

Date : 5/9/22

To,
The Principal,
Tuljaram Chaturehand 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.

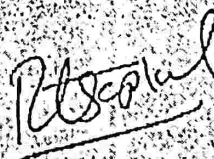
Expenditure details: 10500/- (Honorarium) + 3000/- (Hospitality)

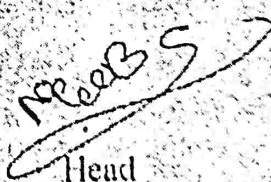
Other expenses: 4000/- (certificates, Banner.)

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 Commere, 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

Three Days Hands on Training Programme on Bioinformatics

(6th to 8th Sept. 2022)

Under the ED cell of RUSA scheme

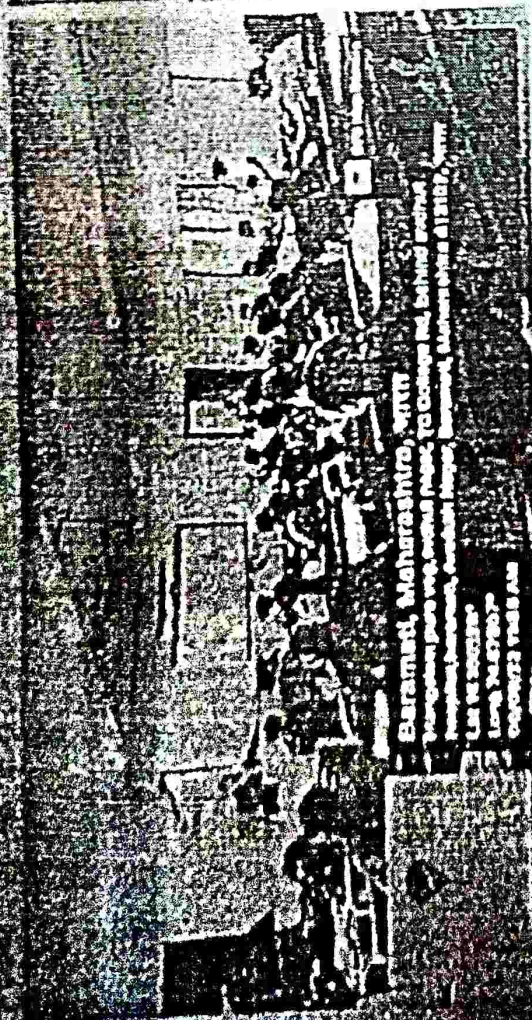
ATTENDANCE

Theory / Practical Session: 9:00 to 11:00 a.m. / 11:30 to 1:00 pm

Theory / Practical Session: 9.00 to 11.00 a.m./ 11.30 to 1.00 pm						
Sr. No.	Name of Student	Class	06/09/2022	07/09/2022	08/09/2022	
			Theory	Practical	Theory	Practical
23	Ligade Komal Sambhaj	M.Sc-II	Ab	Ab	Ab	Ab
24	Shinde Bhagyashri Rajendra	M.Sc-II	B. R. Shinde	B. R. Shinde	B. R. Shinde	B. R. Shinde
25	Tejane Manojda Rajendra	M.Sc-II	Pravara	Pravara	Pravara	Pravara
26	Ramdas Nikita Nikita	M.Sc-II	N. H. Ramdas	N. H. Ramdas	N. H. Ramdas	N. H. Ramdas
27	Sarode Alisha K.	M.Sc-II	Shinde	Shinde	Shinde	Shinde
28	Shinde Shikha Shikha	M.Sc-II	Shinde	Shinde	Shinde	Shinde
29	Lonkar Srushti Dada	M.Sc-II	Lonkar	Lonkar	Lonkar	Lonkar
30	Lonkar Srushti Dada	M.Sc-II	Shinde	Shinde	Shinde	Shinde
31	Jadhav Pradip Gokul	M.Sc-II	Shinde	Shinde	Shinde	Shinde
32	Mare Siddhanth S.	M.Sc-II	Shinde	Shinde	Shinde	Shinde
33	Karve Nikita V.	M.Sc-II	Pravara	Pravara	Pravara	Pravara
34	Mahe Dhananjay Dhananjay	M.Sc-II	Pravara	Pravara	Pravara	Pravara
35	Ramdas Pratik S.	M.Sc-II	Pravara	Pravara	Pravara	Pravara
36	Chavan Geeta	Ty BSc	Ab	Ab	Ab	Ab
37	Shinde Pratik	Ty BSc	Ab	Ab	Ab	Ab
38	Rat Chaudhary	M.Sc-II	Ab	Ab	Ab	Ab
39	Gaikwad Tanuja B.	M.Sc-II	Ab	Ab	Ab	Ab
40	Mali Priyanka Anil	M.Sc-II	Ab	Ab	Ab	Ab
41	Lonkar Akanksha Vy.	Ty BSc	Ab	Ab	Ab	Ab
42	Gajgade Rutuja	Ty BSc	Ab	Ab	Ab	Ab

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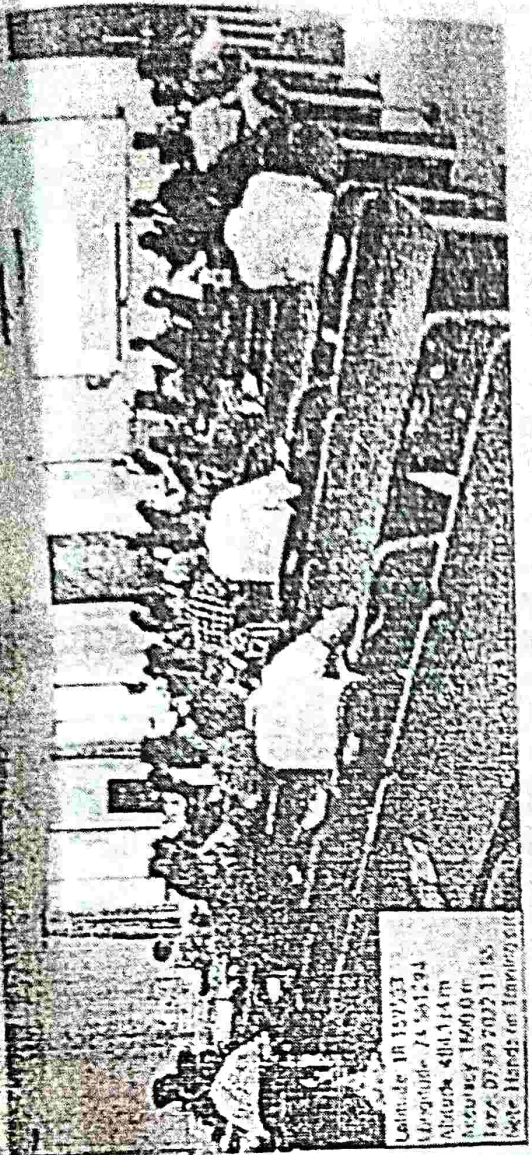
Sr. No.	Name of Student	Class	06/09/2022		07/09/2022		08/09/2022	
			Theory	Practical	Theory	Practical	Theory	Practical
43								
44	Shilpa Shital	Ty BSC						
45	Shilpa Shital	Ty BSC						
46	Shilpa Shital	Ty BSC						
47	Shilpa Shital	Ty BSC						
48	Shilpa Shital	Ty BSC						
49	Shilpa Shital	Ty BSC						
50	Shilpa Shital	Ty BSC						
51	Shilpa Shital	Ty BSC						
52	Shilpa Shital	Ty BSC						



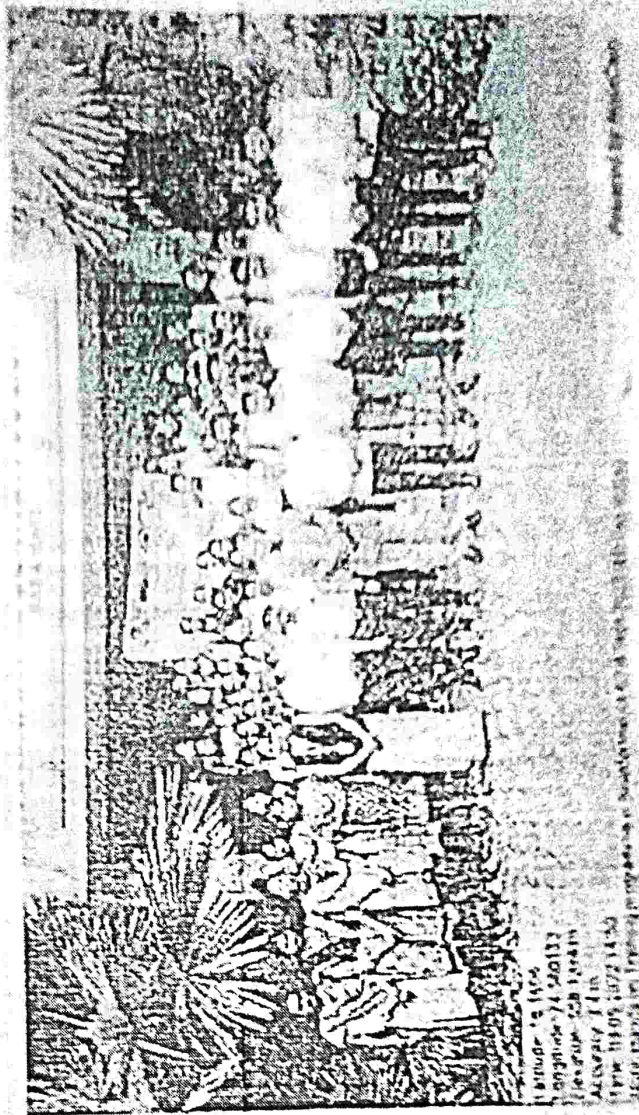
Inaugural Function



Practical Session

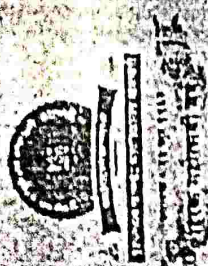


Theory Session



Group Photo





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.

Dr. S. P. Patil
Co-ordinator

Prof. Dr. B. S. Mali
HOD Botany

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

Dr. R. T. Sargal
RUSA Co-ordinator

Dr. C. V. N. N. N.
Principal

To,
The Principal,

Date: 24/3/22

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.

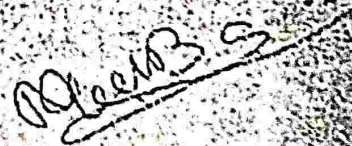
On third day of workshop we have arranged quiz competition for students. First three winners of competition are

- 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



Dr. M. P. Patil
Co-ordinator