

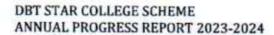
DURGAPUR GOVERNMENT COLLEGE

(Accredited by NAAC with "A" grade in 2017)

Affiliated to Kazi Nazrul University, Asansol
Jawaharlal Nehru Avenue, Durgapur, Dist: Paschim Bardhaman
PIN: 713214, West Bengal
www.durgapurgovtcollege.ac.in

ANNUAL PROGRESS REPORT (Year-2) DBT STAR COLLEGE SCHEME (29-09-2023 TO 28-09-2024)

DEPARTMENT OF BIOTECHNOLOGY
MINISTRY OF SCIENCE & TECHNOLOGY
CGO COMPLEX, LODI ROAD
NEW DELHI-110003





SI. No.	Particulars	Page No.
1	Annual Progress Report (29-09-2023 to 28-09-2024)	1-16
2	Annexure-I Student Projects, Hands on Training Experiments, New Experiments undertaken during the year	17-25
3	Annexure-II Mapping of the Experiments included in Course Curriculum with the items purchased from DBT support	26-30
4	Annexure-III Seminars /Workshops/ Invited lectures organized during the year	31-40
5	Annexure-IV Science Setu Lecture Series in Collaboration with National Institute of Biomedical Genomics	.41
6	Annexure-V Industrial Trainings, Field Visits and Visits to research laboratories undertaken during the year	42-43
7	Annexure-VI Training Courses for faculty and staff organized during the year	44-45
8	Annexure-VII Outreach activities undertaken during the year	46-47
9	Annexure-VIII Colleges Mentored for applying under DBT STAR COLLEGE SCHEME	48
10	Annexure-IX Seminars/Workshops attended, paper presentations and Students' achievements during the year	48-49
11	Annexure-X YouTube Links of selected sessions by eminent resource persons organized by Durgapur Government College under the DBT STAR COLLEGE SCHEME	50-51
12	Annexure-XI Name, designation, host institutes of resource persons invited for different events	52-53
13	Annexure-XII Photographs/Newspaper articles and other supporting documents of the organized events	54-90



DEPARTMENT OF BIOTECHNOLOGY

PROFORMA FOR SUBMISSION OF ANNUAL PROGRESS REPORT SUPPORTED UNDER STAR COLLEGE SCHEME

Name of the College

Durgapur Government College

2 Name of Coordinator.

Dr. Nivedita Achariee

designation, Address, Phone No.

Assistant Professor, Department of Chemistry

Durgapur Government College

Durgapur, West Bengal

Pin Code-713214, West Bengal

Phone No.: 9679697649

3 Assessment Duration

29/09/2023 to 28/09/2024

Duration in years: 1 year

4 Details of Departments Supported

Sl No.	Name of Department	Courses (B.Sc./M.Sc./PG	Regular Faculty Members Total = 41			
		Diploma, certificate etc. offered)	With Ph.D.	Without Ph.D.		
1	Botany	B.Sc.	5	1		
2	Chemistry	B.Sc., M.Sc., Ph.D.	5	3		
3	Geology	B.Sc., M.Sc., Ph.D.	7	2		
4	Mathematics	B.Sc.	2	2		
5	Physics	B.Sc.	5	3		
6	Zoology	B.Sc.	6	1		

.,.	Advisory	æ	committee	One, the advisory committee meeting was held on 21-08-2024. The status of their work was presented in the meeting. Overall Recommendation: The committee was very appreciative of the activities conducted and rated them as "A+".
-----	----------	---	-----------	--

- 6 Qualitative improvements due to DBT support. Please highlight 5 salient points (within 500 words).
 - 1. The DBT Star College Scheme support has enabled to amalgamate the expertise of departments providing interdisciplinary dimension to the teaching and learning process through student projects, new experiments and hands on training and also to use ICT tools extensively, which is one of the objectives of the modern education system. These are not included in the university course curriculum, but are quite essential to enhance the practical, entrepreneurial, computational and presentation skills of students. For example, bioactivity study through the computational chemistry, water collection through field visits followed by analysis by students of both biological, chemical and mathematical sciences,

Nivedita Achanjee Dr. Nivedita Achanjee

Coordinator, DBT STAR COLLEGE SCHEME
Durgapur Government College

COORDINATOR
DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

Dr. Debnath Palit Principal Durgapur Government College



several software workshops conducted for data handling and representation, hands on training on basic electrical equipment and instrumentation of scientific equipment etc. Interestingly, students of mathematical sciences have received hands on training on laboratory equipment of other departments and students of biological, physical chemical and geological sciences have received data handling and mathematical software training, enabling the mutual exchange of ideas among the students and faculty members. Students of physical and chemical sciences learnt vegetation mapping and vermicomposting, geological students learnt the significance of ecology and machine learning etc. In the next year, more and more interdisciplinary activities have been planned under the scheme.

- 2. The DBT Star College Scheme support has enabled the participating departments to procure new equipments so that multiple copies of the equipment can be provided to the students for practical classes. The new equipment, chemicals and consumables purchased for the undergraduate laboratories have enabled to conduct new experiments and hands on experiments giving them the opportunity to explore scientific understanding through experiential learning. The new experiments and hands on experiments conducted under the scheme as per the proposal have enhanced the learning skills of students to make them more equipped for higher education opportunities. Through presentation of student projects during winter school training courses, the presentation and communication skills of students have considerably improved along with their subject understanding.
- 3. The grant has enabled conducting several seminars, workshops and invited lectures by guest speakers and facilitated the interaction of undergraduate students with scientists, eminent professors and research experts. This has promoted their research fundamentals and also motivated them towards the future scope of scientific studies. The support has also enabled conducting workshop for faculty members and non-teaching staff enabling them to learn skills for application in academic and administrative activities. The celebration of National Science Day, World Malaria Day, National Space Day and poster presentations by students has motivated the scientific understanding of the students.
- 4. The grant has enabled conducting industrial training, field visits and visits to research laboratories which could not be conducted previously due to lack of funding. Students got exposure to advanced instrumentation processes and demonstration of the working

Nivedita Achanjee

Dr. Nivedita Acharjee Coordinator, DBT STAR COLLEGE SCHEME Durgapur Government College

COORDINATOR
DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

Dr. Debnath Palit Principal Durgapur Government College



principle of the instruments, modern research facilities available in institutes and industry practices. Faculty members have also participated in events and presented their research work with proper acknowledgement to the DBT star college scheme support.

- 5. The grant has enabled conducting several outreach activities for schools and colleges. These outreach activities have promoted the subject understanding, motivation and scientific study of the students and faculty members of different institutes. More outreach activities are also planned under the scheme.
- Any Novel aspect introduced or planning to introduce during the year 7

The novel aspects introduced under the scheme for the period under report were interdisciplinary activities:

- 1. Location Specific Approach; Student project including field visit and workshop on analysis of ground water collected from 9 local sites of Durgapur: The project was conducted by locating the polluted ground water sample collection sites through remote sensing and then collection of water samples from the wells and tubewells located in different places of Durgapur such as Gopalmath, Mayabazar, Kalpataru Mela Maidan, Shyampur Bazar, Biharpur, Narayanpur and Nodiha followed by laboratory testing to assess the drinking water quality.
- 2. Science Setu Lectures: Durgapur Government College collaborated with the National Institute for Biomedical Genomics to organize the Science Setu Lecture series with a eminent scientists, which considerably enhanced expert interactions with undergraduate students and enhanced their subject understanding and research fundamentals and motivated them towards advanced scientific studies and research.
- 3. Workshop on Seed Ball plantation: Workshop on "Seed Ball Plantation" was organized under the scheme. Students collected left over seeds of fruits and prepared seed balls by encasing seed in a mixture of half portion of soil with half portion of organic manure. This practice of throwing seed balls for plantation is a low cost and effective means of fast plantation and protects seeds from drying out, blowing away or getting eaten by birds and animals. This event encouraged and motivated students to devise innovative environment friendly plantation practices.

Dr. Nivedita Acharjee

Coordinator, DBT STAR COLLEGE SCHEME

Durgapur Government College

DBT STAR SCHEME DURGAPUR GOVERNMENT COLLEGE J.N. AVENUE, DURGAPUR 713214

Dr. Debnath Palit Principal **Durgapur Government College**



- 4. Workshop on Bioactivity of organic compounds by Computational Studies (Chemistry, Botany, Zoology): Students used computational chemistry software to draw the structures of biologically active compounds, they prepared the mol files and fed them into the Pass online software site to obtain the biological properties of the compounds. This workshop equipped students towards the basics of computational chemistry and computational biology. They then analyzed the biological activity of the selected compound and presented their prepared projects through power-point presentations, which were uploaded in Youtube.
- 5. Hands on training on "Basic Electrical Equipment and Home Appliances" was organized by Durgapur Government College, in collaboration with Government Industrial Training Institute. Mr. Ramesh Rakshit, recipient of the National Teacher Award of Ministry of Skill Development and Entrepreneurship, Government of India, for the year 2023 and all instructors of the Government Industrial Training Institute, Durgapur, trained 16 undergraduate students of Durgapur Government College on the working principle, mode of operation, instrumentation details, repairing and safe handling of basic electrical equipments in scientific laboratories.
- 6. Workshops and New Experiments for students following Earn while learn concept: Workshops on "Happy Mushroom Gardening", "Prawn Culture", "Milk Testing" were organized during the year fostering the concept of "Earning while Learning" focussed on the skill enhancement of students.
- 7. Outreach activity on Telescope making and star gazing for local schools: Hands on training on Telescope making and star gazing programme was organized by the institution 150 students and 26 teachers of 21 schools of Durgapur actively participated in the event on July 11, 2024 and 120 students from 10 schools attended the event on July 12, 2024 at Patha Bhavana, Santiniketan. This innovative event is the first of its kind to be organized by a higher education institution and received overwhelming appreciation from school students and teachers. This event proved to be helpful in enhancing the scientific understanding of school students and motivated them to pursue science in their higher studies.

Nivedita Achanjee

Dr. Nivedita Acharjee
Coordinator, DBT STAR COLLEGE SCHEME
Durgapur Government College

DBT STAR SCHEME

DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

Dr. Debnath Palit Principal Durgapur Government College



- 8. Workshop on Data analysis: Students of all departments were given the basic hands on training on different statistical tools, which will be quite significant for their respective subject area.
- 9. Local field study for on spot identification of unique flora: Students were also taken for field visit to Malan Dight Forest, where they found and analyzed some unique plant species as a part of experiential learning.
- 10. New experiment on "GPS data input into QGIS: Students came to understand the technology behind location-based services enhance their fieldwork and data collection capabilities. They became capable in importing GPS DATA file into the QGIS platform and making overlay with Open Street Map by which they came to know their respective locations within the Map.

Some of the novel aspects planned to be introduced in the upcoming year:

- Industrial contamination of ground water in local areas of Durgapur. As an extension of the
 water analysis project, experiment will be conducted on ground water exploration and
 determination of heavy metal in the ground water of Durgapur industrial area, which is an effective
 location specific approach.
- Faculty development programme on "Artificial Intelligence and Machine Learning"
- Workshop and Hands on Training on "Robotics" for undergraduate students
- Workshop on "How to write research papers" and "How to prepare project presentations", followed by competition among students for oral/poster presentation on student projects, and preparing scientific model
- •Two Day workshop on "Statistical methodology for biological sciences" organized by Departments of Botany, Zoology and Mathematics
- Exploring the scientific understanding on Indian Traditional Knowledge System in Tribal and local Community
- Workshop and student project on the practices of "Chemical and Biological Waste Disposal"
- Workshop on "Fundamentals of 3D QSAR modeling in drug discovery" for undergraduate students
- Organization of scientific lectures by eminent resource persons in local language and uploading for students and faculty members in accordance with the suggestions received in the Advisory Committee Meeting
- Organizing expert interaction of eminent scientists of institutes of national eminence with students and faculty members through invited lecture series, workshops and seminars

Nivedita Achanjee

Dr. Nivedita Acharjee
Coordinator, DBT STAR COLLEGE SCHEME
Durgapur Government College

DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

Dr. Debnath Palit Principal Durgapur Government College



DURGAPUR, WEST BENGAL

8 Lessons learnt / difficulties faced/suggestions if any, in implementation of the programme andutilization of DBT grant. (Max 3 points within 300 words).

Lessons learnt

- Students were very much interested in learning the topics by the use of ICT tools and software. So, use of ICT tools and software studies were given more emphasis while teaching, planning the training courses and workshops to make the teaching process more interesting and student-friendly.
- Interdisciplinary learning by amalgamation of the expertise of different departments has led to
 exchange of ideas for better scientific understanding of the students in all events. So, the
 interdisciplinary learning dimension will be given more emphasis during the entire tenure
- Students learnt best by doing. So, more emphasis was given on hands on training of equipment, practical classes and new experiments and accordingly more such workshops and training courses will also be organized for students to enhance their experiential learning which will include workshops on calibration and handling of equipment purchased from the DBT grant.

Difficulties

- The end semester examinations scheduled by the university are held for each semester separately.
 The teaching days were reduced due to the same. So, while implementing the scheme, some activities took more time for completion than expected due to the shortage of teaching days.
- Separate routine and timing had to be scheduled for interdisciplinary activities, research laboratory
 visits and other events without hampering their regular college routine. So, while implementing the
 planned activities took more time for completion, this decreased the number of planned activities.

Vivedita Acharjee

Dr. Nivedita Acharjee Coordinator, DBT STAR COLLEGE SCHEME Durgapur Government College

DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

Dr. Debnath Palit Principal Durgapur Government College



9. Key Performance Indicators

	Indicator	_	023							20	24							Rema
	No. of students admitted	ents and 3 YEAR Undergraduate					search	YE	BOTANY (4 YEAR honours with research and 3 YEAR undergraduate courses) Total= 39					ch and 3	Kemai			
		N	1 = 11			F=	17			M	= 11			F=	28			1
		C	120,00	GEN	OBC	SC	ST	GEN	OBC	SC	ST	GEN	OBC	SC	_	GEN	OBC	
		3		5	3	5	1	10	1	3	1	4	3	6	0	21	1	-
		n	esear	STRY (ch and es) Tota	3 YEAR	EAR I	lonoi ergra	ırs witi iduate	h	CH	EMIS d 3 Y	TRY (4 EAR un	YEAR h	luate	cour	ith res		
		M	= 15			F=	13			M=	= 10			F=	20			
		S	ST	GEN	OBC	SC	ST	GEN	OBC	sc	ST	GEN	OBC	SC	ST	GEN	OBC	
		C															2005	
		1	0	12	2	3	0	9	1	2	0	6	2	1	1	17	1	
				GY (Fo				with					AR hon				ch and	
		M	= 21			F=	7			M=				F=		E treat		
		S C	ST	GEN	OBC	SC	ST	GEN	OBC	SC	ST	GEN	OBC	SC	ST	GEN	OBC	
		5	0	10	6	2	0	5	0	6	0	4	1	1	0	7	2	
		MATHEMATICS (For 4 YEAR Honours with research and 3 YEAR Undergraduate Courses) Total = 37						The same of	-		Annual Control of the		100	The second second				
		re Co	searc urse:	h and :	YEAR				vith	MA' and	THEN 3 YE	AR und	(4 YEA	R hor	cour	s with r ses) To	esearch	
		Co M	searc urse: = 21	th and :	YEAR		rgrad		vith	MA' and M =	3 YE	MATICS AR und	(4 YEA lergrad	R hor	cour	s with r ses) To	esearch	
		M S C	searc urse:	h and :	YEAR	Unde	rgrad		OBC	and	3 YE	GEN	(4 YEA lergrad	uate	cour	s with r ses) To	esearch	
		re Co M S C	searce urse: = 21 ST	ch and : s) Total GEN	9 YEAR = 37 OBC	F = SC	rgrad 16 ST	GEN 11		and M=	16	AR und	lergrad	r=	cour	ses) To	esearch tal= 33	
		M S C 5 PH	searces = 21 ST 1 IYSIC	th and : s) Total GEN	OBC 3 4 YEAR 3 YEAR	F = SC 3	16 ST 1	GEN 11 vith	OBC	M = SC PHY	16 ST 0	GEN 10 (4 YEA	OBC	F= SC 3	17 ST 0	GEN 11 esearch	oBC	
		Co S PH	searces = 21 ST 1 IYSIC	GEN 12 S (For h and :	OBC 3 4 YEAR 3 YEAR	F = SC 3	16 ST 1 ours v	GEN 11 vith	OBC	M = SC PHY	16 ST 0 SICS	GEN 10 (4 YEA	OBC 4	F= SC 3	ST 0 (ith res) To	GEN 11 esearch	oBC	
		Co S PH	searce ourses = 21 ST 1 IYSIC searce urses	GEN 12 S (For h and :	OBC 3 4 YEAR 3 YEAR	F = SC 3 Hone Unde	16 ST 1 ours v	GEN 11 vith	OBC	M = SC 2 PHY YEA	16 ST 0 SICS	GEN 10 (4 YEA	OBC 4	F = SC 3 urs w	ST 0 (ith res) To	GEN 11 esearch	oBC	
		M S C S PH res	searce surses = 21 ST 1 IYSIC searce searce searce searce searce	GEN 12 S (Forhand:) Total:	OBC 3 4 YEAR 3 YEAR 3 YEAR 3 YEAR	F = SC 3 Hono Unde	16 ST 1 Durs v	GEN 11 vith	OBC 1	M = SC 2 PHY YEA	16 ST 0 SICS R un	GEN 10 (4 YEA dergrad	OBC 4 R honorduate co	F = 3 F = 3	ST 0 rith res) To	GEN 11 esearch otal= 23	oBC OBC OBC	
		FE CO	ST ST ST ST ST ST ST ST	GEN 12 S (Forhand:) Total: GEN	OBC 3 4 YEAR 23 OBC OBC 1 4 YEAR 4 YEAR 4 YEAR	F = 6 SC Unde F = 6 SC Hono	16 ST 1 Durs vergrad	GEN 11 vith fluate GEN 5 with	OBC OBC	M = SC 2 PHY YEA SC 2 ZOO	16 ST 0 SICS R und 20 ST 0	GEN 10 (4 YEA dergrad	OBC 4 R honoduate co	F = 3 urs wourse F = 3 SC 0 ours v	O ST ST O ST O With r	GEN 11 esearch otal= 23 GEN 2	oBC and 3 OBC 1 th and	
		re Co	ST ST ST ST ST ST ST ST	GEN 12 S (For h and :) Total: GEN 13 GY (For h and :	OBC 3 4 YEAR 23 OBC OBC 1 4 YEAR 4 YEAR 4 YEAR	F = 6 SC Unde F = 6 SC Hono	16 ST 1 urs v rgrad	GEN 11 vith fluate GEN 5 with	OBC OBC	M = SC 2 PHYYEA M = SC 2 ZOO 3 YE	16 ST O SICS R une	GEN 10 (4 YEA dergrad	OBC AR honor of the control of the	F= SC 3 urs wourse F= 3 SC 0 0 ours v	ST 0 ST 0 ST 0 with roses)	GEN 11 esearch otal= 23 GEN 2	oBC and 3 OBC 1 th and	
		re Co	searce state of the searce	GEN 12 S (For h and :) Total: GEN 13 GY (For h and :	OBC 3 4 YEAR 23 OBC OBC 1 4 YEAR 4 YEAR 4 YEAR	F = SC 3 Hone Unde F = 6 SC 1 Hone Unde	16 ST 1 urs v rgrad	GEN 11 vith fluate GEN 5 with	OBC OBC	M = SC 2 PHY YEA SC 2 ZOO	16 ST O SICS R une	GEN 10 (4 YEA dergrad	OBC AR honor of the control of the	F = 3 urs wourse F = 3 SC 0 ours v	ST 0 ST 0 ST 0 with roses)	GEN 11 esearch otal= 23 GEN 2	oBC and 3 OBC 1 th and	

Nivedita Achanjee

Dr. Nivedita Acharjee Coordinator, DBT STAR COLLEGE SCHEME Durgapur Government College

DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

Dr. Debnath Palit Principal Durgapur Government College



2	No. of students (%) Students admitted / passing out (pass (%)	2020-2023 (Batch) (Pass % calculated with respect to the registered students in first year) Total No. of Students Registered: 98 Total No. of Students Passed: 97	2021-2024 (Batch) (Pass % calculated with respect to the registered students in first year) Total No. of Students Registered: 44 Total No. of Students Passed: 44	Both the batches graduated with 3 year Honours and Program courses. The students passed out in 2024 were admitted in 2021, which was during the pandemic condition.
3	Drop-out rates	2020-2023 (Batch) (Calculated with respect to the registered students in first year) Drop out: 0 students	2021-2024 (Batch) (Calculated with respect to the registered students in first year) Drop out: 0 students	condicion.
4	No. of students opting for MSc	2020-2023 (Batch): 39	2021-2024 (Batch): 31 (Calculated with respect to the documents received from students for progression to higher studies, PG admission is in process in different universities/institutes)	
5	Average marks	2020-2023 (Batch) Botany: 8.45 (CGPA) Chemistry: 8.64 (CGPA) Geology 8.74 (CGPA) Mathematics: 8.92 (CGPA) Physics 8.32 (CGPA) Zoology 9.30 (CGPA)	2021-2024 (Batch) Botany: 8.49 (CGPA) Chemistry: 8.61 (CGPA) Geology 8.76 (CGPA) Mathematics: 8.82 (CGPA) Physics 8.51 (CGPA) Zoology 9.28 (CGPA)	
6	No. of hands-on experiment s being conducted	Student Projects: 16 Hands of Training Experiments: 9	Student Projects: 23 Hands of Training Experiments: 7 [Details in Annexure I]	
7	No. of new experiment s introduced	New Experiments Introduced: 16	New Experiments Introduced: 23 [Details in Annexure I]	
8	Publication s (scopus indexed) /patents, if any.	32 (Participating Departments) of Faculty Members indexed in SCOPUS and Web of Science	38 (Participating Departments) of Faculty Members indexed in SCOPUS and Web of Science	
9	Training received by faculty	6 Training Programmes (For Faculty Members and Staff)	Training Programmes: 11 (For Faculty Members and Staff) [Details in Annexure VI]	

Nivedita Achanjee

Dr. Nivedita Acharjee
Coordinator, DBT STAR COLLEGE SCHEME
Durgapur Government College

COORDINATOR
DET STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214



Dr. Debnath Palit Principal Durgapur Government College



10	Exhibitions / seminars/ training courses conducted	Workshops: 15 Seminar cum Workshops: 5 Training Courses: 6 Seminar/Conference: 6	Workshops: 17 Training Courses: 1 (8 Days Training Course Workshop) Seminar/Conference: 2 Poster Presentation: 1 [Details in Annexure III]	
		Research Laboratory Visits: 6 Industrial Training/Visits: 2 Field Training: 6	Research Laboratory Visits: 3 Industrial Visits: 2 Field Training: 7 [Details in Annexure V]	
11	Books/ journals subscribed from grants	The institution received grants from State Government for purchase of books. So, books were not availed for this financial year from the DBT STAR COLLEGE SCHEME grant. The recurring grant was utilized for purchase of chemicals, consumables for new experiments, student projects, organization of training programmes, workshops, seminars, invited lectures, outreach activities, mentoring activities, visit to research labs, industrial visits, etc	The institution received grants from RUSA fund for subscription of journals and from State Government for purchase of books. So, books were not availed for this financial year from the DBT STAR COLLEGE SCHEME grant. The recurring grant was utilized for purchase of chemicals, consumables for new experiments, student projects, organization of training programmes, workshops, seminars, invited lectures, outreach activities, mentoring activities, visit to research labs, industrial visits, etc	
12	Outreach activities (Popular lectures)	Geology and Chemistry: 01 Zoology: 03 Botany, Mathematics and Physics: 01	All departments: 01 Physics, Chemistry and Mathematics: 02 Zoology: 02 Geology: 01 [Details in Annexure VIII	
13	Colleges mentored to apply for DBT Star College grants	Faculty enrichment and Mentoring for DBT STAR COLLEGE SCHEME conducted on 15-03-2023	Colleges Mentored: 01 (Katwa College) [Details in Annexure VIII]	
14	Invited lectures	Total No: 07	Invited Lectures: 21 [Details in Annexure III] Science Setu lecture Series: Total 7 lectures [Details in Annexure IV]	

Nivedita Achanjee

Dr. Nivedita Acharjee
Coordinator, DBT STAR COLLEGE SCHEME
Durgapur Government College

DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214



Dr. Debnath Palit Principal Durgapur Government College



10. Self Evaluation

Department	*Objective (as stated in proposal)	% achieved	Reasons for underachi evement / If achieved, state in
	Theoretical Outcome: Classical Botany, Biological Evolution, Biochemistry,	have been achieved to 100%, More activities under each objective	quantitative metrics The end semester examinations scheduled by the university are held for each semester separately. The teaching days were reduced due to the same. So, while implementing the scheme, some activities took more time for completion than expected due to the shortage of teaching days.

Miredita Acharjee

Dr. Nivedita Acharjee Coordinator, DBT STAR COLLEGE SCHEME Durgapur Government College

COORDINATOR
DST STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

W.

Dr. Debnath Palit Principal Durgapur Government College



Department	*Objective (as stated in proposal)	% achieved	Reasons for underachi evement / If achieved, state in quantitative metrics
hemistry	will develop entrepreneurial skills. The scheme aims up-gradation of knowledge on novel scientific concepts, computational chemistry, chemical-biological interface software use, IT skills, new teaching aids, interdisciplinary research areas etc and to provide training on good laboratory practices, general maintenance of laboratory articles, preparation of reagents, laboratory safety rules, disposal of laboratory waste etc. The scheme will focus trainings on the software on biological-chemical interface Trainings on greener synthesis, safe waste disposal & recycling, safety measures and health hazards, data interpretation and analysis The theoretical outcomes will be bioinorganic chemistry, biochemistry, biophysical chemistry, industrial chemistry, green chemistry, surface chemistry, organometallic chemistry, environmental chemistry, supramolecular chemistry, solid-state chemistry, quantum mechanics, analytical chemistry.	have been achieved to 100%, More activities under each objective have been planned during the next year to improve the quality of performance	The end semester examinations scheduled by the university are held for each semester separately. The teaching days were reduced due to the same. So, while implementing the scheme, some activities took more time for completion than expected due to the shortage of teaching days.

Nivedita Achanjee

Dr. Nivedita Acharjee
Coordinator, DBT STAR COLLEGE SCHEME
Durgapur Government College

COORDINATOR
DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

Dr. Debnath Palit Principal Durgapur Government College



Department	*Objective (as stated in proposal)	% achieved	for underachi evement / If achieved, state in quantitative
Geology	Theoretical Outcome: 1. Coal exploration predates coal mining and it needs study of Petrology, Coal Geology, Structural Geology, Geophysics and Geoinformatics. 2. During mining one should have knowledge of Mining Methodology, Engineering Geology, Beneficiation Techniques, Environmental Geology and Geoinformatics. 3. Studies of Palaeoecology, Geochemistry,	have been achieved to 100%, More activities under each objective have been planned during the next year to improve the quality of performance under the scheme.	metrics The end semester examinations scheduled by the university are held for each semester separately. The teaching days were reduced due to the same. So, while implementing the scheme, some activities took more time for completion than expected due to the shortage of teaching days.

Nivedita Achanjee

Dr. Nivedita Acharjee

Coordinator, DBT STAR COLLEGE SCHEME

Durgapur Government College

COORDINATOR DBT STAR SCHEME

DURGAPUR GOVERNMENT COLLEGE J.N. AVENUE, DURGAPUR 713214 Dr. Debnath Palit Principal Durgapur Government College



Department	*Objective (as stated in proposal)	% achieved	Reasons for underachi evement / If achieved, state in
Mathematics	surface of revolution (2) Polynomials of higher degree and the derivative graph (3) Sketching of curves and conics (4) Convergence of sequences (5)Family of curves representing solutions of second order differential equation (6)Integral surfaces of a given first order PDE with initial data (7)Student exposure to neighbouring academic institutions and industries of repute (8)Application of programming language C. • The practical outcomes can be stated as (1)Plotting of different types of curves (2)Representing the volume and surface of revolution (3)Graphical representation of convergence of sequences (4)Application of programming language C in various fields (5)MatLab, LATEX & Mathematica.	have been achieved to 100%, More activities under each objective have been planned during the next year to improve the quality of performance	quantitative metrics The end semester examinations scheduled by the university are held for each semester separately. The teaching days were reduced due to the same. So, while implementing the scheme, some activities took more time for completion than expected due to the shortage of teaching days.

Nivedita Achanjee

Dr. Nivedita Acharjee
Coordinator, DBT STAR COLLEGE SCHEME
Durgapur Government College

COORDINATOR
DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

Dr. Debnath Palit Principal Durgapur Government College



Department	*Objective (as stated in proposal)	% achieved	for underachi evement / If achieved, state in quantitative
	Circuit designing using logic gates and multiplexer, Direct application of computer programming knowledge, Nanomaterials and its Application., Integrable Systems and Solitons, Bifurcation Theory, Nonlinear Optics, Dynamics of Conservative Systems, Hamiltonian and Quantum Chaos, Chaos in dynamical system and its applications in physical and biological sciences and telecommunications,	have been achieved to 100%, More activities under each objective have been planned during the next year to improve the quality of performance under the	metrics The end semester examinations scheduled by the university are held for each semester separately. The teaching days were reduced due to the same. So, while implementing the scheme, some activities took more time for completion than expected due to the shortage of teaching days.
			-

Nivedita Acharjee

Dr. Nivedita Acharjee Coordinator, DBT STAR COLLEGE SCHEME Durgapur Government College

DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

Dr. Debnath Palit Principal Durgapur Government College



Department	*Objective (as stated in proposal)	% achieved	Reasons for underachi evement / If achieved, state in quantitative metrics
	field study concepts, while the practical ones are Documentation of Biodiversity, Construction of species distribution maps, Application of open-source software like QGIS, Understanding of the techniques of Chromatography, Protein Purification & SDS-PAGE Electrophoresis, DNA isolation, Enzyme kinetics, ELISA technique, Ouchterlony's double immuno-diffusion method, Pearl Culture technique, Insect collection & preservation technique, Wildlife biology field study techniques, Wildlife photography. Hands on training will be on Bioinstrumentation, Spectrophotometer, Colorimeter, basic field-based techniques on Wildlife Biology: Population Census Techniques, Quadrate sampling, Use of	have been achieved to 100%, More activities under each objective have been planned during the next year to improve the quality of performance under the	The end semester examinations scheduled by the university are held for each semester separately. The teaching days were reduced due to the same. So, while implementing the scheme, some activities took more time for completion than expected due to the shortage of teaching days.

Nivedita Achanjee

Dr. Nivedita Acharjee
Coordinator, DBT STAR COLLEGE SCHEME
Durgapur Government College

COORDINATOR
DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

Dr. Debnath Palit Principal Durgapur Government College

11. ZBSA Status:			
Not Opened	Under Process	Opened but not mapped on PFMS	Account is functional

12. Sanctioned Budget details: (2023-2024)

Total Sanctioned Budget	Total Released Budget	Expenditure	Balance as on 31-03-2024	Remarks (if any)
Grants for creation of Capital Assets (non-recurring)	Rs. 28,69,234.00	Rs. 27,89,545.00 (Balance Amount Refunded to Bharatkosh in January 2024)	0.00	The Non Recurring grant was received in September 2023 and the Recurring Grant Limit was received in
Grants in aid General (Recurring) (Total)	Rs. 10,50,000.00	Rs. 10,50,000.00	0.00	Limit was received in August 2023. The Balance Amount of Non-Recurring refunded to BharatKosh in January 2024 and UC, SOE and Asset Acquired Certificate Submitted in April 2024.

The recurring grant of Rs. 21.00 Lakhs has been sanctioned dated 13-05-2024 and presently under the process of utilization. The UC and SOE will be submitted for the financial year 2024-2025 in due course.

Nivedita Achanjee

Dr. Nivedita Acharjee Coordinator, DBT STAR COLLEGE SCHEME Durgapur Government College

DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

Dr. Debnath Palit Principal Durgapur Government College



Annexure-I

Student Projects, New Experiments, Hands on Training/Experiments undertaken after receiving DBT support during the year (29-09-2023 to 28-09-2024)

[Purchase of equipment, chemicals, consumables, computer, printer, software, contingency items, field study required for these experiments/projects were availed from DBT support!

No.	Organizing Department	0 18 95	Department/Course/ Semester of participating students	Outcome of the Experiment/Project
1	Botany, Chemistry Physic	Student Project on "Extraction and Applications of Essential Oil from botanical sources"	UG Semester- I Botany Honours, UG Semester- III Botany Honours, UG Semester-I Chemistry Honours,	Students initiated the program starting with basics understanding about essential oils and its different chemical structure, the main aim is to extract the essential oil from natural resource like rose petal, lemon grass, lemon peel etc with the help of soxhlet apparatus, finally after extraction the students will analyze the essential oil on basis of chemical and odour composition, synthesis of nano particles and finally product development with proper certification
2	Botany, Zoology	New experiment : "Gram Staining of Bacteria"	UG Semester-I (Botany Honours & UG, Zoology Honours & UG, Chemistry Honours & UG) UG Semester-IV (Botany Honours & Program, Zoology Program) UG Semester VI (Botany Honours)	Both Gram positive Gram negative bacteria were used to educate the participants about the different staining method and to identify different bacteria base on the shape and staining under light microscope
3	Botany, Chemistry, Zoology	New experiment "Use of Thin Layer Chromatography for Lipid Separation"	UG Semester-I (Botany Honours & UG, Chemistry Honours & UG) UG Semester-III (Botany Honours & UG, Chemistry Honours 7 UG)	Students learnt the technique of separation of extraction of lipid from mustard seed and also separation of different lipid class by Thin Layer Chromatography and also learnt the basic aspects of thin layer chromatography
4	Botany and Zoology	Hands on Training on Horticultural Practices at Barjora Horticulture Farm	UG Students of Semester-II, IV of Chemistry, Botany and Zoology	To educate students about organic farming leading to sustainable agriculture Students got the demonstration of the process of nursery build up and several other aspects of organic farming
5	Zoology and Botany	Hands on training Programme on "Prawn Culture" under earning while learning initiatives	Honours and UG Semester- II, IV Zoology & Botany Students	Along with studies, this program aims to develop the latent talent of the students. The workshop was organized on manual prawn farming for income.
6	Zoology	New experiment "Species Composition Analysis"	UG Semester-III, Semester- I and Semester-V Zoology Honours	Students learnt the concept of species composition in an ecosystem and the significance of ecosystems with greater diversity being more productive

Vivedita Achanjee

Dr. Nivedita Acharjee
Coordinator, DBT STAR COLLEGE SCHEME
Durgapur Government College

COORDINATOR
DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

Dr. Debnath Palit Principal Durgapur Government College



No.	Organizing Department	Title of the Experiment/Project	Department/Course/ Semester of participating students	Outcome of the Experiment/Project
7	Zoology	Student Project and Seminar on "Study of different types of birds and their effects on agriculture	UG Honours students of Zoology Department	Students received training on different types of birds, to outline their classification and their effects on agriculture
8	Zoology	New Experiment on Embryological studies of Chick Embryo (24h, 48h, 72 h)	UG Semester V and Semester-III Honours students	Students performed detailed study and analysis of the Embryological studies of Chick Embryo
9	Chemistry	Student project on Studying The Bioactivity Of Amoxicillin And Omeprazole Through Computation	Debam Ghosh (Chemistry Honours)	Students learnt to draw chemical structures using Chem Draw Software Students learnt to prepare mol files using the software Students learnt to do literature survey using the National Library of
10	Chemistry	Student project on Studying The Bioactivity Of Glucose And Fructose Through Computation	Debjeet Show (Botany Honours)	Medicines Students learnt to register and feed structures in the Pass Online Site and predict the bioactivity of chemical compounds through computation Students learnt the basics of
11	Chemistry	Student project on Studying The Bioactivity Of Aspertame And Auxin Through Computation	Dhrubajyoti Akhuli (Chemistry Honours)	Students learnt the basics of
12	Chemistry	Student project on Studying The Bioactivity Of Alpha Pinene And Sarin Through Computation	Kiran Rajbhar (Chemistry Honours)	
13	Chemistry	Student project on Studying The Bioactivity Of Geraniol And Avobenzone Through Computation	Kushal Pramanik (Chemistry Honours)	
14	Chemistry	Student project on Studying The Bioactivity Of Sodium Benzoate And Citalopram Through Computation	Prachi Bhattacharya (Chemistry Honours)	

Nivedita Achanjee

Dr. Nivedita Acharjee
Coordinator, DBT STAR COLLEGE SCHEME

Durgapur Government College

DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

Dr. Debnath Palit Principal Durgapur Government College



No.	Organizing Department	Title of the Experiment/Project	Department/Course/ Semester of participating students	Outcome of the Experiment/Project
15	Chemistry	Student project on Studying The Bioactivity of Sodium Ibuprofen And Oleic Acid Through Computation	Priyabrata Saha (Chemistry Honours)	Students learnt to draw chemical structures using Chem Draw Software Students learnt to prepare mol files using the software Students learnt to do literature survey using the National Library of
16	Chemistry	Student project on Studying the Bioactivity of Rosmarinic Acid And Chrysin Through Computation	Rajashri Maji (Chemistry Honours)	Medicines Students learnt to register and feed structures in the Pass Online Site and predict the bioactivity of chemical compounds through computation Students learnt the basics of computational studies
17	Chemistry	Student project on Studying The Bioactivity Of Isoamyl Acetate And Mefloquine Through Computation	Sanat Mandi (Chemistry Honours)	computational studies
18	Chemistry	Student project on Studying The Bioactivity Of Methyl Salicylate And Carotenoids Through Computation	Subhajit Kar (Chemistry Honours)	
19	Chemistry	Student project on Studying The Bioactivity Of Cannabidiol And Chloroquine Through Computation	Susovan Das (Chemistry Honours)	
20	Chemistry	Student project on Studying The Bioactivity Of "Epicatechin" And "Salicylic Acid" Through Computation	Tania Shyam (Chemistry Honours)	

Nivedita Achanjee

Dr. Nivedita Acharjee
Coordinator, DBT STAR COLLEGE SCHEME
Durgapur Government College

COORDINATOR
DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

Dr. Debnath Palit Principal Durgapur Government College



No.	Organizing Department	Title of the Experiment/Project	Department/Course/ Semester of participating students	Outcome of the Experiment/Project	
21	Chemistry	Student project on Studying The Bioactivity Of Citric Acid And Succinic Acid Through Computation	Utsha Hazra (Chemistry Honours)		
22	Chemistry	New Experiment on "Estimation of Glycine using Sorensen formol titration"	UG Semester-IV Chemistry Honours Students	Students learnt the process of estimation of amino acids using sorensen formol titration	
23	Chemistry New Experiment on "Determination of the amount of phosphate in co drinks using spectrophotometric metho		UG Semester-IV Chemistry Honours Students; UG Semester-I Chemistry Students	Students learnt to determine the amount of phosphate in cold drinks by using the UV-Visible spectrophotometric method.	
24	Chemistry New Experiment on "Estimation of Glucose in Commercial Pack" UG Semester-II Chemistry Honours Students estimated present in the market and		Students estimated the amount of glucose present in Glucon D purchased from market and recorded their findings in practical notebook		
25	Chemistry	Hands on Training on "Application of Thin Layer Chromatography (TLC) for separation of compounds"	UG Chemistry Honours, Mathematics Honours, Zoology Honours, Geology Honours Students	Students learnt to prepare give spots using TLC plates and sheets and measure the R _F values. Mixture of benzoin and benzil were studied for used in hexane, dichloromethane and acetone.	
26	Chemistry	New Experiment "Estimation of Vitamin C in fruits and vegetables"	UG Chemistry Honours, Mathematics Honours	Students estimated the amount of Vitamin C present through iodometric estimation in locally available fruits and vegetables	
27	Chemistry	New Experiment "Isolation of Essential oil (eucalyptus oil) by Steam Distillation Method"	UG Semester-IV Chemistry Honours students	Students learnt the process of isolation of essential oil using steam distillation set up apparatus,	
28	Chemistry	New Experiment on Milk Testing Preparation of Sample of Milk for testing Determination of Cane Sugar in Milk; Detection of Starch in Milk; Detection of Ammonium Compounds in Milk	UG Semester-II and UG Semester-IV Chemistry Honours Students	Students learnt the procedure of milk testing for the milk samples available in market following the government guidelines mentioned in manual of Food Safety and Standards Authority of India (FSSAI), Ministry of Health and Family Welfare Government of India	
29	Chemistry, Geology and Mathematics	Student Project on "Industrial Pollutant Concentration Assessment in Ground Water"	UG Semester-II and UG Semester-IV Chemistry Honours, Geology Honours and Mathematics Honours	Students measured different parameters of ground water samples such as BOD, pH, alkalinity, COD etc collected from 9 sites of Durgapur using titrimetric analysis and also by using water analyzer. The next part of the student project is under process for determination of the microbial population, iron and heavy metals.	

Nivedita Achanjee

Dr. Nivedita Acharjee Coordinator, DBT STAR COLLEGE SCHEME Durgapur Government College

COORDINATOR
DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

Dr. Debnath Palit Principal Durgapur Government College



No.	Organizing Department	Title of the Experiment/Project	Department/Course/ Semester of participating students	Outcome of the Experiment/Project
30	Geology	Student Project on "Interpretation of palaeoflow direction from orientation of vertebrate bones in a bone bed: An experimental revelation"	UG Semester-VI Semester Geology Honours	Students used vertebrate bones in artificially generated water simulating a river and determined the pattern of direction generated for different bone shape and sizes. By alalyzing and distribution of bones student learnt how the bones were deposited in a bone bed, and actual mechanism responsible for their transport. Successful determination of palaeoflow direction had been used to reconstruct ancient landscape, river system etc.
31	Geology	Student Project on "Geochemical comparison basalts of Satpura Gondwana basin and Deccan, Siberian and Rajmahai Trap "	UG Semester-VI Semester Geology Honours	Student studied basaltic rock samples samples from Satpura Gondwana basin and compared it with data available through literature survey on basaltic rocks from Deccan, Siberian and Rajmahal Trap. The basalts from the Satpura Gondwana Basin exhibited unique geochemical characteristics that differentiate them from those of the Deccan, Siberian, and Rajmahal Traps. Variations in major and trace element compositions, as well as rare earth element (REE) patterns, indicate differing magma sources and degrees of partial melting. Isotopic analyses (Sr-Nd-Pb) revealed that the mantle sources of the Satpura Gondwana basalts were likely more heterogeneous compared to the relatively homogenous mantle plume sources of the Deccan and Siberian Traps.
32	Geology	Student Project on "Interpretation of palaeohydraulic conditions from published morphometric data of experimentally generated current ripple: a critical appraisal"	UG Semester-VI Semester Geology Honours	The project critically appraised published morphometric data of experimentally generated current ripples to interpret palaeohydraulic conditions. Key outcomes are: The study revealed that morphometric relationships between ripple dimensions (e.g., wavelength, height) and flow conditions can be reliable indicators of past hydraulic environments when carefully applied. The appraisal highlighted that while morphometric data can provide valuable insights into flow velocity, depth, and sediment transport, their accuracy is dependent on the quality and scale of the experimental data. The project emphasized the need for standardized experimental methods and data collection techniques to improve the robustness of palaeohydraulic reconstructions.

Nivedita Achayee

Dr. Nivedita Acharjee
Coordinator, DBT STAR COLLEGE SCHEME
Durgapur Government College

COORDINATOR
DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

Dr. Debnath Palit Principal Durgapur Government College



No.	Organizing Department	Title of the Experiment/Project	Department/Course/ Semester of participating students	Outcome of the Experiment/Project
33	Geology	Student Project on "Corona formation around monazite during high grade reworking of coarse grained charnockite: a case study from northern Eastern Ghats Belt.	UG Semester-VI Semester Geology Honours	The study revealed widespread formation of monazite coronas around pre-existing monazite grains in coarse-grained charnockites, indicating complex high-grade metamorphic reworking. Textural relations and mineral chemistry suggest multiple stages of metamorphism, including an initial high-pressure granulite-facies event followed by isobaric cooling and subsequent retrogression.
				The observed corona formations provide evidence of polyphase tectonothermal activity in the Northern Eastern Ghats Belt, supporting a model of prolonged and complex orogenic evolution. The results have significant implications for understanding the tectonothermal history of the Eastern Ghats Belt, highlighting the role of repeated tectonic reactivation in shaping the crustal evolution of this ancient orogenic belt.
34	Geology	Student Project on "Metamorphic reaction and melt composition during incipient melting of hornblende in mafic granulite: a case study from northern Eastern Ghats Belt"	UG Semester-VI Semester Geology Honours	The outcome highlights the project's contribution to understanding the incipient melting processes, melt composition, and geodynamic evolution of the Northern Eastern Ghats Belt, shedding light on the complex orogenic history of this ancient crustal domain. Hornblende breakdown reactions were identified, yielding melt, plagioclase, and orthopyroxene, indicating initial stages of partial melting in mafic granulites.
				Microanalytical data reveal melt compositions rich in SiO2, Al2O3, and alkalis, with variable amounts of FeO and MgO, indicating derivation from a hydrated mafic source. P-T Conditions: Thermobarometry and pseudosection modeling constrain incipient melting conditions to 850-920°C and 8-10 kbar, corresponding to upper amphibolite to lower granulite facies.

Nivedita Achanjee

Coordinator, DBT STAR COLLEGE SCHEME
Durgapur Government College

COORDINATOR
DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

Dr. Debnath Palit Principal Durgapur Government College



No.	Organizing Department	Title of the Experiment/Project	Department/Course/ Semester of participating students	Outcome of the Experiment/Project
35	Geology	Student Project on "Environmental conditions and its influence on biosphere: a case study in and around Durgapur with special emphasis on air quality index".	UG Semester-VI Semester Geology Honours	Student came to learn assessing levels of particulate matter (PM2.5 and PM10), NO2, and SO2 and compare them with national standards, indicating poor air quality. Industrial activities, vehicular emissions, and biomass burning contribute significantly to air pollution. Vegetation studies indicate stress and damage to plant species due to air pollution. Human health risks include respiratory issues, cardiovascular diseases, and cancer.
36	Geology	New experiment "Introduction to the fossil record of Triassic terrestrial vertebrate life forms"	UG Semester-II & IV (Geology)	Students learnt about Triassic vertebrate life forms which are crucial for advancing our understanding of vertebrate evolution, biodiversity patterns, and environmental adaptations. It contributes to the broader field of palaeontology and helps us make connections between past life forms and the world we live in today.
37	Geology	eology New experiment "Uses of GPS"	UG Semester-II & IV (Geology)	Students learnt GPS operation, developed practical skills in navigation and mapping Understand the technology behind location-based services - Enhance their fieldwork and data collection capabilities which will expand their career opportunities in various industries - Research and Data Collection: GPS is used in various research fields, such as ecology, biology, and Geology to collect data and track movements.
38	Geology	New experiment "GPS data input into QGIS"	UG Semester- III & V (Geology)	Students came to understand the technology behind location-based services enhance their fieldwork and data collection capabilities - They became capable in importing GPS DATA file into the QGIS platform and making overlay with Open Street Map by which they came to know their respective locations within the Map.

Nivedita Achanjee

Dr. Nivedita Acharjee
Coordinator, DBT STAR COLLEGE SCHEME

Durgapur Government College

COORDINATOR
DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

Jan 1

Dr. Debnath Palit Principal Durgapur Government College



No.	Organizing Department	Title of the Experiment/Project	Department/Course/ Semester of participating students	Outcome of the Experiment/Project
39	Geology & Physics	New experiment "Groundwater Exploration"	UG Semester- III & V (Geology & Physics)	Students got the opportunity to take data for Groundwater Exploration Using Resistivity Meter through Schlumberger Method. The study demonstrates the effectiveness of the Schlumberger method in: - Improving groundwater resource management - Enhancing drilling operation success rates - Understanding subsurface geology and hydrogeological processes They came to know how a field investigation can be proceeded using the Schlumberger method successfully identified potential aquifers and waterbearing zones.
40	Geology	Hands on Experiment "Rock Thin Section Preparation"	UG Geology Honours	Students learnt to prepare rock thin section using rock cutter and petrothin. They also learnt safety measures to be adopted while cutting the rock samples. They also learnt the techniques of mounting the samples on glass slides and polishing of samples
41	Geology	Hands on Experiment on "Stereonet & Stereoplot"	UG Geology Honours Students	Students learnt how to use stereonets and stereoplots which is essential for geologists and structural geologists as these tools provide a powerful means of visualizing and analyzing geological structures in three dimensions, aiding in structural analysis, fault and fracture characterization, tectonic studies, and geological mapping
42	Mathematics , Chemistry and Physics	Hands on training on "Open Source Hardware and Software: The Raspberry Pi"	UG Mathematics, Chemistry and Physics Honours; All semesters	The Raspberry Pi is a very cheap computer that runs Linux, but it also provides a set of GPIO (general purpose input/output) pins, and allows the user to control electronic components for physical computing and many other applications. Students received the fundamental overview of the same.
43	Mathematics	Hands on Training on "Data Analysis"	UG Semester-I & III Mathematics Honours	Students were able to learn some basics about data analysis using Microsoft Excel.

Nivedita Achanjee

Dr. Nivedita Acharjee Coordinator, DBT STAR COLLEGE SCHEME Durgapur Government College

COORDINATOR
DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

The same of the sa

Dr. Debnath Palit Principal Durgapur Government College



No.	Organizing Department	partment Experiment/Project	Department/Course/ Semester of participating students	Outcome of the Experiment/Project
44	Physics	New experiment: Determination of Planck's constant using photo-electric effect	Semester VI Physics Honours students	From this experiment the students learnt the theory of quantum mechanics and got hands-on experience.
45	Physics	New experiment: To find an unknown capacitance using De' Sauty's AC bridge	Semester VI Physics Honours students	This experiment aims to compare the capacitance values of two given capacitors in an AC Wheatstone bridge circuit. So eventually if one of the capacitance values is known, then this circuit enables to find the capacitance of the other.
46	To study the Photo-electric Effect photo current versus intensity		Semester IV and VI Physics Honours students	Students had their hands-on experience how photo current changes with change of intensity. They verified the theoretical expression of Quantum Mechanics.
47	Physics	vsics New experiment: To study and Semester IV and VI Physics From to verify Resonance in series LCR Honours students the the		From this experiment the students learnt the theory of series LCR circuit and got hands-on experience.
48	Physics	New experiment:To verify the Malus Law for Plane Polarized light	Semester IV and VI Physics, Chemistry, Botany, Zoology Honours students	One aims to verify the stated law by studying the variation of the intensities of transmitted light through an analyser with different angles between the optic axes of the polariser and analyser.
49	Physics	New experiment:Preparation of ZnO nanoparticles by co- precipitation method	Semester IV and VI Physics, Chemistry, Botany, Zoology Honours students	This gave ideas to the students about recent trends of research activities, specially one preparation method in the field of nanoparticles.
50	Physics	Physics New Experiment: "Preparation of silver nanoparticles from Physics, Azadirachta indica (Neem) Major st		Students learned the role of Neem leaves as reducing agents to prepare silver nano particle from silver nitrate solution.
51	Physics	Black Hole" Honours Students formation of the b		Students learned the basic ideas behind the formation of the black hole and the theoretical understanding through General Theory of Relativity.
52	Physics	Students' project on "Electrostatics as a boundary value problem"	Semester V Physics Honours Students	Students learned the mathematical techniques to handle Poisson equation for spherical polar coordinate. They could match their calculation with the theory of image connected through uniqueness theorem.

Nivedita Achanjee
Dr. Nivedita Achanjee

Coordinator, DBT STAR COLLEGE SCHEME Durgapur Government College

COORDINATOR
DBT STAR SCHEME
DURGAPURIGOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

A.

Dr. Debnath Palit Principal Durgapur Government College



Annexure-II

Mapping of the Practical Experiments included in Course Curriculum with the equipment/chemicals purchased from DBT support (29-09-2023 to 28-09-2024)

[Purchase of equipment, chemicals, consumables, computer, printer, software from DBT support]

SI No.	Dept	Course/ Semester	Name of the Practical Experiment	Status of the conduction of the practical/ experiment pre support	Equipment/ Chemical/Consumable/ Computer/printer/Softw are purchased from DBT support	Status after receiving the DBT support	
1	Botany	UG Honours/Se mester-VI	Plasmid isolation	Not able to be done by departmental student due to lack of equipment and chemicals/consum ables.	by departmental student due to lack of equipment and chemicals/consum	Bacterial strain with plasmid, Antibiotics	Individual students can perform the
2	Botany	UG Honours/Se mester-VI	DNA separation by electrophoresis			DNA gel electrophoresis unit, DNA ladder, loading dye, EtBr	experiments
3	Botany	UG Honours/Se mester-VI	Restriction mapping of DNA		Restriction mapping kit		
4	Botany	UG Honours/Se mester-VI	Seed germination in sterile condition	-		MS media, LAF	
5	Botany	UG Honours/Se mester-VI	Callus induction		Plant growth regulators		
6	Botany	UG Honours/Se mester-I	Carbohydrate estimation by Molisch test		Alpha Napthol		
1	Chemistry	UG Honours/Se mester-IV	Conductometric titrations of an acid or a base (acid may be monobasic/dibasic, and similarly for the base)	Done by students in groups(poor equipment : student ratio)	Digital Conductivity Meter with Conductivity Cell (0.1);	Improvement in Equipment: student ratio due to purchase of multiple copies of the equipment	
2	Chemistry	UG Honours/Se mester-VI	Kinetics of saponification of ester by conductometric method	Done by students in groups(poor equipment: student ratio)			
3	Chemistry	UG Honours/Se mester-VI	Conductometric verification of Ostwald dilution law	Done by students in groups(poor equipment: student ratio)			
4	Chemistry	UG Honours/Se mester-IV	Potentiometric titrations of an acid or a base (acid may be monobasic/dibasic, and similarly for the base)	Done by students in groups(poor equipment: student ratio)	Digital Potentiometer	Improvement in Equipment: student ratio due to purchase of multiple copies of the equipment	

Nivedita Achanjee

Dr. Nivedita Acharjee Coordinator, DBT STAR COLLEGE SCHEME Durgapur Government College

DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

Dr. Debnath Palit Principal Durgapur Government College



SI No.		Course/ Semester	Name of the Practical Experiment	Status of the conduction of the practical/ experiment pre support	Equipment/ Chemical/Consumable/ Computer/printer/Softw are purchased from DBT support	Experiment can now be performed by students	
6	Chemistry	Honours/Se mester-VI	cation exchanger	Demonstrated only due to lack of equipment	Ion Exchange Region and Ion Exchange Column		
7		Honours/Se mester-VI	Colorimetric determination of pKin of methyl red	Done by students in groups(poor equipment: student ratio)	Digital Colorimeter Total Quantity	Improvement in Equipment: student ratio due to purchase of multiple copies of the	
	Chemistry	UG Honours/Se mester-V	Rearrangement reaction : Benzil-benzilic acid rearrangement	Done by students in groups(poor equipment: student ratio)		equipment	
8	Chemistry	UG Honours/Se mester-IV	Identification with general reaction and tests of the liquid organic samples	Identification of liquid samples in done in groups since distillation and boiling point determination is done in groups due to poor equipment:student ratio]	Oil free Vacuum pump, Melting point Apparatus, Boiling point apparatus, Temperature controlled water bath, Heating Mantle	Improvement in equipment: student ratio due to purchase of equipment	
)	Chemistry	UG Honours/Se mester-III	Qualitative analysis of inorganic compounds	Poor equipment : student ratio			
	Geology	UG Honours/Se mester-V	Georeferencing, Digitisation, Digital Image Processing using QGIS software	Done by students in groups (poor equipment : student ratio)	HP Desktop	Improvement in Equipment: student ratio due to purchase of multiple copies of the equipment	
	Geology	UG Honours/Se mester-VI	Study of ore minerals under microscope	Done by students in groups(poor equipment: student ratio)	Ore 0 microscope		
	Geology	UG Honours/Se mester-III, V	Optical Mineralogy, Study of rock thin section under microscope	Done by students in groups(poor equipment: student ratio)	Petrological Microscope		
	Geology	UG Honours/Se mester-V	Georeferencing using GPS	Done by students in groups (poor equipment : student ratio)	GPS		

Nivedita Achanjee

Dr. Nivedita Acharjee
Coordinator, DBT STAR COLLEGE SCHEME
Durgapur Government College

COORDINATOR
DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

Dr. Debnath Palit Principal Durgapur Government College



SI No.	Dept	Semester	Semester Experiment		Equipment/ Chemical/Consumable/ Computer/printer/Softw are purchased from DBT support	w DBT support	
	Physics	Honoure Chemicals, C		Chemicals, Consumables, Oil free vacuum pump	Experiment car now be performed by students		
2	Physics	UG Honours (Semester- III & V)	Preparation of NiO nanoparticles by Sol-Gel method.		Magnetic Stirrer with hot plate and digital speed indicator		
3	Physics	UG Honours (Semester III)	Determination of coefficient of linear expansion with travelling microscope/Telescope	Demonstrated only due to lack of equipment	Set-up of Coefficient of linear expansion with travelling microscope/Telescope	Experiment can now be performed by students	
4	Physics	UG Honours (Semester V)	Measurement of Planck's constant using black body radiation and photo detector-	Equipment Student ratio was poor	Set up for the Experiment	Equipment Student ratio has been improved	
5	Physics	(Semester V)	Photo-electric effect: photo current versus intensity and wavelength of light; maximum energy of photo-electrons versus frequency of light	Equipment Student ratio was poor	Set up for the Experiment	Equipment Student ratio has been improved	
6	Physics	UG Honours (Semester V)	To determine work function of material of filament of directly heated vacuum diode	Equipment Student ratio was poor	Set-up for determination of work function of material of filament of directly heated vacuum diode	Equipment Student ratio has been improved	
7	Physics	UG Honours (Semester V)	Diffraction Grating-	Equipment Student ratio was poor	Set-up of Diffraction Grating-	Equipment Student ratio has been improved	
	Physics	UG Honours (Semester III)	To study response curve of a Series LCR circuit and determine its (a) Resonant frequency, (b) Impedance at resonance, (c) Quality factor Q, and (d) Band width	Equipment Student ratio was poor		Equipment Student ratio has been improved	
	Physics	UG Honours (Sem I & II)	Three motion travelling microscope	Equipment Student ratio was poor	microscopė	Equipment Student ratio has been improved	

Nivedita Achanjee

Dr. Nivedita Acharjee

Coordinator, DBT STAR COLLEGE SCHEME

Durgapur Government College

DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

Dr. Debnath Palit Principal Durgapur Government College



SI No.		Course/ Semester	Name of the Practical Experiment	Status of the conduction of the practical/ experiment pre support	Equipment/ Chemical/Consumable/ Computer/printer/Softw are purchased from DBT support	Status after receiving the DBT support	
10	Physics	UG Honours (Semester I & II)	ICT enabled classes	Classes using ICT tools could not be taken	Smart Board	ICT enabled teaching	
11	Physics	(Semester V)	High Intensity Discharge Tube with Compatible voltage source and stand	Equipment Student ratio was poor	High Intensity Discharge Tube with Compatible voltage source and stand	Equipment Student ratio has been	
12	Physics	UG Honours (Semester I to VI)	To determine the velocity of light	Demonstrated only due to lack of equipment	Microwave oven to determine the velocity of light	Equipment Student ratio has been	
13	Physics	UG Honours (Semester V& VI)	Electronic experiments to measure voltage, current, frequency, etc.	Equipment Student ratio was poor	CRO (Analog dual trace 4 channel-60MHz Bandwidth with probes) - Systronics	Equipment Student ratio has been	
14	Physics	UG Honours (Semester III & IV)of Physics, Chem & Math	To compare capacitances using De'Sauty's bridge	Demonstrated only due to lack of equipment	De'Sauty's bridge	New experiment performed	
15	Physics	UG Honours (Semester I to VI)	Computational Classes prescribed in curriculum	Poor Computer: student ratio	Desktop Computer	Computer: student ratio improved	
16	Physics	UG Honours (Semester III to VI)	Charge Discharge Key	Equipment Student ratio was poor	Charge Discharge Key	Equipment Student ratio improved	
17	Physics	UG Honours (Semester I)	Determination of coefficient of linear expansion with travelling microscope/Telescope	Equipment Student ratio was poor	Set up for determination of coefficient of linear expansion with travelling microscope/Telescope	Equipment Student ratio improved	
1	Zoology	UG SEMETER-I (HONOURS) (LOCF)	Ecology: To measure microclimatic variables viz., temperature, humidity and light conditions in a microhabitat	Done by students in groups(poor equipment : student ratio	Chemicals and Consumables, Glass instruments	Improvement in real time practical aptitude due to purchase of consumables	
2	Zoology	(HONOURS) I(LOCF)	Ecology: Constructing distribution map of species of a genus through GPS by estimating the coordinates	Done by students in groups(poor equipment: student ratio)	Arc-GIS SOFTWARE	Experiment can now be performed by students	

Nivedita Acharjee

Dr. Nivedita Acharjee

Coordinator, DBT STAR COLLEGE SCHEME

Durgapur Government College

COORDINATOR
DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214



Dr. Debnath Palit Principal Durgapur Government College



SI No.		Course/ Semester	Name of the Practical Experiment	Status of the conduction of the practical/ experiment pre support	Equipment/ Chemical/Consumable/ Computer/printer/Softw are purchased from DBT support	Status after receiving the DBT support	
(HON		SEMESTER II (HONOURS) (LOCF)	Cytology And Histology: Experiment: Isolation (Ethanol ppt) and estimation (Diphenylamine reaction) of DNA (blood/liver tissue).	Done by students in groups(poor equipment : student ratio)	Vortex cyclomixer, Chemicals and Consumables	Experiment can now be performed by students	
4	Zoology	UG SEMETER IV (LOCF)	Developmental Biology & Evolution Study of development of chick embryo through incubated chick eggs at 24, 48, 72 & 96 h.	Demonstrated only due to lack of equipment	Incubator, Chemicals and Consumables	Experiment can now be performed by students	
5	Zoology	UG SEMETER IV(LOCF	Molecular Biology Isolation of genomic DNA by ethanol precipitation method.	Demonstrated only due to lack of chemicals	Chemicals and Consumables	Experiment can now be performed by students	
6	Zoology	UG SEMETER IV IV(LOCF)	Bio techniques: Identification of amino acids in the mixture using paper Chromatography.	Demonstrated only due to lack of chemicals	Chromatographic Tank with Lid, Chemicals and Consumables	Experiment can now be performed by students	
7.	Zoology	UG SEMETER IV IV(LOCF)	Microbiology, Parasitology & Immunology Demonstration of antigen-antibody interaction in gel.	Demonstrated only due to lack of chemicals	Chemicals and Consumables	Experiment can now be performed by students	

Nivedita Achanjee

Dr. Nivedita Acharjee Coordinator, DBT STAR COLLEGE SCHEME Durgapur Government College

DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214



Dr. Debnath Palit Principal Durgapur Government College

DURGAPUR GOVERNMENT COLLEGE



Annexure-III

Seminars /Workshops/ Invited lectures organized during the year (29-09-2023 to 28-09-2024)

[Purchase of equipment, computer, printer, software, chemicals, consumables, contingency items, travel, remuneration to resource persons from DBT support]

No.	Date of the event	Organizing Department	Name of the Event	Resource Persons/In House Faculty members	No. of participa nts	Outcome
1	26-09-2024	Zoology, Botany and Chemistry	Invited Lecture and Interactive Session on " Structural Biology of Neuro- degeneration	Dr. Krishnananda Chattopadhyay, Chief Scientist & Head, Structural Biology & Bioinformatics Division, CSIR-Indian Institute of Chemical Biology, Kolkata	53	The eminent resource person explained the basics of structural biology with interdisciplinary dimension in student friendly way
2	11-09-2024 to 18-09-2024	Zoology	Training Workshop on "Basic Techniques in Molecular Biology"	Dr. Sumana Dutta, Assistant Professor, Department of Zoology, Durgapur Government College, Dr. Sangbrita Saha Chattoraj, Assistant Professor, Department of Zoology, Durgapur Government College, Dr. Somnath Dhali, Assistant Professor, Department of Zoology, Durgapur Government College, Dr. Kuntal Bhattacharya, Assistant Professor, Department of Zoology, Durgapur Government College	37	Hands-on training was conducted on the following topics in the workshop How to extract DNA from animal and Plant tissue. How to extract protein from animal and Plant tissue. Practical experimentation from casting agarose gels and loading samples into the gels to visualize DNA fragments using UV - light DNA Quantification using spectrophotometer Students also learnt about cloning, PCR, SDS-PAGE, and Western blotting Students also prepared their respective reports on the workshop,

Nivedita Achanjee

Dr. Nivedita Acharjee Coordinator, DBT STAR COLLEGE SCHEME Durgapur Government College

COORDINATOR

DBT STAR SCHEME

DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214



Dr. Debnath Palit Principal Durgapur Government College



No.	Date of the event	Organizing Department	Name of the Event	Resource Persons/In House Faculty members	No. of participa nts	Outcome
3	19-09- 2024; 20- 09-2024; 23-09-2024 and 24-09- 2024	All participating departments	Training Workshop on Basic Home Appliances and "Instrumentati on Process and Control of Different Scientific Equipment	Ananta Nandi and Shri Ansuman Saha from Government Industrial Training Institute,	26	Students received hands on training to operate different electrical equipment along with the demonstration of the instrumentation and the basic principles of operation of these appliances and scientific equipments and electrical circuits.
4	18-09-2024	Geology	Invited Lecture and interactive session "The relation between mantle dynamics and plate tectonics"	Dr. Jyotirmoy Paul, Marie Curie postdoctoral fellow, Oslo, Norway	29	Students got a comprehensive overview of the intricate relationship between mantle dynamics and plate tectonics. Mantle Convection as the Driving Force: The lecture emphasized how convection currents in the Earth's mantle are the primary driving force behind plate movements, including spreading, subduction, and collision.
5	13-09-2024	Botany, Zoology and Chemistry	Invited lecture and Interactive Session on "Sir Upendranath Brahmachari & Leishmania research in India"	Dr. Syamal Roy Emeritus Professor, Indian Institute of Chemical Biology, Kolkata	95	The resource person provided an overview on the evolution of Leishmania research in India in a student friendly way for undergraduate students.
6	21-08-2024	All participating departments	Invited lecture and interactive session on " Emerging and Re-emerging Viral Diseases: Host Immunity and Therapeutic Interventions"	Professor Anirban Basu, Scientist, National Brain Research Institute, Manesar, Haryana	92	Students received valuable insignts on the viral diseases and the therapeutic interventions. Students actively interacted with the resource person and asked several questions related to the topic during the interactive session.

Nivedita Achayee

Dr. Nivedita Acharjee
Coordinator, DBT STAR COLLEGE SCHEME
Durgapur Government College

COORDINATOR
DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

A.

Dr. Debnath Palit Principal Durgapur Government College



No.	event	Organizing Department	Name of the Event	Resource Persons/In House Faculty members	No. of participa nts	Outcome
7	20-08-2024	Geology & Physics	Invited Lecture "Constraining lunar crustal composition and hydration through imaging spectr oscopy"	Satadru Bhattacharya, Planetary Science Division, ISRO, Ahmedabad	35	Students have got the chance to interact with the eminent scientist as well as our alumnus to resolve their quires relating Moon Mission and about the geological aspects Lunar Crustal Composition.
8	17-08-2024	Chemistry	Workshop on "Calibration and Set up of pH meter, Potentiometer, Conductivity Meter, Water analyzer and Visible Spectrophotom eter for UG students"	Shri Krishnendu Roy, Systronics India Limited, Dr. Nivedita Acharjee, Assistant Professor, Department of Chemistry, Durgapur Government College and Asmita Mondal, UGC Research Scholar, Department of Chemistry, Durgapur Government College	10	Students learnt the process of calibration of different instrements and their working principle, namely the pH meter, spectrophotometer, Water Analyzer, Potentiometer and Conductivity meter.
9	10-08-2024	Botany, Chemistry, Zoology	Workshop on " Augmentation of Scientific aptitude through bioinnovation and entrepreneurs hip"	Dr. Arup Kumar Mitra. Associate Professor Postgraduate And Research Department of Microbiology St. Xavier's College, Kolkata and research scholars working under Dr. Mitra.	62	Students received the overview of Marvel of Global PGP in paddy production, organic tea production, Solutions for Lead-Free Agriculture and Entrepreneurial Exercises in Biological Sciences. Students received hands on training session on the NPK determination of soil.
10	08-08-2024	Botany	Workshop on "happy mushroom gardening"	Mr. Anujit Das, Earth Star Mushroom	48	This is an initiative under earn while you learn where participants got an understanding about low cost mushroom farming and techniques where they have actually grown their mushroom

Nivedita Acharjee

Dr. Nivedita Acharjee
Coordinator, DBT STAR COLLEGE SCHEME
Durgapur Government College

DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

Dr. Debnath Palit Principal Durgapur Government College



No.	event	Organizing Department	Name of the Event	Resource Persons/In House Faculty members	No. of participa nts	Outcome
11	26-07-2024	Chemistry	Invited Lecture and Interactive Session (Through Online Mode) "Chemical Toxicology with special emphasis on Heavy Metal Toxicity"		17	Students received understanding of the fundamental aspects of chemical toxicology to undergraduate students. The adverse aspects of heavy metal pollution, especially the inorganic form of arsenic were discussed in this invited lecture and interactive session.
12	22-07-2024	Mathematics	Invited lecture on "Introduction to graph coloring and applications"	Dr. Samir Shukla, Assistant Professor of Mathematics, IIT Mandi	25	In this lecture, students learned about graph colouring and its applications used in mathematical modelling and to analyse various types of networks, including social networks, communication networks, transport networks, and electrical circuits.
13	18-07-2024 and 19-07-2024	All participating departments	Training Workshop on "Basic Electrical Equipment and Home Appliances"	Shri Ramesh Rakshit, Instructor, Government Industrial Training Institute, Durgapur, National Awardee Teacher 2023 from West Bengal; Awarded by Ministry of Skill Development and Entrepreneurship, Government of India and All instructors of Government Industrial Training Institute, Durgapur	26	Students received hands on training to operate different electrical equipment along with the demonstration of the instrumentation and the basic principles of operation of these appliances and scientific equipments and electrical circuits.
14	10-07-2024	Botany, Zoology	"Hands on Training Programme on Prawn Culture"	Dr. M. Pravin Kumar Biome biologicals Private Limited		This is an initiative under earn while you learn where participants got an understanding about the techniques of prawn culture.

Nivedita Achanjee

Dr. Nivedita Acharjee
Coordinator, DBT STAR COLLEGE SCHEME
Durgapur Government College

DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

Dr. Debnath Palit Principal Durgapur Government College



No.	Date of the event	Organizing Department	Name of the Event	Resource Persons/In House Faculty members	No. of participa nts	Outcome
15	16-02-2024 09-7-2024	Physics, Chemistry, Mathematics	Invited online talk on "Magnetic Refrigeration: future prospects and Challenges"	Dr. Anis Biswas, Staff Scientist, Ames National Laboratory, Iowa State University, USA.	30	Students learned on preliminary idea on magnetic refrigeration as alternative promising route of cooling and its future prospects for daily life implementations.
	(Theory/ Tutorial) and 19-7-2024 (Hand on session)	Physics and Mathematics	2-Day workshop on "Scientific computation with C for beginners"	Dr. Somnath Bhattacharya, Dept of Physics, and Dr. Amiya Biswas, Dept of Mathematics, and Dr. Anjan Raychowdhury, Dept of Economics, Durgapur Govt College	22	Participants learned powerful computational techniques for investigating a scientific problem through generating a code in C. They are now equipped to explore his scientific problems through numerical techniques.
17	04-07-2024	Physics, Chemistry, Mathematics,	Invited online talk on "An Introduction to the world of Nanomaterials"	Dr. Diptonil Banerjee, Associate Professor, Department of Physics, Teerthankar Mahaveer University, Moradabad,	35	Students learned on basic ideas of nano-scale materials and related to structural and electrical properties.
18	18-06-2024	Chemistry, Geology and Mathematics	Workshop on the Use of Water Analyzer	Mr. Krishnendu Roy from Systronics India Limited and Miss Asmita Mondal, Research Scholar (UGC), Department of Chemistry, Durgapur Government College	62	Students learnt to operate the water analyzer and
19	13-06-2024	Geology & Chemistry	Invited Lecture "Aspects of Sedimentology "	Prof. (Dr.) Subir Sarkar, Department of Geological Sciences, Jadavpur University, Kolkata	24	Students learnt the basics of research areas related to the sedimentology, basin analysis and have got the chance to interact with the scientist to resolve their quires relating different facets of Sedimentology.
20	13-06-2024	Geology & Zoology	"Aspects of Metamorphic Petrology"	Prof. (Dr.) Pulak Sengupta, Department of Geological Sciences, Jadavpur University, Kolkata	24	Students have got the chance to interact with the eminent scientist and Bhatnagar Awardee to resolve their quires relating different facets of Metamorphic Petrology

Nivedita Achanjee

Dr. Nivedita Acharjee
Coordinator, DBT STAR COLLEGE SCHEME
Durgapur Government College

COORDINATOR
DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214



Dr. Debnath Palit Principal Durgapur Government College



No.	Date of the event	Organizing Department	Name of the Event	Resource Persons/In House Faculty members	No. of participa nts	Outcome
21	04-06-2024	Botany, Chemistry, Zoology	Workshop on " Biological Waste Disposal "	Dr. Eliza Chakraborty Professor of Biotechnology Department of Biotechnology, Meerut Institute of Engineering and Technology & HOD of DST-FIST Center, MIET	82	This workshop demonstrated different techniques suitable for disposal of biological waste generated in the laboratories.
22	29-05-2024	Botany and Zoology	Seminar on "Addressing Ecological Concerns in and around the city of Durgapur: Fundamental aspects of some research prospects"	Dr. Debnath Palit, Principal, Durgapur Government College	95	The resource person provided detailed overview of the research prospects related to green belt development, water and soil quality analysis of the pitlakes and other related solutions for ecological concerns in and around Durgapur city
23	29.05.2024	Mathematics	Invited lecture on "Limit of Functions"	Dr. Arijit Ganguly, Assistant Professor of mathematics, IIT Kanpur	25	Students learnt about the limit of functions, which is a fundamental concept in calculus and analysis concerning the behavior of that function near a particular point which may or may not be in the domain of the function.
24	25-05-2024	Geology, Zoology & Mathematics	Invited Lecture "Diversification patterns of Phanerozoic Marine Invertebrates"	Dr. Subhronil Mondal, Department of Earth Sciences, IISER, Kolkata	50	Students have got the exposure to the methods used to study marine invertebrate diversity, including fieldwork, laboratory techniques, and data analysis.
25	24-05-2024	Geology & Zoology	Invited Lecture "Foraminifera as Sea Level Indicators"	Dr. Rajani Panchang, Dept. of Environmental Sciences, Savitribhai Phule Pune University	41	Students learnt how variations in foraminiferal species and their abundance can indicate historical changes in sea level and how these changes can be correlated with global climate events.

Nivedita Acharjee

Dr. Nivedita Acharjee
Coordinator, DBT STAR COLLEGE SCHEME
Durgapur Government College

DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

Dr. Debnath Palit Principal Durgapur Government College



No.	Date of the event	Organizing Department	Name of the Event	Resource Persons/In House Faculty members	No. of participa nts	Outcome
26	24-05-2024	All participating Departments	Invited Lecture on "Intellectual Property Rights in Indian Scenario"	Dr. Anju T R. Assistant Professor and Head, Department of Biotechnology Coordinator, DBT STAR COLLEGE SCHEME Newman College, Thodupzha- 685 585, Kerala, India	49	Students learnt about the various prospects of IPR such as filing patents, biodiversity register, Geographical Indication (GI) research publications etc.
27	23-05-2024	Physics, Chemistry,	Invited online lecture and Interactive Session on "A Journey into Quantum Land"	Prof. Anirban Pathak, Professor and Head, Department of Physics, Materials Science and Engineering, Jaypee Institute of Information Technology, Noida.	32	Students learned on basic ideas of Quantum Mechanics and its application to fabricate small scale materials.
28	22-05-2024	Geology, Zoology & Botany	Invited Lecture "Application of Foraminifera in Palaeoenviron mental & Palaeoclimatic Analysis" Organized by: Department of Geology, Zoology & Botany	Dr. Urbashi Sarkar, Dept. of Earth Sciences, Assam University, Silchar	31	Students learnt how foraminifera can be used as indicators of past environmental conditions, including salinity, temperature and sea level changes
29	20-05-2024	Chemistry	Invited lecture on "Visualizing DNA in action: A Multidisciplina ry research methodology Approach"	Dr. Padmaja Prasad Mishra, Associate Professor, Division: Chemical Sciences, Saha Institute of Nuclear Physics, Kolkata	35	This invited lecture imparted the understanding of the fundamental aspects of the research methodology applied in the field of DNA Dynamics, DNA repair and Protein-DNA interaction studies. The invited lecture introduced and motivated students about the significance of interdisciplinary research practices in solving scientific problems.

Nivedita Acharjee

Dr. Nivedita Acharjee
Coordinator, DBT STAR COLLEGE SCHEME
Durgapur Government College

COORDINATOR
DBT STAR SCHEME
GOVERNMENT COLLEGE

Dr. Debnath Palit Principal Durgapur Government College



No	event	Department	Name of the Event	Resource Persons/In House Faculty members	No. of participa nts	Outcome
31	09-05-2024		Workshop on " PCR AND TECHNIQUES IN DESIGNING PRIMER FOR UG STUDENTS "	Jonego	34	In this workshop, students learnt about the working principle, components and variants of PCR, retrieve DNA sequence from online databases and the process of designing primers to amplify a target DNA sequence
32	04.05.2024		Invited lecture (online Mode) "Modern Techniques of Molecular Biology and Plant Biotechnology for UG Students" Invited lecture (online Mode) "Professor of Botany Department of Botany, University of Kalyani University of Kalyani Invited lecture (online Mode) "Professor of Botany University of Kalyani Invited lecture (online Mode) "Tooline Mode) "University of Kalyani Invited lecture (online Mode) "Professor of Botany University of Kalyani Invited lecture (online Mode) "House of Botany Invited lecture (online Mode) "Modern Invited lecture (online Mode) "Tooline Mode) It tooline Mode Invited lecture (online Mode) "Modern Invited lecture (online Mode) "Professor of Botany Invited lecture (online Mode) It tooline Mode Invited lecture (online Mode) It tooline Mode Invited lecture (online Mode) It tooline Modern Invited lecture (online Modern Invited lecture (online Modern Invited lecture (online Mode) It tooline Modern Invited lecture (online Modern Invited lectu		The resource person provided the overview of the basic techniques in molecular biology and biotechnology especially for UG students to grow their interests for advanced techniques in such laboratories.	
			Invited Lecture on "Differential Equations"	Dr. Arnab Chakraborty, ISI Kolkata	30	Students learnt about some unconventional approaches that leads to differential equations. The students also learnt about the erroneous ideas that curricular teaching of differential equations often contain.
33	08-04-2024	Zoology	Student Workshop on "Hemoglobin estimation from Human blood Sample	Dr. Sumana Dutta, Assistant Professor, Department of Zoology, Durgapur Government College, Dr. Kuntal Bhattacharya, Assistant Professor, Department of Zoology, Durgapur Government College, Dr. Alakananda Mazumder, State Aided College Teacher, Department of Zoology, Durgapur Government College	4	Students learned to estimate hemoglobin concentration from blood samples using the Sahli (Sahli-Adams) Hemoglobinometer (Hemometer).
34	27-03-2024 and 28-03- 2024	Chemistry, Botany and Zoology	Workshop on "Bioactivity through Computation"	Dr. Nivedita Acharjee, Assistant Professor in Chemistry, Dr. Sandipan Ray, Assistant Professor in Botany, and research scholars, Department of Chemistry, Durgapur Government College		Students used chem draw software to draw the structures of biologically active compounds selected by them, they prepared the mol files and fed them into the Pass online software site to obtain the biologically relevant properties of the compounds.

Nivedita Achanjee

Dr. Nivedita Acharjee
Coordinator, DBT STAR COLLEGE SCHEME
Durgapur Government College

COORDINATOR
DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214



Dr. Debnath Palit Principal Durgapur Government College



No.	event	Organizing Department	Name of the Event	Resource Persons/In House Faculty members	No. of participa nts	Outcome
35	16-03-2024 and 17-03-2024	Geology Physics and	Workshop on "Statistical Methods & Computer Applications in Natural Sciences"		22	It equipped students with data analysis skills, statistical literacy, computer programming, research skills critical thinking, interdisciplinary knowledge, and practical applications in fields like ecology, biology, and environmental science. This course enhances their understanding of statistical concepts and software.
37	14-03-2024	Mathematics	One day workshop on "Star gazing programme"	1. Faculty members of Dept of Physics and Mathematics, Durgapur Govt. 2.Mr. Nikhilesh Pal, technical helper,	50	The entire UG students enthusiastically participated in the night sky-watch program. We managed to locate the two moons of Jupiter, the moon and several other stars in the sky with the help of the 10-inch telescope of physics department.
38	and 15-03-2024	Geology	Workshop on "Application of remote sensing techniques for mineral exploration"	Shanta Panja, Centre for Studies in Resources Engineering, IIT, Bombay	29	Students learnt about Remote sensing techniques have ushered in a paradigm shift in mineral sciences by augmenting exploration efficiency, facilitating precise mineral identification and mapping, and enabling environmental monitoring
9	To 08-03-2024 24.02.2024	Physics	3-day Workshop on Electric House Wiring and Safety Measure	Dr. Tushar Kanti Bera, Dept of Electrical Engineering, National Institute of Technology, Durgapur Dr. Swapan Kumar Ghosh, and Dr. Somnath Bhattacharya, Dept of Physics, Durgapur Govt College	38	Instructor discussed on basic electrical circuit connections for the domestic use and all the safety measures needed to be taken in home appliances.
	24.02.2024	Botany	Workshop on "Collection and Preservation of Pteridophytic Germplasm "	Dr. Anish Bhattacharya (In house), Assistant Professor, Department of Botany, Durgapur Government College	['i	Identification and then preserve the specimen mainly focusing on herbarium techniques that s more suitable for students as well as other researchers

Nivedita Acharjee

Dr. Nivedita Acharjee

Coordinator, DBT STAR COLLEGE SCHEME

Durgapur Government College

COORDINATOR
DET STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

Dr. Debnath Palit Principal Durgapur Government College

DBT STAR COLLEGE SCHEME ANNUAL PROGRESS REPORT 2023-2024



DURGAPUR GOVERNMENT COLLEGE DURGAPUR, WEST BENGAL

No.	Date of the event	Organizing Department	Name of the Event	Resource Persons/In House Faculty members	No. of participa nts	Outcome
40	16-12-2023	Chemistry	Invited lecture on "Asymmetric Synthesis: Past Present and Future"	Dr. Sadhanendu Samanta, Institute of Microbial Chemistry, Tokyo, Japan	58	Students learnt the basic principles of asymmetric synthesis and their applications and also interacted with the resource person
41	08-11-2023	Chemistry	Workshop on "Use of Ion Exchange Resin for experiments"	Dr. Snigdha Chandra, Associate Professor and Head and research scholars, Department of Chemistry, Durgapur Government College	07	Students learnt the basics of using an ion exchange resin for experiments

Nivedita Achanjee

Dr. Nivedita Acharjee
Coordinator, DBT STAR COLLEGE SCHEME
Durgapur Government College

COORDINATOR
DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

Dr. Debnath Palit Principal Durgapur Government College



Annexure-IV

Science Setu Lecture Series in Collaboration with National Institute of Biomedical Genomics
(An Autonomous Institute of Department of Biotechnology, Government of India)
(29-09-2023 to 28-09-2024)

No.	Date of the event	Name of the Event	Resource Persons/In House Faculty members	No. of participants	Outcome
1	03-04-2024	Science Setu Lecture on Genomics Enabling Deep Understanding of Human Health and Disease	Dr. Arindam Maitra, Associate Director, National Institute of Biomedical Genomics, Kalyani, West Bengal	245	The resource person gave insight into the fundamentals of genomics and its applications in understanding human health and disease
2	04-04-2024	Science Setu Lecture on Liquid Biopsy in cancer detection and tumor surveillance	Prof. Kartiki V. Desai, Professor, National Institute of Biomedical Genomics, Kalyani, West Bengal	191	The resource person gave insight into the fundamentals and applications of liquid biopsy with examples
3	24-04-2024	Science Setu Lecture on Tuberculosis: A journey from ancient to modern times	Dr. Bhaswati Pandit, Associate Professor, National Institute of Biomedical Genomics, Kalyani, West Bengal	121	The resource person gave insight into the fundamentals of the disease tuberculosis and the role of genomics in treatment of the disease.
4	03-05-2024	Science Setu Lecture on Genetics and Immunobiology of Interferon Lambda 3/4 and their significance in human health and disease	Dr. Sreeshar Chinnaswamy, Associate Professor, National Institute of Biomedical Genomics, Kalyani, West Bengal	109	The resource person gave insight into the fundamental aspects of Genetics and immunobiology.
5	07-05-2024	Science Setu Lecture on Fulfilling the promise: the search for Genomic medicine	Dr. Priyadarshi Basu, Associate Professor, National Institute of Biomedical Genomics, Kalyani, West Bengal	115	The resource person gave insight into the fundamental aspects of the evolution of different Genomic medicines
6	18-05-2024	Science Setu Lecture on "Genetics of Glaucoma: A journey of two decades and continuing"	Dr. Moulinath Acharya, Associate Professor, National Institute of Biomedical Genomics, Kalyani, West Bengal	150	The resource person gave insight into the fundamental aspects of Glucoma and its genetics
7	28-05-2024	Science Setu Lecture on "Stemness" and "Plasticity" the moving targets in Cancer	Dr. Sandeep Singh, Associate Professor, National Institute of Biomedical Genomics, Kalyani, West Bengal	107	The resource person gave insight into the fundamental aspects of Stemness and Plasticity in respect of the Cancer disease

Miredita Achanjee

Dr. Nivedita Acharjee

Coordinator, DBT STAR COLLEGE SCHEME

Durgapur Government College

COORDINATOR

DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

Dr. Debnath Palit Principal Durgapur Government College



Annexure-V

Industrial Trainings, Field Visits and Visits to research laboratories undertaken during the year (29-09-2023 to 28-09-2024) [Travel, contingency items and chemicals/equipment from DRT support

No	event	Organizing Department	Visits conducted	No. of Student Participants	Outcome
1	24-09-2024	Botany, Geology	One Day Field Trip "In Search of Fossils in the Gondwana Basin Near Mejia, Bankura"	41	Students performed field visit to understand the fossilisation process of plant fossils, when they were formed – Miocene epoch (20 Millior years old). They also came to know how to recognize tree trunk of monocotyledons from dicotyledons.
2	All participating departments AICTE Idea Lab, Dr. B. C. Roy Engineering College, Durgapur (Ranked 1st in the AICTE IDEA Lab Ranking in 2023		17	Students learnt the basic principles of different scientific equipment present in the AICTE, IDEA Lab, such as CNC Router, 3D printer, Laser Cutter and also learnt their industrial applications.	
3	07-08-2024	All participating departments	National Institute of Biomedical Genomics (NIBMG), Kalyani	40	Students visited a total of 6 stations of NIBMG and learnt the basic principles and instrumentation processes employed therein. These were the proteomics lab, genomics Lab, Data Centre, Zebra Fish Culture Facility, Science Museum etc. Students also received the understanding of Genomics in the talk delivered by Dr. Srikanta Goswami, faculty member of NIBMG, Kalyani
4	05-08-2024	Chemistry	Department of Chemistry, National Institute of Technology, Durgapur	40	Students learnt the basic principle and demonstration of Gas Chromatography, Atomic Absorption Spectroscopy and UV-Visible Spectroscopy. Professor Rajnarayan Saha, Professor, Department of Chemistry, NIT, Durgapur, explained the basic principle of Atomic Absorption Spectrophotometer (AAS).
5	22-07-2024	Chemistry	Field Visit to Milk Farm at Durgapur Government College	12	Students learnt the basic techniques employed in a milk farm and after returning, they performed new experiment on the testing of milk sample in the chemical laboratory.
6	20-07-2024	Botany	One Day Field Visit at Molan Dighi, Durgapur, for Botany Major Students	09	Students' learnt the spot identification of flora and they were able to know about 2 Pteridophytes, 1 Bryophyte and 3 fungi and their distribution on that undisturbed forest
7	20-07-2024	All participating departments	Industrial Visit to Sun Ceramics, Durgapur	26	Students learnt the basic techniques and industrial processes applied in the use of scrap iron to mould the same into different parts for industrial applications.

Nivedita Acharjee

Coordinator, DBT STAR COLLEGE SCHEME

Durgapur Government College

Dr. Debnath Palit Principal Durgapur Government College

COORDINATOR
DET STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214



No	Date of the event	Organizing Department	Visits conducted to	No. of Student Participants	Outcome
8	08.07.2024	Botany, Zoology	Hands on Training on Horticultural Practices at Barjora Horticulture Farm	53	To educate students about organic farming leading to sustainable agriculture Students got the demonstration of the process of nursery build up and several other aspects of organic farming
9	20-06-2024	Geology, Chemistry and Mathematics	Field Visit for ground water collection for student project on "Industrial pollutant Concentration on Ground Water"	26	This field work was conducted by locating the polluted ground water sample collection sites through remote sensing and then collection of water samples from the wells and tubewells located in different places of Durgapur such as Gopalmath, Mayabazar, Kalpataru Mela Maidan, Shyampur Bazar, Biharpur, Narayanpur and Nodiha followed by laboratory testing to assess the drinking water quality.
10	16-05-2024 to 17-05-2024	Geology	Geological Fieldwork, Biharinath, West Bengal	15	Students performed field visit to the Gondwana rocks of Biharinath which provided valuable insights into the geological history, lithological succession study, palaeocurrent analysis and its implications. Such studies are essential for advancing our knowledge of the Earth's processes and for making informed decisions regarding land use, resource
11	21-03-2024	Geology	Coal Mine visit – Trans-Damodar Open Cast Mine, Barjora, Bankura (Industrial Visit)	18	managements. Students performed field visit (i) to identify the lithology of the host rocks and identify coal seams in field.(ii) to know about the current plan and set-up of the mine area.(iii) to get a basic idea about coal mine projects.(iv) collected coal samples and fossils of leaf.
12	19-12-2023 to 22-12-2023	Geology	Geological Fieldwork, Maithon, West Bengal	31	Students performed field visit to Maithon and the Gondwana rocks of Jitpur which provided valuable insights into the geological history, tectonic evolution, mineral resources, environmental implications of these regions. Such studies are essential for advancing our knowledge of the Earth's processes and for making informed decisions regarding land use, resource managements.

Nivedita Acharjee

Dr. Nivedita Acharjee
Coordinator, DBT STAR COLLEGE SCHEME
Durgapur Government College

COORDINATOR
DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

Dr. Debnath Palit Principal Durgapur Government College



Annexure-VI

Training Courses for faculty and staff organized during the year (29-09-2023 to 28-09-2024)

[Purchase of equipment, computer, printer, software, chemicals, consumables, contingency items, travel,

No.	Organizing Department	Resource Persons/In House Faculty who conducted the sessions	Name of the Event	Date of the event	Total No. of Participan ts	Outcome
2	Botany, Chemistry, Geology, Mathematics, Physics and	Dr. Anindya Bose Senior Scientific Officer, The University of Burdwan Topic: "Living in a digital world- eLeaning resources for HEIs: Scopes and Challenges	Faculty Developmen t Programme on "MOOCs, E-	08-12-2023	52	This FDP gave the basic overview to teachers for
	Zoology	Professor Mantu Saha Professor in Mathematics, The University of Burdwan Topic: "The Way to Success in the Development of MOOC Courses"	Content and Open Educational Resources (Design	08-12-2023	52	designing of the four quadrant massive open online courses(MO OCs), E- content and
3		Professor Apurba Ratan Ghosh, Professor in Environmental Science, The University of Burdwan		09-12-2023	52	
4		Professor Saswati Gangopadhyay, Professor in Mass Communication, The University of Burdwan, Topic: "E-Learning and E-Content		09-12-2023	52	open educational resources
5		Dr. Nivedita Acharjee, Department of Chemistry, Durgapur Government College and Coordinator, DBT STAR COLLEGE SCHEME, Durgapur Government College Hands on Training by In-House Resource Persons on MOODLE and E-Content		11-12-2023	52	with student- centric approach. It relies on explaining the fundamental
7		Professor Swati Mukhopadhyay, Professor in Mathematics, The University of Burdwan, Topic: "Overviews of e-content		11-12-2023	52	s to be considered while
	2	Dr. Pinaki Roy, Department of Chemistry, Durgapur Government College Hands on Training by In-House Resource Persons on MOODLE and E-Content		12-12-2023	52	preparing the e-content to ensure increase in
8		Professor Partha Sarkar Professor in Business Administration (Human Resource), The University of Burdwan Resource Person: Communication Imperatives in E-content Development		13-12-2023	52	percentage of teachers using computer- aided methods for teaching, learning and evaluation.

Nivedita Acharjee

Dr. Nivedita Acharjee
Coordinator, DBT STAR COLLEGE SCHEME
Durgapur Government College

DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

Dr. Debnath Palit Principal Durgapur Government College



No.	Organizing Department	Resource Persons/In House Faculty who conducted the sessions	Name of the Event	Date of the event	Total No. of Participan ts	Outcome
	Chemistry	Senior Technician from Envirotech Instruments, New Delhi and research scholars of Department of Chemistry, Durgapur Government College	Training Programme on "Operation of Respirable Air Sampler" for laboratory staff	08-06-2024	2	Laboratory Assistants learnt to operate and demonstrate the applications of respirable air sampler
10	Geology	Training program on petrological thin section preparation for laboratory staff	Dr. Proloy Ganguly, Department of Geology, Durgapur Governmen t College	13-08-2024	1	The department al staff got the training on laboratory safety and handling of rock cutting machine.
11	Chemistry	Dr. Nivedita Acharjee, Assistant Professor, Department of Chemistry, Durgapur Government College	One Day Training Programme on "Standard Solution Preparation using Dilution Method and by Weighing Method" and preparation of laboratory reagents" for laboratory staff	16-08-2024	2	Process of preparation of standard solutions was demonstrate d to the laboratory staff

Nivedita Acharjee Dr. Nivedita Acharjee

Coordinator, DBT STAR COLLEGE SCHEME
Durgapur Government College

COORDINATOR
DBT.STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

Dr. Debnath Palit Principal Durgapur Government College



Annexure-VII

Outreach activities/Popular lectures organized during the year (29-09-2023 to 28-09-2024)

[Purchase of equipment, computer, printer, software, chemicals, consumables, contingency items, travel, remuneration to resource persons from DBT support]

No.	Organizing Department	Name of the Event	Resource Persons/In House Faculty	Date of the event	Total No. of Participant	
1	Botany, Chemistry, Geology, Mathematics, Physics and Zoology	Celebration of National Science Day: Invited lecture followed by Poster Competition for students	Invited lecture by Professor Kartik Chandra Ghanta, Department of Chemical Engineering, National Institute of Technology, Durgapur	28-02-2024	94	Students were sensitized of the significance of science in everyday life by the resource person. Students prepared innovate posters on the five themes: Waste Management, Science through computing and programming, Natural
			and Judgement of Posters by Dr. Mrinal Kanti Mandal, Associate Professor, Department of Physics, National Institute of Technology, Durgapur		20	Resource Survey and Analysis, Laboratory Techniques and Entrepreneurship. Best posters were awarded.
2	Zoology	Awareness lecture and interactive session on "Malaria" to observe World Malaria Day	Dr. Manas Paramanik, Assistant Professor of Animal Science, Kazi Nazrul University	25-04-2024	59	Both the lectures were highly informative providing insights on the methods to have a clean community. These cleanliness measures would in turn reduce the breeding places of
	Zoology	Awareness lecture and interactive session on : Mosquito: Public Enemy no 1 (WHO)" to observe World Malaria Day	Dr. Kuntal Bhattacharya, Assistant Professor, department of Zoology, Durgapur Government College	25-04-2024		mosquitoes, which in turn would cause the decrease in the cases of malaria in the community at large. Very simple practices of throwing unused stagnant water, like water in vases, tyres, pots, clogged drains can cause a great change to the mosquito population. Planting plants like Lavender, Citronella Grass (Lemon Grass) Catmint,

Mivedita Achanjee Dr. Nivedita Achanjee

Coordinator, DBT STAR COLLEGE SCHEME
Durgapur Government College

COORDINATOR
DBT STAR SCHEME
RGAPUR GOVERNMENT COLLEGE
U.N. AVENUE, DURGAPUR 713214

Dr. Debnath Palit Principal Durgapur Government College



4	Physics,	"Tologov whi			1	Rosemary can easily keep away mosquitos. Another great mosquito repellent is rosemary, Scented Geranium. Participants understood about the root cause of Malaria and its preventive techniques and are well equipped to spread this awareness to the society at large.
	Chemistry and Mathematics	"Telescope making and Star Gazing programme" organized by Departments of Physics Chemistry and Mathematics under DBT STAR COLLEGE SCHEME for local schools at Durgapur	Prof. Biswajit Maiti, Associate Professor of Physics, Maulana Azad College, Kolkata, Shri Palash Chatterjee, Ramkrishna Sikshalaya, Howrah and Shri Nikhilesh Pal	11-07-2024	120	Student received hands on training and the overview of the telescope making, Dr. Biswajit Maiti, Associate Professor, Department of Physics, Maulana Azad College, Kolkata, delivered plenary talk on "The evolution of Telescope". Mr. Palash Chatterjee, teacher of Sri Ramakrishna Sikshalaya, Howrah delivered plenary talk on "Observation of Night Sky" and provided hands on training on Telescope making. This innovative event is the first of its kind in Durgapur to be organised by a higher education institution and received overwhelming appreciation from school students and teachers.
5	Physics, Chemistry and Mathematics	"Telescope making and Star Gazing programme" organized by Departments of Physics Chemistry and Mathematics under DBT STAR COLLEGE SCHEME for local schools at Visva Bharati, Shantiniketan	Prof. Biswajit Maiti, Associate Professor of Physics, Maulana Azad College, Kolkata, Shri Palash Chatterjee, Ramkrishna Sikshalaya, Howrah and Shri Nikhilesh Pal	12-07-2024	176	
6	Geology in collaboration with West Bengal Academy of Science & Technology (WAST)	Outreach activity on "Interactive session on prospects of Earth Science in Academia and Industry" for students of local colleges	Prof. (Dr.) Pulak Sengupta, and Prof. (Dr.) Subir Sarkar, Department of Geological Sciences, Jadavpur University, Kolkata	26-09-2024	85	Participants from Geology Department of Hooghly Mohosin College, Ranigunj TDB College and Kabi Jagad Ram Ray General Degree College, Mejia interacted with the resource persons and resolved their queries regarding career opportunities in Geology after completion of under graduation study.

Nivedita Achanjee

Dr. Nivedita Acharjee
Coordinator, DBT STAR COLLEGE SCHEME
Durgapur Government College

DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

Dr. Debnath Palit Principal Durgapur Government College



Annexure-VIII

Colleges Mentored for applying under DBT STAR COLLEGE SCHEME (29-09-2023 to 28-09-2024)

Mentoring Sessions were conducted for faculty members of Katwa College to apply for DBT STAR COLLEGE SCHEME on 02-03-2024. The mentoring sessions were conducted by Dr. Debnath Palit, Principal, Durgapur Government College and Dr. Nivedita Acharjee, Coordinator, DBT STAR COLLEGE SCHEME, Durgapur Government College, Online sessions were also conducted for faculty members of Katwa College by Dr. Nivedita Acharjee, Coordinator, DBT STAR COLLEGE SCHEME, Durgapur Government College

Annexure-IX

Seminars/Workshops attended, paper presentations, publications and Students' achievements during the year (29-09-2023 to 28-09-2024)

Paper Presentation by student:

Poster prepared by undergraduate student Prativa Banerjee of Department of Zoology selected for presentation in the event on "International Tiger Day" organized by WWF in Kolkata (29th July 2024)

Prize won by student

Dhruba Mondal and Ankit Sengupta, UG Semester-III student, Department of Geology jointly won third prize
in the Poster Presentation Competition in Lithify 2024, organized by Department of Geological Sciences,
Jadavpur University, Kolkata (September 2024)

Paper Presentation/participation of research work by faculty members in seminars/conferences:

- Anish Bhattacharya, Assistant Professor in Botany, Durgapur Government College, International conference on 'Seedless Vascular Plant Research and Transdiciplinary Approaches: Biodiversity Exploration and Sustainable Livelihood' organized by Dept. of Botany, University of Kalyani and Indian Fern Society, Chandigarh, November 22-24, 2023
- Dr. Amiya Biswas, Assistant Professor in Mathematics, Durgapur Government College, "3rd International conference on nonlinear applied analysis and optimization (icnaao 2023) organized by Department of Mathematics, National Institute of Technology Durgapur", December 08-10, 2023
- Sudeep Kumar Das, Assistant Professor in Physics, Durgapur Government College, "National conference on 'materials and Devices organized by Teerthankar Mahaveer University, Moradabad", December 28-29, 2023
- Sudeep Kumar Das, Assistant Professor in Physics, Durgapur Government College, "International conference on 'International Conference on Natural Sciences and Engineering for Sustainable Development" organized by Kazi Nazrul University, Asansol", March 06-07, 2024

Students as University Toppers (2023):

- Bachelor of Science (Honours) in Botany; MAYNA KUNDU; Registration No: KNU20105001958 (Joint University Topper of 2023)
- Bachelor of Science (Honours) in Botany AMRITA BANERJEE; Registration No: KNU20105001836 (Joint University Topper of 2023)
- Bachelor of Science (Honours) in Zoology DISHA CHAKRABORTY; Registration No: KNU20105001765 (University Topper of 2023)

Nivedita Achanjee

Dr. Nivedita Acharjee
Coordinator, DBT STAR COLLEGE SCHEME
Durgapur Government College

DBT STAR SCHEME

DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

Dr. Debnath Palit Principal Durgapur Government College



Selected outstanding All India Rank of Students in JAM examinations (2024)

Ishan Banerjee: Geology Honours: All India Rank: 15

Subhankar Barman: Geology Honours: All India Rank: 45

Shreya Mitra: Geology Honours: All India Rank: 51

Aryan Shah: Chemistry Honours; All India Rank: 99

Supriya Kabiraj: Geology Honours: All India Rank: 125

Prabhat Dhibar: Geology Honours: All India Rank: 183

Some Selected Progression of Students to higher studies to reputed institutes (2023-2024)

Name of Student	Programme graduated from Durgapur Government College	Name of Institution Joined	Programme admitted to	
ATASI GHANTI	B.Sc. Honours in Zoology	RAJIV GANDHI CENTRE FOR BIOTECHNOLOGY	M.Sc in Biotechnology	
ARYAN SHAH	B.Sc. Honours in Chemistry	IIT, Madras	M.Sc. In Chemistry	
URMILA GHOSH	B.Sc. Honours in Chemistry	IIT KANPUR	M.Sc. In Chemistry	
ARIJIT DEY	B.Sc. Honours in Chemistry	IIT GUWAHATI	M.Sc. In Chemistry	
SANJUKTA CHEL	B.Sc. Honours in Geology	IIT BOMBAY	M.Sc. in Applied Geology	
SHREEJATA DAS	B.Sc. Honours in Geology	IIT(ISM) DHANBAD	M.Sc. (Tech.) in Applied Geology	
MUKUL DEY	B.Sc. Honours in Geology	IIT(ISM) DHANBAD	M.Sc. (Tech.) in Applied Geology	
DEBARCHIT DAS	B.Sc. Honours in Geology	IIT(ISM) DHANBAD		
SWARNENDU NASKAR	B.Sc. Honours in Physics	IIT-BHU	M.Sc. (Tech.) in Applied Geology	
NILADREE SHEKHAR SAHA	B.Sc. Honours in Geology	NIT ROURKELA	M.Sc. in Physics	
DEBANGANA DUTTA	B.Sc. Honours in Physics	NIT-JSR	M.Sc. in Applied Geology	
RANJAN HALDER	B.Sc. Honours in Physics	NIT-JSR	M.Sc. in Physics	
MEGHA CHAKRABORTY	B.Sc. Honours in Geology		M. Sc. in Physics	
NIRUPAM TIKADER		IISER, KOLKATA	Integrated Phd in Earth Sciences	
CHHANDA GHOSH	B,Sc, Honours in Geology	IIEST SHIBPUR	M,Sc, in Applied Geology	
STATE OF THE PROPERTY OF THE PARTY OF THE PA	B.Sc. Honours in Chemistry	Visva Bharati, Santiniketan	M.Sc. In Chemistry	
PAPIYA GHOSH	B.Sc. Honours in Chemistry	The University of Burdwan	M.Sc. In Chemistry	
Riya Biswas	B.Sc. Honours in Physics	The University of Burdwan	M.Sc. in Physics	
Ananya Moitra	B.Sc. Honours in Physics	The University of Burdwan	M.Sc in Physics	
KUSHAL MISTRY	B.Sc. Honours in Zoology	VIDYASAGAR UNIVERSITY	MSc Zoology	
DISHA CHAKROBARTY	B.Sc. Honours in Zoology	THE UNIVERSITY OF BURDWAN	MSc in Zoology	
NUSRIN KHATUN	B.Sc. Honours in Zoology	THE UNIVERSITY OF BURDWAN	MSc in Zoology	
KANAYA MONDAL	B.Sc. Honours in Zoology	THE UNIVERSITY OF BURDWAN	MSc in Zoology	
PREETI BIT	B.Sc. Honours in Zoology	AMITY UNIVERSITY	M.Sc in Biotechnology	
BITHIKA GARAI	B.Sc. Honours in Zoology	AMITY UNIVERSITY	M.Sc in Biotechnology	

Nivedita Achanjee

Dr. Nivedita Acharjee
Coordinator, DBT STAR COLLEGE SCHEME
Durgapur Government College

COORDINATOR
DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

Dr. Debnath Palit Principal Durgapur Government College



Annexure-X

YouTube Links of selected sessions by eminent resource persons organized by Durgapur Government College under the DBT STAR COLLEGE SCHEME posted in the DBT STAR COLLEGE SCHEME channel (29-09-2023 to 28-09-2024)

"Sir Upendranath Brahmachari & Leishmania research in India"

Professor Syamal Roy, Ph.D., FASc, FNASc, FNA; J.C. Bose National Fellow, Dept. of Science and Technology, Govt. of India; ICMR Emeritus Scientist, CSIR-Indian Institute of Chemical Biology, Kolkata; Honorary Professor, Indian Institute of Science Education & Research, Kolkata; Former Chief Scientist, CSIR-Indian Institute of Chemical Biology, Kolkata; Former Vice Chancellor, Cooch Behar Panchanan Barma University

https://www.youtube.com/watch?v=MffIRXzU-7k

(Delivered in the local language Bengali)

"Structural Biology of Neuro-degeneration"

Dr. Krishnananda Chattopadhyay, Chief Scientist & Head, Structural Biology & Bioinformatics Division, CSIR-Indian Institute of Chemical Biology, Kolkata, West Bengal https://www.youtube.com/watch?v=559HwSeQWGU

(Delivered in the local language Bengali)

- Science Setu Lecture 1: "Genomics enabling deep understanding of human health and disease" Dr. Arindam Maitra, Associate Director, National Institute of Biomedical Genomics, Kalyani, West Bengal https://www.youtube.com/live/TjwHxUzK0Wg
- Science Setu Lecture series: Lecture 2: "Liquid Biopsy in cancer detection and tumor surveillance" Prof. Kartiki V. Desai, Professor, National Institute of Biomedical Genomics, Kalyani, West Bengal https://www.youtube.com/watch?v=zMNhRZ3jT7U
- Science Setu Lecture series: Lecture 3: "Tuberculosis: A journey from ancient to modern times" Dr. Bhaswati Pandit, Associate Professor, National Institute of Biomedical Genomics, Kalyani, West Bengal https://www.youtube.com/watch?v=QVuKcNetgHw
- Science Setu Lecture series: Lecture 4: "Genetics and Immunobiology of Interferon Lambda 3/4 and their significance in human health and disease" Dr. Sreedhar Chinnaswamy, Associate Professor, National Institute of Biomedical Genomics, Kalyani, West Bengal https://www.youtube.com/watch?v=U-wITTIz TI
- Science Setu Lecture series: Lecture 5: "Fulfilling the promise: the search for Genomic medicine" Dr. Priyadarshi Basu, Associate Professor, National Institute of Biomedical Genomics, Kalyani, West Bengal https://www.youtube.com/watch?v=9E ibEy40z0
- Science Setu Lecture series: Lecture 6: "Genetics of Glaucoma: A journey of two decades and continuing...." Dr. Moulinath Acharya, Associate Professor, National Institute of Biomedical Genomics, Kalyani, West Bengal https://www.voutube.com/watch?v=Mnj3P4AIdI4
- Science Setu Lecture series: Lecture 7: "Stemness and "Plasticity" the moving targets in Cancer" Dr. Sandeep Singh, Associate Professor, National Institute of Biomedical Genomics, Kalyani, West Bengal https://www.youtube.com/watch?v=giLackyTRrg

Nivedita Achaylee Dr. Nivedita Achariee

Coordinator, DBT STAR COLLEGE SCHEME **Durgapur Government College**

COORDINATOR DBT STAR SCHEME DURGAPUR GOVERNMENT COLLEGE J.N. AVENUE, DURGAPUR 713214

Dr. Debnath Palit Principal **Durgapur Government College**



"Biological Waste Disposal"

Dr. Eliza Chakraborty, Ph.D., Pdf(USA); Erstwhile Faculty of Geffen School of Medicine, UcLa, USA; Professor, Dept of Biotechnology & HOD DST-Fist, MIET Group.; Department of Biotechnology (DBT); Meerut Institute of Engineering and Technology (MIET), Meerut

https://www.youtube.com/watch?v=oifNylL1uxc

"A Journey into Quantum Land"

Dr. Anirban Pathak, Professor and Head, Department of Physics and Material Science and Engineering, Jaypee Institute of Information Technology, Noida <a href="https://www.youtube.com/watch?v=5bi0]805]EY

- "Visualizing DNA in action: A Multidisciplinary research methodology approach"
 Dr. Padmaja Prasad Mishra, Associate Professor, Division: Chemical Sciences, Saha Institute of Nuclear Physics, Kolkata, West Bengal
 https://www.youtube.com/watch?v=KpRXudW0zVc
- "Modern Techniques of Molecular Biology and Plant Biotechnology for UG Students"
 Dr. Zahed Hossain, Professor, Department of Botany, University of Kalyani, West Bengal https://www.youtube.com/watch?v=GLrsNemE6DA

Nivedita Achay'ee

Dr. Nivedita Acharjee
Coordinator, DBT STAR COLLEGE SCHEME
Durgapur Government College

COORDINATOR
DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

Dr. Debnath Palit Principal Durgapur Government College



DURGAPUR, WEST BENGAL

Annexure-XI

Name, designation, host institutes of resource persons invited for different offline/online events (29-09-2023 to 28-09-2024)

1. Dr. Mrinal Kanti Mandal, Department of Physics, NIT, Durgapur

2. Professor Sankar Chandra Moi, Professor and Head, Department of Chemistry, NIT, Durgapur

3. Prof. Biswajit Maiti, Associate Professor of Physics, Maulana Azad College, Kolkata

4. Dr. Sadhanendu Samanta, Post Doctoral Research Fellow (JSPS), Institute of Microbial Chemistry Tokyo, Japan

5. Dr. Arnab Chakraborty, Associate Professor, ISI, Kolkata

6. Dr. Zahed Hossain, Professor of Botany, University of Kalyani

 Dr. Padmaja Prasad Mishra, Associate Professor, Chemical Sciences Division, Saha Institute of Nuclear Physics

8. Dr. Anindya Bose, Senior Scientific Officer, The University of Burdwan

9. Professor Mantu Saha, Professor in Mathematics, The University of Burdwan

- 10. Professor Apurba Ratan Ghosh, Professor in Environmental Science, The University of Burd
- 11. Professor Saswati Gangopadhyay, Professor in Mass Communication, The University of Burdwan
- 12. Professor Swati Mukhopadhyay, Professor in Mathematics, The University of Burdwan, Topic:
 "Overviews of e-content
- 13. Professor Partha Sarkar, Professor in Business Administration (Human Resource), The University of Burdwan
- 14. Professor Kartik Chandra Ghanta, Department of Chemical Engineering, National Institute of Technology, Durgapur
- Dr. Mrinal Kanti Mandal, Associate Professor, Department of Physics, National Institute of Technology, Durgapur

16. Dr. Urbashi Sarkar, Department of Earth Science, Assam University, Silchar

17. Dr. Anirban Pathak, Department of Physics and Material Science and Engineering, Jaypee Institute of Information Technology, Noida

18. Dr. Rajani Panchang, Department of Environmental Science, Savitribai Phule Pune University

19. Dr. Anju T.R., Assistant Professor and Head, Department of Biotechnology and Coordinator, DBT STAR COLLEGE SCHEME, Newman College, Kerela

20. Dr. Subhronil Mondal, Department of Earth Sciences, IISER, Kolkata

21. Professor Pulak Sengupta, Department of Geological Sciences, Jadavpur University

22. Professor Subir Sarkar, Department of Geological Sciences, Jadavpur University

23. Dr. Arijit Ganguly, Assistant Professor, Department of Mathematics, IIT Kanpur

24. Dr. Arindam Maitra, Associate Director, National Institute of Biomedical Genomics, Kalyani, West Bengal

25. Prof. Kartiki V. Desai, Professor, National Institute of Biomedical Genomics, Kalyani, West Bengal

26. Dr. Bhaswati Pandit, Associate Professor, National Institute of Biomedical Genomics, Kalyani, West Bengal

 Dr. Sreeshar Chinnaswamy, Associate Professor, National Institute of Biomedical Genomics, Kalyani, West Bengal

28. Dr. Priyadarshi Basu, Associate Professor, National Institute of Biomedical Genomics, Kalyani, West Bengal

Nivedita Achay'ee Dr. Nivedita Acharjee

Coordinator, DBT STAR COLLEGE SCHEME Durgapur Government College

COORDINATOR
DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

Dr. Debnath Palit Principal Durgapur Government College



- Dr. Moulinath Acharya, Associate Professor, National Institute of Biomedical Genomics, Kalyani, West Bengal
- 30. Dr. Sandeep Singh, Associate Professor, National Institute of Biomedical Genomics, Kalyani, West Bengal
- 31. Dr. Arijit Ganguly, Assistant Professor, Department of Mathematics, IIT Kanpur
- 32. Dr. Eliza Chakraborty, Professor of Biotechnology, Meerut Institute of Engineering and Technology and HOD of DST-FIST Center, MIET
- 33. Dr. Diptonil Banerjee, Associate Professor, Department of Physics, Teerthankar Mahaveer University, Moradabad
- 34. Dr. M. Pravin Kumar, Biome Biologicals Private Limited
- 35. Dr. Anis Biswas, Staff Scientist, Ames National Laboratory, Iowa State University, USA
- 36. Dr. Debabrata Biswas, Assistant Professor, Department of Physics, Bankura University
- 37. Mr. Ramesh Rakshit, National Awardee Teacher from the Department of Skill development and Entrepreneurship, Government of India and Instructor, Government Industrial Training Institute, Durgapur
- 38. Dr. Samir Shukla, Assistant Professor, Department of Mathematics, IIT Mandi
- 39. Dr. Arup Kumar Mitra, Associate Professor and Head, PG and Research Department of Microbiology, St. Xavier's College, Kolkata
- 40. Satadru Bhattacharya, Indian Space Research Organization, ISRO Planetary Sciences Division
- 41. Dr. Jyotirmoy Paul, Marie Curie postdoctoral fellow, Oslo, Norway
- 42. Shri Alik Prakait, Government Industrial Training Institute, Durgapur
- 43. Shri Mihir Kumar Sarkar, Government Industrial Training Institute, Durgapur
- 44. Shri Ananta Nandi, Government Industrial Training Institute, Durgapur
- 45. Shri Ansuman Saha, Government Industrial Training Institute, Durgapur
- 46. Dr. Krishnananda Chattopadhyay, Chief Scientist & Head, Structural Biology & Bioinformatics Division, CSIR-Indian Institute of Chemical Biology, Kolkata
- 47. Professor Anirban Basu, Scientist, National Brain Research Institute, Manesar, Haryana
- 48. Dr. Syamal Roy Emeritus Professor, Indian Institute of Chemical Biology, Kolkata

Vivedita Acharjee Dr. Nivedita Acharjee

Coordinator, DBT STAR COLLEGE SCHEME Durgapur Government College

DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

Dr. Debnath Palit Principal Durgapur Government College



Annexure-XII PHOTOGRAPHS OF EVENTS CONDUCTED UNDER DBT STAR COLLEGE SCHEME (29-09-2023 TO 28-09-2024)

New experiment on "Use of Thin Layer Chromatography for Lipid Separation" (26-09-2024)



Workshop on "Collection and Preservation of Pteridophytic Germplasm" (24-02-2024)



Workshop on
"Happy Mushroom Gardening"
(08-08-2024)



Field Visit at Molan Dighi, Durgapur for spot identification of flora (20-07-2024)



New experiment on "Gram Staining of Bacteria" (02-03-2024)



Student Project on "Extraction and Applications of Essential Oil from botanical sources" (12-09-2024)



Nivedita Acharjee

Dr. Nivedita Acharjee
Coordinator, DBT STAR COLLEGE SCHEME
Durgapur Government College

DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214



Dr. Debnath Palit Principal Durgapur Government College



Eight Days Training Workshop on "Basic Techniques in Molecular Biology" (11-09-2024 to 18-09-2024)









Nivedita Achanjee

Dr. Nivedita Acharjee
Coordinator, DBT STAR COLLEGE SCHEME
Durgapur Government College

COORDINATOR
DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

Dr. Debnath Palit Principal Durgapur Government College



Training Workshop on Basic Home Appliances and "Instrumentation Process and Control of Different Scientific Equipment (19-09-2024, 20-09-2024, 23-09-2024 and 24-09-2024)







Workshop on " Augmentation of Scientific aptitude through bioinnovation and entrepreneurship" (10-08-2024)



Mivedita Acharjee Dr. Nivedita Acharjee

Coordinator, DBT STAR COLLEGE SCHEME Durgapur Government College

COORDINATOR
DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

Dr. Debnath Palit Principal Durgapur Government College



Training Workshop on "Basic Electrical Equipment and Home Appliances" (18-07-2024 and 19-07-2024)



Hands on training Programme on "Prawn Culture" under earning while learning initiatives" (10-07-2024)



Student Project and Seminar on
"Study of different types of birds and their effects
on agriculture (09-09-2024)



New Experiment on Embryological studies of Chick Embryo (24h, 48h, 72 h); (17-12-2023)



Workshop on "Hemoglobin estimation from Human blood Sample (08-04-2024)



Miredita Acharjee

Dr. Nivedita Acharjee
Coordinator, DBT STAR COLLEGE SCHEME
Durgapur Government College

DET STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214



Dr. Debnath Palit Principal Durgapur Government College



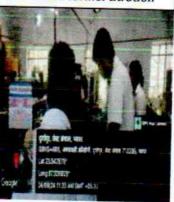
New Experiment on estimation of glucose from commercial pack



New Experiment on estimation of Vitamin C in fruits and vegetables



New Experiment on "Estimation of Glycine using Sorensen formol titration"



New Experiment on "Determination of the amount of phosphate in cold drinks using spectrophotometric method"



New Experiment on "Isolation of Essential oil (eucalyptus oil) by Steam Distillation Method"

New Experiment on "Milk Testing" for the presence of adulterants





Miredita Achanjee

Dr. Nivedita Acharjee

Coordinator, DBT STAR COLLEGE SCHEME

Durgapur Government College

DBT STAR SCHEME
DURGAPUR GÖVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

Dr. Debnath Palit Principal Durgapur Government College



Workshop on the use of Water Analyzer (18-06-2024)



Field work for collection of ground water samples and on spot analysis (20-06-2024)



Laboratory analysis of the ground water samples (25-06-2024 onwards)



Nivedita Acharjee

Dr. Nivedita Acharjee
Coordinator, DBT STAR COLLEGE SCHEME
Durgapur Government College

DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

Dr. Debnath Palit Principal Durgapur Government College



Workshop on "Calibration and Set up of pH meter, Potentiometer, Conductivity Meter, Water analyzer and Visible Spectrophotometer for UG students" (17-08-2024)







Nivedita Acharjee

Dr. Nivedita Acharjee
Coordinator, DBT STAR COLLEGE SCHEME
Durgapur Government College

COORDINATOR
DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214





New Experiments on Use of GPS and on GPS data input into QGIS" (July-August 2024)



Hands on training on "Open Source Hardware and Software: The Raspberry Pi" (16-07-2024)



New Experiments on Ground water exploration (27-09-2024)



Hands on Training on "Data Analysis" (11-09-2024)



Two Day Workshop on "Scientific computation with C for beginners" (09-07-2024 (Theory) and 19-07-2024 (Practical)



Nivedita Achanjee

Dr. Nivedita Acharjee
Coordinator, DBT STAR COLLEGE SCHEME
Durgapur Government College

COORDINATOR
DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

Dr. Debnath Palit Principal Durgapur Government College



Three Day Workshop on Electric House Wiring and Safety Measures (06-03-2024 to 08-03-2024)



New experiment on "To verify the Malus Law for Plane Polarized light" (21-06-2024)



New experiment on "To study the Photo-electric Effect: photo current versus intensity" (03-01-2024)



Nivedita Achanjee

Dr. Nivedita Acharjee

Coordinator, DBT STAR COLLEGE SCHEME

Durgapur Government College

COORDINATOR
DBT STAR SCHEME
DURGAPUR GÖVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

New experiment on "Preparation of ZnO nanoparticles by co-precipitation method" (01-07-2024)



New experiment on "To study and verify Resonance in series LCR circuit and measurement of resonance frequency" (21-02-2024)



New experiment on "To find an unknown capacitance using De' Sauty's AC bridge" (07-12-2023)



Dr. Debnath Palit Principal Durgapur Government College



New experiment on "Determination of Planck's constant using photo-electric effect" (27-11-2023)

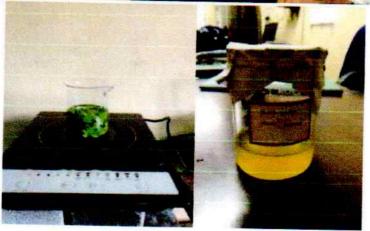


One Day Workshop on Telescope making and Star Gazing Programme



New Experiment on "Preparation of silver nanoparticles from Azadirachta indica (Neem) leaves" (11-09-2024)





Nivedita Achay'ee

Dr. Nivedita Acharjee
Coordinator, DBT STAR COLLEGE SCHEME
Durgapur Government College

COORDINATOR
DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214



Dr. Debnath Palit Principal Durgapur Government College



Field Trip "In Search of Fossils in the Gondwana Basin Near Mejia, Bankura" (24-09-2024)







Hands on Training on Horticultural Practices at Barjora Horticulture Farm (08-07-2024)



Research Laboratory Visit to AICTE IDEA Lab, (Ranked 1 in India in 2023), Dr. B. C. Roy Engineering College, Durgapur (17-08-2024)



Nivedita Acharjee

Dr. Nivedita Acharjee
Coordinator, DBT STAR COLLEGE SCHEME
Durgapur Government College

COORDINATOR
DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

Dr. Debnath Palit Principal Durgapur Government College



Research Laboratory Visit to National Institute of Biomedical Genomics (NIBMG), Kalyani (07-08-2024)





Research Laboratory Visit to Department of Chemistry, National Institute of Technology, Durgapur (05-08-2024)



Field Visit to Milk Production Farm in Durgapur (22-07-2024)



Nivedita Achanjee

Dr. Nivedita Acharjee Coordinator, DBT STAR COLLEGE SCHEME Durgapur Government College

COORDINATOR
DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

Dr. Debnath Palit Principal Durgapur Government College

Industrial Visit to Sun Ceramics, Durgapur (20-07-2024)



Coal Mine visit - Trans-Damodar Open Cast Mine, Barjora, Bankura (Industrial Visit) (21-03-2024)

Geological Field Work to Biharinath, West Bengal (16-05-2024 to 17-05-2024)





Geological Field Work to Maithon, West Bengal (19-12-2023 to 21-12-2023)



Nivedita Acharjee

Dr. Nivedita Acharjee Coordinator, DBT STAR COLLEGE SCHEME Durgapur Government College

COORDINATOR
DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

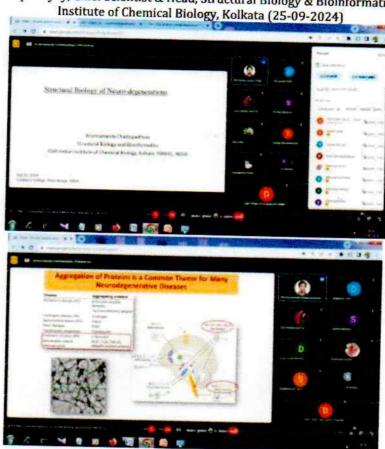


Dr. Debnath Palit Principal Durgapur Government College



Invited Lecture and Interactive Session (online) on "Structural Biology of Neuro-degeneration"

Dr. Krishnananda Chattopadhyay, Chief Scientist & Head, Structural Biology & Bioinformatics Division, CSIR-Indian Institute of Chemical Biology, Kolksta (35, 99, 2024).



Invited Lecture and interactive session (online) "The relation between mantle dynamics and plate tectonics"

Dr. Jyotirmoy Paul, Marie Curie postdoctoral fellow, Oslo, Norway (18-09-2024)



Nivedita Achanjee

Dr. Nivedita Acharjee
Coordinator, DBT STAR COLLEGE SCHEME
Durgapur Government College

COORDINATOR

DBT STAR SCHEME

DURGAPUR GOVERNMENT COLLEGE

J.N. AVENUE, DURGAPUR 713214



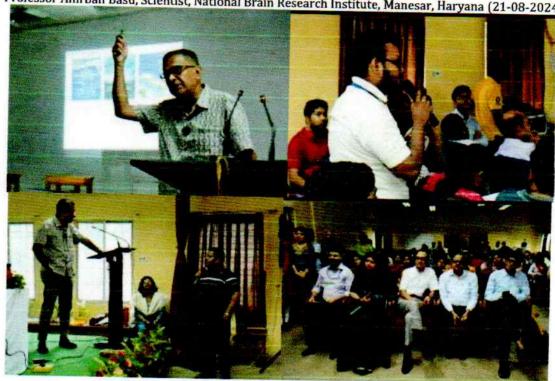
Dr. Debnath Palit Principal Durgapur Government College



Invited lecture and Interactive Session (online) on "Sir Upendranath Brahmachari & Leishmania research in India" Dr. Syamal Roy Emeritus Professor, Indian Institute of Chemical Biology, Kolkata (13-09-2024)



Invited lecture and interactive session (offline) on
"Emerging and Re-emerging Viral Diseases: Host Immunity and Therapeutic Interventions"
Professor Anirban Basu, Scientist, National Brain Research Institute, Manesar, Haryana (21-08-2024)



Nivedita Achanjee

Dr. Nivedita Acharjee
Coordinator, DBT STAR COLLEGE SCHEME
Durgapur Government College

COORDINATOR
DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214



Dr. Debnath Palit Principal Durgapur Government College



Invited Lecture (online) "Constraining lunar crustal composition and hydration through imaging spectroscopy" Satadru Bhattacharya, Planetary Science Division, ISRO, Ahmedabad (20-08-2024)



Invited Lecture and Interactive Session (Online)

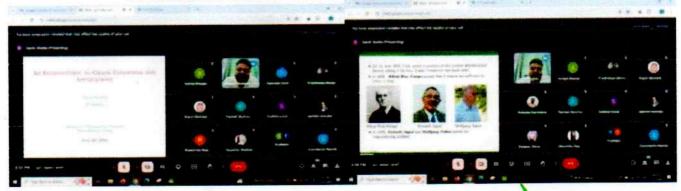
"Chemical Toxicology with special emphasis on Heavy Metal Toxicity"

Dr. SANKAR CHANDRA MOI, Professor, Dept of Chemistry, National Institute of Technology, Durgapur (26-07-2024)



Invited lecture (online) on
"Introduction to graph coloring and applications"

Dr. Samir Shukla, Assistant Professor of Mathematics, IIT Mandi (22-07-2024)



Nivedita Achanjee

Dr. Nivedita Acharjee Coordinator, DBT STAR COLLEGE SCHEME Durgapur Government College

COORDINATOR
DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

Dr. Debnath Palit Principal Durgapur Government College



Invited talk (online) on

"Magnetic Refrigeration: future prospects and Challenges"
Dr. Anis Biswas, Staff Scientist, Ames National Laboratory, Iowa State University, USA (10-07-2024)

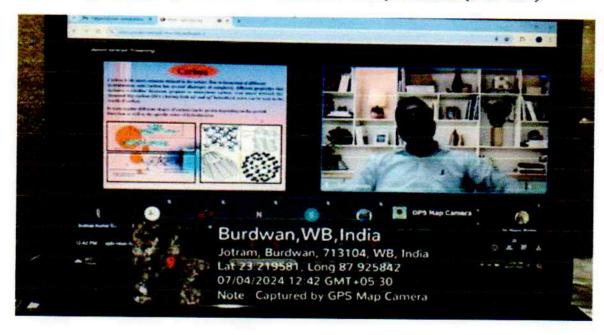


Invited talk (online)on

"An Introduction to the world of Nanomaterials"

Dr. Diptonil Banerjee,, Associate Professor,

Department of Physics, Teerthankar Mahaveer University, Moradabad (04-07-2024)



Nivedita Acharjee

Dr. Nivedita Acharjee Coordinator, DBT STAR COLLEGE SCHEME Durgapur Government College

COORDINATOR
DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214



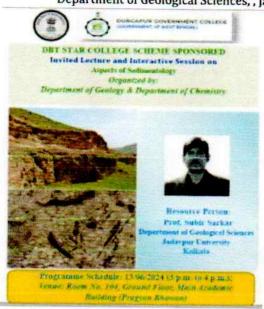
Dr. Debnath Palit Principal Durgapur Government College

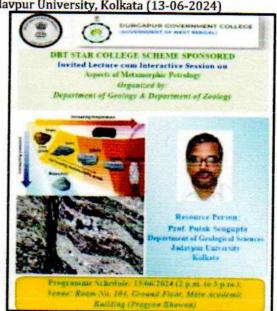


Invited Lecture on "Aspects of Sedimentology" Prof. (Dr.) Subir Sarkar,

Invited Lecture on "Aspects of Metamorphology" Prof. (Dr.) Pulak Sengupta,

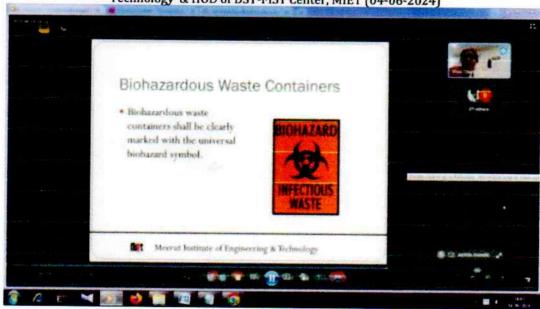
Department of Geological Sciences, , Jadavpur University, Kolkata (13-06-2024)





Workshop (online) on " Biological Waste Disposal "
Dr. Eliza Chakraborty, Professor of Biotechnology, Department of Biotechnology, Meerut Institute of Engineering and

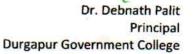
Technology & HOD of DST-FIST Center, MIET (04-06-2024)



Mivedita Acharjee Dr. Nivedita Acharjee

Coordinator, DBT STAR COLLEGE SCHEME Durgapur Government College

COORDINATOR
DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

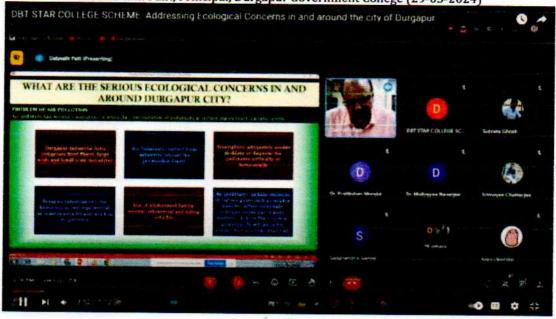




Seminar (blended mode) on

"Addressing Ecological Concerns in and around the city of Durgapur: Fundamental aspects of some research prospects",

Dr. Debnath Palit, Principal, Durgapur Government College (29-05-2024)



Invited lecture (online) on "Limit of Functions"; Dr. Arijit Ganguly, Assistant Professor of Mathematics, IIT Kanpur (29-05-2024)



Nivedita Acharjee Dr. Nivedita Acharjee

Coordinator, DBT STAR COLLEGE SCHEME

Durgapur Government College

COORDINATOR
DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

Dr. Debnath Palit Principal Durgapur Government College



Invited Lecture (online) on
"Diversification patterns of Phanerozoic Marine Invertebrates"
Dr. Subhronil Mondal, Department of Earth Sciences, IISER, Kolkata (25-05-2024)



Invited Lecture (online) on "Foraminifera as Sea Level Indicators"

Dr. Rajani Panchang, Dept. of Environmental Sciences, Savitribhai Phule Pune University (24-05-2024)



Invited Lecture (online) on "Intellectual Property Rights in Indian Scenario"

Dr. Anju T R., Assistant Professor and Head, Department of Biotechnology, Coordinator, DBT STAR COLLEGE SCHEME

Newman College, Kerala, India (24-05-2024)



Mivedita Achayjee Dr. Nivedita Acharjee

Coordinator, DBT STAR COLLEGE SCHEME Durgapur Government College

Dr. Debnath Palit Principal Durgapur Government College

COORDINATOR
DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214



Invited lecture and Interactive Session (online) on

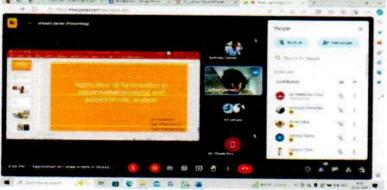
"A Journey into Quantum Land"

Prof. Anirban Pathak, Professor and Head, Department of Physics, Materials Science and Engineering, Jaypee Institute of Information Technology, Noida (23-05-2024)



Invited Lecture (online) on

"Application of Foraminifera in Palaeoenvironmental & Palaeoclimatic Analysis" Dr. Urbashi Sarkar,, Dept. of Earth Sciences, Assam University, Silchar (22-05-2024)



Invited lecture (online) on

"Visualizing DNA in action: A Multidisciplinary research methodology Approach"

Dr. Padmaja Prasad Mishra, Associate Professor, Division: Chemical Sciences, Saha Institute of Nuclear Physics, Kolkata (20-05-2024)



Nivedita Achayjee

Dr. Nivedita Acharjee
Coordinator, DBT STAR COLLEGE SCHEME
Durgapur Government College

COORDINATOR
DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

Dr. Debnath Palit Principal Durgapur Government College



Workshop (online) on

" PCR AND TECHNIQUES IN DESIGNING PRIMER FOR UG STUDENTS "

Dr. Prosanta Saha (In house), Assistant Professor, Department of Botany, Durgapur Government College (09-05-2024)



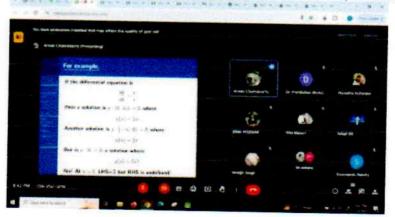


Invited lecture (online) on

"Modern Techniques of Molecular Biology and Plant Biotechnology for UG Students"



Invited Lecture (online) on "Differential Equations"; Dr. Arnab Chakraborty, Indian Statistical Institute, Kolkata (04.05.2024)



Nivedita Achanjee

Dr. Nivedita Acharjee Coordinator, DBT STAR COLLEGE SCHEME **Durgapur Government College**

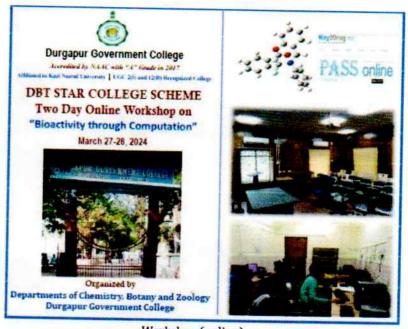
COORDINATOR DBT STAR SCHEME DURGAPUR GOVERNMENT COLLEGE J.N. AVENUE, DURGAPUR 713214

Dr. Debnath Palit Principal Durgapur Government College



Workshop (online) on "Bioactivity through Computation"

Dr. Nivedita Acharjee, Assistant Professor in Chemistry, Dr. Sandipan Ray, Assistant Professor in Botany, and research scholars, Department of Chemistry, Durgapur Government College (27-03-2024 and 28-03-2024)



Workshop (online) on
"Statistical Methods & Computer Applications in Natural Sciences"
Dr. M.K. Devrajan, Senior Mineral Exploration Consultant (16-03-2024 and 17-03-2024)



Nivedita Acharjee

Dr. Nivedita Acharjee

Coordinator, DBT STAR COLLEGE SCHEME

Durgapur Government College

COORDINATOR
DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

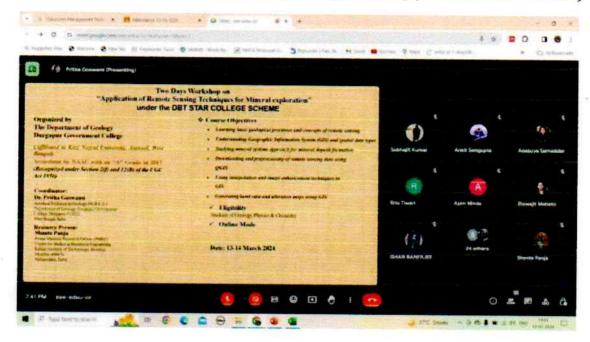
Dr. Debnath Palit Principal Durgapur Government College



Workshop (online) on

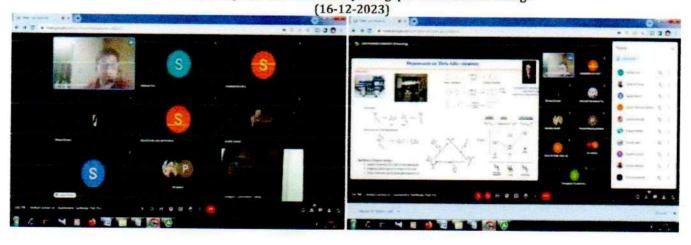
"Application of remote sensing techniques for mineral exploration"

Shanta Panja, Centre for Studies in Resources Engineering, IIT, Bombay (14-03-2024 and 15-03-2024)



Invited lecture (online) on
"Asymmetric Synthesis: Past Present and Future"

Dr. Sadhanendu Samanta, Institute of Microbial Chemistry, Tokyo, Japan and
Alumni, Department of Chemistry, Durgapur Government College



Nivedita Achanjee

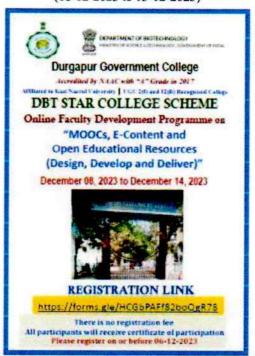
Dr. Nivedita Acharjee
Coordinator, DBT STAR COLLEGE SCHEME
Durgapur Government College

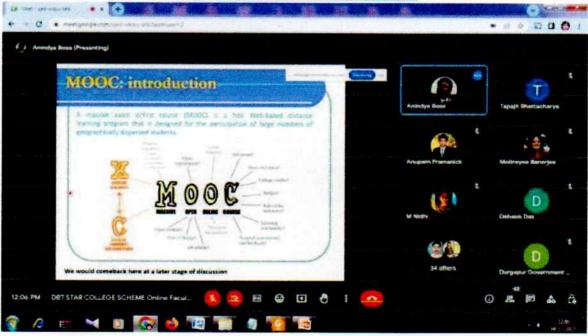
COORDINATOR
DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

Dr. Debnath Palit Principal Durgapur Government College



Faculty Development Programme on "MOOCs, E-Content and Open Educational Resources (Design Develop and Deliver) (08-12-2023 to 13-12-2023)





Nivedita Acharjee

Dr. Nivedita Acharjee
Coordinator, DBT STAR COLLEGE SCHEME
Durgapur Government College

COORDINATOR
DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

Dr. Debnath Palit Principal Durgapur Government College



DURGAPUR, WEST BENGAL

Training Programme on "Operation of Respirable Air Sampler" for laboratory staff (08-06-2024)





Training program on petrological thin section preparation for laboratory staff (13-08-2024)





One Day Training Programme on "Standard Solution Preparation using Dilution Method and by Weighing Method" and preparation of laboratory reagents" for laboratory staff (16-08-2024)







Nivedita Achayee
Dr. Nivedita Acharjee

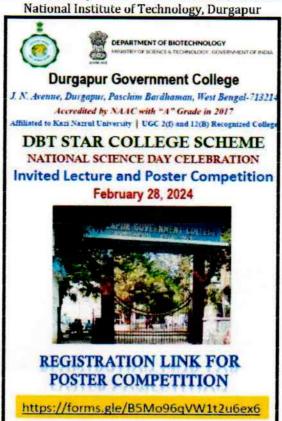
Coordinator, DBT STAR COLLEGE SCHEME
Durgapur Government College

COORDINATOR
DBTISTAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

Dr. Debnath Palit Principal Durgapur Government College



Celebration of National Science Day: Invited lecture followed by Poster Competition for students (28-02-2024)
Invited lecture by Professor Kartik Chandra Ghanta, Department of Chemical Engineering, National Institute of
Technology, Durgapur and Judgement of Posters by Dr. Mrinal Kanti Mandal, Associate Professor, Department of Physics,





Nivedita Achayee

Dr. Nivedita Acharjee
Coordinator, DBT STAR COLLEGE SCHEME
Durgapur Government College

COORDINATOR
DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

Dr. Debnath Palit Principal Durgapur Government College

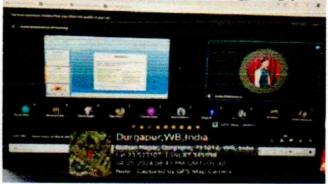


Online Awareness lecture and interactive session on "Malaria" to observe World Malaria Day (25-04-2024)

Dr. Manas Paramanik, Assistant Professor of Animal Science, Kazi Nazrul University



Online Awareness lecture and interactive session on : Mosquito: Public Enemy no 1 (WHO)" to observe World Malaria Day (25-04-2024); Dr. Kuntal Bhattacharya, Department of Zoology, Durgapur Government College



Outreach activity on "Telescope making and Star Gazing programme" organized by Departments of Physics Chemistry and Mathematics under DBT STAR COLLEGE SCHEME for local schools at Durgapur (11-07-2024)



Nivedita Achayee Dr. Nivedita Acharjee

Coordinator, DBT STAR COLLEGE SCHEME Durgapur Government College Dr. Debnath Palit Principal Durgapur Government College

COORDINATOR
DBT/STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214



Outreach activity on "Interactive session on prospects of Earth Science in Academia and Industry" for students of local colleges; Prof. (Dr.) Pulak Sengupta, and Prof. (Dr.) Subir Sarkar, Department of Geological Sciences,





Nivedita Achayee

Dr. Nivedita Acharjee

Coordinator, DBT STAR COLLEGE SCHEME

Durgapur Government College

COORDINATOR
DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214

Dr. Debnath Palit Principal Durgapur Government College



Outreach activity on "Telescope making and Star Gazing programme" organized by Departments of Physics Chemistry and Mathematics under DBT STAR COLLEGE SCHEME for local schools at Visva Bharati, Shantiniketan (12-07-2024)





(Images of moon recorded in March 2024)





Telescope making and workshop images of July 12, 2024

Nivedita Achay'ee

Dr. Nivedita Acharjee

Coordinator, DBT STAR COLLEGE SCHEME

Durgapur Government College

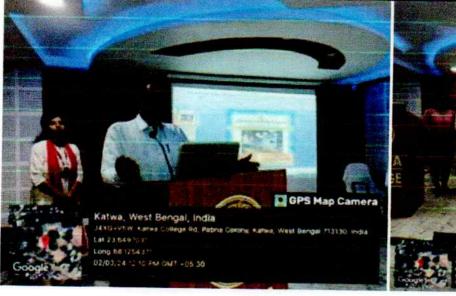
COORDINATOR
DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214





Mentoring Session conducted for Katwa College to apply for DBT STAR COLLEGE SCHEME (02-03-2024)







Nivedita Achayee Dr. Nivedita Acharjee

Coordinator, DBT STAR COLLEGE SCHEME Durgapur Government College

COORDINATOR
DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214



Dr. Debnath Palit Principal Durgapur Government College



Dhruba Mondal and Ankit Sengupta, UG Semester-III student, Department of Geology jointly won third prize in the Poster Presentation Competition in Lithify 2024, organized by Department of Geological Sciences,

Jadavpur University, Kolkata (September 2024)





Nivedita Achaylee Dr. Nivedita Acharjee

Coordinator, DBT STAR COLLEGE SCHEME

Durgapur Government College

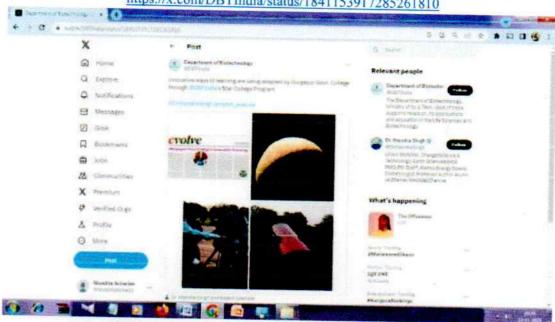
Dr. Debnath Palit Principal **Durgapur Government College**

COORDINATOR DBT STAR SCHEME DURGAPUR GOVERNMENT COLLEGE J.N. AVENUE, DURGAPUR 713214



INNOVATIVE PRACTICES OF DURGAPUR GOVERNMENT COLLEGE POSTED IN THE OFFICIAL X PAGE OF DEPARTMENT OF BIOTECHNOLOGY

https://x.com/DBTIndia/status/1841153917285261810



DBT STAR COLLEGE SCHEME ACTIVITIES OF DURGAPUR GOVERNMENT COLLEGE IN NEWSPAPERS ARTICLES



DBT STAR COLLEGE SCHEME ACTIVITIES (August 11, 2024): Sunday Statesman (Kolkata)

Mivedita Achayee
Dr. Nivedita Acharjee

Coordinator, DBT STAR COLLEGE SCHEME Durgapur Government College Dr. Debnath Palit Principal Durgapur Government College

COORDINATOR
DET STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214





DBT STAR COLLEGE SCHEME (Durgapur Government College) (July 29, 2024): Daily Statesman (Bengali Version)



July 18-19, 2024

Hands on Training Programme on "Basic Electrical Equipment and Home Appliances" under DBT STAR COLLEGE SCHEME as a collaborative initiative of Durgapur Government College with Government Industrial Training Institute, Durgapur

Névedita Achayee Dr. Nivedita Acharjee

Coordinator, DBT STAR COLLEGE SCHEME Durgapur Government College Dr. Debnath Palit Principal Durgapur Government College

COORDINATOR
DBT STAR SCHEME
DURGAPUR GOVERNMENT COLLEGE
J.N. AVENUE, DURGAPUR 713214





18 June 2024

To Whomsoever It May concern

We are happy to certify that Durgapur Government College has collaborated with us to jointly organize the Science Setu lectures, the details of which are enclosed. Seven lectures were organized as a part of this collaborative initiative from 03-04-2024 to 28-05-2024 online.

Sagar Sengupta

Sayan Suly

Director

हैं, सागर सेनगुरता / Dr. Sagar Sangupta निरंशक / Director

क் இல் அரசு வி சாய ரிக பற்ற கிறியை கிறியை கான Biotechnology Research Innovation Council-National Institute of Biomedical Genomics

(BRIC - NIBMG) ৰুখোগাঁ, যদিবম ৰুণাল Kaiyani, West Bengal মানো / India







DETAILS OF THE SCIENCE SETU LECTURES ORGANIZED AS A COLLABORATIVE INITIATIVE OF DURGAPUR GOVERNMENT COLLEGE, DURGAPUR, PASCHIM BARDHAMAN, WEST BENGAL AND NATIONAL INSTITUTE OF BIOMEDICAL GENOMICS, KALYANI, WEST BENGAL

SI No.	Date of the event	Name of the Event	Resource Persons/In House Faculty members	YouTube Link
1	03-04-2024	Science Setu Invited Lecture on Genomics Enabling Deep Understanding of Human Health and Disease	Dr. Arindam Maitra, Associate Director, National Institute of Biomedical Genomics, Kalyani, West Bengal	https://youtube.com/live/TjwHx UzK0Wg?feature=share
2	04-04-2024	Science Setu Invited Lecture on Liquid Biopsy in cancer detection and tumor surveillance	Prof. Kartiki V. Desai, Professor, National Institute of Biomedical Genomics, Kalyani, West Bengal	https://www.youtube.com/watc h?v=zMNhRZ3jT7U
3	24-04-2024	Science Setu Invited Lecture on Tuberculosis: A journey from ancient to modern times	Dr. Bhaswati Pandit, Associate Professor, National Institute of Biomedical Genomics, Kalyani, West Bengal	https://www.youtube.com/watc h?v=QVuKcNetgHw
4	03-05-2024	Science Setu Invited Lecture on Genetics and Immunobiology of Interferon Lambda 3/4 and their significance in human health and disease	Dr. Sreedhar Chinnaswamy, Associate Professor, National Institute of Biomedical Genomics, Kalyani, West Bengal	https://youtu.be/U-wiTTiz_Ti
5	07-05-2024	Science Setu Invited Lecture on Fulfilling the promise: the search for Genomic medicine	Dr. Priyadarshi Basu, Associate Professor, National Institute of Biomedical Genomics, Kalyani, West Bengal	https://youtu.be/9E_ibEy4Oz0
6	18-05-2024	Science Setu Invited Lecture on "Genetics of Glaucoma: A journey of two decades and continuing"	Or. Moulinath Acharya, Associate Professor, National Institute of Biomedical Genomics, Kalyani, West Bengal	https://youtu.be/Mnj3P4AJdl4
7	28-05-2024	Science Setu Invited Lecture on "Stemness" and "Plasticity" the moving targets in Cancer	Dr. Sandeep Singh, Associate Professor, National Institute of Biomedical Genomics, Kalyani, West Bengal	https://youtu.be/giLackyTRrg

Kalyani, PIN: 741251, West Bengal, India

Tel: +91-33-29772151, +91-33-66422111; Website: www.nibmg.ac.in