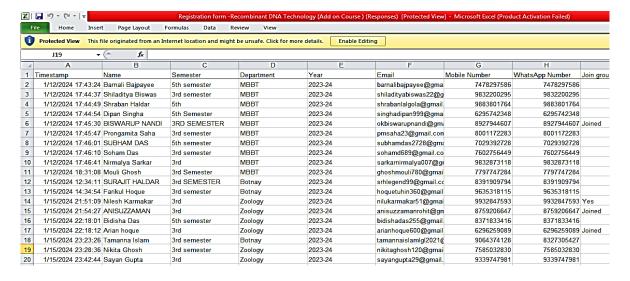
# Add on Course Certificate Course on Recombinant DNA Technology

	MEETING RESOLUTION	ON BOOK
arial Na	io. of Meeting: 26 Dat	o of Motting: 22.12.2023
Venue o	of Meeting: Research Lab MBBT Dept: Tim	e of Meeting: 2.30 PM
	Name of Members Presen	
1 8	AlShishel Rasm. 1	17
	Delyn Melals 10	. 18
3	Marrile Polocesa 11	. 19
4 0	Billar Potattadajja 12	. 20
5		. 21
6	14	22
8	15	23
200		
Serial No.	Notice for Me	
_	110166 401 116	
	A departmental meeting is come	vened on 22 <sup>nd</sup> of
	secenter 2023 at 02:00 pm	ne the departmental
_	research, lab to discuss a	bour the followings.
-	ii) Result Analysis of 4th 8	ien BSc. Honouss.
	iii) Departmental educational to	wr.
	W) Add on Course on RDT	Aldrighek Karn
	- X	15 12 2023
-	15:12:23	Hond and Assistant Professor
		rept. at Molecular Biology is Biotechnology Scipat Singh College Jiaganj Murshidabad
-		'198aul
Sorial No.	RESOLUTIONS ADOP	TED
-		
	Resolution	
1.	4th SEM B.SC Hors. Yesult was when twostudents sound more than 7	as per expectation,
-	where two students scored more	ether 8.0 CGPA. of
	Two students scored more Than 7	1.5 CGPA.
2.	Internal assessments (1002) for a	all the semester
×.	Hons & major students are	completed. For ruy
	the assignments will be conduct	led by 1st week of
	Tannary	
	1	*
3		tour will be organize
3.		four will be organized high attitudinal
3.	Deformental Educational	tour will be organize high attitudinal
	Departed Educational - to Italy the diversity in Vegetation.	high attitudinal
3.	Definitely the diversity in Vegetation.	high attitudinal are individual teacher builted to IRAC.
	Deformental Educational - to Hudy the diversity in Vegetation.  A mentor mentee list of Nill De forebased and sur the Add on Course on Recombinat DNATE	high attitudinal or individual teach britted to IQAC. chrology will be Conducte
4.	Deformental Educational - to Hudy the diversity in Vegetation.  A mentor mentee hist of Nill be forefared and hu And Add on Course on Recombinat DNATE Albris	high attitudinal or individual teach builted to IQAC. chrology will be Conducted the Basin
4.	Defiamental Educational - to I trudy the diversity in Vegetation.  A mental mentee list of will be torefared and but the kidd on Course on Recombinant DNA te Aboris	high attitudinal or individual teach britted to IQAC. chrology will be Conducte
4.	Deformental Educational - to Itudy the diversity in Vegetation.  A mentor mentee list of will be forefared and but the Add on Course on Recombinat DNA Fee Albris 22/1	high attitudinal winding individual teach britted to IRAC. chrology will be Conducted to 12/2023
4.	Deformental Educational  to Itudy the diversity in  Vegetation.  A mental mentee list of  will be torefored and hu  An Add on Course on Recombinat DNA Te  Albris  22/1	high attitudinal fuchor individual teacher bomitted to IRAC. chnology will be conducted the Basin 2/2023

Meeting resolution for conduction of Add on Course on RDT



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.



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.
- Primrose SB and Twyman RM. Principles of Gene Manipulation and Genomics, Blackwell Publishing, Oxford, U.K.

House and Assistant Professor

Assistant Professor
Dept. of Molecular Biology
and Bietechnology
Sripat Singh Cellege, Jiagan), Med

DR. KAMAL KRISHNA SARKAR Principal Sripat Singh College

## Syllabus of the course

The course started on 17<sup>th</sup> 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 Shee						
1	Add on Course on Recombinant DNA Technology  Organised by: Department of Molecular Biology & Biotechnology, IQAC & Career Development Counselling & Placement Cell of Sripat Singh College									
1	SI Name	Date	Present/Absent	y & Biotechnology, IQAC & Care Topic Covered	Class duration	In time	Outtime	Practical/T heoretical	Signature of the teacher	
1		22/01/2024							0 111	
1	Barnali Bajpayee	1 1 1 2 2	P	Transformation	1 hour	10: war	11:00a	Theoreton		
12	Shiladitya Biswas		P	Transformation	1 hour	10:00 am	11:00 am	Theoretica	(x_en) 22/11/24.	
3	Shraban Haldar		P	1)	11	- 11	1)	1)	( 22/1/2)	
4	Dipan Singha		P	11	11	11	17	"	( 22/1/24	
5	Biswarup Nandy		P	12	11	11	11	111	18 20 02 1124	
G	Prongamita Saha		P	11	11	- 11	11	11	1 2 2 1 1 24 1 2 2 2 1 1 24	
7	Subham Das	The state of the s	P	V	11	10	10	111	12-2-1-22/1/24	
8	Soham Das		P	"	11	11	-	10200	(1) 22/1/24	
9	Nirmalya Sarkar		P	))	- 11	11	11	"	(2-0-5-11/24	
10	Mouli Ghosh	H.	P	)/	11	11	"	10	(X_2) 124	
11	Surajit Haldar		P	11	11	- 11	11	111	( Se_ 80, 22/1/2	
12	Farikul Hoque		P	- 11	17	11	11	111	100	
3	Nilesh Karmakar		A	17		111	11	1/	( E e 102/1/2	
4	Anisuzzaman		P	11	37	11	11	11	(x-2012/11/2	
5	Bidisha Das		P	- U	11		11	1/	(xe) 22/1/2	
	Arian hoque	1	f	11	11	11	111	11	( e-e-12211)	
35,540	amanna Islam		P	11	- 11	1,	11	- 11	(S subsell)	
FF 157	likita Ghosh		P	11	11	11		1)	Pa 11/221	
200	CONTRACTOR OF THE PROPERTY OF		P	11	11	17	11/	- "	1	
13	ayan Gupta						-	-		
L							_	-		

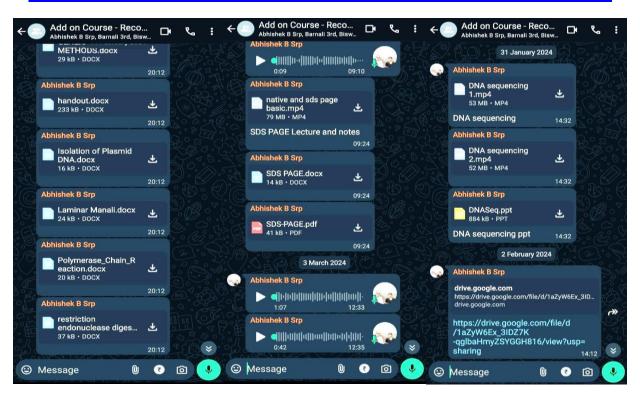
+				Fact S Add on Course on Recom						-
t	Organised by	: Department o	f Molecular Biology &	Biotechnology, IQAC & C	areer Development C	ogy Counselling	& Placemer	nt Cell of Srip	at Singh College	
SI	(STATES AND ADDRESS AND ADDRES	Date	Present/Absent	Topic Covered	Class duration	In time	Outtime	Practical/T heoretical	Signature of the teacher	
		24/01/2024		PCR.	1 hr.	10:00 am	11:00 am	Theoretical	Abhislek	Baga
	Barnali Bajpayee	24/01/2024		11	U	11	11	11	AdMisluk	13240
2	Shiladitya Biswas			11	11	11	n	11	Admisluk	1325m
3	Shraban Haldar	24/01/2024	P	11	17	11	,,	- 10	Abhisler	1324m
4	Dipan Singha	24/01/2021	P	"	11	11	11	1	Abhisler	1325m
5	Biswarup Nandy	29/01/2029	P	IJ	11	. 11	11	19	Abhistek	13240
6	Prongamita Saha	24/01/2024		Ü	11	- 11	11	11	Abhister	1324m
7	Subham Das	24/01/2024	P	- In	II.	H	1/	11	Abhisler	13a5m
8	Soham Das	24/01/2024	r	1)	- 0	11	111	11	Abhislus	1324m
9	Nirmalya Sarkar	24/01/2024	P	H	1.1	- 11	11	11	Abhisluk	13250
-	Mouli Ghosh	24/01/2024	9	11	11	ll.	11	11	Abhislek	13250
1	Surajit Haldar			1)	- 11	- 11	11	- 11	Allislik	
	Farikul Hoque	24/01/2024		ű.	11	11	11	- 11	Abhisler	13250
100	Nilesh Karmakar	24/01/2029	P	1/	11	- 11	- ti	17	Abhisler	13250
- 1	Anisuzzaman	24/01/2024	P	17	11	11	t)	11	Abhisler	1325m
9.1	Bidisha Das	24/01/2029	P	Ti .	1/	1)	11	11	Abhislete	
-	Arian hoque	24/01/2024	0	0	t)	U	ı ı	- 11	Abhislete	
10	amanna Islam	24/01/2029	0	11	1)	11	11	71	Addistur	13250
		1 / 5/1/2007	A							
9.00	likita Ghosh	,								
S	ayan Gupta		A							

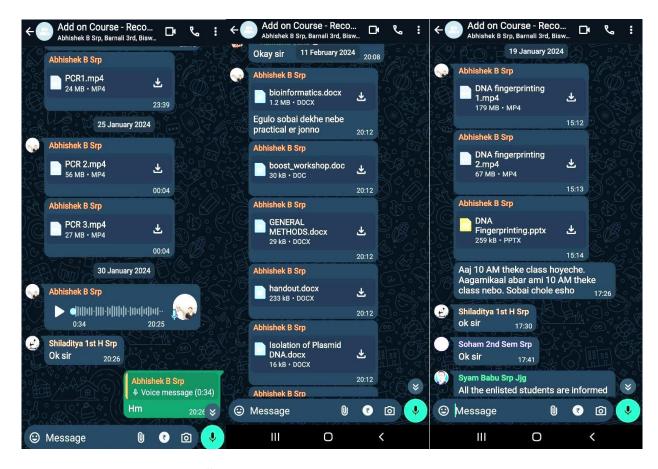
**Attendance sheet of Students** 



Notification regarding commencement of the course

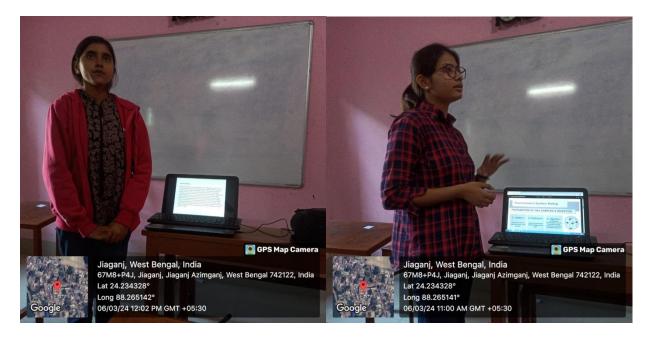
https://www.youtube.com/playlist?list=PL7E\_ArQyHd\_FkmWDj58Bq6S46unKzq4lu





Study material shared to the students

Students were evaluated on the basis of their performance in viva-voce and PPT presentation on 6<sup>th</sup> 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.