

**Two Days Hands –on Workshop on  
“Bioinformatics for Life Sciences”**

**ORGANISED BY DEPARTMENT OF ZOOLOGY & FISHERIES**

**12&13<sup>th</sup> November 2019**

**A report on Two Days Hands -on Workshop on  
“Bioinformatics for Life Sciences”**

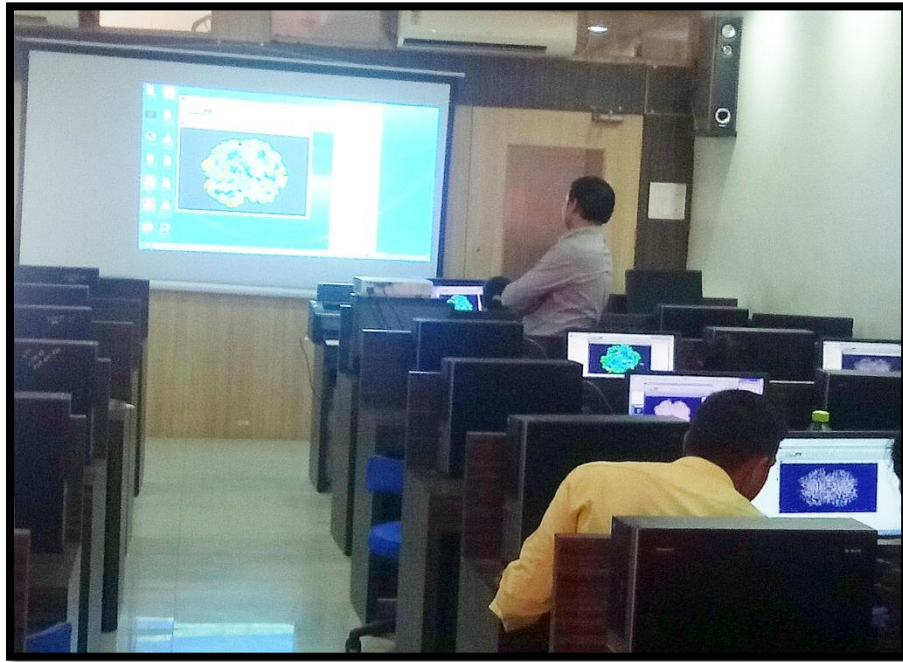
**12<sup>th</sup> & 13<sup>th</sup> November 2018-19**

A two day hands-on workshop on “Bioinformatics for Life Sciences” had been organized by Department of Zoology and Fisheries on 12<sup>th</sup> & 13<sup>th</sup> November 2018-19 . This workshop was arranged specially for students from Masters Course of Zoology as this topic was part of their curriculum and has wide applications the research field . So total no. of beneficiaries benefitted by this workshop was 40 which included 19 Msc Students and 21 teaching staff as a part of faculty training . The workshop was inaugurated by Hon. Vice Principal Dr. H.V Deshmukh , Dr. V. Y Deshpande introduced the Chief guest and Resource person Dr.Rahul A Jamdade specialist Research Associate ,from Sharjah Research Academy U.A.E, ,Then the coordinator of the workshop, Miss Bendre Neha explained the goals and schedule of the workshop to the Chief Guest and participants

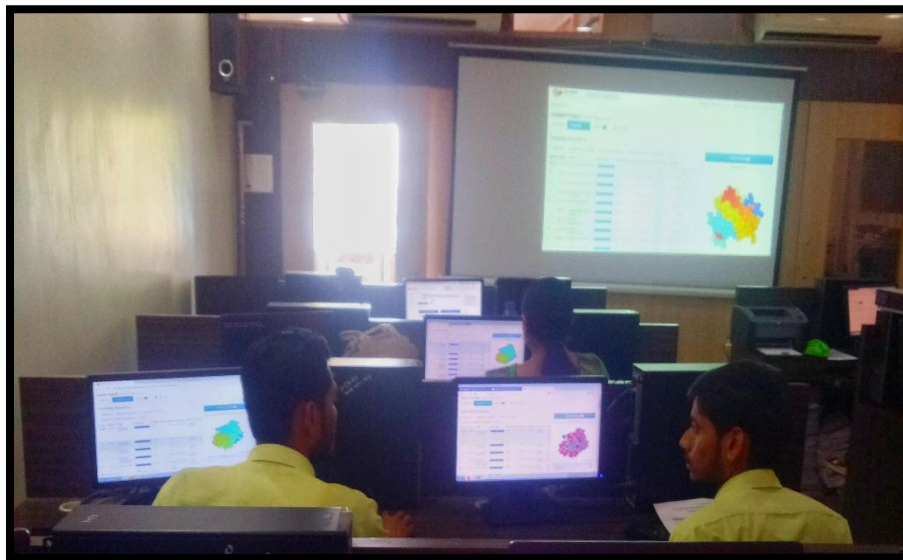


*Dr.Jamdade Rahul Delivering lecture on bioinformatics*

The workshop provided basic concept on bioinformatics and focused on utilization of recent tools to interpret rapidly expanding amount of biological information. The workshop included total 8 modules as given in the table below .The participants were introduced to DNA sequence analysis using different databases software on the first day. While on second day participants learned to Proteomics which included Secondary structure prediction using protein sequences through online servers and standalone tools.



*Students performing online modules on secondary structure prediction*



*Students performing online modules on proteomics*

Following Modules were taken for the workshop –

Day 1	Day 2
<b>Topics</b>	<b>Topics</b>
<b>Module 1. Online Databases-25 min (T)</b>	<b>Module 5. Multiple Sequence Alignment</b>
<b>NCBI &amp; Pubmed: 60 min (P) (4 examples)</b>	15 min (T); 30 min (P) (2 examples)
<b>Uniprot: 15 min (P) (1 examples)</b>	<b>Module 6. FASTA &amp; BLASTA</b>
<b>Uniprot: 30 min (P) (2 examples)</b>	25 min (T); 30 min (P) (2 examples)
<b>KEGG &amp; BRENDA: 10 min (T) 20 min (P) (1 example)</b>	<b>BREAK</b>
<b>Module 2 &amp; 3. Proteomics</b>	BLASTA: 15 min (P) (1 example)
<b>25 min (T) 80 min (P) (4 examples)</b>	<b>Module 7. Phylogenetic tree construction: 30 min (T) 40 min (2 examples)</b>
<b>Module 4. Pairwise Alignment</b>	<b>LUNCH BREAK</b>
<b>25 min (P) 45 min hands on (3 examples)</b>	Phylogenetics 40 min (2 examples)
	<b>Module 8. Genome Annotation (T)</b>

After successful completion of hands on workshop valedictory function was arranged in presence of all the participants and faculty members, chaired by Dr. Rahul Jamdade concluding the workshop; coordinator Neha Bendre expressed her views regarding the workshop and took the opportunity to collaborate with the Resource Persons for guiding the students of M.Sc .for their curricular projects.

Further, Dr.R.AJamdade expressed his views regarding the active participation of the participants, volunteers, supervisors and infrastructure facilities and also requested to extend the workshop more days. The participant students among M.Sc, Miss Jadhav Prajakta , Mr. Ketan Sankpal ,Mr.Pataskar Mandar expressed their views regarding the workshop. Concluding the function, Dr. V.Y Head Deshpande Head Dept. of Zoology expressed his views regarding the workshop. At the outset, this workshop was very fruitful for the students as well as for the faculties.



Rayat Shikshan Sanstha's  
**Yashvantrao Chavan**  
**Institute of Science,**  
**Satara**  
(Autonomous)



Department of Zoology

## **Certificate** **of Participation**

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*has successfully completed the two days hands-on workshop on  
"Bioinformatics for Lifesciences" organized by Department of  
Zoology in Yashvantrao Chavan Institute of Science Satara  
(Autonomous) on 12<sup>th</sup> & 13<sup>th</sup> November 2018-19 .*

  
**Miss Bendre N. N.**  
Co-ordinator

  
**Dr. Deshpande V.Y.**  
Head, Dept. of Zoology

  
**Dr. Kanade K.G.**  
Principal

*Congratulations*

RAYAT SHIKSHAN SANSTHA'S

# YASHAVANTRAO CHAVAN INSTITUTE OF SCIENCE, SATARA(Autonomous)

## TWO DAYS HANDS-ON WORKSHOP ON BIOINFORMATICS

M.Sc. II (ZOOLOGY)

Day 1 (12-11-18)		Day 2 (13-11-18)	
Time	Topics	Time	Topics
10:00 AM to 11:40 AM	Module 1. Online Databases 25 min (T) NCBI & Pubmed: 60 min (P) (4 examples) Uniprot: 15 min (P) (1 examples)	10:00 AM to 10:45 AM	Module 5. Multiple Sequence Alignment 15 min (T); 30 min (P) (2 examples) Module 6. FASTA & BLASTA 25 min (T); 30 min (P) (2 examples)
11:40 AM to 12:00 AM		BREAK	
12:00 PM to 1:30 PM	Uniprot: 30 min (P) (2 examples) KEGG & BRENDA: 10 min (T) 20 min (P) (1 example)	12:00 PM to 12:20 PM 12:20 PM to 1:30 PM	BLASTA: 15 min (P) (1 example) Module 7. Phylogenetic tree construction: 30 min (T) 40 min (2 examples)
1:30 PM to 2:15 PM		LUNCH BREAK	
2:15 PM to 4:00 PM	Module 2 & 3. Proteomics 25 min (T) 80 min (P) (4 examples)	2:15 PM to 2:55 PM 3:00 PM to 4:00 PM	Phylogenetics 40 min (2 examples) Module 8. Genome Annotation (T)
4:00 PM to 4:20 PM	Module 4. Pairwise Alignment	BREAK	
4:20 PM to 5:30 PM	25 min (P) 45 min hands on (3 examples)	4:20 onwards	Valedictory




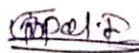
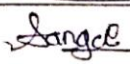
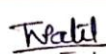
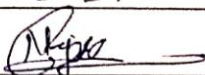
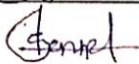

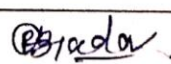

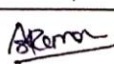
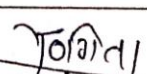
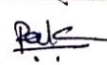
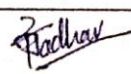
P.G. Department of Zoology

A two days hands- on workshop on

**"Bioinformatics"**

Date -12 &13 November 2018

Attendance Sheet

Sr.no.	Name of Student	Signature
1)	Pataskar Mandar Prakash	
2)	Ingale Gopal Bhauso	
3)	Sangar Trupti sunil	
4)	Patel Tejaswini Nivas	
5)	Hujare Naina Namdev	
6)	Bankal Ketan Satish	
7)	Pawar Amita Shrimant	
8)	Yadav Pranali Bujerang	
9)	Jagtap snehal chandrakant	
10)	Roman Anuradha suresh.	
11)	Mane Yogita Bhimabau	
12)	Kapurkar Pooja Ananda	
13)	Jadhav Prajakta Pratap	



Rayat Shikshan Sanstha's  
Yashwantrao Chavan Institute of Science, Satara  
Department of Zoology & Fisheries  
Two Day Workshop (12<sup>th</sup>-13<sup>th</sup> Nov. 2018)  
Bioinformatics for Life Sciences

**STUDENTS FEEDBACK**

Date: 13/11/2018

Name: Patil Snehal Dinkar  
Address: A/p. Karad, Malkapur  
Tal - Karad, Dist - Satara

Phone No.: 7120901312

Email: snehalpatil369691@gmail.com

Sr no	Opinion on	Suggestions
1	Skill of the expert	Excellent
2	Presentation of the expert	Excellent
3	Organization of the workshop	organization of the workshop was better
4	Views on Hands on training	This type of workshop is very important & useful for understand to the topics.
5	Use of this workshop	getting new idea for our project work & research work.
6	Outcome of the workshop in relation to syllabus	it is very important for future perspectives.
7	Future prospective	This type of workshop should be repeated.
8	Changes if any	It should be organize long period.
9	Any suggestions other than above	Workshop is very useful. so workshop should be conducted for. 2 month.

Place: Satara

  
Student Signature