



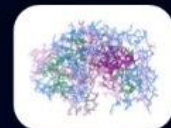
# SETHU INSTITUTE OF TECHNOLOGY

An Autonomous institution, Accredited with 'A' grade by NAAC  
(Affiliated to Anna university, Chennai and approved by AICTE-NEW DELHI)  
Pulloor, Kariapatti, Virudhunagar district.

## Department of Biotechnology



*Proudly presents*



**One Week Workshop on**

## **Design of Experiments and Basic Tools in Bioinformatics**

Resource Person

**Dr. V. C. Padmanaban**

Assistant Professor, Department of Bioengineering,  
National Institute of Technology, Agartala, Tripura, India



**Target Audience: III & II year Biotechnology Students**

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### CONVENOR

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HOD (i/c) / BT

### CO-ORDINATORS

**Dr.S.Mariaamalraj, ASP/BT**

**Dr. V. Shunmuga priya, ASP/BT**

### COMMITTEE MEMBERS

**Er. S Vishnuprasad, AP/BT**

**Er.V.Surya, AP/BT**

**Er.PL.Praveena, AP/BT**

**Dr. P. David Annaraj, AP/BT**



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(Recognized by UGC under section 2(f) & 12 (B) of UGC Act, 1956)

Pulloor, Kariapatti - 626115,  
Virudhunagar District, Tamil Nadu, India.



### DEPARTMENT OF BIOTECHNOLOGY WORKSHOP REPORT

The Department of Biotechnology organized a One-week workshop on “**Design of Experiments and Basic Tools in Bioinformatics**”. The **workshop** was held from **09.01.2023 to 13.01.23**, at Sethu Institute of Technology. Totally **64 Students** of II-year and III-year from Department of Biotechnology attended the Workshop. The resource person for the workshop are **Dr.V.C.Padmanaban**, Assistant Professor, Department of Bioengineering, National Institute of Technology, Agartala, Tripura, India and the **faculty members Dr. V. Shunmuga Priya Associate Professor/BT, Dr. P. David Annaraj, AP/BT, Dr.S.Mariaamalraj, ASP/BT, Er.S. Vishnu prasad, AP/BT, Er. R Nageshwari, HoD/BT.**

Dr.V.C.Padmanaban and the faculty members of the department conducted the sessions as scheduled below. The students have wonderful experience in learning the basic tools in Bioinformatics and they were trained to design experiments. At the end of the session the students were asked to identify a problem statement and design the experiment using the tools of Bioinformatics. Our students got benefited from the workshop by the resource person from NIT, Agartala and the internal faculty members from Department of Biotechnology, Sethu Institute of Technology.

#### PROGRAM SCHEDULE

Day 1		
BATCH - 1	BATCH - 2	Time
<b>Session 1:</b> Introduction to Design of Experiments. Resource Person: Dr. V.C. Padmanaban, Assistant Professor, NIT Agartala.	<b>Session 1:</b> Basic Tools in Bioinformatics Resource Person: Dr. V. Shunmuga Priya ASP/BT, Sethu Institute of Technology	10.00 AM to 11.10 AM
Tea Break		11.10 AM to 11.30 AM
<b>Session 2:</b> Statistical modelling for Bioprocessing.Resource Person: Dr. V.C. Padmanaban, Assistant Professor, NIT Agartala	<b>Session 2:</b> Exploring databases Resource Person: Dr.P.David Annaraj, AP/BT, Sethu Institute of Technology	11.30 AM to 1.00 PM
Tea Break		
<b>Session 3:</b> Practical Session Resource Person: Dr. V.C. Padmanaban, AssistantProfessor, NIT Agartala; Dr.S.Mariaamalraj, ASP/BT	<b>Session 3:</b> Practical Session Resource Person: Dr. V. Shunmuga Priya,ASP/BT and Dr. P. David Annaraj, AP/BT, SethuInstitute of Technology	2.00 PM to 4.00 PM

<b>Day 2</b>		
<b>Session: 4:</b> Design of Experiments: introduction Resource Person: Dr. V.C. Padmanaban, Assistant Professor, NIT Agartala	<b>Session: 4:</b> Basic tools in Bioinformatics Resource Person: Dr. V. Shunmuga Priya ASP/BT, Sethu Institute of Technology	10.00 AM to 11.10 AM
Tea Break		11.10 AM to 11.30 AM
<b>Session 5:</b> Basic Optimization tools Resource Person: Dr. V.C. Padmanaban, Assistant Professor, NIT Agartala	<b>Session 5:</b> Explore Databases Resource Person: Dr. P. David Annaraj AP/BT, Sethu Institute of Technology	11.30 AM to 1.00 PM
Lunch		1.00 PM to 1.45 PM
<b>Session 6:</b> Practical Session Resource Person: Dr. V.C. Padmanaban, Assistant Professor, NIT Agartala Dr. S. Mariaamalraj, ASP/BT, Sethu Institute of Technology	<b>Session 6:</b> Practical Session Resource Person: Dr. V. Shunmuga Priya, ASP/BT, Dr. P. David Annaraj, AP/BT, Sethu Institute of Technology	1.45 PM to 4.00 PM
<b>Day 3</b>		
<b>Session: 7:</b> Components of Research Articles, Basics of Literature Survey, Citation Resource Person: Dr. S. Mariaamalraj, ASP, Sethu Institute of Technology		10.00 AM to 11.10 AM
Tea Break		11.10 AM to 11.30 AM
<b>Session 8:</b> How to do research article search and literature survey? Resource Person: Er.S. Vishnu prasad, AP/BT, Sethu Institute of Technology		11.30 AM to 1.00 PM
Lunch		1.00 PM to 1.45 PM
<b>Session 9:</b> Practical session Resource Person: All Biotech Department Faculty		2.00 PM to 4.00 PM
<b>Day 4</b>		
<b>Session 10:</b> How to write proposal to Idea contest, Start up Resource Person: Er. R Nageshwari, HoD/BT, Sethu Institute of Technology		10.00 AM to 11.10 AM
Tea Break		11.10 AM to 11.30 AM
<b>Session 11:</b> How to write research articles Resource Person: Dr. P. David Annaraj AP/BT		11.30 AM to 1.00 PM
Lunch		1.00 PM to 1.45 PM
<b>Session 12:</b> Practical Session Resource Person: All Biotech department faculty		2.00 PM to 4.00 PM
<b>Day 5</b>		
<b>Session 13:</b> Practical Session Students are asked to search a problem statement and write a proposal for the idea proposed. Resource Person: All Biotech department faculty		10.00 AM to 12.00 AM

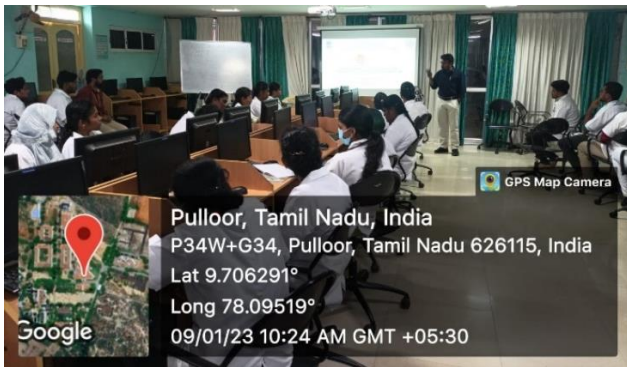
## LIST OF PARTICIPANTS

S.NO	NAME OF THE ATTENDEE	YEAR	09.01.23	10.01.23	11.01.23	12.01.23	13.01.23
1	ABDUL MALICK J	III					
2	ABINESH KARTHICK M	III					
3	AGNAS PRINCILIN V	III					
4	AKSAYARAGADHARSINY S	III					
5	ASHA RANI M	III					
6	ASHAMUBARCINA M	III					
7	DANIEL SOUNDAR A R	III					
8	DOSTH MOHAMED M	III					
9	GANISH PRASANNA MG	III					
10	GAYATHRI J	III					
11	HESIKA L	III					
12	INDHUMATHI M	III					
13	JANANI M	III					
14	JENITTA J	III					
15	KANIMOZHI R	III					
16	MADHAVI M	III					
17	MANORANJAN A	III					
18	MOHAMED RIFAZ B	III					
19	MOHAMMED MANAZ P	III					
20	NAGARJUN K	III					
21	NANDHINI MURUGESH M	III					
22	NANDHINI S	III					
23	NITHYA C	III					
24	PREETHI SHARON J	III					
25	PREETHIGA K	III					
26	SASI SANTHIYA C	III					
27	SHRIVESH KISAN B R	III					
28	SHYAM SUNDAR D	III					
29	SIKKANDHAR M	III					
30	SUJITHA S	III					
31	THASLEEM KOWTHAR H	III					
32	APARNA S	II					
33	AROCKIYA VERONIKA K	II					
34	AZNA U	II					
35	BALAJI V	II					
36	CHAITHANYA T	II					
37	FATHIMA N	II					
38	GOKUL SHRIMAN R	II					
39	HARINI VALLI S	II					
40	MALIKA JAHAN J	II					
41	M.JAYASHREE M	II					
42	KALEESWARI P	II					
43	KAMALESH K	II					
44	KAVERI S	II					
45	KERUUTHIGA MEENAKSHI C	II					
46	MADHUMITHA P	II					
47	MANOHAR S	II					
48	MOHAMED SABICK M	II					
49	NAVEEN MUTHUKUMAR G	II					
50	NISHANTHINI K	II					
51	SARA BANU S	II					
52	SHREYA K	II					
53	SREENITHI K	II					
54	SUSHMITHA S	II					
55	TANUSRI POONKUNDRAN	II					
56	THANGA ASHOK P	II					

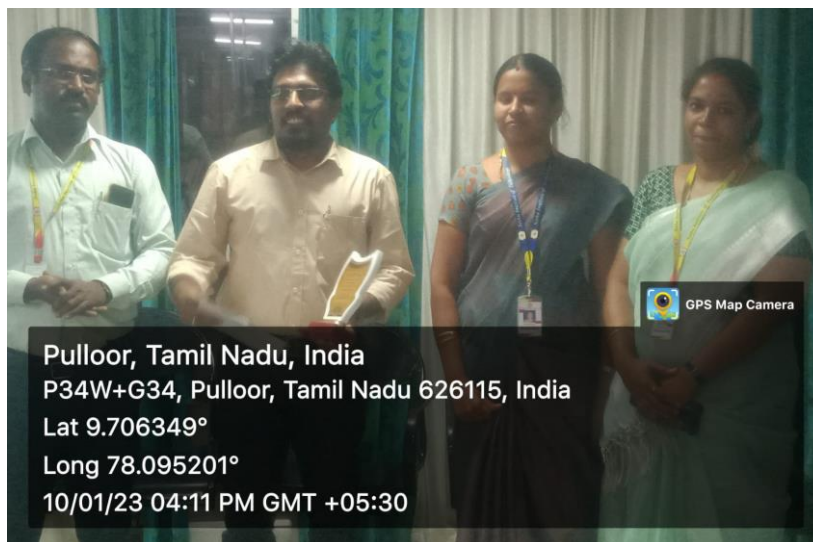
57	UMAIYAR KABIL KUMAR S	II					
58	VAISHNAVI DEVI T S	II					
59	VEDHA VARDHINI S	II					
60	VIGNES KUMAR V	II					
61	VIJAY AADITHYA C	II					
62	VISHNU PRIYAN P	II					
60	APARNA S	II					
61	AROCKIYA VERONIKA K	II					
62	AZNA U	II					
63	BALAJI V	II					
64	CHAITHANYA T	II					



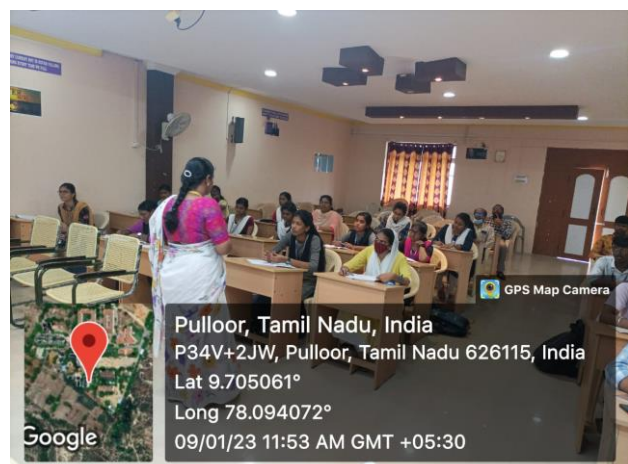
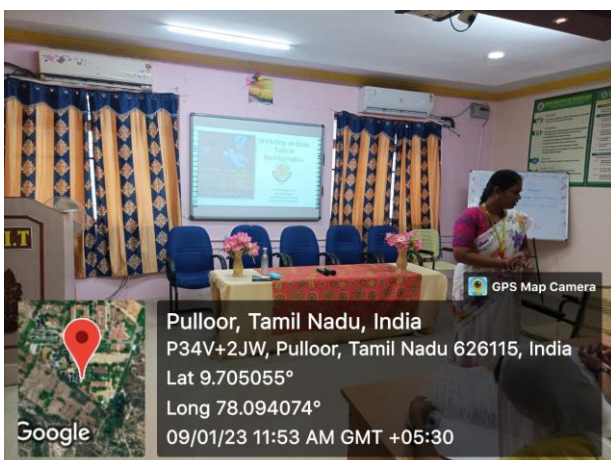
## PHOTOS OF WORKSHOP



**Training given by Dr.V.C.Padmanaban to II-Year and III-Year students**



**Honouring the Chief Guest by Head of the Department**



**Training given by Dr.V.Shunmuga Priya to II-Year and III-Year students**