०१७
४

TODAY
कोल्हापूर परिसर

विद्यापीठात रेशीमशास्त्र पदविका व पदव्युत्तर अभ्यासक्रम

कोल्हापूर, ता. २४ : शिवाजी विद्यापीठाच्या प्राणिशास्त्र अधिविभागात यंदापासून रेशीमशास्त्र पदविका व पदव्युत्तर पदविका अभ्यासक्रम सुरू होत आहे. कुलगुरू डॉ. देवानंद शिंदे यांनी त्यास मान्यता दिली आहे. रेशीम शेती कमी खर्चात, कमी कालावधीत व सातत्याने मासिक आर्थिक मिळकत मिळवून देणारी आहे.

रोजगाराची प्रचंड क्षमता व सहजपणे करता येत असल्याने त्याचे ग्रामीण भागात विकासात मोठे योगदान आहे. हा अभ्यासक्रम रेशीम शेती करू इच्छिणाऱ्या व करणाऱ्या शेतकरी बेरोजगार तरुण व महिलांना उद्योजकता विकास स्वावलंबनासाठी फायद्याचा ठरणार आहे.

दोन्ही अभ्यासक्रम एक वर्ष कालावधीचे असून, पदविकास अभ्यासक्रमासाठी दहावी उत्तीर्ण, तर जे शेतकरी रेशीम शेती करतात, त्यांच्यासाठी हे प्रगत तंत्रज्ञान मिळावे व शेती फायद्याची ठरावी म्हणून आठवीपर्यंत शिक्षणाची अट आहे. पदव्युत्तर पदविका अभ्यासक्रमासाठी विद्यापीठाच्या कॅम्पसमध्ये शिक्षण घेणाऱ्या विद्यार्थ्यांसाठी दुसऱ्या वर्षी (ॲड ऑन) प्रवेश घेता येईल. अभ्यासक्रमासाठी पंचवीस सप्टेंबरपासून प्रवेश प्रक्रिया सुरू होत आहे. अधिक माहितीसाठी प्राणिशास्त्र अधिविभागातील डॉ. ए. डी. जाधव यांच्याशी संपर्क साधावा, असे आवाहन प्राणिशास्त्र अधिविभाग प्रमुख डॉ. पी. डी. राऊत यांनी केले आहे.

कोल्हापूर
पुढारी शनिवार, ३० सप्टेंबर २०१७ ॥ शहर

शिवाजी विद्यापीठात जैवविविधता कार्यशाळा

बुधवारी आयोजन; वन विभागाचा सहभाग

कोल्हापूर : प्रतिनिधी

शिवाजी विद्यापीठ प्राणीशास्त्र अधिविभाग व महाराष्ट्र राज्य जैवविविधता मंडळ आणि वन विभाग यांच्या वतीने बुधवारी (दि. ४ ऑक्टोबर) राजर्षी शाहू सभागृह येथे सकाळी साडेदहा वाजता राज्यस्तरीय 'जैवविविधता संवर्धन आणि जागरूकता' या विषयावर एक दिवसीय कार्यशाळेचे आयोजन केले आहे.

कार्यशाळेचे उद्घाटन महाराष्ट्र राज्य जैवविविधता मंडळाचे अध्यक्ष डॉ. विलास बडेकर यांच्या हस्ते होणार आहे. कार्यक्रमाचे प्रमुख पाहुणे प्र-कुलगुरू डॉ. डी. टी. शिर्के, तर कुलगुरू प्रा. डॉ. देवानंद शिंदे अध्यक्षस्थानी असतील. या कार्यशाळेस राज्यात जैवविविधता संवर्धन, जागृती या अनुषंगाने विविध तज्ज्ञांचे मार्गदर्शन पान ७ वर

शिवाजी विद्यापीठात जैवविविधता कार्यशाळा

(पान १ वरून) होणार आहे. यामध्ये प्रा. डॉ. पी. डी. राऊत, प्रा. डॉ. एस. पी. चव्हाण, डॉ. ए. डी. जाधव, विवेक डावरे, उपवन संरक्षक डॉ. प्रभुनाथ शुक्ल, हेमंत ओगले, प्रा. डॉ. एस. आर. यादव आदी मार्गदर्शन करतील.

कार्यक्रम संयोजन सचिव डॉ. ए. डी. जाधव तर डॉ. एम. व्ही. शांताकुमार हे समन्वयक आहेत. या कार्यशाळेस राष्ट्रीय सेवा योजनेचे विद्यार्थी व निवडक महाविद्यालयातील समन्वयक उपस्थित राहणार आहेत.

परागी भवनासाठी मधमाशांचे अस्तित्व महत्वाचे

प्रा. बी.बी. वायकर : आजरा महाविद्यालयात मधुमक्षिका पालन राष्ट्रीय कार्यशाळा

प्रतिनिधी
आजरा

मधमाशा या मानवी जीवनाशी जोडल्या गेल्या आहेत. परागी भवनाशिवाय अन्नधान्य पिकविणे अशक्य असून परागीभवनासाठी मधमाशांचे अस्तित्व महत्वाचे असल्याचे प्रतिपादन औरंगाबाद येथील डॉ. बाबासाहेब आंबेडेकर मराठवाडा विद्यापीठाचे प्रा. बी. बी. वायकर यांनी केले. येथील आण्णाभाऊ सांस्कृतिक सभागृहात आयोजित करण्यात आलेल्या मधुमक्षिका पालन तंत्रज्ञान व प्रसार या राष्ट्रीय कार्यशाळेत ते बोलत होते.

केंद्रीय मधुमक्षिका पालन संशोधन व प्रशिक्षण संस्था, खादी ग्रामोद्योग आयोग व शिवाजी विद्यापीठाच्या संयुक्त विद्यमाने या कार्यशाळेचे आयोजन करण्यात आले होते. स्वागत आजरा महाविद्यालयातील डॉ. व्ही. व्ही. आजगेकर यांनी केले. प्रास्ताविकात प्राचार्य डॉ. एम. एल. होनगेकर यांनी मधुमक्षिका पालन व्यवसाय व फायदे याबाबत माहिती दिली. ही कार्यशाळा ग्रामीण भागात झाली तरच याचा लाभ शेतकऱ्यांना होणार असल्याने आजरा महाविद्यालयात या कार्यशाळेचे आयोजन करण्यात आल्याचे त्यांनी सांगितले.

यावेळी डॉ. वायकर म्हणाले, मराठवाड्यात डाळींबाचे पिक मोठ्या प्रमाणावर घेतले जाते. मात्र गेल्या काही वर्षात डाळींबाच्या बागा ओस पडल्या होत्या. यावर संशोधन करून बागांमध्ये मधमाशांच्या पेट्या आणून ठेवल्या. यामुळे परागीभवन होऊन डाळींबाच्या बागा बहरल्या आणि उत्पादनही वाढल्याचे त्यांनी सांगितले. मधमाशांमुळे परागीभवन प्रक्रिया निरंतर सुरू आहे. मधमाशा नष्ट झाल्या तर परागीभवनाची प्रक्रिया बंद होऊन शेतात अन्नधान्य पिकविणे शक्य होणार नाही. यामुळे मध्यमाशांचे पालन व संवर्धन करणे ही काळाची गरज आहे.

पुणे येथील केंद्रीय मधुमक्षिका पालन, संशोधन व प्रशिक्षण संस्थेच्या सहाय्यक संचालिका डॉ. के. लक्ष्मीराव यांनी शासकीय योजनांची माहिती दिली.

यानंतर शिवाजी विद्यापीठातील डॉ. अे. डी. जाधव, आजरा तालुका कृषी अधिकारी मोमीन यांनी मनोगत व्यक्त केले. जनता शिक्षण संस्थेचे संचालक के. व्ही. येसणे यांनी अशा कार्यशाळा ग्रामीण भागात घेतल्या तरच आपण शेतकऱ्यांपर्यंत पोहोचू आणि कार्यशाळांचा हेतू सफल होईल असे मत व्यक्त केले. यावेळी संस्थेचे संचालक दिनेश कुरूणकर, आजरा महाविद्यालयाचे अधिक्षक योगेश पाटील यांच्यासह तालुक्यातील विविध गावातील शेतकरी उपस्थित होते. डॉ. अशोक बाचूळकर यांनी सूत्रसंचलन करून आभार मानले.

आजरा : मधुमक्षिका पालन तंत्रज्ञान व प्रसार कार्यशाळेत मार्गदर्शन करताना डॉ. बी. बी. वायकर व्यासपीठावर उपस्थित डॉ. व्ही. व्ही. आजगेकर, डॉ. एम.एल. होनगेकर, दिनेश कुरूणकर, के. लक्ष्मीराव, डॉ. अे. डी. जाधव, डॉ. व्ही. एस. मन्ने, के. व्ही. येसणे.

समाजनिर्मितीत विज्ञानाचे योगदान

म. टा. प्रतिनिधी, कोल्हापूर

'विज्ञान हे संशोधनाचे मुख्य प्रवेशद्वार आहे. संशोधन म्हणजे ज्ञान शोधण्याची कला आहे,' असे प्रतिपादन शिवाजी विद्यापीठाचे कुलगुरू डॉ. देवानंद शिंदे यांनी केले. शिवाजी विद्यापीठाच्या प्राणिशास्त्र अधिविभागामार्फत राजर्षी शाहू सभागृहात आयोजित करण्यात आलेल्या राष्ट्रीय विज्ञान सप्ताहाच्या सांगता समारंभामध्ये अध्यक्षस्थानावरून

शिवाजी विद्यापीठात राष्ट्रीय विज्ञान सप्ताहाचा समारोप

कुलगुरू डॉ. शिंदे बोलत होते. यावेळी प्र-कुलगुरू डॉ. डी. टी. शिर्के उपस्थित होते.

कुलगुरू शिंदे म्हणाले, 'समाज घडविण्यामध्ये विज्ञानाचे फार मोठे योगदान आहे विज्ञानातील विवेकपूर्ण विचार हे समाजाला अंधश्रद्धेपासून दूर ठेवण्याचे मुख्य काम करीत असते. प्रत्येक व्यक्तीमध्ये एक संशोधक लपलेला असतो. संशोधक वृत्तीचे कार्य पूर्ण होण्यासाठी त्याला पूरक वातावरण उपलब्ध होणे आवश्यक आहे. संशोधन ही निरंतर चालणारी प्रक्रिया आहे. संशोधनामुळे माणूस सक्षम बनतो.'

डॉ. डी. टी. शिर्के म्हणाले, 'भारतीय महिला शास्त्रज्ञांचे विज्ञानात फार मोठे योगदान आहे. विद्यार्थ्यांनी अभ्यासू, चिकित्सकवृत्ती जोपासून समाजाच्या प्रगतीसाठी विज्ञानाचा उपयोग करावा'

यावेळी अधिष्ठाता डॉ. पी. एस. पाटील, कुलसचिव डॉ. विलास नांदवडेकर, विद्यार्थिनी स्वरूपा फडके यांनी मनोगत व्यक्त केले. सप्ताहाच्या माध्यमातून प्राणिशास्त्र विभागामार्फत निबंध स्पर्धा, वक्तृत्व स्पर्धा, विज्ञान प्रदर्शन स्पर्धांचे आयोजन केले होते. प्राविण्य मिळविलेल्या विद्यार्थ्यांना कुलगुरूंच्या हस्ते प्रमाणपत्र देऊन गौरविण्यात आले.

प्राणीशास्त्र अधिविभागप्रमुख डॉ. व्ही. एस. मन्ने यांनी स्वागत केले. समन्वयक डॉ. एम. व्ही. वाळवेकर यांनी आढावा सादर केला. आदित्य नागवेकर यांनी सूत्रसंचलन केले. डॉ. माधव भिलावे यांनी आभार मानले. यावेळी अधिष्ठाता डॉ. ए. एम. गुरव, वित्त व लेखाधिकारी व्ही. टी. पाटील, राष्ट्रीय सेवा योजनेचे संचालक डॉ. अभय जायभाये यांच्यासह शालेय विद्यार्थी, विद्यार्थिनी, शिक्षक, संशोधक उपस्थित होते.

राष्ट्रीय विज्ञान दिनानिमित्त आयोजित कार्यक्रमात बोलताना कुलगुरू डॉ. देवानंद शिंदे. सोबत डॉ. व्ही. एस. मन्ने, डॉ.डी. टी. शिर्के, आदी.

Study finds 123 species of vertebrates on Shivaji University's biodiversity-rich campus

TIMES NEWS NETWORK

Kolhapur: A biodiversity study carried out for over a year has cited the presence of 123 species of vertebrates — including 90 species of birds, 13 species of reptiles, 11 species of amphibians and nine species of mammals — in the lush-green 850-acre campus of the Shivaji University, Kolhapur (SUK).

The study, which was approved under the 'research strengthening scheme' for university researchers, has stamped the biodiversity present in the university campus and revealed the types of species for the first time. The dense vegetation with several water bodies and minimal human interference has let the animals thrive on the campus.

The research also cites some rare species of animals such as the common trinket snake. It is a non-venomous slender snake found in dense vegetation. It feeds on rodents and has smooth and glossy scales, making it attractive. In addition, the campus has 10 different sub-species of frogs that are rarely present in a single habitat in large numbers. Among them is the rare Indian balloon frog, which forms a baggy shape when threatened. This species of frog remains in underground pits near water bodies most of the year.

Lead researcher of the study and professor of zoology department S M Gaikwad said: "Various types of habitats are present on the SUK campus — from dense vegetation to water bodies. We are continuing with the study for a few more months and are hopeful that more species will be found on the 850-acre campus."

In the birds' category, one can find the crested serpentine eagle and boneless eagle on the campus.

Moreover, five species of migratory birds have been spotted, including northern shoveller, shelducks, paradise flycatcher etc.

"The university has taken up the task of planting local species of plants. This will help conserve as well as increase the biodiversity of the campus," said Gaikwad.

Prof S M Gaikwad


BALLOON FROG


RUDDY SHELDUCK


CRESTED SERPENT EAGLE


TRINKET SNAKE

The dense vegetation with several water bodies and minimal human interference have let the animals thrive on the campus

पारंपरिक मासेमारीचा आफ्रिका ते पन्हाळा प्रवास

कोल्हापूर : छोट्या झील जाळीसह संशोधन करणारे प्रज्ञा डवरी, दिग्विजय चौकीकर, दीमी मोहिते व आफरीन नदाफ.

सुयोग घाटगे : सकाळ वृत्तसेवा

कोल्हापूर ता २६ : पन्हाळा परिसरातील पारंपरिक पद्धतीच्या मासेमारीचे मूळ हे आफ्रिका खंडातील असल्याचे सांगितल्यास आश्चर्य वाटले नाही तर नवलच. शेकडो वर्षांपासून पन्हाळा परिसरातील गोड्या पाण्यातील हंगामी मासेमारी करण्याची पद्धत आफ्रिका खंडातील मासेमारीशी जुळणारी असल्याचे संशोधन शिवाजी विद्यापीठाच्या प्राणीशास्त्र विभागाच्या विद्यार्थ्यांनी केले आहे.

डॉ. एम. पी. भिलावे यांच्या मार्गदर्शनाखाली प्रज्ञा डवरी, दीमी मोहिते, आफरीन नदाफ, दिग्विजय चौकीकर यांनी गोड्या पाण्यातील पारंपरिक पद्धतीने मासेमारी होणाऱ्या ठिकाणाची माहिती संकलित केली.

आशिया खंडातील मासेमारीच्या पारंपरिक पद्धतीपेक्षा आफ्रिक खंडातील पद्धत वेगळी आहे. मुळात एखादी पद्धत तेथील भौगोलिक परिस्थिती आणि मिळणारे मासे यावर अवलंबून असते. मात्र, आशिया खंडात आफ्रिका खंडातील पद्धतीचा वापर ही बाब महत्त्वाची असून, याबाबत विभागाच्या विद्यार्थ्यांनी केलेले संशोधन महत्त्वपूर्ण आहे. - डॉ. एम. पी. भिलावे

त्याचा अभ्यास करताना पन्हाळा तालुक्यातील गोड्या पाण्यातील हंगामी मासेमारी करण्याची पद्धत थेट आफ्रिका खंडातील पद्धतीशी तंतोतंत मिळती-जुळती असल्याचे लक्षात आले. मासेमारीसाठी वापरली जाणारी उपकरणे, जाळीचे नावही आफ्रिका खंडाप्रमाणेच उच्चारले जाते. ही पद्धत विशेषतः हंगामी मासेमारी करणारे मच्छीमार वापरतात. आफ्रिका खंडातही याच पद्धतीने हंगामी मासेमारी होते. ब्रिटिश राजवटीच्या आधी अथवा त्या दरम्यान खलाशी अथवा इतर स्रोतांद्वारे ही पद्धत येथे रुजू झाली असल्याची शक्यता येथील स्थानिक वर्तवितात. काळाच्या ओघात जाळीसाठी झाडांच्या सालींऐवजी नायलॉनचा दोरा वापरला जात असल्याचा बदल घडला आहे. हे संशोधन इंटरनॅशनल जर्नल ऑफ फिशरीस अँण्ड ॲक्वेटिक स्टडीजमध्ये प्रसिद्ध झाले असून, यामुळे दोन खंडांतील सांस्कृतिक देवाण-घेवाणीचा परस्पर संबंध समोर आला आहे.

पुढारी

घरमाशीवर आता जैविक नियंत्रण!

डॉ. ए. डी. जाधव यांचे यशस्वी संशोधन

कोल्हापूर : प्रवीण मस्के

शिवाजी विद्यापीठ प्राणीशास्त्र विभागातील प्रा. डॉ. ए. डी. जाधव यांनी घरमाशा कोषावस्थेत असताना त्यांना नष्ट करणाऱ्या 'नेसोलॅक्स थायमस' या जैविक मित्र कीटकांचा शोध लावला आहे. सर्वत्र आढळणाऱ्या व आजारांचे कारण ठरणाऱ्या घरमाशीवर जैविक पद्धतीने आता नियंत्रण मिळविणे शक्य होणार आहे.

या संशोधनासाठी जिल्हा नियोजन मंडळाकडून त्यांना निधी मिळाला आहे. घरमाशी 'डिप्टेरा' या कुळातील घटक आहे. अस्वच्छतेच्या ठिकाणी त्यांची पैदास मोठ्या प्रमाणात होते. अनेक रोगांचा प्रसार होण्यासाठी व साथरोग पसरण्यास घरमाशा कारणीभूत ठरतात. डॉ. जाधव गेल्या काही वर्षांपासून यासंदर्भात संशोधन करीत आहेत. विद्यापीठाच्या प्राणीशास्त्र विभागात 'नेसोलॅक्स थायमस' या मित्र किडीची निर्मिती केली आहे. शासनाच्या नावीन्यपूर्ण योजनेतंर्गत मिळणाऱ्या निधीतून विद्यापीठात या अध्ययावत किडीची मोठ्या प्रमाणात उत्पत्ती करणारी प्रयोगशाळा निर्माण करण्यात येणार आहे. मित्र किडींचे वाटप पोल्ट्रीधारक, सार्वजनिक आरोग्य यंत्रणेकडे केले जाईल. त्यांना सार्वजनिक ठिकाणी सोडले जाणार आहे. मित्र कीटक रेशीम आळ्यांवर प्रादुर्भाव करणाऱ्या ऊजी माशीवर नियंत्रणासाठी राज्यातील रेशीम उत्पादन शेतकऱ्यांना वाटप केले जाणार आहे. त्यामुळे रेशीम उत्पादनात २० टक्के वाढ होईल, असे डॉ. जाधव यांनी सांगितले.

11 OCT 2018

पुण्यनगरी

जनसंपर्क कक्ष
शिवाजी विद्यापीठ, कोल्हापूर

रेशीम शेती इन्क्युबेशन सेंटरमुळे शेतकऱ्यांचा प्रवास सुकर

कुलगुरू डॉ. देवानंद शिंदे : रेशीम शेती इन्क्युबेशन सेंटर विद्यापीठात कार्यान्वित, लाइफ सायन्समधील देशातील पहिले केंद्र

कोल्हापूर / प्रतिनिधी :

शिवाजी विद्यापीठात कार्यान्वित करण्यात आलेल्या रेशीम शेती इन्क्युबेशन सेंटरमुळे विद्यार्थ्यांचा आणि शेतकऱ्यांचाही ज्ञानार्जनातून अर्थार्जनाकडील प्रवास सुकर होणार आहे, असे प्रतिपादन शिवाजी विद्यापीठाचे कुलगुरू डॉ. देवानंद शिंदे यांनी केले.

कुलगुरू डॉ. देवानंद शिंदे विद्यापीठाच्या प्राणिशास्त्र अधिविभागात सेंटर ऑफ एक्सलन्स अँड इन्क्युबेशन इन सेरीकल्चर या केंद्राचे उद्घाटन झाले, त्यावेळी ते बोलत होते.

या उद्घाटनाच्या निमित्ताने उस्मानाबाद जिल्ह्यातील ५५ शेतकऱ्यांसाठी दि. ८ ते १३ ऑक्टोबर या कालावधीत या इन्क्युबेशन केंद्राच्या अंतर्गतच 'एकात्मिक रेशीम शेती' या विषयावरील प्रशिक्षण शिबिरही आयोजित करण्यात आले आहे.

कोल्हापूर : प्राणिशास्त्र अधिविभागात इन्क्युबेशन सेंटरअंतर्गत शेतकऱ्यांसाठी रेशीम शेतीविषयक प्रशिक्षण शिबिराचे उद्घाटन करताना कुलगुरू डॉ. देवानंद शिंदे, प्र-कुलगुरू डॉ. डी. टी. शिर्के यांच्यासह मान्यवर.

कुलगुरू डॉ. शिंदे म्हणाले, लाईफ सायन्स या विषयामधील रेशीम शेतीशी निगडित भारतातील हे पहिले इन्क्युबेशन सेंटर आहे. इन्क्युबेशन सेंटरची योजना अशासाठी असते की, विद्यार्थी अगर नागरिकांना नोकरीऐवजी स्वतःचा रोजगार सुरू करता यावा आणि त्या माध्यमातून इतर गरजू लोकांनाही रोजगार देता यावा. त्यादृष्टीने या रेशीम शेती इन्क्युबेशनमध्ये रोजगार निर्मितीची पुरेपूर क्षमता आहे.

दरम्यान, या एक आठवड्याच्या निवासी प्रशिक्षण कार्यक्रमात जमिनीची तयारी, निवड, खताचे, पाण्याचे महत्त्व, चॉकी व प्रौढ रेशीम कीटक संगोपन, निर्जंतुकीकरण, तुती व रेशीम कीटकांचे विविध रोग व कीड कोष बांधणी, विक्री, रेशीम शेतीतील मूल्यवर्धित उत्पादने, धागानिर्मिती, शासकीय योजना अशा विविध विषयांवर प्रात्यक्षिकांसह प्रशिक्षण देण्यात येणार आहे.

कार्यक्रमास प्रमुख पाहुणे म्हणून विद्यापीठाचे प्र-कुलगुरू डॉ. डी. टी. शिर्के, इनोव्हेशन अँड इन्क्युबेशन केंद्राचे संचालक डॉ. आर. के. कामत, विज्ञान व तंत्रज्ञान विद्याशाखेचे अधिष्ठाता डॉ. पी. एस. पाटील, कृषी महाविद्यालयाचे प्राचार्य डॉ. जी. जी. खोत, समृद्धी उद्योग समूहाचे मनीष पाटील, उस्मानाबादचे प्रगतिशील रेशीम शेती उत्पादक बालाजी पवार आदी उपस्थित होते. प्राणिशास्त्र अधिविभागप्रमुख डॉ. व्ही. एस. मन्ने यांनी प्रास्ताविक केले. कार्यक्रम समन्वयक डॉ. ए. डी. जाधव यांनी आभार मानले.

जनसंपर्क कक्ष
शिवाजी विद्यापीठ, कोल्हापूर

11 OCT 2018

Times of India

Varsity opens incubation centre for sericulture

Piyush.Bhusari
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Kolhapur: A centre at Shivaji University, Kolhapur (SUK) could well become the one-stop centre for all things related to sericulture. The incubation centre for sericulture, inaugurated earlier this week, will serve students, farmers, as well as industry.

Integrated research, field visits, transfer of technology, and dissemination of technology will be the first priority in the incubation lab, said AD Jadhav, programme coordinator at the Department of Zoology, SUK.

Jadhav said at the first programme after its inauguration, 55 farmers from Osmanabad district enrolled for the five-day training on the various aspects of sericulture. The programme will conclude on October 13. All these farmers have arrived under the sponsorship of the district administration of Osmanabad. They plan to send 500 more farmers interested in sericulture.

55 farmers from Osmanabad district enrolled for the five-day training on the various aspects of sericulture. The programme will conclude on October 13. All these farmers have arrived under the sponsorship of the district administration of Osmanabad.

"The exposure to proper practices in the field of sericulture is much needed to get proper yield. We have many success stories from the surrounding region, where farmers have earned in the lakhs with their harvest," he said.

Balaji Powar, one of the farmer participants, said that the training that they are receiving at the Department of Zoology of SUK will stand them in good stead. "The field visit to nearby farmers, inspires one with confidence," he said.

Devanand Shinde, VC, SUK on the day of inauguration of the incubation centre said this is the first incubation centre associated with the life sciences in the country.

पुढारी

कोल्हापूर : विद्यापीठात सेंटर ऑफ एक्सलन्स अँड इन्क्युबेशन इन सेरिकल्चर केंद्रातर्फे आयोजित कार्यक्रमाच्या उद्घाटनप्रसंगी कुलगुरू डॉ. देवानंद शिंदे, प्र-कुलगुरू डॉ. डी. टी. शिर्के यांच्यासह मान्यवर.

रेशीम शेतीतून इतर उत्पादने घेण्यास 'इन्क्युबेशन'च्या माध्यमातून चालना

कोल्हापूर : प्रतिनिधी

रेशीम शेतीतून इतर मूल्यवर्धित उत्पादने घेण्यास इन्क्युबेशन केंद्राच्या माध्यमातून चालना मिळेल. रेशीम शेतीतून उत्पादकता व गुणवत्ता वाढविण्यास याचा फायदा होईल, असे प्रतिपादन कुलगुरू डॉ. देवानंद शिंदे यांनी केले.

प्राणीशास्त्र अधिविभागात सेंटर ऑफ एक्सलन्स अँड इन्क्युबेशन इन सेरिकल्चर केंद्राच्या उद्घाटनप्रसंगी ते बोलत होते. उस्मानाबाद जिल्ह्यातील शेतकऱ्यांसाठी इन्क्युबेशन केंद्रांतर्गत एकात्मिक रेशीम शेती या विषयावर प्रशिक्षण कार्यक्रम झाला. याचेवेळी प्र-कुलगुरू प्रा. डॉ. डी. टी. शिर्के, डॉ. आर. के. कामत, मनीष पाटील, डॉ. जी. जी. खोत यांनी मनोगत व्यक्त केले. याचेवेळी प्रा. डॉ. पी. एस. पाटील, डॉ. ए. डी. जाधव, डॉ. व्ही. एस. मन्ने, बालाजी पवार आदी उपस्थित होते.

पुढारी

विद्यापीठात 'रेशीमशेती इन्क्युबेशन' कार्यान्वित

- लाईफ सायन्समधील देशातील पहिले केंद्र
- उस्मानाबाद येथील शेतकऱ्यांना प्रशिक्षण

कोल्हापूर : प्रतिनिधी

शिवाजी विद्यापीठात कार्यान्वित करण्यात आलेल्या रेशीम शेती इन्क्युबेशन सेंटरमुळे विद्यार्थ्यांचा आणि शेतकऱ्यांचाही ज्ञानार्जनातून अर्थार्जनाकडील प्रवास सुकर होणार आहे, असे प्रतिपादन शिवाजी विद्यापीठाचे कुलगुरू डॉ. देवानंद शिंदे यांनी येथे व्यक्त केले.

प्राणीशास्त्र अधिविभागात सेंटर ऑफ एक्सलन्स अँड इन्क्युबेशन इन सेरीकल्चर या केंद्राचे उद्घाटनावेळी डॉ. शिंदे बोलत होते. या उद्घाटनाच्या निमित्ताने उस्मानाबाद जिल्ह्यातील ५५ शेतकऱ्यांसाठी इन्क्युबेशन केंद्राच्या अंतर्गत एकात्मिक रेशीम शेती या विषयावरील प्रशिक्षण दिले जाणार आहे. याचेवेळी प्र-कुलगुरू डॉ. डी. टी. शिर्के उपस्थित होते.

कुलगुरू डॉ. शिंदे म्हणाले, उस्मानाबाद जिल्ह्यातून रेशीम शेतीचे निवासी प्रशिक्षण घेण्यास अकृषी विद्यापीठात शेतकरी येतात, ही अभिमानाची बाब आहे.

याचेवेळी इनोव्हेशन अँड इन्क्युबेशन केंद्राचे संचालक डॉ. आर. के. कामत, विज्ञान व तंत्रज्ञान विद्याशाखेचे अधिष्ठाता डॉ. पी. एस. पाटील, कृषी महाविद्यालयाचे प्राचार्य डॉ. जी. जी. खोत, समृद्धी उद्योग समूहाचे मनीष पाटील, उस्मानाबादचे प्रगतिशील रेशीम शेती उत्पादक बालाजी पवार आदी उपस्थित होते. प्राणीशास्त्र अधिविभागप्रमुख डॉ

व्ही. एस. मन्ने यांनी प्रास्ताविक केले. कार्यक्रम समन्वयक डॉ. ए. डी. जाधव यांनी आभार मानले.

भारतातील पहिले इन्क्युबेशन सेंटर

लाईफ सायन्स या विषयामधील रेशीम शेतीशी निगडित भारतातील हे पहिले इन्क्युबेशन सेंटर आहे. इन्क्युबेशन सेंटरची योजना अशासाठी असते की, विद्यार्थी अगर नागरिकांना नोकरीऐवजी स्वतःचा रोजगार सुरू करता यावा आणि त्या माध्यमातून इतर गरजू लोकांनाही रोजगार देता यावा. त्या दृष्टीने या रेशीम शेती इन्क्युबेशनमध्ये रोजगार निर्मितीची पुरेपूर क्षमता असल्याचे कुलगुरू डॉ. शिंदे यांनी मांडितले

सेरिकल्चर मॉडेलचा विद्यापीठात प्रयोग

केंद्र सरकारच्या 'वन डिस्ट्रिक्ट वन प्रॉडक्ट' योजनेंतर्गत निवड

संदीप खांडेकर :
सकाळ वृत्तसेवा

कोल्हापूर, ता. १२ : शिवाजी विद्यापीठातील सेंटर ऑफ एक्सलन्स अँड इन्क्युबेशनच्या माध्यमातून पाच एकर जागेत तुतीची लागवड ते धागा निर्मितीचे 'सेरिकल्चर मॉडेल' आकाराला येणार आहे.

केंद्र शासनाच्या 'वन डिस्ट्रिक्ट वन प्रॉडक्ट' योजनेसाठी कोल्हापूर जिल्ह्याची रेशीमसाठी निवड झाली आहे. त्याअंतर्गत हे मॉडेल साकारले जाणार आहे. 'कमवा व शिका' योजनेतील विद्यार्थ्यांना मॉडेलमध्ये काम करण्याची संधी मिळेल.

जिल्ह्यातील शेतकऱ्यांचा रेशीम शेतीकडे कल वाढत आहे. प्रत्येक तालुक्यातील शेतकरी कोष निर्मितीत गुंतल्याचे चित्र आहे. विशेषतः यळगूडमध्ये वर्षाला कोट्यवधीची उलाढाल करणारे शेतकरी आहेत. त्यांच्याप्रमाणे या व्यवसायात येऊ इच्छिणाऱ्यांना शास्त्रशुद्ध पद्धतीने रेशीम शेतीचे ज्ञान देण्याकरिता विद्यापीठाने पुढाकार घेतला आहे. प्राणीशास्त्र अधिविभागातील डॉ. ए. डी. जाधव क्युबाच्या राष्ट्रीय रेशीम प्रकल्पाचे सल्लागार म्हणून कार्यरत आहेत. डॉ. जाधव व प्राणीशास्त्र विभागाचे प्रमुख डॉ. शांताकुमार मन्ने यांच्याकडे मॉडेलची जबाबदारी आहे.

तुतीची लागवड ते धागा निर्मिती, यांत्रिकीकरणाचे, वेगवेगळ्या मशिन्स, उत्पादकता व किटक संगोपन गृहाचे निर्जंतुकीकरण, धागा काढण्याची विविध यंत्रे, जिओ-थर्मल टेक्नॉलॉजीचा वापर, शेतकऱ्यांना प्रशिक्षण, असे उपक्रम राबविले जाणार आहेत.

"वन डिस्ट्रिक्ट वन प्रॉडक्ट' योजनेअंतर्गत देशात ५० जिल्ह्यांची निवड झाली आहे. मात्र, राज्यात निवड झालेला कोल्हापूर जिल्हा एकमेव आहे. खासदार धैर्यशील माने यांनी केंद्रिय वस्त्र मंत्रालयाशी संपर्क साधला होता. त्यामुळे जिल्ह्याची निवड झाली आहे. कुलगुरू डॉ. डी. टी. शिर्के यांनी दिलेले पाठबळ मोलाचे आहे.
- डॉ. ए. डी. जाधव, सल्लागार, क्युबा राष्ट्रीय रेशीम प्रकल्प

"प्राथमिक स्तरावर मॉडेलच्या हालचाली सुरू आहेत. मॉडेलसाठी आवश्यक जागा विद्यापीठात असल्याने शेतकऱ्यांना रेशीम शेतीचे ज्ञान मिळणार आहे. ते उत्पादकता व गुणवत्ता वाढीला तो पोषक ठरेल.
- डॉ. डी. टी. शिर्के, कुलगुरू, शिवाजी विद्यापीठ

दृष्टिक्षेपात प्रकल्प

- भारतात रेशीम अळ्यांच्या ४६६ जाती
- तुतीच्या १२९९ जाती
- वातारणात पोषक ठरणाऱ्या तुतीची विद्यापीठात होणार लागवड
- जर्मप्लाझम बँकेची होणार निर्मिती
- केंद्रिय रेशीम मंडळ व शिवाजी विद्यापीठात होणार सामंजस्य करार

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शिवाजी विद्यापीठाचे कुलगुरु डॉ. डी. टी. शिर्के, कुलसचिव डॉ. विलास नांदवडेकर यांची केंद्रीय रेशीम संशोधन प्रशिक्षण संस्थेचे संचालक डॉ. पंकज तिवारी, सहसंचालक एम. मूर्ती, शिवकुमार हुक्केरी यांनी भेट घेतली. यावेळी व्ही. एस. मन्ने, ए. डी. जाधव, आदी उपस्थित होते.

तुती लागवड ते कापड निर्मितीचे एकात्मिक मॉडेल उभारण्यास सहकार्य

केंद्रीय रेशीम'ची तयारी : विद्यापीठातील उपक्रमांचा आढावा

■ लोकमत न्यूज नेटवर्क

कोल्हापूर : शिवाजी विद्यापीठाच्या सेरिकल्चर इन्क्युबेशन सेंटरच्या माध्यमातून संशोधन, प्रशिक्षण, नावीन्यपूर्ण संकल्पना, आदींना भविष्यात सहकार्य केले जाईल. जिल्हा नियोजन समिती, केंद्रीय रेशीम मंडळ, वस्त्र मंत्रालय यांच्या सहकार्याने तुती लागवड ते कापड निर्मिती असे एकात्मिक मॉडेल विद्यापीठात उभे करण्यासाठी सर्वतोपरी सहकार्य करण्याची तयारी केंद्रीय रेशीम संशोधन प्रशिक्षण संस्थेच्या वरिष्ठ शास्त्रज्ञ, अधिकाऱ्यांनी दर्शविली.

केंद्रीय रेशीम संशोधन प्रशिक्षण संस्था आणि म्हैसूर येथील केंद्रीय रेशीम मंडळाचे संचालक डॉ. पंकज तिवारी, सहसंचालक एम. मूर्ती, शिवकुमार हुक्केरी यांनी विद्यापीठाच्या सेंटर फॉर एक्सलन्स आणि इन्क्युबेशन इन सेरिकल्चरला गेल्या आठवड्यात भेट दिली. येथे सुरू असलेल्या विविध उपक्रमांचा आढावा घेतला. विद्यापीठाच्या रेशीमशास्त्र विभागामार्फत मार्गदर्शन प्राप्त यळगूड (ता. हातकणंगले) येथील आप्पासो झुंजार, राजेंद्र बागल यांच्या रेशीम शेतीची पाहणी केली. या अधिकाऱ्यांनी कुलगुरू डॉ. डी. टी. शिर्के, कुलसचिव डॉ. विलास नांदवडेकर यांची भेट घेऊन चर्चा केली. यावेळी प्राणिशास्त्र अधिविभागप्रमुख डॉ. व्ही.एस. मन्ने, रेशीमशास्त्र सेंटरचे समन्वयक डॉ. ए. डी. जाधव उपस्थित होते.

राज्यातील किंग कोब्राची पहिली नोंद तिलारीत

शिवाजी विद्यापीठाच्या प्रा. एस. आर. यंकन्ची व ओमकार यादव यांचे संशोधन

कोल्हापूर : मोहसीन मुल्ला

तिलारीच्या जंगलात किंग क्रोबा या सापाची नोंद झाली आहे. किंग कोब्राच्या महाराष्ट्रातील जंगलातील आढळाची ही पहिली शास्त्रीय नोंद ठरली आहे. शिवाजी विद्यापीठाच्या प्राणीशास्त्र विभागातील सहायक प्राध्यापक एस. आर. यंकन्ची आणि संशोधक विद्यार्थी ओमकार यादव यांनी ही नोंद केली आहे. या संदर्भातील संशोधन पेपर 'हरपेटोलॉजी नोटस' या संशोधन पत्रिकेत ३ ऑक्टोबरला प्रसिद्ध झाला आहे.

सध्या तिलारीचे जंगल हे अभयारण्य म्हणून घोषित करावे यासाठी राज्याच्या वाईल्ड लाईफ बोर्डने मान्यता दिली आहे. या पार्श्वभूमीवर किंग कोब्राची तिलारीतून झालेली नोंद ही या जंगलाची समृद्ध जैवविविधता अधोरेखित करणारी आहे. यादव म्हणाले, किंग कोब्रा हा जगातील सर्वाधिक लांबीचा विषारी साप आहे. अगदी ५.७३ मीटर इतक्या लांबीचे किंग कोब्रा आढळले आहेत. या सापाची ओळख, त्याचा आकार आणि डोक्यावर आढळणाऱ्या विशिष्ट प्रकारच्या खवल्यांवरून होते. परिस्थितीनुरूप सापांचा रंग, खवल्या, लांबी आणि वजन यात वैविध्यही दिसून येते.

सर्वसाधारणपणे रेन फॉरेस्ट प्रकारातील जंगल, खारफुटी आणि काहीवेळा शेतातही किंग कोब्रांचा अधिवास असतो. भारतात पश्चिम घाटात तामिळनाडू, केरळ, कर्नाटक, गोवा येथे

किंग कोब्राची अधिवास आहे. गोव्यात बोंडला अभयारण्यातून किंग कोब्राची नोंद झाली आहे; पण महाराष्ट्रातील जंगलातून किंग कोब्राची नोंद यापूर्वी झालेली नाही. मार्च २०१५ ला प्रा. यंकन्ची आणि यादव तिलारीच्या जंगलात उभयचर आणि सरपटणाऱ्या प्राण्यांचा अभ्यास करत असताना त्यांना एका परिसरात किंग कोब्रा दिसून आला. त्यांनी या किंग कोब्राची छायाचित्रे घेतली. तसेच इतर नोंदी घेतल्या. यादव म्हणाले, पश्चिम घाटातील जंगलात सरपटणारे प्राणी आणि उभयचर यांची फार मोठी विविधता आहे. किंग कोब्रा जातीचा साप अत्यंत विषारी समजला जातो. या सापाची नोंद तिलारीत होणे, ही नक्कीच अत्यंत समाधानाची बाब आहे. त्याच बरोबरीने तिलारीच्या जंगलाच्या संवर्धनाची गरज ही यातून अधोरेखित झालेली आहे. या संशोधनात संशोधक वरद गिरी आणि केदार भिडे यांचे मार्गदर्शन लाभल्याचे यादव यांनी सांगितले.

शहाजी देसाई यांना रवींद्र महादेव चव्हाण केला. पान २ वर ▸ रस्त्यांवरील प्रवास सुखकर होईल.

'डायबीटीस'च्या रुग्णांना गोड दिलासा!

शिवाजी विद्यापीठातील प्राध्यापिकेचे संशोधन; पेटंटसाठी प्रस्ताव दाखल

राष्ट्रीय विज्ञानदिन विशेष

कोल्हापूर : प्रवीण मस्के

डायबीटीस झालेल्या रुग्णांसाठी बाजारात उपलब्ध काही औषधांमुळे शरीरावर परिणाम होत असल्याचे आढळून आले आहे. शिवाजी विद्यापीठातील प्रा. डॉ. माधुरी वाळवेकर यांनी संशोधन करून मेथीच्या बियांपासून मिळालेल्या ट्रायगोनेलिनपासून नॅनो पार्टिकल तयार केले. याच्या पेटंटसाठी प्रस्ताव दाखल केला आहे. त्यामुळे डायबीटीसच्या रुग्णांसाठी ही गोड दिलासादायक बातमी ठरणार आहे.

सध्याच्या धकाधकीच्या युगात बदलती जीवनशैली, जंकफूड, तणावामुळे हृदयरोग, डायबीटीसह अन्य आजार वाढत चालले आहेत. या रोगांवर औषधे उपलब्ध असली तरीदेखील रुग्णांसाठी संपूर्ण अशी उपचार पद्धती नसल्याचे दिसते. २८ फेब्रुवारी रोजी राष्ट्रीय विज्ञान दिन असून 'चूमेन इन सायन्स' अशी या वर्षाची थीम आहे. विद्यापीठातील प्राणिशास्त्र विभागातील सहायक प्राध्यापक डॉ. वाळवेकर गेली १५ वर्षे वेगवेगळ्या वनस्पतींपासून पान २ वर ▸

"नैसर्गिक पद्धतीने पिकविलेल्या फळे, भाज्यांचा वापर करावा. जेणेकरून डायबीटीससह अन्य आजार होणार नाहीत. विद्यापीठातील प्रयोगशाळेत कुरकुमिन व ट्रायगोनेलिनचे नॅनो पार्टिकल्स बनविण्यात आले आहेत. याचा उपयोग डायबीटीस आणि वार्धक्य रोखण्यासाठी नक्कीच होईल.

- डॉ. माधुरी वाळवेकर,
सहायक प्राध्यापक, शिवाजी विद्यापीठ

Save Animals Save Earth

Thank You!