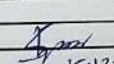


Add on Course

Certificate Course on Recombinant DNA Technology

MEETING RESOLUTION BOOK			
Serial No. of Meeting: 26		Date of Meeting: 22.12.2023	
Venue of Meeting: Research Lab MBBT Dept.		Time of Meeting: 2.30 PM	
Name of Members Present			
1	Abhishek Basm	9	17
2	Devi M. Das	10	18
3	Harsh Bhasin	11	19
4	Priya Potluri	12	20
5		13	21
6		14	22
7		15	23
8		16	24
RESOLUTIONS ADOPTED			
Notice for Meeting			
A departmental meeting is convened on 22 nd of December, 2023 at 02:00 pm in the departmental research lab to discuss about the followings.			
i) Internal Assessment			
ii) Result Analysis of 4 th Sem B.Sc. Honours.			
iii) Departmental educational tour.			
iv) Add on Course on RDT			
 15.12.23		Abhishek Basm 15/12/2023 Head and Assistant Professor dept. of Molecular Biology & Biotechnology Sri Satguru College Jagatpur, Murshidabad	

RESOLUTIONS ADOPTED	
Serial No.	
Resolution	
1.	4 th SEM B.Sc. Hons. result was as per expectation. Where two students scored more than 8.0 CGPA. & two students scored more than 7.5 CGPA.
2.	Internal assessments (100%) for all the semester Hons. & major students are completed. For PGCs the assignments will be conducted by 1 st week of January.
3.	Departmental Educational tour will be organized to study the diversity in high altitudinal vegetation.
4.	A mentor mentee list for individual teachers will be prepared and submitted to IQAC.
5.	An Add on Course on Recombinant DNA Technology will be conducted.
Abhishek Basm 22/12/2023 Head and Assistant Professor dept. of Molecular Biology & Biotechnology Sri Satguru College Jagatpur, Murshidabad	

Meeting resolution for conduction of Add on Course on RDT



Course Details

- **Course Name:** Recombinant DNA Technology
- **Course Type:** Certificate
- **Course Duration:** Six Weeks (35 hours)
- **Eligibility Criteria:** Honours in MBBT, Botany, Zoology with basic knowledge of Molecular Biology
- **Intake Capacity:** 20
- **Intake Method:** First Come First Serve
- **Starting Date:** 17 January 2024
- **Course End Date:** 28 February 2024
- **Class Time:** 10:00 am - 11:00 am
- **Last Date for Registration:** 15 January 2024
- **Venue:** Department of Molecular Biology & Biotechnology

About Us

Established in 1982, Sripat Singh College's Molecular Biology and Biotechnology Department stands as the exclusive institution in Murshidabad dedicated to cultivating expertise in this field. With a comprehensive range of courses, including an honors program initiated in 2004, the department has seamlessly transitioned to the Semester system under CBCS since 2018-19. Affiliated with the esteemed University of Kalyani, our students consistently achieve top ranks, paving the way for advanced studies in renowned institutions such as IIT, IISER, JNU, CU, JU, and more.



Course Coordinator:
Ms. Debjani Mandal, M.Sc.,
Assistant Professor
Department of Molecular Biology & Biotechnology, Sripat Singh College



Joint Course Coordinator:
Dr. Abhishek Basu, M.Sc., PhD
Assistant Professor
Department of Molecular Biology & Biotechnology, Sripat Singh College

Course administrator
Mr. Shyam Sundar Sett
9874128666
[Registration link](https://forms.gle/MAT2mHZWr6xL7zXB8)
<https://forms.gle/MAT2mHZWr6xL7zXB8>

Certificate Course on Recombinant DNA Technology



Organised by: Department of Molecular Biology & Biotechnology in collaboration with IQAC & Career Development Counselling & Placement Cell of Sripat Singh College

An Add on Course on the topic ‘Recombinant DNA Technology’ was conducted by the Department of Molecular Biology and Biotechnology. Twenty one students from different departments, like Zoology, Botany and Molecular Biology and Biotechnology, registered in the course.

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	A	B	C	D	E	F	G	H	
1	Timestamp	Name	Semester	Department	Year	Email	Mobile Number	WhatsApp Number	Join group
2	1/12/2024 17:43:24	Barnali Bojapayee	5th semester	MBBT	2023-24	barnali.bojapayee@gmail.com	7478297586	7478297586	
3	1/12/2024 17:44:37	Shiladitya Biswas	3rd semester	MBBT	2023-24	shiladityabiswas22@gmail.com	9832200295	9832200295	
4	1/12/2024 17:44:49	Shrabani Haidar	5th	MBBT	2023-24	shrabani.algola@gmail.com	9883801764	9883801764	
5	1/12/2024 17:44:54	Dipan Singha	5th Semester	MBBT	2023-24	singhadipanj999@gmail.com	6295742348	6295742348	
6	1/12/2024 17:45:30	BISWARUP NANDI	3RD SEMESTER	MBBT	2023-24	okbiswarupnandi@gmail.com	8927944607	8927944607	Joined
7	1/12/2024 17:45:47	Prongamta Saha	3rd semester	MBBT	2023-24	pmsaha23@gmail.com	8001172283	8001172283	
8	1/12/2024 17:46:01	SUBHAM DAS	5th semester	MBBT	2023-24	subhamdas2728@gmail.com	7029392728	7029392728	
9	1/12/2024 17:46:10	Soham Das	3rd semester	MBBT	2023-24	sohamd589@gmail.com	7602756449	7602756449	
10	1/12/2024 17:46:41	Nirmalya Sarkar	3rd	MBBT	2023-24	sarkamnirmalya007@gmail.com	9832873118	9832873118	
11	1/12/2024 18:31:08	Mouli Ghosh	3rd Semester	MBBT	2023-24	ghoshmouli780@gmail.com	7797747284	7797747284	
12	1/15/2024 12:34:11	SURAJIT HALDAR	3rd SEMESTER	Botnay	2023-24	srllegond99@gmail.com	8391909794	8391909794	
13	1/15/2024 14:34:54	Faizul Hoque	3rd semester	Botnay	2023-24	hoquetuhin360@gmail.com	9636318115	9636318115	
14	1/15/2024 21:51:09	Nilesh Karmakar	3rd	Zoology	2023-24	nileshkarmakar51@gmail.com	9932847593	9932847593	Yes
15	1/15/2024 21:54:27	ANISUZZAMAN	3rd	Zoology	2023-24	anisuzzamanrohit@gmail.com	8759206547	8759206547	Joined
16	1/15/2024 22:18:01	Bidisha Das	5th semester	Zoology	2023-24	bidishadas255@gmail.com	8371833416	8371833416	
17	1/15/2024 22:18:12	Arian Hoque	3rd	Zoology	2023-24	arianhoque600@gmail.com	6296259089	6296259089	Joined
18	1/15/2024 23:23:26	Tamanna Islami	3rd semester	Botnay	2023-24	tamanna.islamig2021@gmail.com	9064374128	8327305427	
19	1/15/2024 23:28:36	Nikita Ghosh	3rd semester	Zoology	2023-24	nikitaghosh120@gmail.com	7585032830	7585032830	
20	1/15/2024 23:42:44	Sayan Gupta	3rd	Zoology	2023-24	sayangupta29@gmail.com	9339747981	9339747981	

Students registered in the course

Course- Recombinant DNA Technology

Course code: RDT 01

Offered by: Department of Molecular Biology and Biotechnology, Sripat Singh College

Course Instructor: Ms. Debjani Mandal and Dr. Abhishek Basu

Course Structure: Theory (20 hour) + Practical (15 hour)

Course Duration: 6 Week

Mode of Instruction: Blended mode

Mode of Evaluation: Course End Examination + Participation in Practical Classes

Syllabus

Module I

10 hour

Restriction Enzymes and Restriction Modification System, Type of Vectors, Cloning and Expression hosts, Gene cloning, Transformation and Protein expression, Use of Selection Marker

Module II

10 hour

Gel electrophoresis- Agarose and Polyacrylamide Gel Electrophoresis, Southern blot, Northern blot, DNA Fingerprinting, Polymerase Chain Reaction, DNA Sequencing

Practical

15 hour

- Isolation of Plasmid DNA
- Isolation of Genomic DNA
- Agarose Gel electrophoresis
- Polymerase Chain Reaction (demonstration)
- Polyacrylamide Gel Electrophoresis (demonstration)

SUGGESTED READING

1. Brown TA. Gene Cloning and DNA Analysis. Blackwell Publishing, Oxford, U.K.
2. Primrose SB and Twyman RM. Principles of Gene Manipulation and Genomics, Blackwell Publishing, Oxford, U.K.

Abhishek Basu.
Head and Assistant Professor
dept. of Molecular Biology & Biotechnology
Sripat Singh College
Jaganj, Murshidabad

Debjani Mandal
Assistant Professor
Dept. of Molecular Biology
and Biotechnology
Sripat Singh College, Jaganj, Med.

Dr. Kamal Krishna Sarkar
10.8.23
DR. KAMAL KRISHNA SARKAR
Principal
Sripat Singh College
Jaganj, Murshidabad

Syllabus of the course

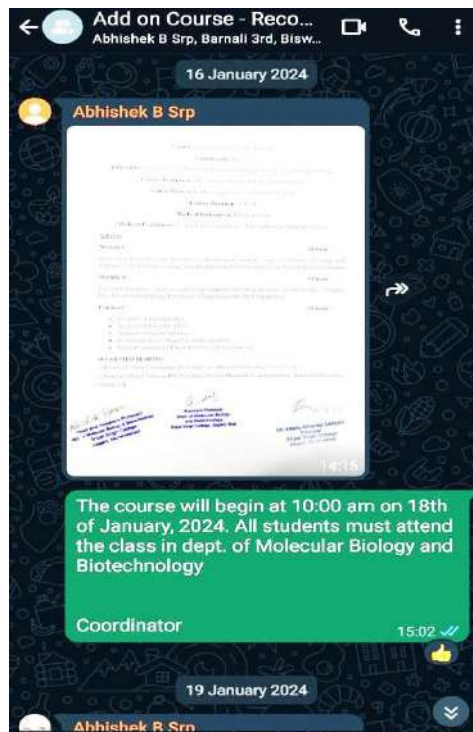
The course started on 17th of January, 2024 in the department. The course was inaugurated by the course coordinator Ms. Debjani Mandal and the joint course coordinator Dr. Abhishek Basu. The theory and practical classes of the course included hands on training, one to one student-teacher

interaction, presentation, etc. Both the course coordinators delivered series of lectures on different units of the topic Recombinant DNA Technology. Practical classes were organized on PCR, Restriction Digestion, Gel Electrophoresis, Plasmid and Genomic DNA Isolation, etc.

Fact Sheet									
Add on Course on Recombinant DNA Technology									
Organised by: Department of Molecular Biology & Biotechnology, IQAC & Career Development Counselling & Placement Cell of Sripat Singh College									
Sl	Name	Date	Present/Absent	Topic Covered	Class duration	In time	Out time	Practical/T heoretical	Signature of the teacher
		22/01/2024							
1	Barnali Bajpayee		P	Transformation	1 hour	10:00 am	11:00 am	Theoretical	(Signature) 22/1/24
2	Shiladitya Biswas		P	Transformation	1 hour	10:00 am	11:00 am	Theoretical	(Signature) 22/1/24
3	Shraban Halder		P	"	"	"	"	"	(Signature) 22/1/24
4	Dipan Singha		P	"	"	"	"	"	(Signature) 22/1/24
5	Biswarup Nandy		P	"	"	"	"	"	(Signature) 22/1/24
6	Prongamita Saha		P	"	"	"	"	"	(Signature) 22/1/24
7	Subham Das		P	"	"	"	"	"	(Signature) 22/1/24
8	Soham Das		P	"	"	"	"	"	(Signature) 22/1/24
9	Nirmalya Sarkar		P	"	"	"	"	"	(Signature) 22/1/24
10	Mouli Ghosh		P	"	"	"	"	"	(Signature) 22/1/24
11	Surajit Halder		P	"	"	"	"	"	(Signature) 22/1/24
12	Farikul Hoque		P	"	"	"	"	"	(Signature) 22/1/24
13	Nilesh Karmakar		A	"	"	"	"	"	(Signature) 22/1/24
14	Anisuzzaman		P	"	"	"	"	"	(Signature) 22/1/24
15	Bidisha Das		P	"	"	"	"	"	(Signature) 22/1/24
16	Arian hoque		P	"	"	"	"	"	(Signature) 22/1/24
17	Tamanna Islam		P	"	"	"	"	"	(Signature) 22/1/24
18	Nikita Ghosh		P	"	"	"	"	"	(Signature) 22/1/24
19	Sayan Gupta		P	"	"	"	"	"	(Signature) 22/1/24
20									

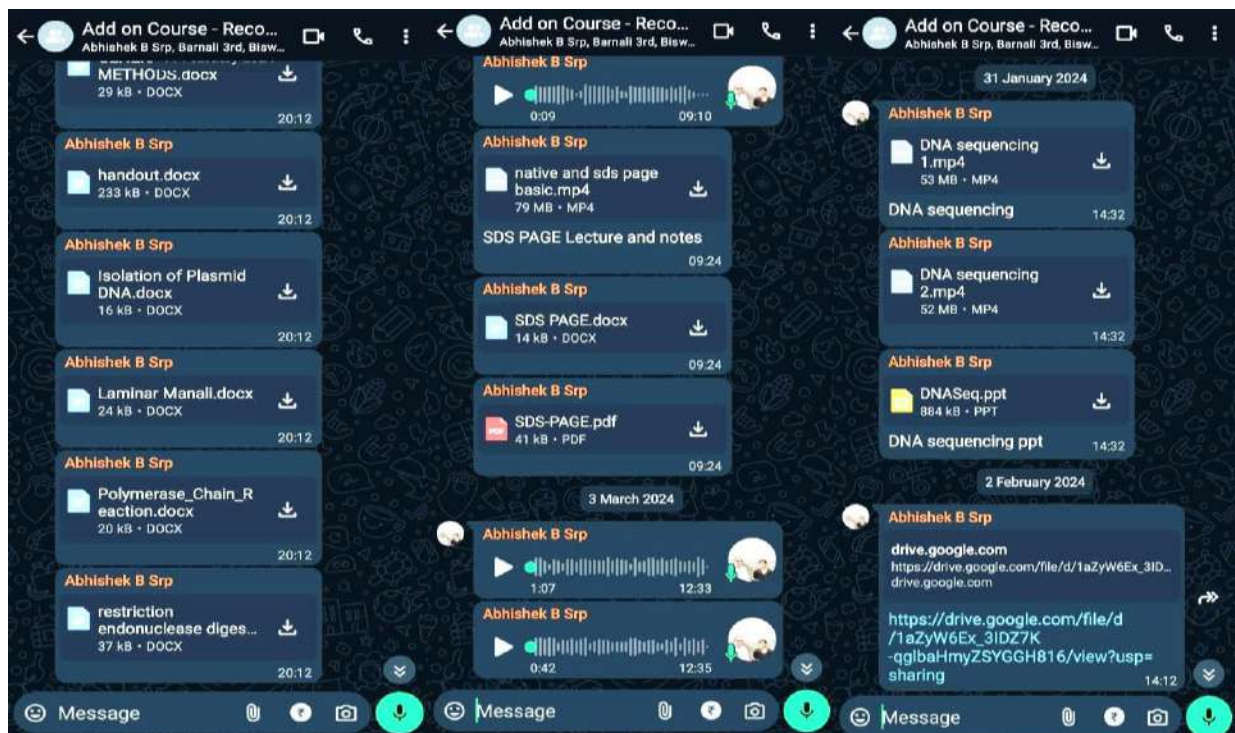
Fact Sheet									
Add on Course on Recombinant DNA Technology									
Organised by: Department of Molecular Biology & Biotechnology, IQAC & Career Development Counselling & Placement Cell of Sripat Singh College									
Sl	Name	Date	Present/Absent	Topic Covered	Class duration	In time	Out time	Practical/T heoretical	Signature of the teacher
		24/01/2024		PCR	1 hr.	10:00 am	11:00 am	Theoretical	Abhishek Basu
1	Barnali Bajpayee	24/01/2024	P	"	"	"	"	"	Abhishek Basu
2	Shiladitya Biswas	24/01/2024	P	"	"	"	"	"	Abhishek Basu
3	Shraban Halder	24/01/2024	P	"	"	"	"	"	Abhishek Basu
4	Dipan Singha	24/01/2024	P	"	"	"	"	"	Abhishek Basu
5	Biswarup Nandy	24/01/2024	P	"	"	"	"	"	Abhishek Basu
6	Prongamita Saha	24/01/2024	P	"	"	"	"	"	Abhishek Basu
7	Subham Das	24/01/2024	P	"	"	"	"	"	Abhishek Basu
8	Soham Das	24/01/2024	P	"	"	"	"	"	Abhishek Basu
9	Nirmalya Sarkar	24/01/2024	P	"	"	"	"	"	Abhishek Basu
10	Mouli Ghosh	24/01/2024	P	"	"	"	"	"	Abhishek Basu
11	Surajit Halder	24/01/2024	P	"	"	"	"	"	Abhishek Basu
12	Farikul Hoque	24/01/2024	P	"	"	"	"	"	Abhishek Basu
13	Nilesh Karmakar	24/01/2024	P	"	"	"	"	"	Abhishek Basu
14	Anisuzzaman	24/01/2024	P	"	"	"	"	"	Abhishek Basu
15	Bidisha Das	24/01/2024	P	"	"	"	"	"	Abhishek Basu
16	Arian hoque	24/01/2024	P	"	"	"	"	"	Abhishek Basu
17	Tamanna Islam	24/01/2024	P	"	"	"	"	"	Abhishek Basu
18	Nikita Ghosh		A						
19	Sayan Gupta		A						
20									

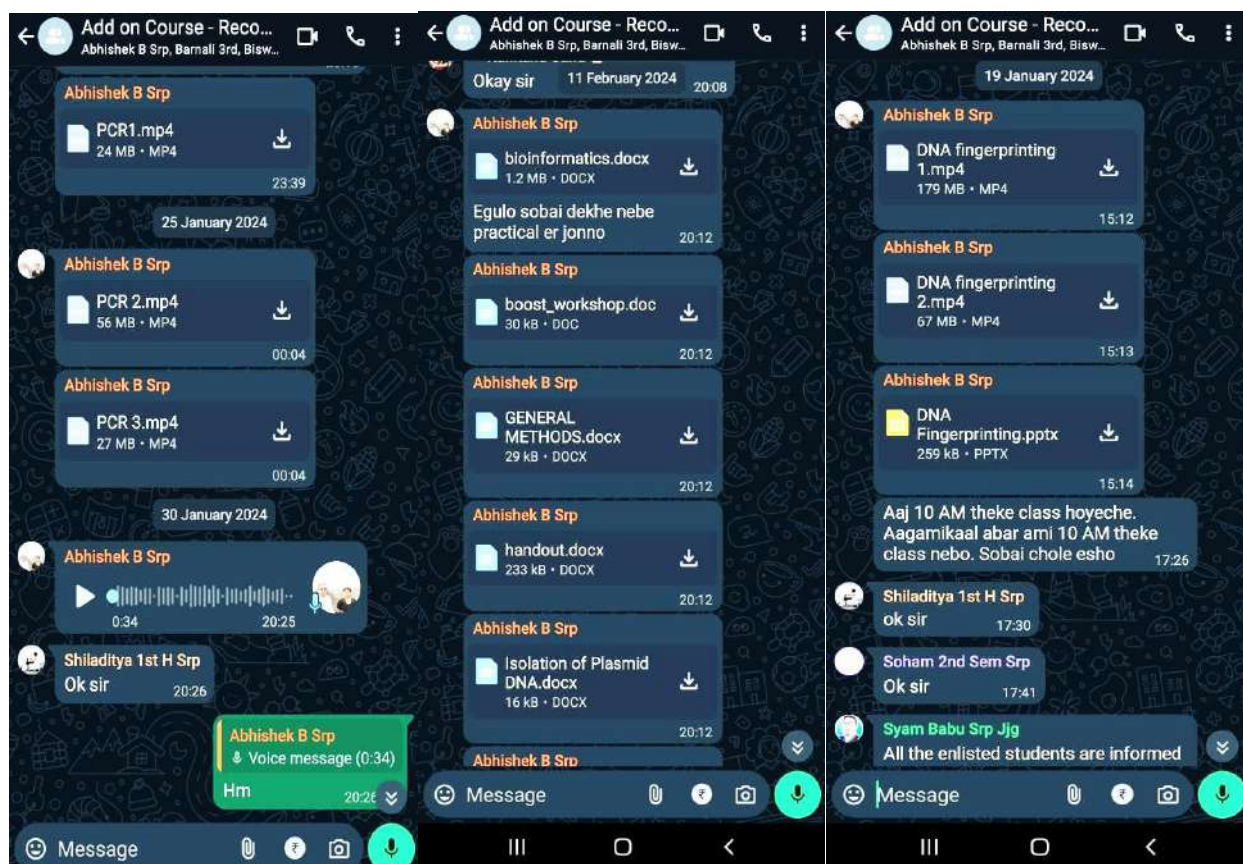
Attendance sheet of Students



Notification regarding commencement of the course

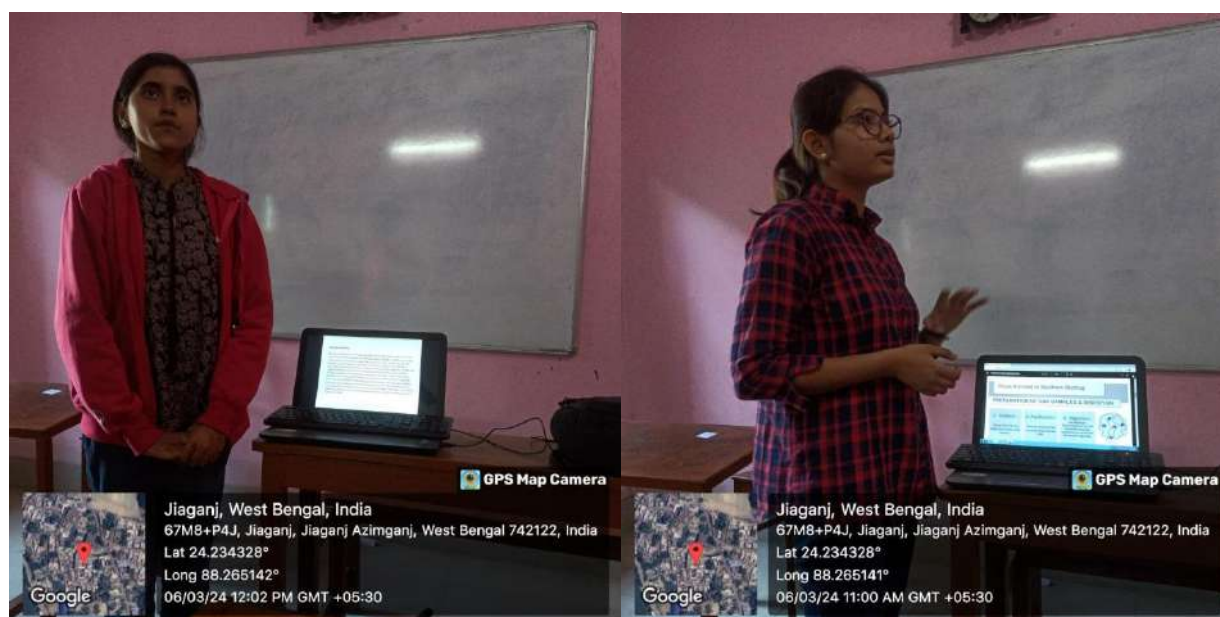
https://www.youtube.com/playlist?list=PL7E_ArQvHd_FkmWDj58Bq6S46unKzq4lu





Study material shared to the students

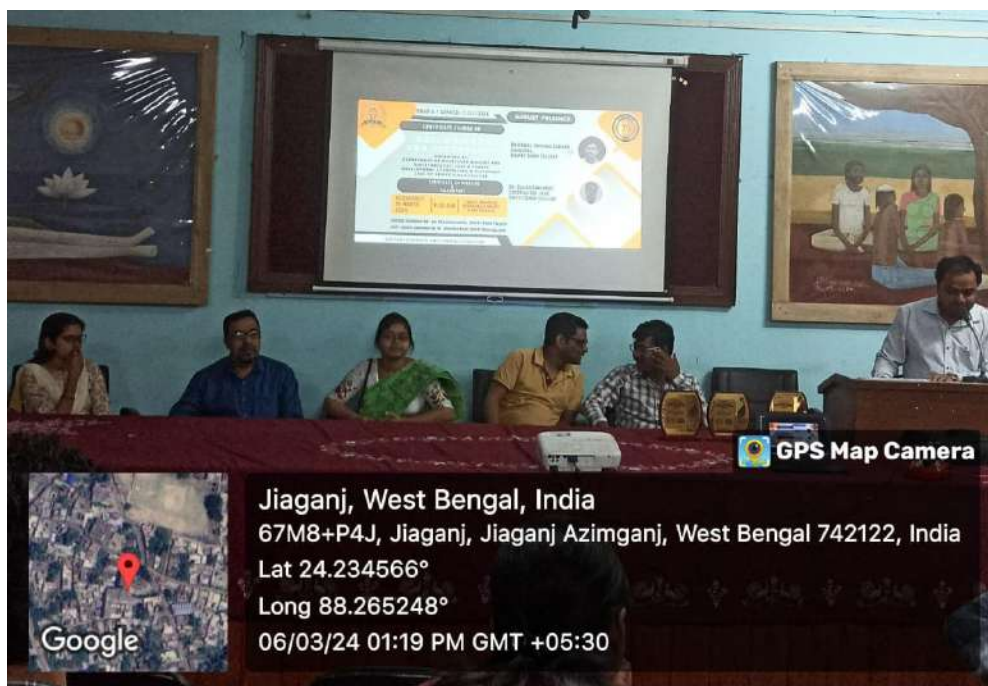
Students were evaluated on the basis of their performance in viva-voce and PPT presentation on 6th of March, 2024. Each students delivered short presentation (10 minutes) on particular unit of Recombinant DNA Technology.





Students giving presentation on 6th of March, 2024

The students were evaluated on the basis of their performance in the presentation and viva voce. The best presenter and best performer of the course were awarded with memento. Course completion certificate was given to all the students.



Dr. Abhishek Basu, Joint Course Coordinator, conducting the certificate distribution programme.



Participants attending the certificate distribution programme



Dr. Kamal Krishna Sarkar, Principal, Sripat Singh College, inspiring the students through a short speech.



Best presenter and best performer were awarded with memento



Certificate distribution to the students



Sample copy of the certificate



Ms. Debjani Mandal, Course Coordinator, delivering her valedictory speech

The students and faculty members highly appreciated the classes and provided positive feedback about the Add on Course. They also demanded for more of such courses. The course ended with the valedictory session by Ms. Debjani Mandal.

Course Outcomes

1. Students became more competent in the subject Biotechnology.
2. Students gained the theoretical knowledge on different modules of RDT.
3. The students learned the basic experimental techniques of classical and modern RDT.
4. They could isolate genomic and plasmid DNA from bacteria.
5. They also learned the process of transformation of bacteria with recombinant vector.
6. Students were given demonstration on PCR.