


Attainment of Programme outcome and Course outcome

Department of Botany

To find out attainment of programme outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (Cos), following measurable factors have been taken into consideration during the sessions

S.No.	Measurable factors	2020-21	2019-20	2018-19	2017-18	2016-17
1.	UG final University Merit Achiever					
2.	UG Final Year Pass Percentage	100%	100%			
3.	Project by students	Yes	Yes	Yes	Yes	Yes
4.	Quiz	Yes		Yes		
5.	Models Construction	Yes				
6.	Entrepreneurial/skill trainings					
7.	Student Presentation/Seminar	Yes	Yes			
8.	Experimental Learning in UG Programme	Yes	Yes	Yes	Yes	Yes
9.	Value added course					
10.	Webinar	Yes				
11.	Certificate Course	Yes				
12.	Guest Lectures/ Expert Lectures	Yes		Yes		


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Indira Gandhi Government Arts and Commerce College, Vaishali Nagar

Department of Botany

Department Activity- 2018-2019

Programme: Guest Lecture

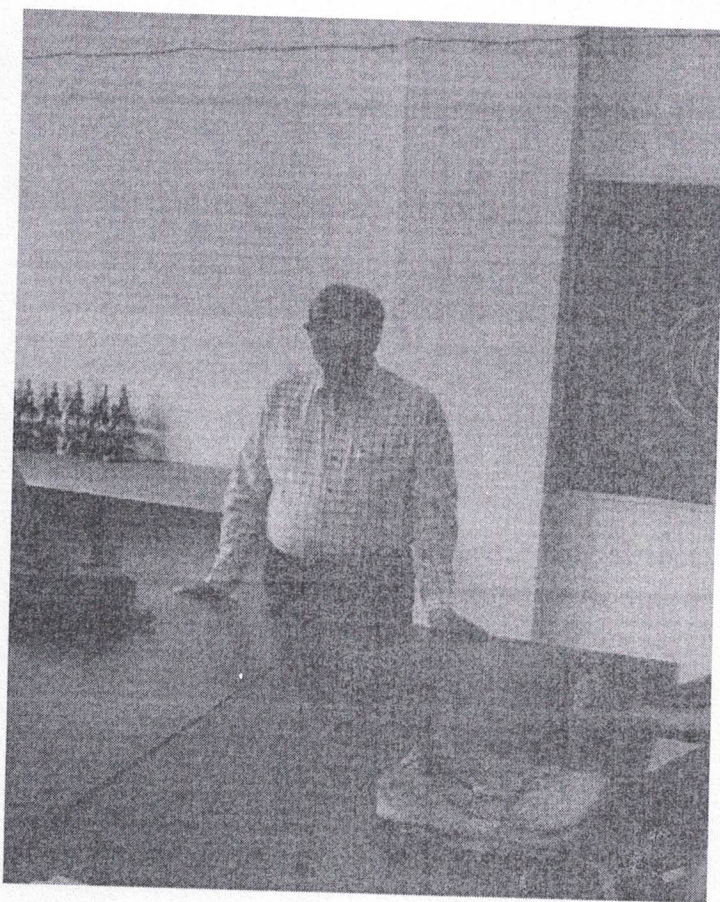
Date: 3rd December 2018


Topic: Cyanobacteria: Significance to Environment

Venue: Botany Lab

Participants: 56 Students of B.Sc. I, B.Sc. II and B.Sc. III (Biology)

A lecture was delivered by Dr. A. K. Shrivastava, Assistant Professor and Head of Department of Botany and Microbiology, Govt. D.T. College, Utai, Durg on the topic 'Cyanobacteria: Significance to Environment' as a power point presentation. In his lecture Dr. Shrivastava explained the structure of Cyanobacteria, nitrogen fixation in Cyanobacteria and their role as green manure. Sir also discussed the use of this green manure in reclamation of barren lands and their prospects in future.




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Department of Botany

Department Activity- 2020-2021

Certificate course

A certificate course was organized for the students of non-biology subjects by the Life science club (Department of Botany, Zoology and Industrial Microbiology) to teach them topics related to Biology which are part of the syllabus of most of the competitive exams. The syllabus was prepared according to the syllabus of Public Service Commission examination which was completed in 30 hours. 102 students enrolled in the classes. The classes were conducted in online mode and the exam was also taken online on google forms. The students who attained minimum qualifying marks were given certificates.

The image shows a screenshot of a Google Form titled "Life Sciences : Add on course". The form is displayed in a browser window with the URL "docs.google.com/forms/d/1S_W2HZeV37vK3Fg2w9G2L_2b7s2erblj2cs5bFuH4/edit". The form has a header image of a plant. Below the title, there is a description: "This certificate course is designed for the students of Indira Gandhi Government Arts and Commerce PG College, Vaishali Nagar, Bhilai to give them basic information in the field of life science, which would be useful for them in future." There is a required text input field for "Email *" with a "Valid email" error message below it. Below the email field, it says "This form is collecting emails. Change settings". At the bottom, there is a "Name" field. The browser's response tab shows 102 responses. A green signature is visible in the bottom right corner of the page.

Timestamp	Name	Father's Name	Class	Faculty	email ID	Mobile Number	Email Address
6/2/2021 12:29:31	Md Sarik Ahemad Khan	Md Sammi Ullah Khan	Option 1	Science	ksarik534@gmail.com	6266899352	ksarik534@gmail.com
6/2/2021 12:30:11	Chetan lal dewangan	Santosh dewangan	Option 1	Science	rahuldew0423@gmail.co	7060510713	rahuldew0423@gmail.com
6/2/2021 12:30:27	Shreya sahu	Manaram sahu	Option 1	Science	shreyasahu414@gmail.c	9630472147	shreyasahu414@gmail.com
6/2/2021 12:30:30	Vishakha kumari	Narendra singh	Option 1	Science	Vishakhasingh48216@gi	9179870323	vishakhasingh48216@gmail.com
6/2/2021 12:30:48	Geeta Baghel	Kartar singh	Option 1	M	geetabaghel364@gmail.c	7889006273	geetabaghel364@gmail.com
6/2/2021 12:31:03	Sheetal Deshmukh	Ajay Deshmukh	Option 1	Science	sheetaldeshmukh228@g	9174869944	sheetaldeshmukh228@gmail.com
6/2/2021 12:31:09	Indrajeet Sahu	Chuneshwar Sahu	Option 1	Science	indrajeetsahu616@gmail	6261425186	indrajeetsahu616@gmail.com
6/2/2021 12:31:25	Disha Yadav	Nand kumar yadav	Option 1	Science	dishayadav587@gmail.c	7828215140	dishayadav587@gmail.com
6/2/2021 12:32:59	Asha mahanand	Khamu mahanand	Option 1	Science	ashamahanand4@gmail.	9340892478	ashamahanand4@gmail.com
6/2/2021 12:34:57	Beauty Kumari	Rakesh Kumar Singh	Option 1	M	beautykumarisingh03@g	9302432410	beautykumarisingh03@gmail.com
6/2/2021 12:35:13	Priya soni	Mr Anil soni	Option 1	Science	priyasoni25745@gmail.c	9399741094	priyasoni25745@gmail.com
6/2/2021 12:35:33	INDRA KUMAR	REMAN LAL	Option 1	Science	indrakumarsahuji@gmail	7697579041	indrakumarsahuji@gmail.com
6/2/2021 12:36:09	Naha saw	Shankar saw	Option 1	Science	nehasaw546@gmail.com	9301889860	nehasaw546@gmail.com
6/2/2021 12:36:25	AAFREEN HUSSAIN	AKBAR HUSSAIN	Option 1	Science	aafreenhussain00786@e	8770238404	aafreenhussain00786@gmail.com
6/2/2021 12:37:00	Priyanka Patel	Onkar prasad patei	Option 1	Science	dp748428@gmail.com	07667008005	dp748428@gmail.com
6/2/2021 12:37:16	Priyanka Singh	Sanjay kumar Singh	Option 1	M	singhpriyanka12781278@	7587349614	singhpriyanka12781278@gmail.com
6/2/2021 12:37:36	Simranjeet kaur	Malkeet singh	Option 1	M	Gurpreetsingh1oct@gma	5111034931	gurpreetsingh1oct@gmail.com
6/2/2021 12:38:41	Aarti kumari	Ramdev gupta	Option 1	Science	aartikumari67052@gmai	9752454132	aartikumari67052@gmail.com
6/2/2021 12:40:35	Anjali madhani	Rakesh madhani	Option 1	Science	Anjalimadhani825@gmai	6253071959	anjaliadani825@gmail.com

Life Science Add on course Exam

This quiz is being organized for the students of Indira Gandhi Government Arts and Commerce PG College, Vaishali Nagar, Bhilai who have joined the value added course in life Science

Email *

Valid email

This form is collecting emails. Change settings

Name

Short answer text

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Unbided form - Google Forms x +


docs.google.com/forms/d/1q.../edit#respon...
Gmail YouTube Maps

khushipandey9926@gmail.com	22	Not released
indrajeetsahu16@gmail.com	18	Not released
nawajmrja123@gmail.com	12	Not released
nehathakur0937@gmail.com	26	Not released
bhagyasrinwasnik1234@gmail.com	20	Not released
khushiagrahari1812@gmail.com	36	Not released
dishayadav537@gmail.com	18	Not released

Name
14 responses

Disha Yadav
Simranjeet kaur
Rahul sahu
Khushi Pandey

Activate Windows
Go to Settings to activate Windows


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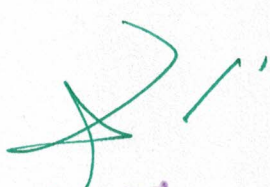
Department of Botany

Department Activity- 2020-2021

Experimental learning

Field visit is a part of Practical curriculum of B.Sc. Part II where the students visit a natural habitat to study the pattern of vegetation and prepare a field report of the same. This helps them identify the plants in their natural habitat and also inculcates a sense of responsibility towards their conservation. In the session 2020-2021 the students were asked to visit areas near their houses to prepare a field report.




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Department Activity- 2020-2021

Model Construction

Models were prepared by students of B.Sc. III on various topics from the syllabus. The best models were given certificates.

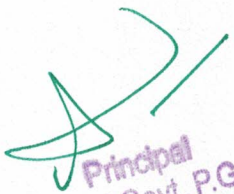


The winners were as follows

Prize	Name of the student	Class
First	KhushbooSahu	B.Sc. Part I
	AafreenHussain	B.Sc. Part I
	KaminiSinha	B.Sc. Part II
	MamtaNishad	B.Sc. Part II
	NanditaRatre	B.Sc. Part II

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Second	SonamSoni	B.Sc. Part II
	TannuKumari	B.Sc. Part III
	Amrita Sinha	B.Sc. Part III
	ArtiSoni	B.Sc. Part III
	VibhaSen	B.Sc. Part III
	NazmaSiddiqui	B.Sc. Part III
Third	NehaSahu	B.Sc. Part I
	TriveniSahu	B.Sc. Part I
	BhawanaSahu	B. Sc. Part II
	Nikita	B. Sc. Part II
	JyotiVerma	B.Sc. Part II
	RashmiDewangan	B.Sc. Part II
	NamrataYadav	B.Sc. Part II
	HimanshuKurwe	B.Sc. Part II
	DaminiPurane	B.Sc. Part III
	SaraswatiDewangan	B.Sc. Part III
	SeemaNishad	B.Sc. Part III
	KajalDewangan	B.Sc. Part III
	JyotiVerma	B.Sc. Part III
	JyotiYadav	B.Sc. Part III
	DaminiMarkandey	B.Sc. Part III
	DurgaNishad	B.Sc. Part III
	SonaliLahre	B.Sc. Part III
Monika	B.Sc. Part III	


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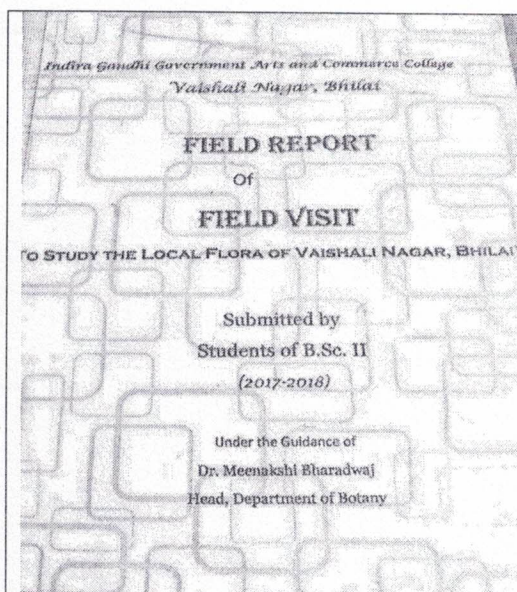
Department Activity- 2017-2018

A field visit to Vaishali Nagar gardens was organized on 10th October 2017 for the students of B.Sc. I, B.Sc. II and B.Sc. III. Three Gardens were shortlisted in the area to be visited to observe the flora. A list of available herbs, shrubs and trees was prepared. This helped the students to identify the plants in their natural habitat, know their common names, Botanical names, and families to which they belonged. This helped the students in taxonomic study without destroying the plant habitats and at the same time they came to know their economic importance. A field report was prepared by the students of B.Sc. II and submitted in the department. Students reported following diversity

Herbs : 80 species (Approx.)

Shrubs : 44 species

Trees : 33 species



Introduction

Field study is an essential part of Botany. The natural environment i.e. the surroundings in which plants interact with the biotic and abiotic factors is one of the most interesting things that is needed to be studied by the students of Life science. Studying plants in their natural habitat enhances our knowledge that is learnt from the classroom discussions and laboratory experiments.

This field visit was organized by the department of Botany, Indira Gandhi Government Arts and Commerce College, Vaishali Nagar to study the flora of Vaishali Nagar area. Since the area is quite big and could not be completed in a day or two, it was decided to select three major gardens in the locality. And present the data collected as field report.

Conclusion

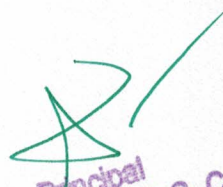
The study in the three selected gardens of Vaishali Nagar area to study the flora of the region revealed the following

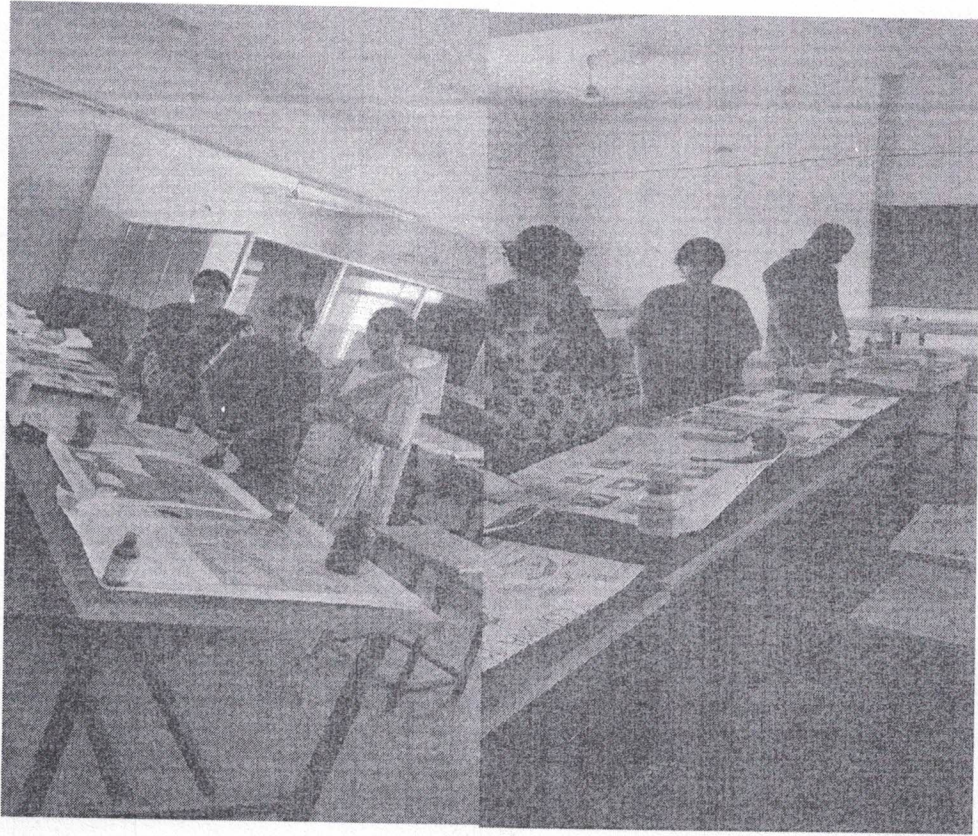
No. of Tree species : 33


No. of Shrub species : 44

No. of Herb Species : 80

This shows that Vaishali nagar area contains species diversity, and can be considered as green area


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Department Activity- 2020-2021

Guest lecture

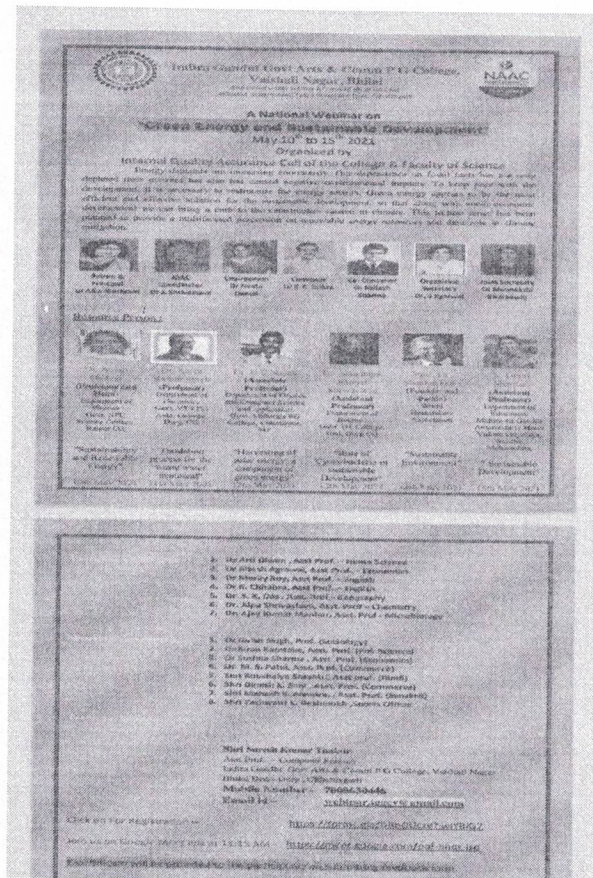
Programme: National webinar 'Green Energy and Sustainable Development

Date: 13th May 2021

Topic: Role of Cyanobacteria in sustainable development

No. of Participants: 100

Lecture on 'Role of Cyanobacteria in sustainable development' was delivered by Dr. Awadhesh Kumar Shrivastava, Head, Department of Botany, Government DT College, Utai, District Durg.




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Risali, Chhattisgarh, India

42/1, Street 7B, Priyadarshini Nagar, Maitrinagar, Risali, Chhattisgarh 490006, India

Lat N 21° 9' 57.9628"

Long E 81° 20' 14.5356"

13/05/21 12:16 PM

Soil Salinization by Reclamation of Salt Affected

Salinity can affect soil (acidic/alkaline/saline) are less productive and soils impermeable to water due to the presence of exchangeable Na⁺ in the upper layers make it unusable or

The saline soils characterized by a high pH, high exchangeable Na, discrete amounts of carbonates, and it undergoes extensive clay dispersion (deflocculation due to the high zeta potential of active Na⁺). The low hydraulic conductivity and reduced soil aeration make the soils

Salinity and certain physiological advantages associated with cyanobacteria which enable them withstand these stresses:

- High level of Na⁺ influx (Apte et al., 1987)
- Production of inorganic (or low) or organic osmoregulators (sugars, polyamines, amino acids, etc. (Srivastava et al., 2002))



Risali, Chhattisgarh, India

42/1, Street 7B, Priyadarshini Nagar, Maitrinagar, Risali, Chhattisgarh 490006, India

Lat N 21° 9' 57.9204"

Long E 81° 20' 14.5032"

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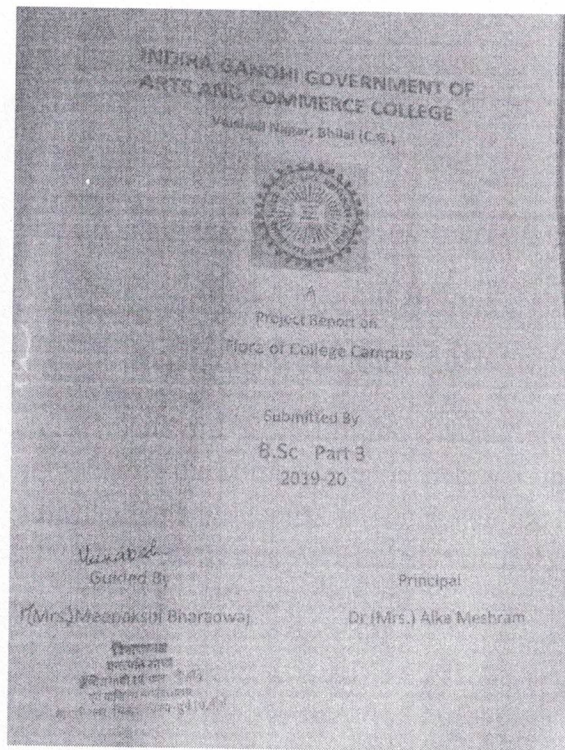
(Handwritten signature)
 Principal
 Indira Gandhi Govt. P.G. College
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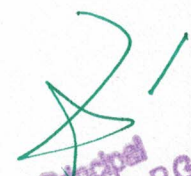
Indira Gandhi Government Arts and Commerce College, Vaishali Nagar

Department of Botany

Department Activity- 2019-2020

A study was conducted by students of B.Sc, III of the vegetation found in the college campus and a flora was prepared by listing the complete set of plants found, along with their botanical names. This study helps the students to identify the plants on the basis of their morphological characteristics, identify their systematic position and also identify their habitat. The project report thus prepared is helpful in such studies in future.




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Department of Botany

Department Activity- 2018-2019

Programme: Quiz Competition

Date: 10th December 2018

Topic: Environment Conservation

Venue: Botany Lab

A quiz on the topic 'Environment Conservation' was organized for the students of the college to make the students aware of the importance of our environment and its conservation. 23 students participated in the quiz.

The winners of the quiz were

1st Sandhya Gupta B.Sc. III (Biology)

2nd Gunita Sahu B.Sc. III (Biology)

3rd Kiran M.A. Economics II Sem

Consolation Punendra Tandon M.Sc Chemistry IV Sem

Indira Gandhi Government Arts and Commerce College, Vaishali Nagar, Bhubai

Department of Botany

Department Activity 2018-2019

Quiz: Environment Conservation

Time: 30 minutes

नोट: सभी प्रश्नों के अंक समान हैं। सही उत्तर पर 2 अंक दिए जायेंगे।

Note: All questions carry equal marks. 2 marks will be given for every correct answer.

1. प्रकाश को ऊर्जा को रसायनिक ऊर्जा में परिवर्तित करता है?

Which of these convert radiant energy into chemical energy?

a) Micro organisms (सूक्ष्मजीवाणु)

b) Decomposers (अपघटक)

c) Secondary consumers (द्वितीयक उपभोक्ता)

d) Green plants (हरे पौधे)

2. पृथ्वी के कितने प्रतिशत भाग में जल है?

What percentage of earth is water?

a) 50%

b) 71%

c) 60%

d) 91%

3. एक वैज्ञानिक द्वारा दलदली क्षेत्र के पानी का अध्ययन करने पर अधिकांश पौधे प्रदूषित पाए गए। _____ के कारण देखा जा सकता है।

A scientist studies a sample of swamp water. She finds that there are any dead plants and animals in water. _____ in water could be the main cause of this.

a) Oxygen (ऑक्सीजन)

b) Litter and pollution (कचरा व प्रदूषण)

c) Mud and silt (मृदा)

d) Sand and pebbles (रेत व पत्थर)

4. विश्व का सर्वाधिक प्रसिद्ध कीटनाशक मोन सा है?

Which is the most popular insecticide in the world?

a) DDT कीटनाशक

b) BHC कीटनाशक

c) F11 कीटनाशक

Page No: _____
Date: _____

II. Quiz - on Environment Conservation

Quiz was organized for all the students of the college on 10th December 2018

Winners of the Quiz.

1st - Sandhya Gupta B.Sc. III (Bio)

2nd - Gunita Sahu B.Sc. III (Bio)

3rd - Kiran M.A. Economics II Sem.

Consolation - Punendra Tandon M.Sc. IV Sem. (Chem)

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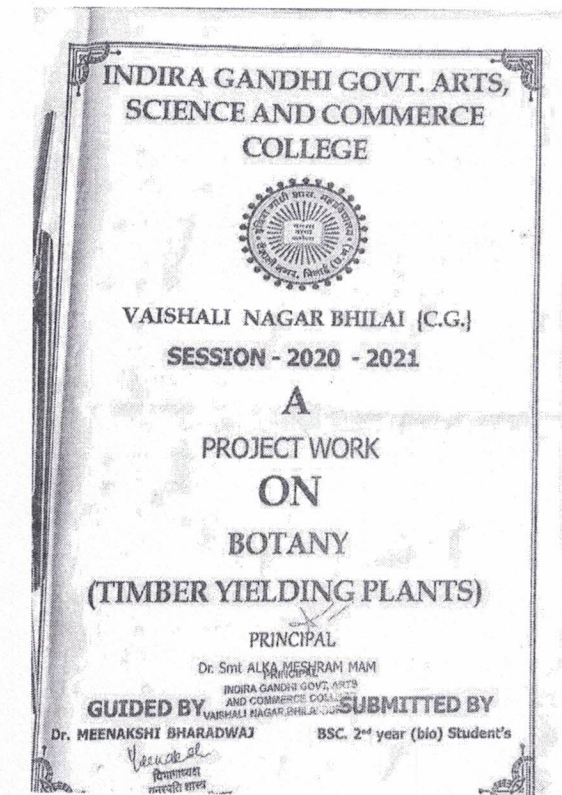
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Department of Botany

Department Activity- 2020-2021

Project by students

Preparation of a project is part of the curriculum of B.Sc. Part III where they are given a topic in the form of a question and they need to find the answer. This helps them to get a deep insight into the topic and help the students to get a better understanding of the topic.



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Department of Botany

Department Activity- 2020-2021

Quiz

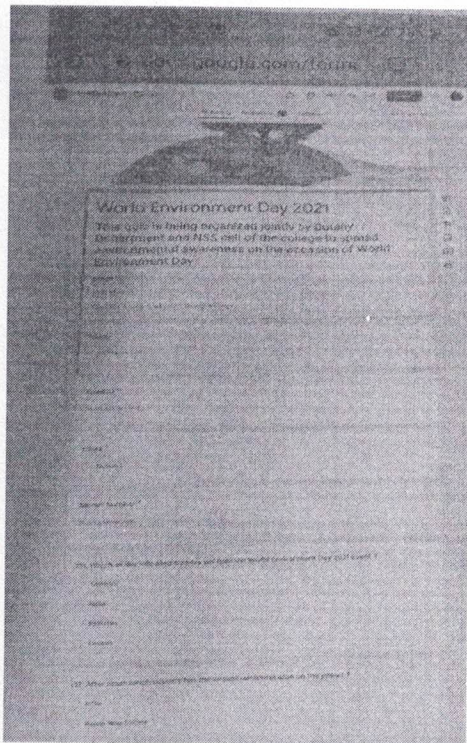
Science quiz was organized on the occasion of World Environment Day (5th June 2021) on virtual platform. 64 students of various faculties participated in the quiz. The result of the quiz is

1st Aafreen Hussain

1st Kavita Sahu

2nd Beauty Kumari

3rd Muskan Khan

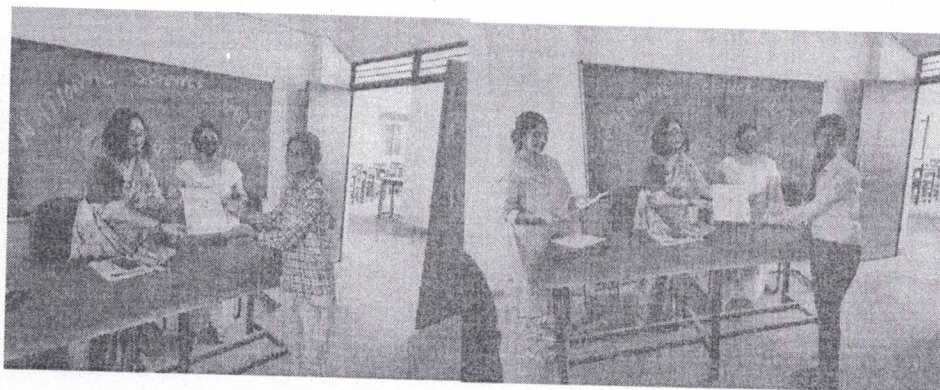
A screenshot of a Google Sheets spreadsheet showing the results of the quiz. The spreadsheet has columns for TimeStamp, Email Address, Score, Name, Class, Email ID, Mobile Number, and Q1. Below is the data extracted from the spreadsheet:

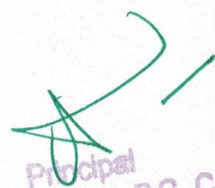
TimeStamp	Email Address	Score	Name	Class	Email ID	Mobile Number	Q1. Which of the following is NOT a...
6/5/2021 12:05:03	aafreenhussain97@gmail.com	10 / 50	Aafreen Hussain	Option 1	aafreenhussain97@gmail.com	8078464001	Germany
6/5/2021 12:07:52	aafreenhussain97@gmail.com	50 / 50	Aafreen Hussain	Option 1	aafreenhussain97@gmail.com	8178238434	Pakistan
6/5/2021 12:09:09	lovelydng@gmail.com	14 / 50	Lovely	Option 1	lovelydng@gmail.com	9131455617	India
6/5/2021 12:14:16	beautykumari97@gmail.com	40 / 50	Beauty Kumari	Option 1	beautykumari97@gmail.com	9302420116	Pakistan
6/5/2021 12:14:37	kavitasahu75587@gmail.com	14 / 50	Kavita Sahu	Option 1	kavitasahu75587@gmail.com	808959229	India
6/5/2021 12:16:00	ast1608@gmail.com	16 / 50	Ast Sani	Option 1	ast1608@gmail.com	6264550505	Pakistan
6/5/2021 12:16:24	sahamaham04@gmail.com	16 / 50	Saha Mahamud	Option 1	sahamaham04@gmail.com	934882478	India
6/5/2021 12:17:05	sahamaham04@gmail.com	20 / 50	Sahani Kala Sani	Option 1	sahamaham04@gmail.com	8995947311	Pakistan
6/5/2021 12:18:20	sahu.oppa01@gmail.com	22 / 50	RUPESH KUMAR SAHU	Option 1	sahu.oppa01@gmail.com	929241231	India
6/5/2021 12:19:47	kriticasahu13@gmail.com	22 / 50	Kritesh Kumar Sahu	Option 1	kriticasahu13@gmail.com	89129216276	India
6/5/2021 12:19:47	vivekumarshu207@gmail.com	10 / 50	Vivek Kumar	Option 1	vivekumarshu207@gmail.com	8029734085	India
6/5/2021 12:20:24	prity455@gmail.com	32 / 50	Prity Choudhan	Option 1	prity455@gmail.com	626698237	Pakistan
6/5/2021 12:20:40	poorjap55sahu@gmail.com	24 / 50	Pooja Sahu	Option 1	poorjap55sahu@gmail.com	9192690299	India /
6/5/2021 12:21:30	poorjapand03@gmail.com	20 / 50	Pooja Pandit	Option 1	poorjapand03@gmail.com	8207038586	India
6/5/2021 12:21:51	damini.mastaney2@gmail.com	22 / 50	Damini Mastaney	Option 1	damini.mastaney2@gmail.com	059484174	India
6/5/2021 12:22:14	muskanmehra06@gmail.com	10 / 50	Muskanika Verma	Option 1	muskanmehra06@gmail.com	8204909340	India
6/5/2021 12:22:51	muskanmehra06@gmail.com	14 / 50	Muskan Verma	Option 1	muskanmehra06@gmail.com	6381590612	India
6/5/2021 12:22:57	vibhaseni@gmail.com	14 / 50	Vibha Sena	Option 1	vibhaseni@gmail.com	646673276	India
6/5/2021 12:22:57	yashraj2@gmail.com	20 / 50	Yash Rajeev	Option 1	yashraj2@gmail.com	8266895939	Germany

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Science quiz was organized on National Science Day in virtual mode in googleform, the winners of the quiz are as follows

Prize	Name of the student	Class
First	Baby Rai	B.Sc. Part I
	FizaQureishi	B.Sc. Part I
Second	Meenal Lac	B.Sc. Part II
Third	AafreenHussain	B.Sc. Part I
	Bhumika Jain	B.Sc. Part III
	Shrishti Mishra	B.Sc. Part III
	ShwetaMaurya	B.Sc. Part III
	DurgaNishad	B.Sc. Part III
	PayalDewangan	M.Sc. I Sem. Chemistry




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Department of Botany

Department Activity- 2020-2021

Programme: National webinar

Date: 13th June 2021

Topic: 'Introduction to Right to Information Act'

No. of Participants: 100

A webinar on 'Right to Information' was organized by Department of Botany in association with Department of Physics to impart information regarding the newly implemented right. Dr. Ajay Kumar Bhardwaj, Professor, Department of Botany, Institute of Excellence in Higher Education, Bhopal, M.P. was the resource person.

**Indira Gandhi Govt. Arts & Comm P. G. College,
Vaishali Nagar, Bhopal**
National Webinar

Introduction to Right To Information Act


Organized by
Department of Physics & Botany
13th June 2021, Time 04:00 PM

Resource Person
Dr. Ajay Kumar Bhardwaj
(Professor, Dept. of Botany)
Institute of Excellence in Higher Education,
Bhopal, M.P.

Patron
Dr. Smt Aika Meshram
(Principal)
Indira Gandhi Govt. Arts & Comm P.G.
College, Vaishali Nagar, Bhopal, C.G.

Registration Link:
<https://forms.gle/32DKnLQQ7N8pCPAL9>
To join the Webinar on Google Meet, click this link:
<https://meet.google.com/cjg-ijm-mvsn>

E-certificate will
be provided to
Participants.


Principal
Indira Gandhi Govt. P.G. College
Vaishali Nagar, Bhopal
C.G.

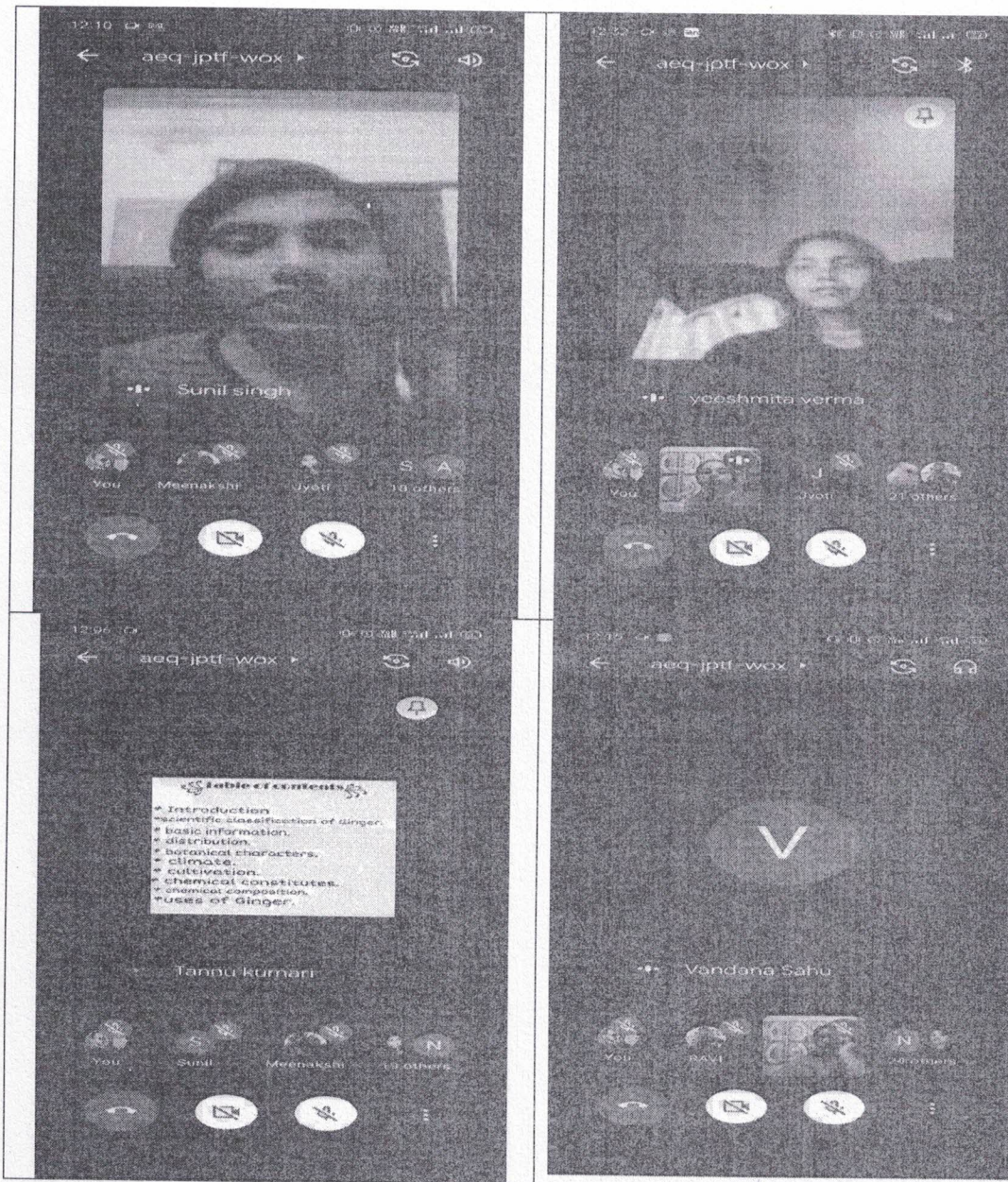
Indira Gandhi Government PG College, Vaishali Nagar

Department of Botany

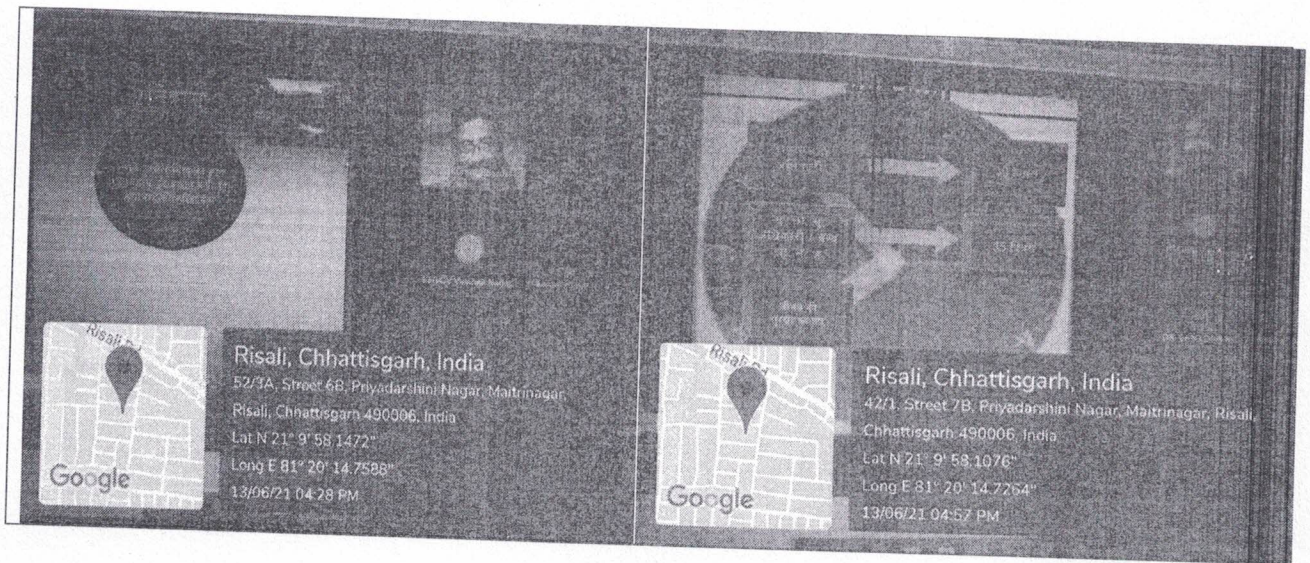
Department Activity- 2020-2021

Seminars presented by Students

Students of B.Sc. III prepared topics and presented them as power point presentation according to a schedule prepared. The seminars were given in virtual mode on Google meet platform.



Principal
Indira Gandhi Govt. P.G. College
Vaishali Nagar, Bihar




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Indira Gandhi Govt. P.G. College
Vaishali Nagar, Bhalai