

Indira Gandhi Govt PG College Vaishali Nagar
Department of English

2.3.1 Student Centric methods of the department

1. Experimental Learning

The Department uses following modes as an experimental learning.

1- Teaching aids : The department uses various teaching aids to teach a lesson as it is very necessary that a student must create a mental picture of the matter taught, for better understanding. Hence students are often asked to prepare.

- **Charts**
- **Videos are shown thorough ICT related to lesson.**
- **Collage.**

2. Project Preparation : Often students of PG classes are asked to prepare projects on various poets, dramatist, based on their works given in the syllabus, this gives them deep insight into the topic, as thorough study is required for project preparation. It can be assumed to have equivalent importance as practicals in science subjects.

3. Project of Museum preparation : The department works on department Museum project. In this the students are asked to prepare project on creative writers , giving special emphasis on extended knowledge about the writers, or unknown or unexplored facts that is pictures of their family / house / furniture / original script etc.


Head
Dept. of English
Indira Gandhi Govt. P.G. College
Vaishali Nagar, Bhilai


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

4. **Grammar Activity book** : The department has prepared Grammar activity book , for UG first year students , to give them practice of grammatical module , in the class , as a method of experiment learning.
5. **Vocabulary Diagnostic test** : the department has prepared a booklet known as Vocabulary Diagnostic Test for UG Second year students , to give them a thorough practice of vocabulary items.



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Vaishali Nagar, Bhilai


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Vaishali Nagar, Bhilai

2. Participating learning

The following methods are used as a mode of participative learning

1. **Ask questions and make suggestions** : students are free and encouraged to ask questions and make any suggestions that they want to during the class, so as to get maximum participation.
2. **Role play** : the PG students often enact / or do role play of the character of a drama in the class which is an important mode of participative learning .
3. **Explanation of lesson by the student** : After a portion is being taught by the teacher, the students are asked to explain the lesson again in the class , by his / her own way , so as to get maximum participation.
4. **Students seminar / presentation** : students are asked to present paper on topic given as a part of student seminar in the class get maximum participation.


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3. Problem solving methodologies

In problem solving methodologies the department of English uses following methods

1. **Revision classes** : They are organized after each unit is covered in both UG and PG classes and specifically after the whole syllabus is covered and also before examination.
2. **Guest lectures** : The department organizes guest lectures , not specific topic , but also as a means to solve students problems on the topic , as the topic that are chosen for guest lectures as those in which the students have demand more clarification.
3. Students are given typed or **hand written notes** prepared by the faculties , for the topics in which the students face difficulties to answer.
4. **Links are provided** : students of PG classes are provided with link for extended knowledge on specific topics , that they find difficult and need more clarification.
5. **Planning of lectures** : Each lessons are planned before the class , so that each individual student can understand well. Maximum time or classes are taken for each lesson , keeping in consideration of goal , dealing with students questions / queries , and solving the problem raised.
6. **Whatsapp group of the department** : The department has a whatsappgroup , where the students can message even after college hour , specially before examinations , regarding their problems, or doubts related to les

Indira Gandhi Govt. PG College Vaishali Nagar

Department of English

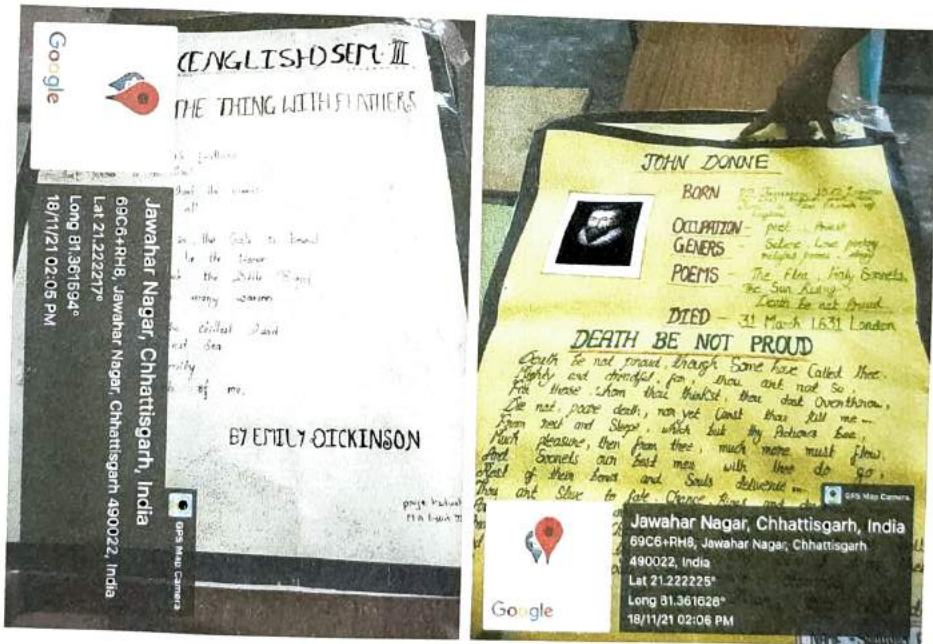
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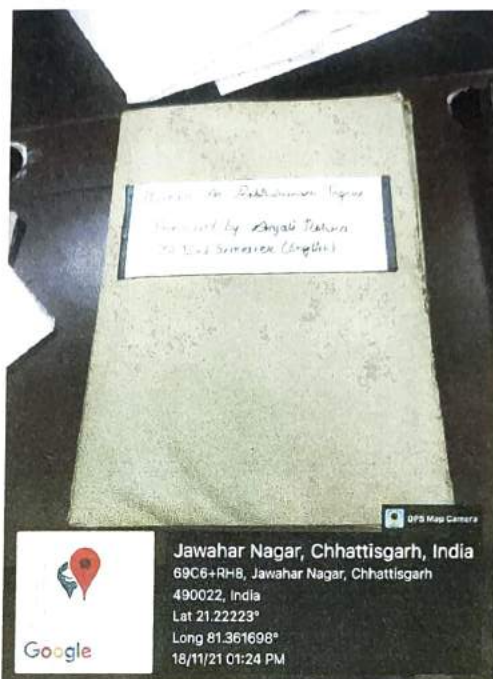


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Indira Gandhi Govt. P.G. College
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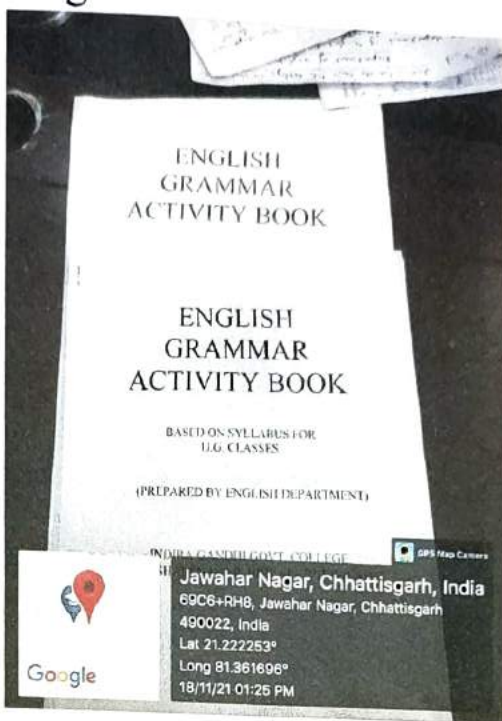
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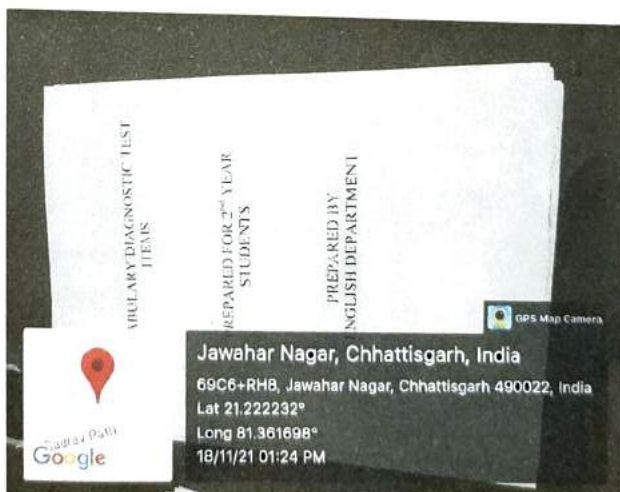

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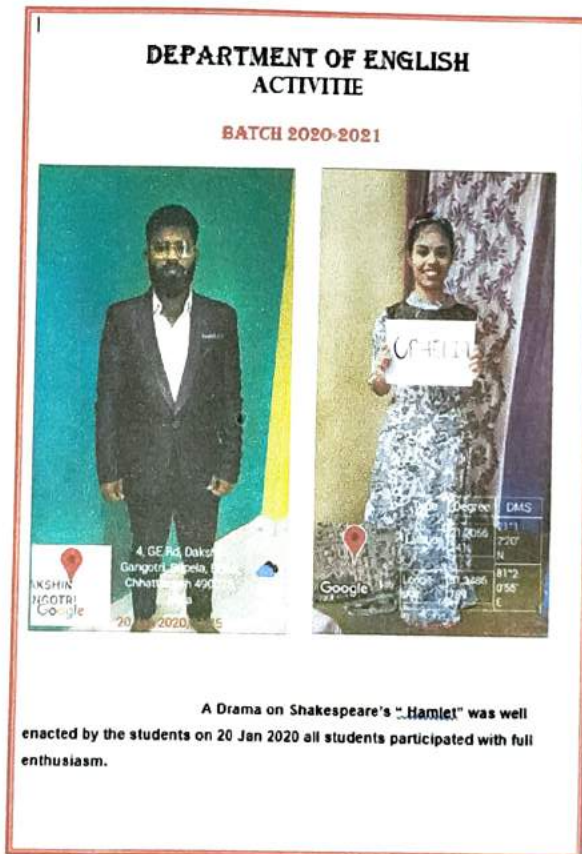

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Vaishali Nagar, Bhitai

4. **Students seminar / presentation** : students are asked to present paper on topic given as a part of student seminar in the class get maximum participation.




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Principal
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SEPTEMBER 2018

03
Monday

Write an application to the Principal of your college for granting leave.

Room no. - C,
A-2nd Hostel,
Bemetem,
P.G.
Date: -

To,
The Principal
Indira Gandhi Govt College,
Vaishali Nagar,
Bhilai (C.G.)

Subject: Regarding grant of leave

Respected mam,

I am a student of B.Com I of your college. I have to go to Indore, to my parents as they are ill.
So please grant me leave for 15 days, as I won't be able to attend my classes.
Hoping for your kind consideration.

Thanking you.
xyz.

SEPTEMBER 2018	OCTOBER 2018
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01
Sunday

Letter writing 1st year

Write an application to the Registrar of your university asking him for an early declaration of result.

Room no - C,
A-2nd Hostel,
Bemetem,
P.G.
Date: -

To,
The Registrar
Hemchandra Yashwanth University,
Durg, (C.G.)

Subject: Regarding early declaration of result

Respected Sir,

I am (Name) a student of (College name) of your university. I appeared an B.Com (H) examination this year.
This is my request to you that please declare the result of B.Com final year at the earliest, so that I can take admission for post graduation course, in Delhi.
Hoping for your kind consideration.

Thanking you.
xyz.

AUGUST 2018	SEPTEMBER 2018
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4. **Links are provided:** students of PG classes are provided with link for extended knowledge on specific topics, that they find difficult and need more clarification.

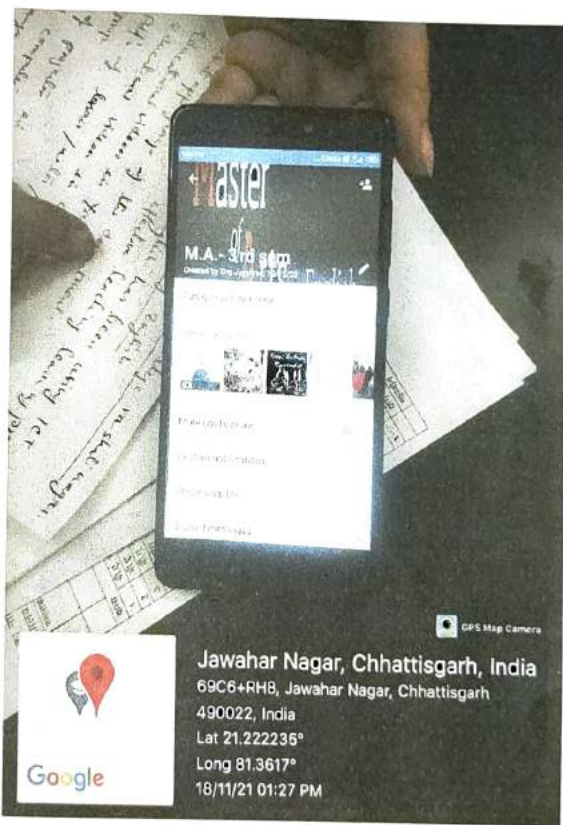


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2.3.1

Department of Physics 2020-21

Programme – Workshop

Participation – Student of B.Sc. Part 3 (35) & B.Sc. Part 2 (30) ,
B.Sc. Part (30)

A. Experiential Learning:-

- 1 **Workshop By The Students:-** Students of B.Sc. Part 3rd prepared low cost Instrument and also Organized the workshop for their juniors in session 2020-21.



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Vaishali Nagar, Bilal

- 2 The students is divided in groups for laboratory work. So they do the work with the help of teachers and they do interaction by themselves



B. Participative Learning :-

1. Group Discussion:-

- 1.1 Topic :- Charge, Electric field and electric force
Participation :- 10 students of B.Sc. I
Year:- 2020-21
- 1.2 Topic :- Maxwell Equation
Participation :- 12 students of B.Sc. II
Year:- 2020-21
- 1.3 Topic :- Quantum Mechanics and Nature
Participation :- 15 students of B.Sc. III
Year:- 2020-21


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Vaishali Nagar, Bhilai

2. Quiz :-

2.1 Topic:- Electrostatics

Participants:- 50 Students of B.Sc. Part I

2.2 Topic:- Maxwell Equations

Participants:- 50 Students of B.Sc. Part II

2.3 Topic:- Quantum Mechanics and Nature

Participants:- 50 Students of B.Sc. Part III

3. Seminar:-

3.1 Topic:- Electrostatics

Participants:- 20 Students of B.Sc. Part I

3.2 Topic:- Maxwell Equations

Participants:- 30 Students of B.Sc. Part II

3.3 Topic:- Quantum Mechanics and Nature

Participants:- 35 Students of B.Sc. Part III

4. Problem Solving Methodology :-

4.1 Given Project to Students for developing their thinking and interactive skill

Project Completed

S.No.	Name	Class	Project
1	Aakash chandrakar	B.Sc. 1 st	Automatic street light
2	Akanksha & ajay	B.Sc. 1 st	Mutual induction
3	Bharti & renu janghel	B.Sc. 1 st	Automatic street light
4	Bharti kurre & rani kumari	B.Sc. 1 st	Wireless power transfer system
5	Bharti Sinha & G. Pawani	B.Sc. 1 st	Water over flow alarm
6	Bushra khatoon	B.Sc. 1 st	Electric Lift
7	Ch jyoti & kajal Singh	B.Sc. 1 st	Free energy generator
8	Chintu gupta & Harish sahu	B.Sc. 1 st	DC TO AC CONVERTER (INVESTOR)
9	Guljhan Ansari	B.Sc. 1 st	Optical box
10	Harsh Lahare & Dhaneshwar Verma	B.Sc. 1 st	Smoke Absorber Machine


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Vaishali Nagar, Bhatkal

Report:-

1. Form these above activity students becomes more interested in the subject.
2. They were very much enthusiastic to take part in the discussion.
3. They started to search the topic from the internet.
4. In quiz out of 50 students. 10 students have very good marks so the department have given them seminar & problem solving assignment (project work) and also directed them to solve more numerical problem.


Indira Gandhi Univ. P. S. Gwalior
Vasth, Jhansi, Etah

2020 - 2021

HOME SCIENCE DEPARTMENT

- Experimental
- Participation
- Problem Solving

INDIRA GANDHI GOVERNMENT P.G. COLLEGE, VAISHALI NAGAR
DEPARTMENT OF HOME SCIENCE

Title of the Programme: - Visit to Art & Craft Exhibition

Date: 12th November, 2021

Number of Participant: 12

REPORT

On 12th November, 2021, an educational trip was organized by Home Science Department. The students were taken to Rashtriya Art & Craft Exhibition, Civic center, Bhilai. The exhibition was divided into arts and crafts from different states across India, for example Kashmir, West Bengal, Chhattisgarh etc. The students got a glimpse of different traditions, and cultures which were displayed through clothing, accessories, Foods and other crafts.



Cholwan

Cholwan

Cholwan
INDIRA GANDHI GOVT P.G. COLLEGE
VAISHALI NAGAR, BHILAI

INDIRA GANDHI GOVERNMENT P.G. COLLEGE, VAISHALI NAGAR

DEPARTMENT OF HOME SCIENCE

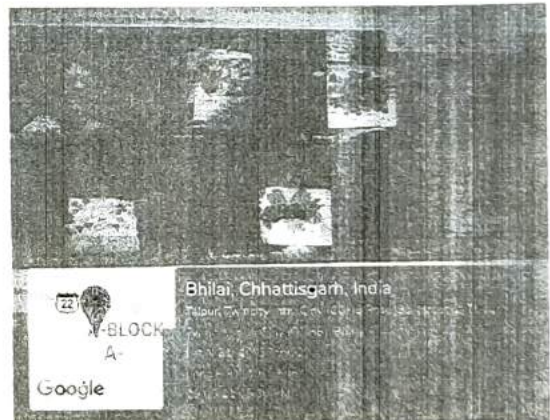
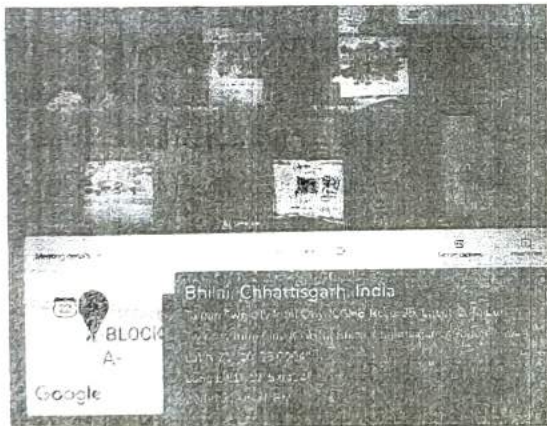
**Title of the Programme: - Online Covid-19 "Immunity Boosting recipe"
Awareness**

Date: 29th May, 2021

Number of Participant: 36

REPORT

Online programme related to COVID-19 awareness was organized where students of the home science department prepared "Immunity Boosting Recipe" to fight against COVID-19 virus and would enhance the wellness of the health. Golden Milk, Khadha and many more recipes were taught and made by the students. They spread the message that for a good health, good food is also important, which nourishes the body.



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INDIRA GANDHI GOVERNMENT P.G. COLLEGE, VAISHALI NAGAR

DEPARTMENT OF HOME SCIENCE

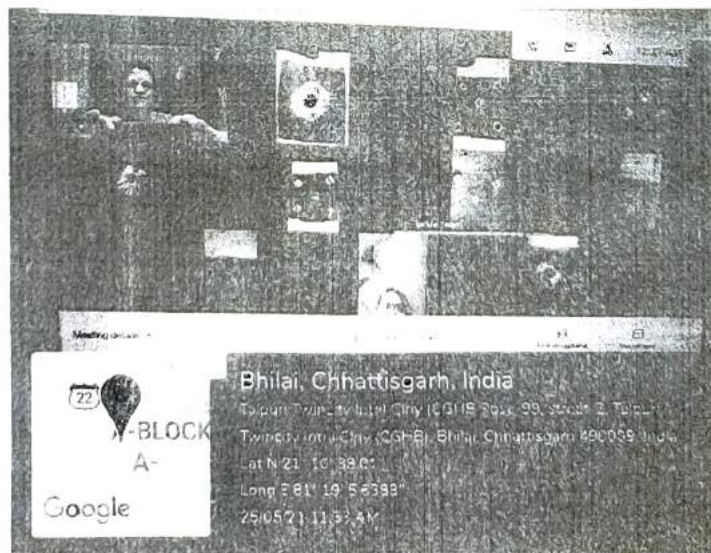
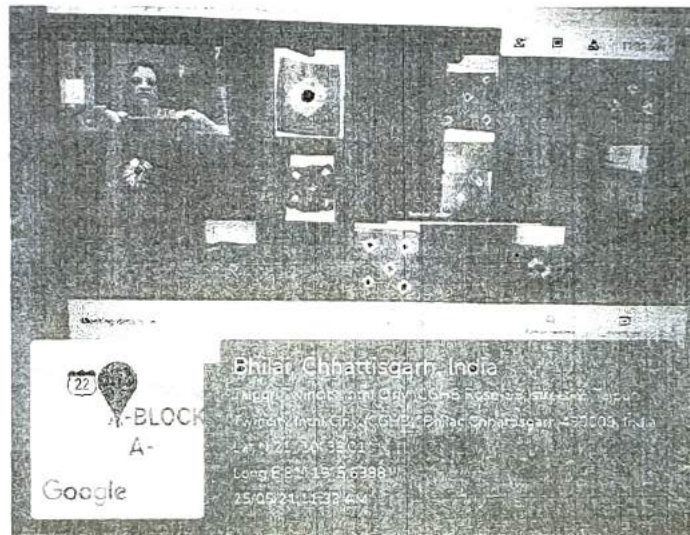
Title of the Programme: - Online "Tie and Dye" Training Programme

Date: 25th May, 2021

Number of Participant: 26

REPORT

An online "Tie and Dye" training programme was organized by the students of home science department, where students shared and taught their dying skill to the other students. A great response the students was recognized.



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DEPARTMENT OF HOME SCIENCE

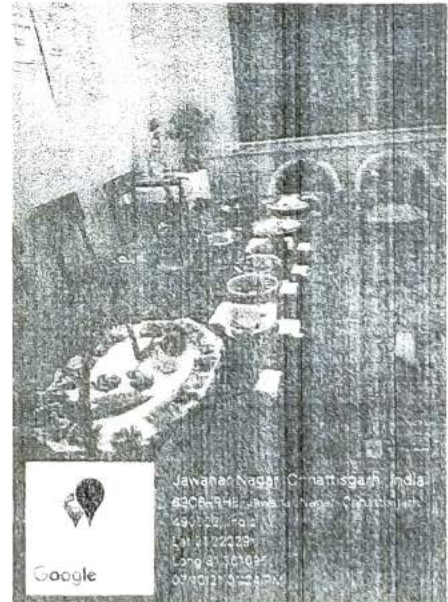
Title of the Programme: - Rashtriya Poshan Maah

Date: 7th October, 2021

Number of Participant: 22

REPORT

Poshan Maah highlights the importance and role of the right nutrition for the human body. A balanced diet with a combination of essential nutrients and calories is essential for smooth working and growth of human body. This year, on 7th October, 2021, Poshan Maah was organized by home science Department, wherein, the students displayed different grains, fruits, & leafy vegetables from Chhattisgarh which help in combating malnutrition. Activities were conducted on nutrition awareness, the inauguration of which was done by Honorable Principal, Dr. Alka Meshram.



Alka Meshram

Principal
INDIRA GANDHI GOVERNMENT P.G. COLLEGE
VAISHALI NAGAR, CHHATTISGARH

प्रति,

प्राचार्य

डॉ. गांधी स्नातकोत्तर महाविद्यालय
वैशाली नगर बिल्डिंग ई. ग.

विषय: - ग्रहविज्ञान संकाय में 7 अक्टूबर 2021 को
राष्ट्रीय पोषण माह मनाते हेतु अनुमति
व्यवहृत।

महोदय,

ग्रहविज्ञान संकाय द्वारा 7 अक्टूबर 2021
को राष्ट्रीय पोषण माह के रूप में छत्तीसगढ़
में पाये जाने वाले अनाज, विभिन्न प्रकार के
भाजीयों, फलों उनके व्यंजन तथा पाये जाने
वाले पोषक तत्वों के बारे में जानकारी के
लिये प्रदर्शनी लगायी जायेगी कृपया
अनुमति प्रदान करें।

अभ्यवहृत।

दिनांक 4.10.21 Permitted

अभ्यवहृत: [Signature]

डा. आरती दीवान
ग्रहविज्ञान विभाग

प्रति,

प्राचार्या

इ. गांधी स्नातकोत्तर महाविद्यालय
कैशाली नगर भिलरि

विषय- गृहविज्ञान की छात्राएँ आर्ट एवं क्रफ्ट मेल
में शैक्षणिक भ्रमण हेतु जाने की
अनुमति वांछित।

महोदय,

गृहविज्ञान संकाय के जी.एस.सी. भाग 3

के आर्ट एवं डिजाइन के प्रायोगिक कार्य में
"Visit to Art and Craft Exhibition" शामिल है


अतः 12 नवंबर को उन्हें यहां जाने की
अनुमति प्रदान करें।

धन्यवाद!

दिनांक

11.11.2021

Permitted


भवदीय 
11.11.21

डा. उषारती यादव
विभागाध्यक्ष
गृहविज्ञान विभाग



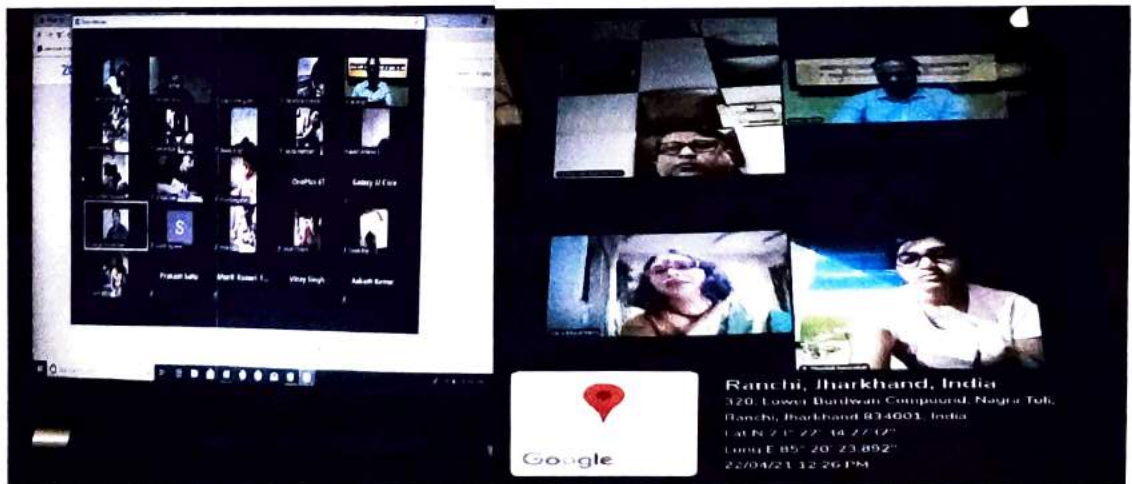
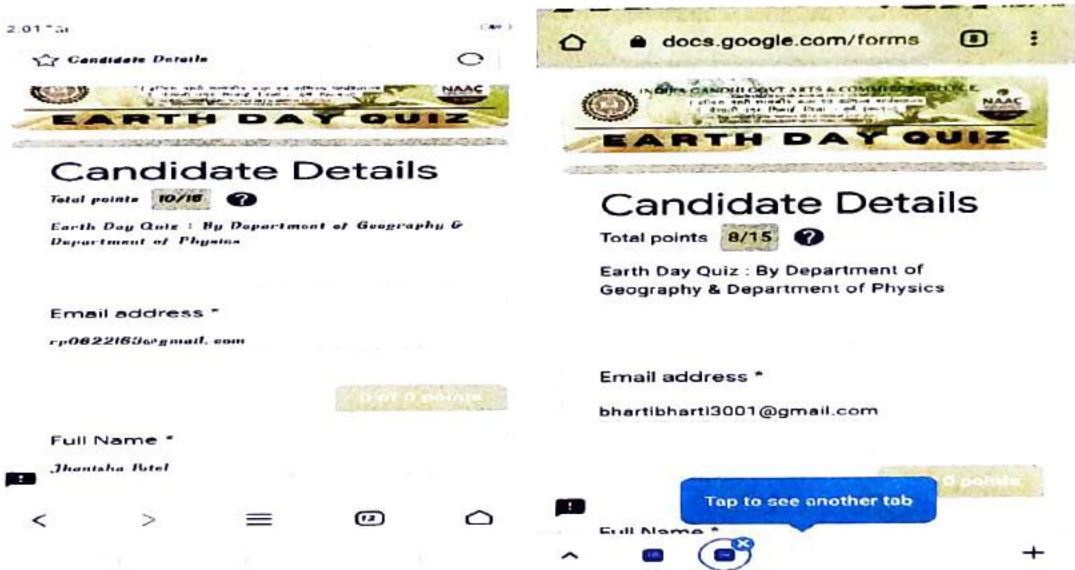
EARTH DAY Quiz Programme

Session : 2020-21

Dept of Geography: 22/04/2021

No of Participants: 21

On the occasion of Earth Day on dated the department of Geography Organized On line Quiz Programme out of 71 participants 21 participated of geography UG classes participated in this Quiz programme related to earth day question, comprising of 15 marks. Photographs are as follows:



[Signature]
Principal
Indira Gandhi Govt. P.G. College
Vaishali Nagar, Bhilai



EARTH DAY CELEBRATION DETAILS

Time: Apr 22, 2021 12:50 PM Mumbai, Kolkata, New Delhi

Join Zoom Meeting

<https://us05web.zoom.us/j/87833931173?pwd=V284NkJNWHR6QkZhaVJCdmg2YkVjUT09>

Meeting ID: 878 3393 1173

Passcode: WLZ9Pe


H.O.M
Dept. of Geography
Dr S k Das


Principal
Indira Gandhi Govt. P.G. College
Vaishali Nagar, Bilai
Principal
Dr (Smt.) Alka Meshram



Department of Mathematics

2.3.1


STUDENTS CENTRIC Methods used by the department:-

A. Experiential Learning:-

The department used following experimental learning methods so that students can use mathematics in real-life problem:-

- Making the students solve Mathematical Problem by themselves in black board and the faculty with only guide the students, with necessary information.
- **Mathematical Activity:-** The department this out various mathematical activities, so that they can have their concept clear. Faculty uses example from actual concept gradually they are:-
 - Making of various graphs.
 - Making planes college based on mathematics i.e. students score in examination.
- **Teaching Aids:-** Students are asked to prepare chart of related to mathematics formulas, theorem, concepts, which give them more deeper knowledge and makes the concepts clear calculation of mean/ medium/ average of various scores of players/ rise of economy.


(Dr. S.K. Bohra)



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Vaishali Nagar, Bhilai



Department of Mathematics

B. Participative learning methods:-

- The department of mathematics ensure participation from each and every students by following ways.
- **Surprise test is organized** to make the students more attentive and participative.
- **Presentation by students** are organized to ensure participative learning methods.
- **Summary classes:-** Before the class everyday or before a new topic is taught, students are asked to summarize the matter taught the previous day. Which ensures more participative from students.


(Dr. S.K. Bohre)


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Vaishali Nagar, Bhilai



Indira Gandhi Govt. PG College, Vaishali Nagar

Bhilai (C.G.)





Department of Mathematics

C. Problem solving methodologies of Mathematics department:-

The department of mathematics with the proverb that-
“Math Teacher us that there is every Reason to Believe that every problem has a solution.”

- **Personal Attention** is given to each students regarding their queries/ problem regarding subject.
- **Regular home assignment:-** This is an important step, as when students do assignment themselves they under go various problem and them they can know their drawbacks and come up with their problem in the class, which is resolved by the faculty.
- **Checking of notes/ problem:-** done is the class, so that the problem of the students can be checked the very day.


(Dr. S.K. Bhatnagar)

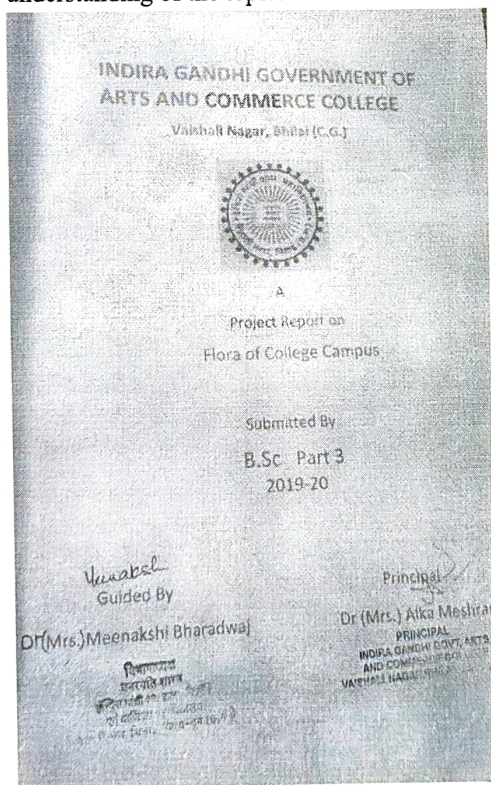

Indira Gandhi Govt. P.G. College
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Indira Gandhi Government PG College, Vaishali Nagar, Bhilai
Department of Botany 2020-2021
Student centric programs

Experiential learning outcome

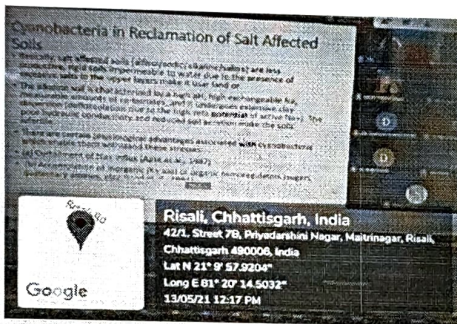
Experiential learning is the process of learning by doing. It helps the students to learn actively and improves content retention.

- i) 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.
- ii) 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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- iii) Guest lecture on 'Cyanobacteria' was organized on virtual platform where resource person Dr. A K Shrivastava, Assistant Professor, Government DT College, Utai gave a lecture on 'Role of Cyanobacteria in sustainable development'.



- iv) Webinar on Right to Information was organized by the department along with the Physics department to acquaint the students with the right and also how they can avail the benefits of this right. The resource person was Dr. Ajay Kumar Bhardwaj, Professor, Department of Botany, Institute of excellence in Higher Education, Bhopal, M P

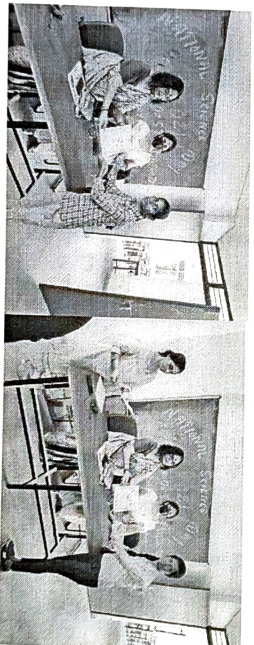



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Participative learning

- i) To inculcate a practice of participation in the transaction of curriculum, various programs as quiz, poster competition, and model competitions are organized by the department. Due to lockdown imposed due to COVID-19 pandemic, Science quiz was organized on National Science Day in virtual mode in google form, the winners of the quiz are as follows

Prize	Name of the student	Class
First	Baby Rai	B.Sc. Part I
	Fiza Qureishi	B.Sc. Part I
Second	Meenal Lac	B.Sc. Part II
	Aafreen Hussain	B.Sc. Part I
Third	Bhumnika Jain	B.Sc. Part III
	Shrishi Mishra	B.Sc. Part III
	Shweta Maurya	B.Sc. Part III
	Durga Nishad	B.Sc. Part III
	Payal Dewangan	M.Sc. I Sem, Chemistry



- ii) Project exhibition Competition was also organized on National Science day. The winners were as follows

Prize	Name of the student	Class
First	Khushboo Sahu	B.Sc. Part I
	Aafreen Hussain	B.Sc. Part I
	Kamini Sinha	B.Sc. Part II
	Mamta Nishad	B.Sc. Part II
	Nandia Ratre	B.Sc. Part II
Second	Sonam Soni	B.Sc. Part II
	Tannu Kumari	B.Sc. Part III

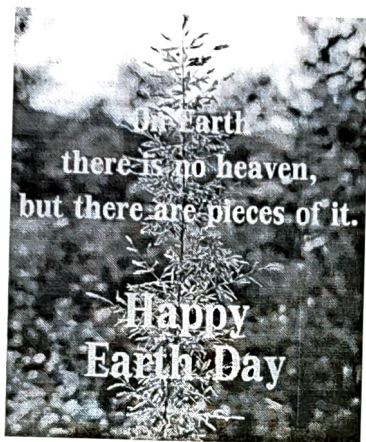
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	Amrita Sinha	B.Sc. Part III
	Arti Soni	B.Sc. Part III
	Vibha Sen	B.Sc. Part III
	Nazma Siddiqui	B.Sc. Part III
Third	Neha Sahu	B.Sc. Part I
	Triveni Sahu	B.Sc. Part I
	Bhawana Sahu	B. Sc. Part II
	Nikita	B. Sc. Part II
	Jyoti Verma	B.Sc. Part II
	Rashmi Dewangan	B.Sc. Part II
	Namrata Yadav	B.Sc. Part II
	Himanshu Kurwe	B.Sc. Part II
	Damini Purane	B.Sc. Part III
	Saraswati Dewangan	B.Sc. Part III
	Seema Nishad	B.Sc. Part III
	Kajal Dewangan	B.Sc. Part III
	Jyoti Verma	B.Sc. Part III
	Jyoti Yadav	B.Sc. Part III
	Damini Markandey	B.Sc. Part III
	Durga Nishad	B.Sc. Part III
	Sonali Lahre	B.Sc. Part III
	Monika	B.Sc. Part III

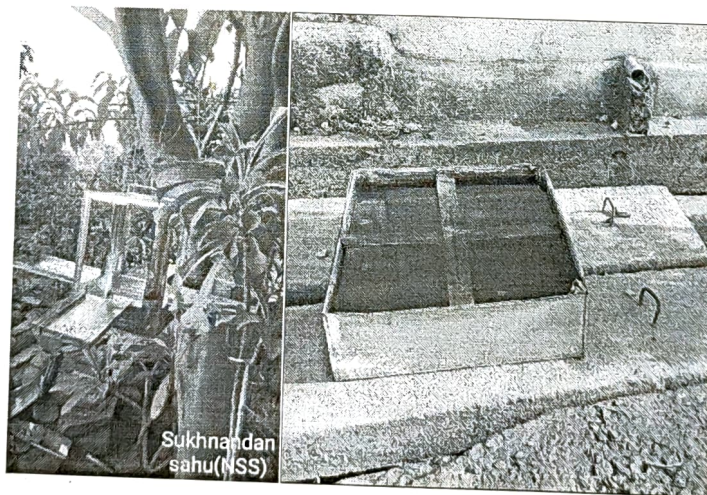


- iii) An e-poster competition was organized on World Earth day, where the students prepared e-posters on the theme- 'Beauty of Nature: Through my Camera' and mailed them. The prize winners were as follows

Prize	Name of the student	Class
First	Aafreen Hussain	B.Sc. Part I
	U.Ravi	B.Sc. Part III
Second	Kritesh Sahu	M. A. Economics IV Sem.



- iv) Students also prepared water holes and bird shelters from waste boxes and cans for stray animals and placed them near their houses for the animals.

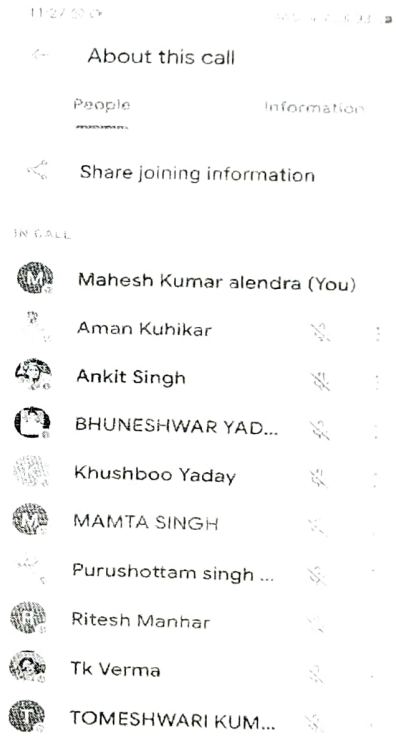
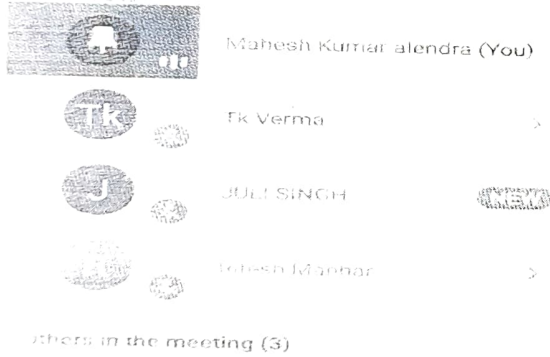



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Experiential Learning and Problem solving Methodologies

बी.ए. सस्कृत प्रथम वर्ष के छात्र-छात्राओं को अध्ययन के दौरान सुकनासोपदेश इकाई में प्रश्नोत्तर व वैदिक साहित्य के अंतर्गत वेदांग, उपनिषद एवं बी. ए. II & III के छात्र/छात्राओं को व्याकरण संबंधित वाच्य, कृतंत, समास समस्या इत्यादि वर्ण्य विषय का समाधान PDF एवं ऑनलाइन क्लास के माध्यम से किया गया।




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वेदाङ्ग

वेदों के सहायक शिक्षा, कल्प, व्याकरण, निरुक्त, छन्दसु और ज्योतिष इन छः शास्त्रों को वेदाङ्ग कहा गया है। जिस प्रकार अङ्गविहीन शरीर असम्भव है, उसी प्रकार इन छः अङ्गों के अध्ययन के अभाव में वेदाध्ययन असम्भव है। वेदों के शुद्धपाठ, अर्थज्ञान, यज्ञों में मन्त्रों की उपयोगिता, यज्ञ के लिए उचित समय का ज्ञान तथा वेदि-निर्माण की सही प्रक्रिया का ज्ञान वेदाङ्गों के अभाव में सम्भव नहीं है। पाणिनि-शिक्षा में कहा गया है कि 'ज्योतिष्' वेदों के लिए आँख है, निरुक्त कान है, शिक्षा घ्राण है, व्याकरण मुख है, कल्प हाथ है, तथा छन्द पाँव है—

छन्दः पादौ तु वेदस्य हस्तौ कल्पोऽथ पठ्यते ।
ज्योतिषामयनं चक्षुर्निरुक्तं श्रोत्रमुच्यते ॥
शिक्षा घ्राणं तु वेदस्य मुखं व्याकरणं स्मृतम् ।
तस्मात्साङ्गमधीत्यैव ब्रह्मलोके महीयते ॥

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इस प्रकार जैसे आँख, कान, नाक, मुख, हाथ तथा पाँव से शरीर में पूर्णता रहती है, उसी प्रकार इन षड्वेदाङ्गों के अध्ययन से वेदाध्ययन में परिपूर्णता आती है। अब क्रमशः वेदाङ्गों का संक्षिप्त परिचय प्रस्तुत किया जा रहा है—

शिक्षा— षड्वेदाङ्गों में शिक्षा का स्थान अत्यन्त महत्त्वपूर्ण है। यह प्रथम वेदाङ्ग है। इसको वेदों की 'नासिका' कहा गया है— 'शिक्षा घ्राणं तु वेदस्य'। यह शुद्ध उच्चारण का शास्त्र है— स्वरवर्णोच्चारणप्रकारो यत्र शिक्षयते उपदिश्यते सा शिक्षा। जिस शास्त्र में मन्त्रों के स्वर एवं व्यञ्जनों के शुद्ध उच्चारण को जाना जाता है। वह 'शिक्षा' कहलाता है। स्वर तथा व्यञ्जनों का ठीक-ठीक उच्चारण ही मन्त्रों के वास्तविक अर्थ का अवबोधन कराता है।

यह शास्त्र यद्यपि अत्यन्त प्राचीन है; परन्तु इस पर लिखे ग्रन्थों की संख्या अत्यल्प है। एक अनुश्रुति के अनुसार 'जैगीषव्य' के शिष्य 'बाभ्रव्य' इस शास्त्र के प्रवर्तक हैं। ऋग्वेद के क्रमपाठ की व्यवस्था भी इन्होंने ही की थी। 'महाभारत-शान्तिपर्व' के अनुसार आचार्य 'गालव' ने एक शिक्षाशास्त्रीय ग्रन्थ का निर्माण किया था। अष्टाध्यायी में भी इसका उल्लेख पाया जाता है। 'भण्डारकर रिसर्च इंस्टीट्यूट, पूना' से 'भारद्वाज-शिक्षा' का प्रकाशन हुआ है; जिसके रचयिता 'भरद्वाजमुनि' माने जाते हैं। वेदों के शाखा भेद के कारण शिक्षाएँ भी विविध प्रकार के उच्चारण विधानों को प्रस्तुत करती हैं। पाणिनि ने भी एक शिक्षा-ग्रन्थ का प्रणयन किया था, जो पाणिनि-शिक्षा के नाम से प्राप्त होता है। वाराणसी से 'शिक्षा-संग्रह' नामक एक ग्रन्थ प्रकाशित हुआ है, जिसमें अनेक शिक्षाएँ

के व्याख्याकारों के रूप में उल्लिखित किया है।

निरुक्त के प्रसिद्ध भाष्यकार के रूप में 'दुर्गाचार्य' का नाम विख्यात है। स्वयं यास्क ने अपने से पूर्ववर्ती अनेक निरुक्तकारों की सत्ता स्वीकार की है। कतिपय विद्वानों के अनुसार यास्क चौदहवें निरुक्तकार हैं। यास्क के अनुसार अन्य निरुक्तकारों के नाम इस प्रकार हैं— अग्रायण, औपमन्यव, औदुम्बरायण, और्णनाभ, कात्थक्य, क्रौष्टुकि, गार्ग्य, गालव, तैटीकि, वार्ष्पायणि, शाकपूणि तथा स्थौलाष्ठीवि।

निरुक्त में कठिन वैदिक शब्दों की व्युत्पत्ति दी गयी है तथा यह बतलाया गया है कि कौन सा शब्द किसी विशिष्ट अर्थ में क्यों रूढ़ हो गया है। निरुक्त का विषय है— वर्णागम, वर्णविपर्यय, वर्णविकार, वर्णनाश तथा धातु का उसके अर्थातिशय के साथ योग—

वर्णागमो वर्णविपर्ययश्च द्वौ चापरौ वर्णविकारनाशौ।

धातोस्तदार्थातिशयेन योगो तदुच्यते पञ्चविधं निरुक्तम्।।

निरुक्तकार सभी शब्दों को धातुज अर्थात् धातु और प्रत्ययों के योग से उत्पन्न मानते हैं।

वैदिक देवताओं के विषय में भी निरुक्त में विवरण प्राप्त होते हैं। यास्क के अनुसार देवताओं के तीन वर्ग हैं— पृथिवी स्थानीय देवता, अन्तरिक्ष स्थानीय देवता तथा द्युलोक स्थानीय देवता।

छन्द— 'पाणिनि शिक्षा' में छन्द को वेद का 'पाद' बतलाया गया है— 'छन्दः पादौ तु वेदस्य'। जिस प्रकार पैरों के बिना किसी जीवधारी की गमन क्रिया असम्भव है, उसी प्रकार वेदमन्त्रों का पाठ छन्दोज्ञान के अभाव में नहीं हो सकता। जहाँ भी पद्यात्मकता होगी वहाँ छन्दात्मकता भी अवश्य होनी चाहिए। सर्वानुक्रमणी नामक ग्रन्थ में कात्यायन ने स्पष्ट कहा है— **यदक्षरपरिमाणं तच्छन्दः** अर्थात् छन्द से यह ज्ञान होता है कि मन्त्र का पाठ कितने अक्षरपरिमाण में किया जाना चाहिए। सम्पूर्ण ऋग्वेद, सामवेद तथा अथर्ववेद पद्यमय हैं। इनके पाठ की व्यवस्था छन्द पर आधारित है। सम्भवतः इसीलिए 'छन्दस्' शब्द वेद का पर्याय बन गया है।

'छन्द' का मुख्य प्रयोजन है— 'भाषा का लालित्य'। गद्य को सुनने से मन को वह तृप्ति नहीं मिलती, जो पद्य को सुनने से प्राप्त होती है। पद्यों में शीघ्र स्मरण होने का गुण भी रहता है। वेदाध्ययन में छन्दों का अत्यधिक महत्त्व है। छन्दों के ज्ञानाभाव में वेदाध्ययन पाप माना जाता है।

कात्यायन की 'सर्वानुक्रमणिका' में सात छन्दों का उल्लेख हुआ है। गायत्री,

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Experiential learning-20-21 zoology

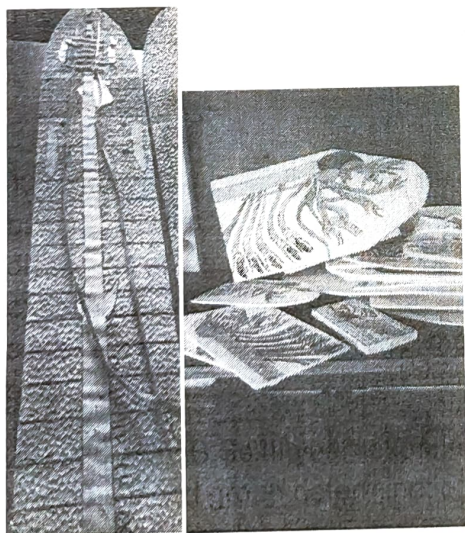
Experiential learning is the process of learning through experience, and is more narrowly defined as "learning through reflection on doing"

The practical syllabus for Zoology B.Sc I,II, and III yr is decided and given by the university, which is followed in the department. The hands on experiences are

1. Dissections-Alternative methods of dissections are used, as animal dissections are banned by UGC and students of B.Sc.I and II yr themselves make models for dissection in the workshop in zoology lab, which they study and are used for examination also. This year students have made the dissectible model of earthworm, scoliodon and internal ear. The models are made for per student in B.SC I yr, of earthworm.

2. Students of B.Sc.III year experiment about Hematology. Many experiments related to blood as blood group determination, RBC and WBC count, Hemoglobin percentage were done in the lab. For Extraction of blood a trained nurse is called and she does the incision and blood collection for the students.

3. Experiments related to environment are also performed in the department.



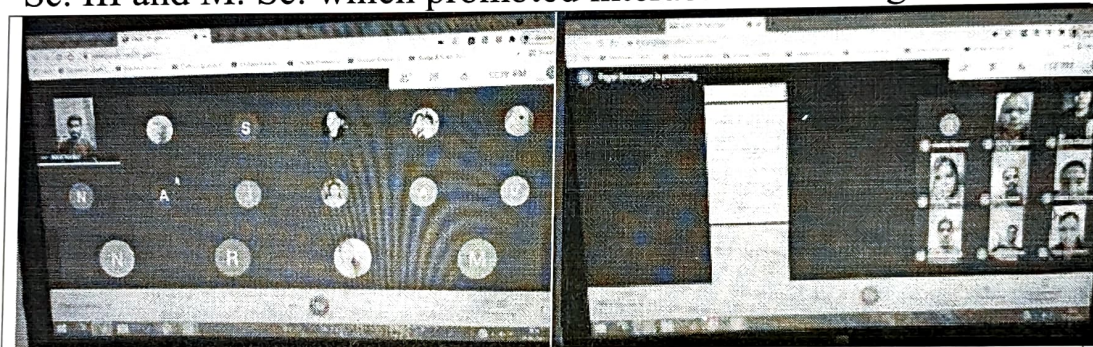
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2.3 Student centric methods such as experiential learning, participative learning and problem-solving methodologies are used to enhance learning.

2.3.1 Experiential Learning

The following activities are conducted by the department of Chemistry to promote experiential learning:

- **Laboratory Experiments:** Students perform practical in the lab as per their syllabus which helps them to understand qualitative and quantitative concepts of Chemistry.
- Online student seminars were organized for the students of B. Sc. III and M. Sc. which promoted interactive learning.



- A national webinar on Green Energy and Sustainable Development was organized by IQAC and the faculty of science from May 10th to May 15th 2021. Subject experts were invited to deliver informative lectures. Dr. Ajaya Kumar Singh Professor Deptt. of Chemistry Govt. V.Y.T Autonomous PG College, Durg delivered an enlightening lecture on Oxidation Process for the waste water treatment. Students of B. Sc III and M. Sc actively participated in the webinar and were encouraged to protect our planet Earth from various pollutants.

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- Starting from session 2018-19 till 2020-21a project had been undertaken by the Department of Chemistry under the title “Synthesis of cleaning agents and disinfectants for the use of Institution” as Cleaning and sanitization is an integral part of maintenance and Large quantities of cleaning and disinfection agents and required in daily basis. The students of post-graduation had been involved in the project to enhance their practical and applied skills. A one day workshop based on preparation methods of cleaning and disinfection agents also was also organized where post-graduation students demonstrated the preparation methods to under-graduation students.

Year-wise plan of work and targets achieved

Year	2018-2019	2019-2020	2020-2021
Plan of Work	1.Review of literature to explore suitable methods for the preparation of cleaning and disinfection	1. Preparation and storage of bathroom cleaners in required quantity 2. Preparation and storage of	Dilution of stored quantities of cleaning and disinfection agents for the use during current academic session

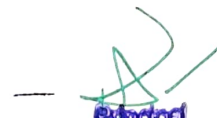
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	agents 2. Trials for the preparation methods in test quantities	disinfection agents in required quantities	
Target	Identification of feasible methods for Institutional use	To make available the quantities of cleaning and disinfection agents required for college use	To make available the quantities of cleaning and disinfection agents required for college use

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Department of Computer Science

Experiential learning:

It is an engaged learning process whereby students “learn by doing” and by reflecting on the experience. Regarding experiential learning activities our department include hands-on lab experiments, seminar, exercises (Reference to Computer Hardware).

Our department is trying to adopt Learning methods for our students that are considered “experiential” contain all the following elements:

1. Suggestion, analysis and creation.
2. Opportunities for students to take initiative and make decisions.
3. A designed learning experience that includes the possibility to learn from mistakes, and successes.

By adopting above element our department have set following Teaching Learning Methods:

1. Implement mathematical formula in C program by students.
2. Various software installed by our own students itself.
3. Our department gives students one Dummy CPU to make more sense about hardware. They disassemble each part of CPU and accumulate them again.
4. In the lab our students make group and make discussion about under Graduate project steps like Software Engineering scenario.

Head

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VAISHALI NAGAR, BHILAI, DIST- DURG (C. G.)

इंदिरा गांधी शासकीय स्नातकोत्तर महाविद्यालय

वैशाली नगर, भिलाई, जिला :- दुर्ग (छ.ग.)

Registered Under Section 2(F) & 12(B) of UGC Act
AFFILIATED TO HEMUBAND YADAV DURG UNIVERSITY



Student Centric: Experimental and Participative Learning DEPARTMENT OF COMMERCE

Experiential Learning

- ❖ The class and tutorial sessions mainly focus on what the student requires than what the teacher knows.
- ❖ Student's learns from their experiences during the various learning activities assigned to the them like Webinar, Seminar presentation assignments, Project Work, etc.
- ❖ Experts from various fields and academia share their experience with students which inspire for the real time job scenario.

Problem Based Learning

- ❖ Problem based learning is a regular practice adopted by the Commerce Department.
- ❖ Students are made to think on the basis of their theoretical and practical knowledge to arrive at a probable solution.
- ❖ Practice gives the students the capabilities of Independent thinking and analysis various types of problems in an analytical manner.
- ❖ The college follows the word "PASS" for problem solving method. In the word power, each letter indicates different steps to be followed.
 - P** – Program for
 - A** – Academic
 - S** – Skill and
 - S** – Success

This method is very successful and widely practiced in our department.

Participative Learning

- ❖ Encourage participatory learning, group discussions are conducted during regular teaching hour.
- ❖ Students are encouraged to participate in group efforts and various activities like class activity etc.

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