

Date : 5/9/22

To,
The Principal,
Tuljaram Chaturechand College of Arts, Science and Commerce, Baramati.

Subject: Permission to arrange three days "Hands on" training programme of Bioinformatics for T. Y. B. Sc and M. Sc II students" under ED cell of RUSA grants on 6, 7 and 8th Sept. 2022

Respected Sir,

We are willing to organize four days "Hands on training programme of Bioinformatics for T. Y. B. Sc and M. Sc II students" under ED cell of RUSA grants. Under this workshop we are going to organize lecture and practical session on the different software's used in bioinformatics. The details of training programme are attached herewith for your kind perusal. Kindly permit us for the same.

Expenditure details: 10500/- (Honorarium) + 3000/- (Hospitality)

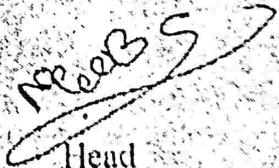
Other expenses: 4000/- (certificates, Banner.)

Thanking You


Co-ordinator


ED cell
Chairman


RUSA
Co-ordinator


Head
Department of Botany

Recommended
to organize
under
ED Cell

5/9/22

Anekant Education Society's
Tuljaram Chaturehand College of Arts, science and Commerce, Baramati
Organizing
Three Days Workshop on Bioinformatics
Under ED cell of RUSA

DAY 1

- Theory session:
 - A) Basics of bioinformatics
 - B) Markers used in bioinformatics
- Practical session
 - A) .ab1 file cleaning (Chromas software)
 - B) .ab1 file to FASTA file
 - C) NCBI BLAST N
 - D) Upload sequence to NCBI

DAY 2

- Theory session
 - A) Databases in bioinformatics: National Center for Biotechnology Information (NCBI), Barcode Of Life Data System (BOLD), Mouse Genome Database (MGD) etc.
 - B) Methods of tree building: Distance based methods and Character-state approach
 - C) Multiple alignment Tools: CLUSTAL W, MUSCLE
 - D) Selection of substitution model (Smart Model Test)
- Practical session
 - A) CLUSTAL W, MUSCLE
 - B) Construction of MEGA tree and analysis of tree
 - C) RAXML

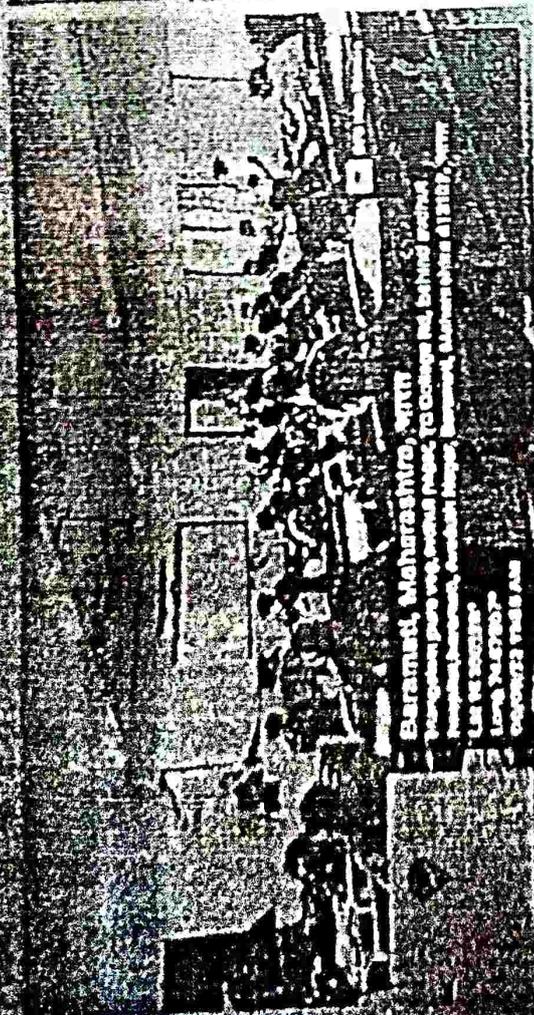
DAY 3

- Theory session
 - A) Multiple alignment Tools: CLUSTAL W, MUSCLE
 - B) Selection of substitution model (SMS: Smart Model Test)
 - C) Visualization of tree by using FigTree, iTOL etc.
 - D) Frequently Asked Question (FAQ)
 - Practical session
 - A) FigTree
 - B) iTOL
 - C) Final tree for publication
- Software: MEGA, RaxML, Chromas
Online portal: NCBI, iTOL, SMS

Tuljaram Chaturchand College of Arts, Science and Commerce, Baramati
 (Autonomous)
 P. G. Department of Botany
 Organizes

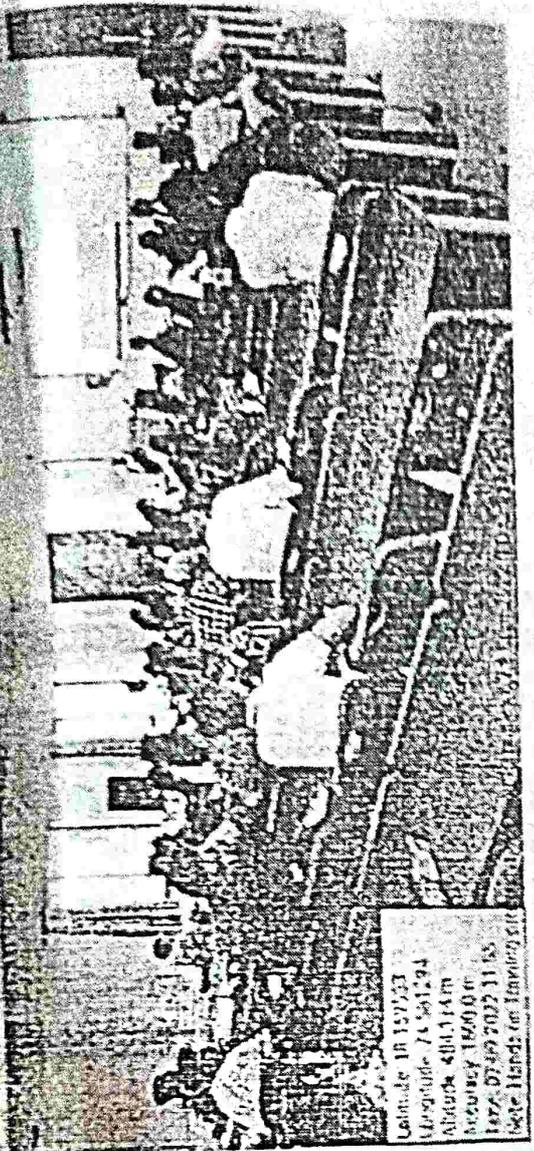
Three Days Hands on Training Programme on Bioinformatics
 (6th to 8th Sept. 2022)
 Under the ED cell of RUSA scheme
 ATTENDANCE

Sr. No.	Name of Student	Class	Theory	Practical	Theory	Practical	Theory	Practical	08/09/2022
23	Ligade Komal Sambhaj	M.Sc-II	Ab						
24	Shinde Bhagyashri Rajendra	M.Sc-II	B. P. Shinde						
25	Tejare Manisha Rajesh	M.Sc-II	Pravara						
26	Ramdas Nikhil Nikhil	M.Sc-II	N. H. Ramdas						
27	Sarode Alisha	M.Sc-II	Shinde						
28	Shinde Shikha Shikha	M.Sc-II	Shinde						
29	Lonkar Srushti Dada	M.Sc-II	Lonkar						
30	Shinde Shikha	M.Sc-II	Shinde						
31	Jadhav Pradip Gokul	M.Sc-II	Gulhargi	Ab	Gulhargi	Ab	Gulhargi	Ab	Gulhargi
32	Mhore Siddhant S.	M.Sc-II	Shinde						
33	Karve Nikita V.	M.Sc-II	Pravara	Ab	Pravara	Ab	Pravara	Ab	Pravara
34	Maheshwari Disha	M.Sc-II	Pravara						
35	Ramdas Pratik S.	M.Sc-II	Pravara						
36	Chavan Geeta	TY BSc	Ab						
37	Shinde Pradip	TY BSc	Ab						
38	Rait Chardelha	M.Sc-II	Ab						
39	Gaikwad Tanuja B.	M.Sc-II	Ab						
40	Mali Priyanka Anil	M.Sc-II	Ab						
41	Karve Akanksha	TY BSc	Ab						
42	Gaikwad Rutuja	TY BSc	Ab						



Inaugural Function
Baramati, Maharashtra, with
participants from various parts of the college and behind the
inaugural function, Baramati, Maharashtra & 1988.
L. S. Patil
L. S. Patil
L. S. Patil

Inaugural Function

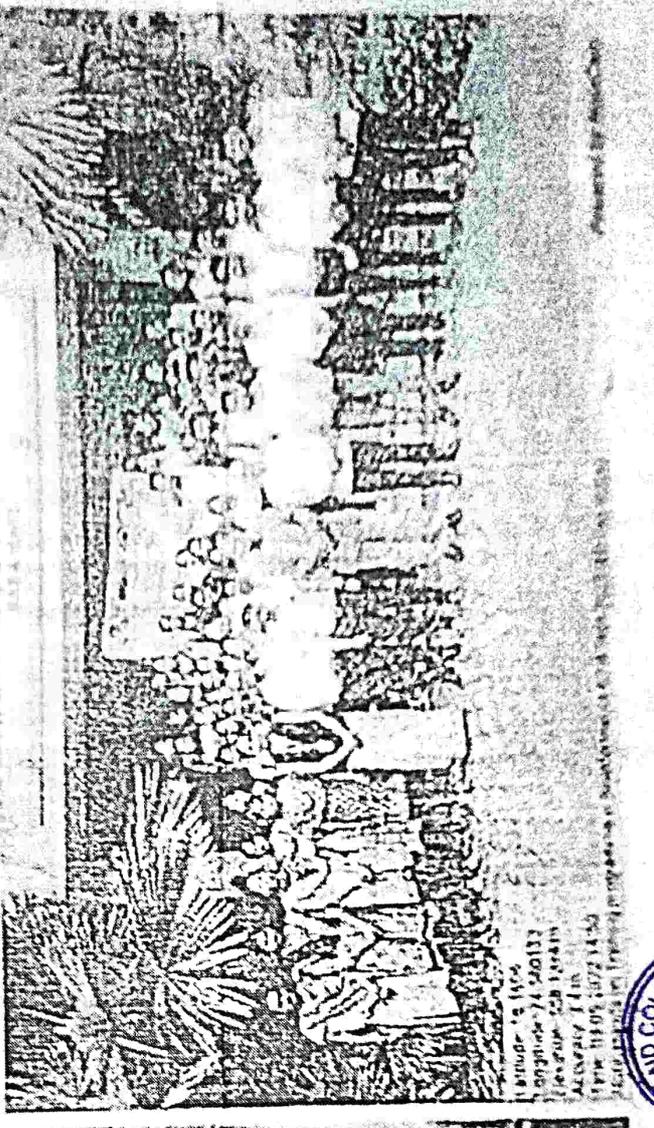


Theory Session
L. S. Patil
L. S. Patil
L. S. Patil

Theory Session



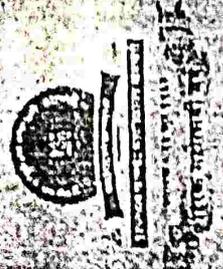
Practical Session



Group Photo



Practical Session



Anekant Education Society's

Tuljaram Chaturchand College of Arts, Science and Commerce, Baramati

Autonomous, NAAC Accredited: A+, CGPA 3.55 ISO 9001 - 2015, Green Audit Certified, Religious Minority Institute

Department of Botany

This is to certify that Mr./Ms./Mrs..... has actively participated in One Day Workshop on "Three Days Hands on Training Programme in Bioinformatics" organized by Department of Botany, Tuljaram Chaturchand College of Arts, Science and Commerce, Baramati (Autonomous) under ED Cell of RUSA Scheme from 06 to 08 September, 2022.

[Signature]

Dr. M. P. Patil
Coordinator

[Signature]

Prof. Dr. B. S. Mali
HOD Botany

[Signature]

Prof. Dr. V. C. Kokate
Chairman of ED Cell

[Signature]

Dr. R. T. Sapat
RUSA Co-ordinator

[Signature]

Dr. C. V. Nigam
Principal

To,
The Principal,

Date: 24/9/22

Tuljaram Chaturehand College of Arts, Science and Commerce, Baramati.

Subject: Report of "3days Hands on training programme in Bioinformatics" under ED cell of RUSA.

Respected Sir,

With your kind permission and sanction, we have organized "3days Hands on training programme in Bioinformatics" under ED cell of RUSA from 6th to 8th September, 2022.

The programme was inaugurated by Prin. Dr. C. V. Murumkar. Training programme divided into theory and hands on session. In three days programme Mr. Ranjit More from, Indapur College, Indapur focused on basics in bioinformatics, markers used in Bioinformatics. In hands on session they taught use of different softwares for multiple alignment like CLUSTAL - W, MUSCLE, MEGA and ITOL. Where students come to know Construction of MEGA tree and analysis of tree by using softwares.

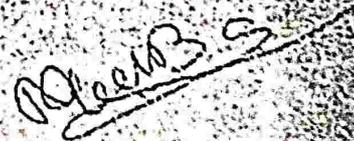
On third day of workshop we have arranged quiz competition for students. First three winners of competition are

- 1) Supekar Snehal
- 2) Shinde Nisha
- 3) Shinde Bhagyashri, Kadam Vidya, Gore Nitin

The workshop is helpful to students to analyze the DNA sequences obtained by isolation and purification from plants. Total 40 students benefited from the workshop. We are very much grateful to you for your kind permission and sanction.

Thanking you.

Yours Faithfully,



Prof. Dr. Bhagnawan S. Mali
Head
Department of Botany


Dr. M. P. Patil
Co-ordinator


M. P. Patil
Co-ordinator