GURUKUL MAHILA MAHAVIDYALAYA

KALIBADI ROAD, RAIPUR (C.G.)

ANNUAL ACTIVITIES 2024-25

Science Department

S no	Date	Type of Event	Name of Event	Participation
1	21/10/2024 to 23/10/2024	Workshop	Three days Printed Circuit Board Design and Sensor Application	71
2	21/12/2024	Study Tour	Somnath Mahadev Visit Tour	84
3	18/03/2025-19/04/2025	Workshop	Basic Electrical Skill	74
4.	07/04/2025 to 09/04/2025	Workshop	Three days Workshop Gardening and Floriculture	32
5.	07/04/2025 to 08/04/2025	Workshop & Study Tour	One Day Workshop and Study Tour On Vermiculture and Vermicomposting	54
6	March – April 2025	Training	Hands on Training in Green Chemistry	17

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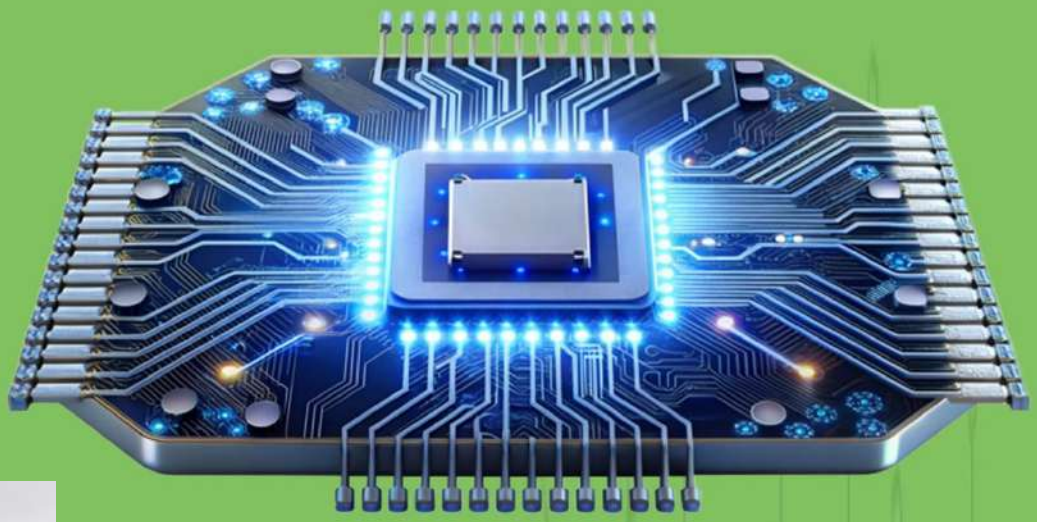
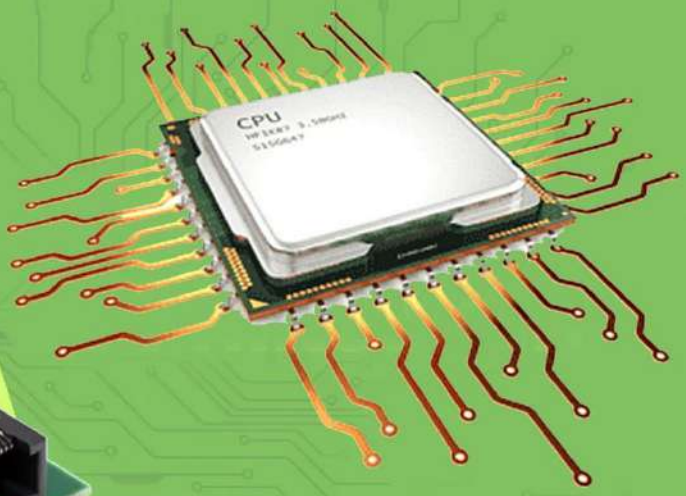
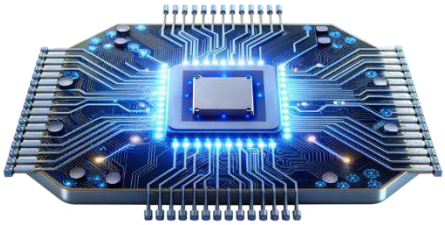
KALIBADI ROAD, RAIPUR (C.G.)

Printed Circuit Board Design and Sensor Application





Session 2024-25



Printed Circuit Board Design and Sensor Application

CONTENTS

PROPOSAL

Application for Conducting a Workshop

To:
The Principal,
Gurukul Mahila Mahavidyalaya,
Raipur, Chhattisgarh.

Date: 28 September 2024

Subject: Application for Conducting a Workshop on "Printed Circuit Board Design and Sensor Applications"

Respected Mam,

I am writing to propose a workshop titled **"Printed Circuit Board (PCB) Design and Sensor Applications"** at **Gurukul Mahila Mahavidyalaya, Raipur (C.G.)**. This workshop is designed to provide students with practical skills in designing and fabricating Printed Circuit Boards (PCBs) while also covering important applications such as Fire Alarms, Rain Detectors, and Overhead Water Tank Level Detectors.

Workshop Objectives:

- To introduce students to the basics of PCB design and its importance in electronics.
- To provide hands-on experience in PCB layout, design, and fabrication using software tools and hardware components.
- To teach students how to implement and integrate basic sensor applications in their projects.
- To encourage innovation and creativity in students through practical application of PCB design techniques and sensor functionalities.

Target Audience:

- Undergraduate students (BSc, MSc) at Gurukul Mahila Mahavidyalaya.
- Students with an interest in electronics, engineering, and technology.

Workshop Duration:

The proposed duration of the workshop is **three days (3 hours per day)**. The schedule can be adjusted based on the institution's academic calendar.

Day-wise Workshop Outline:

Day 1: *Introduction to PCB Design, Basics of Sensor Technology and Layout*

- **Introduction to PCB Technology:** Overview of Printed Circuit Boards and their importance in modern electronics.
- **Introduction to PCB Design Software:** Demonstration of popular design tools like ***ExpressPCB***.
- **Basics of Sensor Technology:** Overview of sensors and their applications in real-world projects.
- **Software Installation:** Guidance on installing PCB design software (e.g., ExpressPCB) on student laptops.

Day 2: *PCB Fabrication, Elements assembly*

- **Detailed PCB Layout:** Teaching advanced design techniques, including multi-layer designs and proper component placement.
- **PCB Fabrication Process:**
  - Overview of PCB manufacturing and fabrication.
  - Introduction to etching using ferric chloride ($FeCl_3$) solution for PCB development.
- **Etching and Drilling:**
  - Hands-on session on etching the designed PCB using $FeCl_3$.
  - Techniques for drilling holes in the PCB for component placement.
- **Component Assembly:**
  - Guided assembly of components onto the fabricated PCB.
  - Best practices for soldering and ensuring secure connections.

Day 3: *Hardware Testing*

- **Overview of Testing Procedures:**
  - Introduction to the importance of testing in electronics projects.
  - Discuss different testing methods and tools used for electronic circuits.
- **Testing the Student Projects:**
  - Each student will connect their fabricated PCBs to a current supply.
- **Functional Testing:**
  - Students will verify the functionality of their circuits (e.g., fire alarm, rain detector, overhead water tank level detector) by simulating real-world conditions.
  - Encourage students to troubleshoot any issues that arise during testing.
- **Certificate Distribution:** Certificates will be provided through Google Forms to participants upon course completion.

Workshop Fee Structure:

To accommodate different levels of participation, the workshop fees will be divided into three modules:

1. **Module 1:**
    - **Group Size:** 5 students per group
    - **Fee:** ₹100 per student
    - **Details:** The kits used in this module will be returned at the end of the workshop. Students can purchase the kits they made if they wish to keep them.
2. **Module 2:**
    - **Group Size:** 3 students per group
    - **Fee:** ₹200 per student
    - **Details:** The project created by the group can be kept by the students at no additional cost.
3. **Module 3:**
    - **Individual Work:** Each student will work on their own PCB design
    - **Fee:** ₹300 per student
    - **Details:** Each student will keep the project they create, including the entire kit and PCB.

Materials and Resources:

All necessary materials, including PCB design software, electronic components, and testing kits, will be provided for the duration of the course.

Instructors:

The workshop will be conducted by:

- **Mr. Yagyavalkya Dewangan** - Founder of YVY Technologies, specializing in industrial automation and electronics.
- **Mr. Manish Yadav** - An expert in Chemical and Electrical Panel Design (EPD).
- **Mr. Roshan** - Experienced in BMS Solar technology projects.
- **Ms. Varsha Yadav:** Knowledgeable in Electronics Material and Workshop Management.

Proposed Date:

The workshop can be scheduled according to the institution's convenience. Kindly suggest suitable dates as per the college's academic calendar.

After the Workshop:

Students will be allowed to keep their designed PCB projects and will receive a **Certificate of Completion** that will enhance their academic portfolio and professional credentials.

Conclusion:

This **PCB Design and Sensor Applications** will be a valuable addition to your college's educational activities, providing students with practical skills and hands-on experience in electronics. I kindly request your permission to conduct this workshop at your esteemed institution.

Thank you for considering this proposal. I look forward to your positive response.

YVY TECHNOLOGIES
RAIPUR (C.G.)

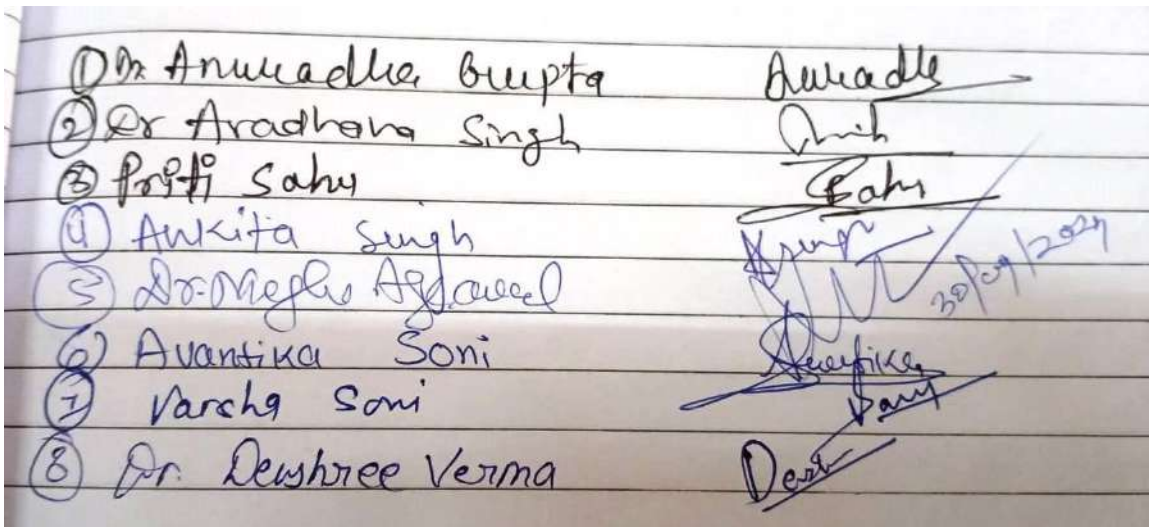
Yours sincerely,
Mr. Yagyavalkya Dewangan
Founder, YVY Technologies
Old Changorabhata, Raipur (C.G.)
Email: yvytechnologies@gmail.com
Contact: 9301111042

Date: 28 September 2024

NOTICE

सूचना

सभी माननीय प्राध्यापकों को सूचित किया जाता है कि साइंस काउंसिल के अंतर्गत पीसीबी वर्कशॉप का आयोजन आगामी 21 22 तथा 23 अक्टूबर को किया जाना तय किया गया है। इस वर्कशॉप में आप सबकी उपस्थिति अपेक्षित है।



ATTENDANCE SHEET

Gurukul Mahila Mahavidyalaya
Kalibadi Road, Raipur (C.G.)

DAY 2 – PCB FABRICATION, ELEMENTS ASSEMBLY
Date: 22/10/2024

ATTENDANCE SHEET

Sl.No.	Name	Class	Signature
1	Bhumika Sahu	B.C.A - III	BS
2	Roshani Sahu	B.C.A – III	Roshni
3	Riya Mishra	B.C.A- III	Riya
4	Payal Gilhare	BCA III	Payal
5	Lukeshwari Bais	BCA II	
6	Disha singh	BCA II	
7	Namrata Manikpuri	BCA II	Namrata
8	Tukeshwari	BCA · I	Revanyan
9	Vinita Rajak	BCA-I	Rajak
10	Aridhi Ramteke	BCA – I	
11	Kavita Sahu	BCA – I	Kavita
12	Garima Sagar	BCA – I	Garima
13	Rinki Rotre	BCA · I	Rinki
14	Naaz Fatima	BCA – I	Naaz fatima
15	Muskan Tilekar	BCA – I	
16	Janvi Sahu	BCA – I	Janvi
17	manisha sahu	B.Sc. – I	
18	Reshma Sahu	BSC (C.S) I	Reshma sahu
19	Suman Sahu	BSC (CS) I	Suman
20	Archana Sahu	Bsc (PCM) I	Archana Sahu
21	Rashmi Nayak	B S C (C.S.) I	Rashmi
22	Shreya Vishwakarma	BSC (C.S) I	Shreya
23	Puja Diwar	BSC (CS) II	Puja
24	Jyoti Tiwari	BSC (CS) III	Jyoti
25	Priyanka Kosaria	BSc (CS) III year	Priyanka
26	Chukanksha Dhruva	BSc [CS] III year	Chukanksha
27	Chitralekha Nayak	BSc [CS] III year	Chitralekha
28	Tejasvi Negi	BSC [CS] III year	Negi

29	Unnati Dhankar	BCA - II	Unnati
30	Chanchal Verma	BSC III	Chanchal
31	Gayatri Dhruw	B S C III	Gayatri
32	Nisita Verma	B.Sc III.	Nisita
33	Poornima Verma	B.Sc III	Poornima Verma.
34	Rakshta Taisum	Bsc III	Rakshta
35	Arpita Verma	B.Sc. III (PCM)	Arpita.
36.	Smriti Verma	B.Sc I (CS)	Smriti
37	Anjali Marko	B.Sc I (CS)	Anjali Marko
38	Jigyasa chobey	B.SC I (C.S)	Jigyasa
39	Pallavi chandrakar	B.Sc. I (C.S)	Pallavi
40	Supriya Kashyap	B.Sc I (C.S.)	Supriya.
41	Mamta Dewangan	BSC I (C.S)	Mamta
42	Isha Verma	B.Sc III (CS)	Isha
43	Himanshi Sahu	B.Sc III (CS)	Himanshi
44	Tejeshweni Sahu	Bsc III (CS)	Tejeshweni
45	M. Kitakawre	B.Sc. I st (PCM)	M. Kitakawre
46	Toishlya Yadu	BSc 1st (CS)	Toishlya
47.	Radharani	BSc IInd (CS)	Radharani Dewangan
48	Saniya Ali	BSc IInd (CS)	Saniya
49	Hanshu Sahu	BSC IInd (CS)	Hanshu
50	Voneshwari Sahu	BSC IInd (CS)	Voneshwari
51	Rucika Sahu	BSC IInd (CS)	Rucika.
52	Dipti Pradhan	BSC IInd (CS)	Dipti
53	Ahu Jiwani	BSC IInd (C.S)	Ahu
54	Durga Sahu	BSC IInd (CS)	Dsahu
55	Muskan Sahu	B.Sc IInd (C.S)	Msah
56	Geetanjali Yadu	B.Sc I (Maths)	Geetanjali
57	Veena Sahu	BSC I (PCM)	Veena Sahu
58.	Madhu nishad	BSC I (PCM)	Nishad
59	Upasana Thakur	BSC I (PCM)	Upasana
60	Ruchita Sahu	B.Sc I (PCM)	Ruchita
61	Sejal Dewangan	B.Sc I (CS)	Sejal
62	Nilima Dewangan	BSC I [C.S.]	Nilima Dewangan
63	Mansi sahu	B.S.C I (C.S)	Mansi
64	Neevani Soni	B.SC I (C.S)	Neevani
65	khushi Sahu	BSC I (C.S)	Khushi Sahu

67	Suman Yadav	BSC I (C.S.)	Suman
68	Nirjala Yadav	BSC I (C.S)	Nirjala
69	Kasuna Saher	BSC I (C.S)	Kasuna
70	Umin Gayakwad	BSC I (C.S)	Umin
71			
72			

ABOUT PROJECT DETAILS

Entrepreneurial Development Programmes

- It may be defined as a programme designed to help an individual in **strengthening his entrepreneurial motive** and in **acquiring skills and capabilities** necessary for playing his entrepreneurial **role effectively**.
- An EDP is primarily concerned with **developing and motivating**

Objectives/Need of EDPs

1. To formulate project.
2. To select project/product.
3. To analyze the environment.
4. To acquire the basic managerial skills.
5. To understand the process and procedure of setting up of enterprise.
6. Enable to communicate clearly and effectively.
7. Develop a broad vision about the business.

Initial or Pre-Training Phase

- This phase includes activities and preparation required to launch the training programme.
- The main activities are:

1. Creation of infrastructure for training.
2. Preparation of training syllabus.
3. Tie-up of guest faculty.
4. Designing tools and techniques for selecting the trainees.
5. Formation of selection committee.

- Content of the Training Programme:

The main training inputs are as follows:

1. Technical knowledge
2. Achievement motivation training

Copper is an excellent electrical conductor

Electrical resistivity is approx 1.6 micro ohm cm

An inexpensive metal

Soft and easily workable

Easily processed and patternable by photolithography, using relatively benign chemicals

Copper can be easily electrodeposited onto a PCB Laminate – problems however!

ADHESION!

The adhesion is far superior from bonding copper foil sheets by the combination of heat, pressure and adhesive.

Common adhesion tests include measurement of **Peel Strength** – 'how easy is it to peel the copper foil off' and **Pull off Strength –** how easy is it to pull up the copper foil from the substrate

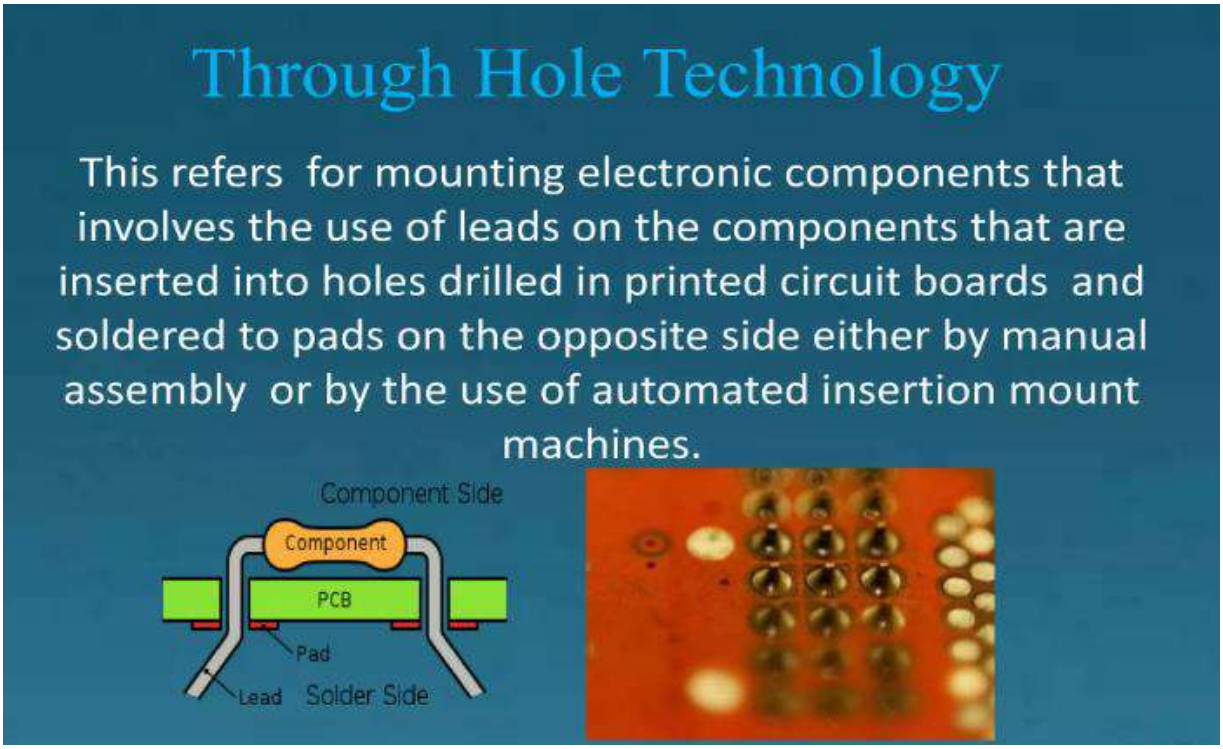
Copper is the dominant metal for interconnection use.

The copper foil is normally specified by weight i.e. one half oz per square ft (152.5 g/m^2), oz per sq ft (305 g/m^2).

These correspond to foil thicknesses of 17.5 and 35 microns respectively.

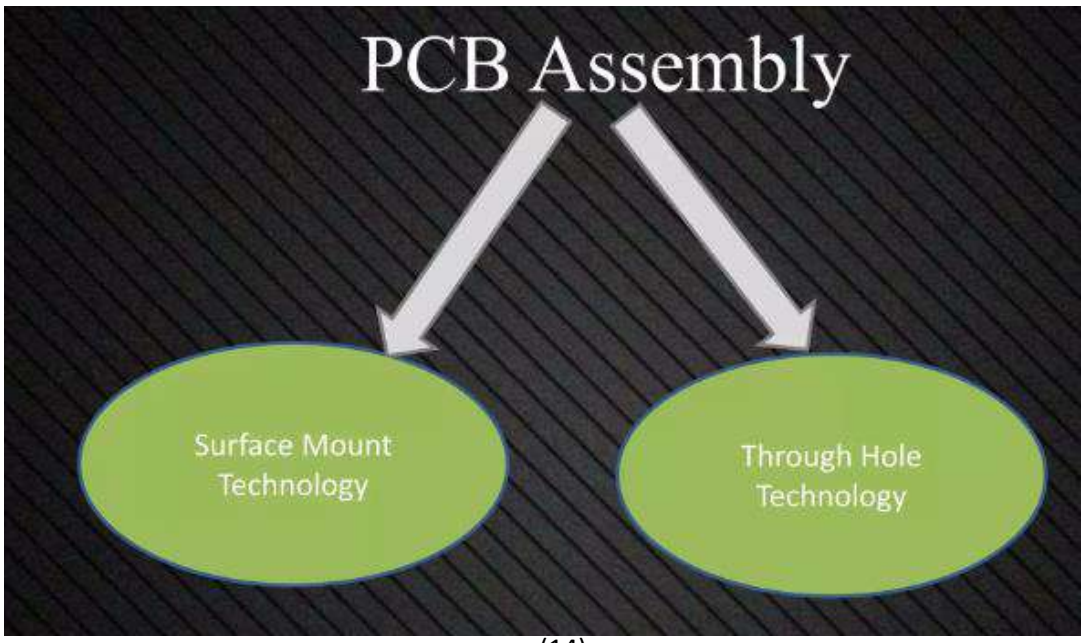
It is usually produced by electrolytic deposition on a flat mandril, and is about 99.8% pure and has a tolerance on thickness of about ± 10%.

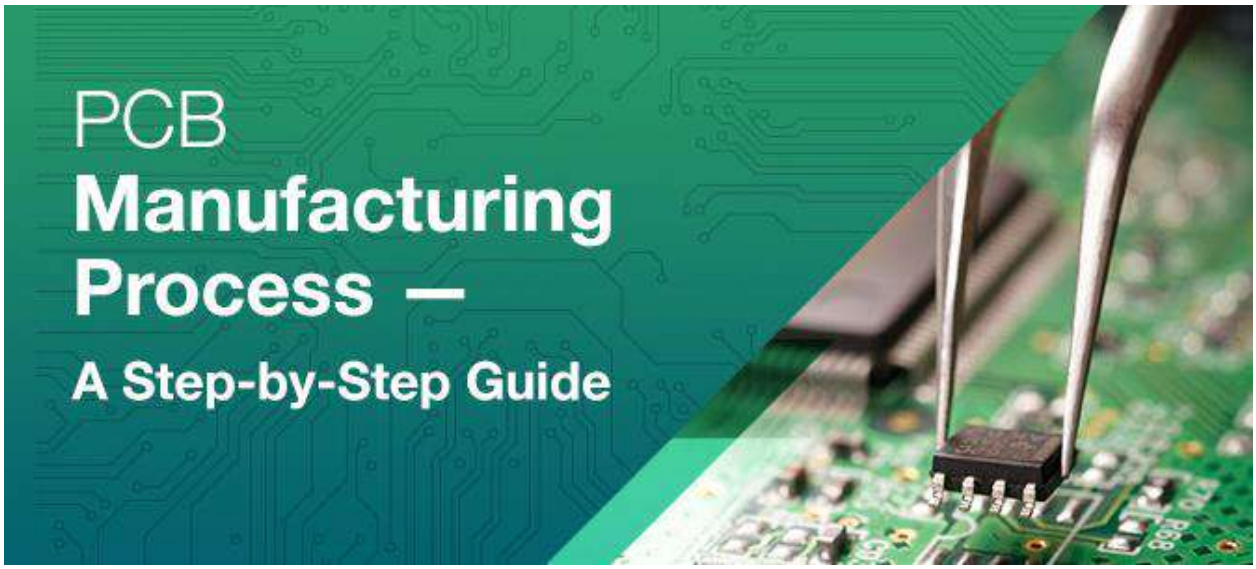
A Printed Circuit Board or PCB is essentially a board that connects electronic components. It is the basic building block of any electronic design and has developed over the years into a very sophisticated component. In 1925, Charles Dukas of the US, created and patented a way of electroplating an electrical path onto an insulated surface. The Printed Circuit Board was born, opening the door to smaller, simpler and less cumbersome designs.



Printed Circuit Boards (PCBs) form the backbone of all major electronics. These miraculous inventions pop up in nearly all computational electronics, including simpler devices like digital clocks, calculators etc. For the uninitiated, a PCB routes electrical signals through electronics, which satisfies the device's electrical and mechanical circuit requirements. In short, PCBs tell the electricity where to go, bringing your electronics to life.

PCBs direct current around their surface through a network of copper pathways. The complex system of copper routes determines the unique role of each piece of PCB circuit board.





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PCBs direct current around their surface through a network of copper pathways. The complex system of copper routes determines the unique role of each piece of PCB circuit board.
Before PCB design, circuit designers are recommended to get a tour of a PC board shop and communicate with fabricators face to face over their PCB manufacturing demands. It helps prevent designers making any unnecessary errors from getting transmitted during the design stage. However, as more companies outsource their PCB manufacturing inquiries to overseas suppliers, this becomes unpractical. On this account, we present this article in order to provide a proper understanding of PCB board manufacturing process steps. Hopefully it gives circuit designers and those new to PCB Industry a clear view on how printed circuit boards are manufactured, and avoid making those unnecessary errors.

PCB Manufacturing Process Steps

Step 1: Design and Output
ircuit boards should be rigorously compatible with, a PCB layout created by the designer using PCB design software. Commonly-used PCB design software includes Altium Designer, OrCAD, Pads, KiCad, Eagle etc. *NOTE: Before PCB fabrication, designers should inform their contract manufacturer about the PCB design software version used to design the circuit since it helps avoid issues caused by discrepancies*
he PCB industry birthed extended Gerber as the perfect output format. Different PCB design software possibly calls for different Gerber file generation steps, they all encode comprehensive vital information including copper tracking layers, drill drawing, apertures, component notations and other options. All aspects of the PCB design undergo checks at this point. The software performs oversight algorithms on the design to ensure that no errors go undetected. Designers also examine the plan with regard to elements relating to track width, board edge spacing, trace and hole spacing and hole size.

After a thorough examination, designers forward PCB file to PC Board Houses for production. To ensure the design fulfills requirements for the minimum tolerances during manufacturing process, almost all PCB Fab Houses run Design for Manufacture (DFM) check before circuit boards fabrication.

Step 2: From File to Film

PCB printing begins after designers output the PCB schematic files and manufacturers conduct a DFM check. Manufacturers use a special printer called a plotter, which makes photo films of the PCBs, to print circuit boards. Manufacturers will use the films to image the PCBs. Although it's a laser printer, it isn't a standard laser jet printer. Plotters use incredibly precise printing technology to provide a highly detailed film of the PCB design.

Step 3: Printing the Inner layers: Where Will the Copper Go?

The creation of films in previous step aims to map out a figure of copper path. Now it's time to print the figure on the film onto a copper foil.

This step in PCB manufacturing prepares to make actual PCB. The basic form of PCB comprises a laminate board whose core material is epoxy resin and glass fiber that are also called substrate material. Laminate serves as an ideal body for receiving the copper that structures the PCB. Substrate material provides a sturdy and dust-resistant starting point for the PCB. Copper is pre-bonded on both sides. The process involves whittling away the copper to reveal the design from the films.

In PCB construction, cleanliness does matter. The copper-sided laminate is cleaned and passed into a decontaminated environment. During this stage, it's vital that no dust particles settle on the laminate. An errant speck of dirt might otherwise cause a circuit to be short or remain open.

Next, the clean panel receives a layer of photo-sensitive film called photo resist. The photo resist comprises a layer of photo reactive chemicals that harden after exposure to ultra violet light. This ensures an exact match from the photo films to the photo resist. The films fit onto pins that hold them in place over the laminate panel.

The film and board line up and receive a blast of UV light. The light passes through the clear parts of the film, hardening the photo resist on the copper underneath. The black ink from the plotter prevents the light from reaching the areas not meant to harden, and they are slated for removal.

After the board becomes prepared, it is washed with an alkaline solution that removes any photo resist left unhardened. A final pressure wash removes anything else left on the surface. The board is then dried.

The product emerges with resist properly covering the copper areas meant to remain in the final form. A technician examines the boards to ensure that no errors occur during this stage. All the resist present at this point denotes the copper that will emerge in the finished PCB.

This step only applies to boards with more than two layers. Simple two-layer boards skip ahead to drilling. Multiple-layer boards require more steps.

Step 4: Removing the Unwanted Copper

With the photo resist removed and the hardened resist covering the copper we wish to keep, the board proceeds to the next stage: unwanted copper removal. Just as the alkaline solution removed the resist, a more powerful chemical preparation eats away the excess copper. The copper solvent solution bath removes all of the exposed copper. Meanwhile, the desired copper remains fully protected beneath the hardened layer of photo resist.

Not all copper boards are created equal. Some heavier boards require larger amounts of copper solvent and varying lengths of exposure. As a side note, heavier copper boards require additional attention for track spacing. Most standard PCBs rely on similar specification.

Now that the solvent removed the unwanted copper, the hardened resist protecting the preferred copper needs washing off. Another solvent accomplishes this task. The board now glistens with only the copper substrate necessary for the PCB.

Step 5: Layer Alignment and Optical Inspection

With all the layers clean and ready, the layers require alignment punches to ensure they all line up. The registration holes align the inner layers to the outer ones. The technician places the layers into a machine called the optical punch, which permits an exact correspondence so the registration holes are accurately punched.

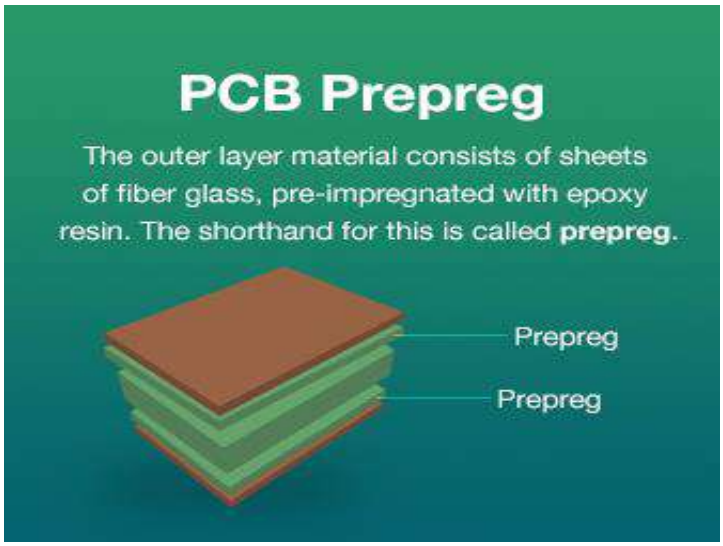
Once the layers are placed together, it's impossible to correct any errors occurring on the inner layers. Another machine performs an automatic optical inspection of the panels to confirm a total absence of defects. The original design from Gerber, which the manufacturer received, serves as the model. The machine scans the layers using a laser sensor and proceeds to electronically compare the digital image with the original Gerber file.

If the machine finds inconsistency, the comparison is displayed on a monitor for the technician to assess. Once the layer passes inspection, it moves to the final stages of PCB production.

Step 6: Layer-up and Bond

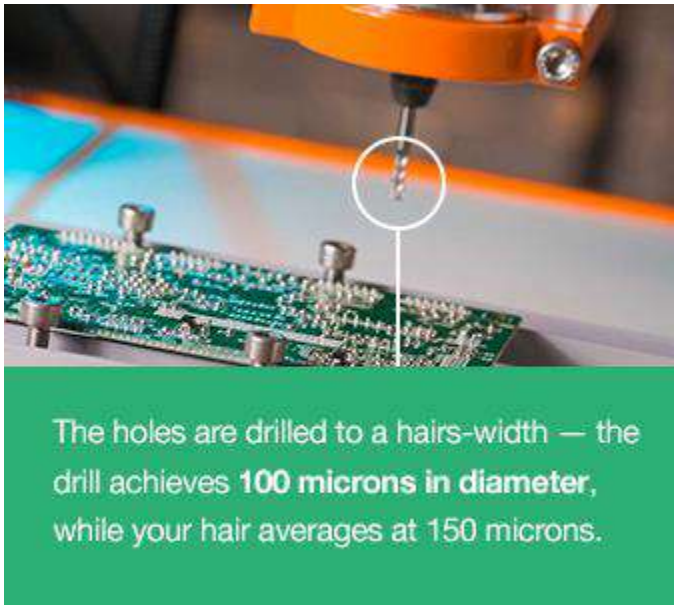
In this stage, the circuit board takes shape. All the separate layers await their union. With the layers ready and confirmed, they simply need to fuse together. Outer layers must join with the substrate. The process happens in two steps: layer-up and bonding.

The outer layer material consists of sheets of fiber glass, pre-impregnated with epoxy resin. The shorthand for this is called prepreg. A thin copper foil also covers the top and bottom of the original substrate, which contains the copper trace etchings. Now, it's time to sandwich them together.



Step 7: Drill

Finally, holes are bored into the stack board. All components slated to come later, such as copper-linking via holes and leaded aspects, rely on the exactness of precision drill holes. The holes are drilled to a hairs-width - the drill achieves 100 microns in diameter, while hair averages at 150 microns.



To find the location of the drill targets, an x-ray locator identifies the proper drill target spots. Then, proper registration holes are bored to secure the stack for the series of more specific holes.

Before drilling, the technician places a board of buffer material beneath the drill target to ensure a clean bore is enacted. The exit-material prevents any unnecessary tearing upon the drill's exits.

A computer controls every micro-movement of the drill - it's only natural that a product that determines the behavior of machines would rely on computers. The computer-driven machine uses the drilling file from the original design to identify the proper spots to bore.

The drills use air-driven spindles that turn at 150,000 rpm. At this speed, you might think that drilling happens in a flash, but there are many holes to bore. An average PCB contains well over one hundred bore intact points. During drilling, each needs its own special moment with the drill, so it takes time. The holes later house the vias and mechanical mounting holes for the PCB. The final affixation of these parts occurs later, after plating.

Step 8: Plating and Copper Deposition

After drilling, the panel moves onto plating. The process fuses the different layers together using chemical deposition. After a thorough cleaning, the panel undergoes a series of chemical baths. During the baths, a chemical deposition process deposits a thin layer - about one micron thick - of copper over the surface of the panel. The copper goes into the recently drilled holes.

Prior to this step, the interior surface of the holes simply exposes the fiber glass material that comprises the interior of the panel. The copper baths completely cover, or plate, the walls of the holes. Incidentally, the entire panel receives a new layer of copper. Most importantly, the new holes are covered. Computers control the entire process of dipping, removal and procession.

Step 9: Outer Layer Imaging

In Step 3, we applied photo resist to the panel. In this step, we do it again - except this time, we image the outer layers of the panel with PCB design. We begin with the layers in a sterile room to prevent any contaminants from sticking to the layer surface, then apply a layer of photo resist to the panel. The prepped panel passes into the yellow room. UV lights affect photo resist. Yellow light wavelengths don't carry UV levels sufficient to affect the photo resist.

Black ink transparencies are secured by pins to prevent misalignment with the panel. With panel and stencil in contact, a generator blasts them with high UV light, which hardens the photo resist. The panel then passes into a machine that removes the unhardened resist, protected by the black ink opacity.

The process stands as an inversion to that of the inner layers. Finally, the outer plates undergo inspection to ensure all of the undesired photo resist was removed during the previous stage.

Step 10: Plating

We return to the plating room. As we did in Step 8, we electroplate the panel with a thin layer of copper. The exposed sections of the panel from the outer layer photo resist stage receive the copper electro-plating. Following the initial copper plating baths, the panel usually receives tin plating, which permits the removal of all the copper left on the board slated for removal. The tin guards the section of the panel meant to remain covered with copper during the next etching stage. Etching removes the unwanted copper foil from the panel.

Step 11: Final Etching

The tin protects the desired copper during this stage. The unwanted exposed copper and copper beneath the remaining resist layer undergo removal. Again, chemical solutions are applied to remove the excess copper. Meanwhile, the tin protects the valued copper during this stage.

The conducting areas and connections are now properly established.

Step 12: Solder Mask Application

Before the solder mask is applied to both sides of the board, the panels are cleaned and covered with an epoxy solder mask ink. The boards receive a blast of UV light, which passes through a solder mask photo film. The covered portions remain unhardened and will undergo removal.

Finally, the board passes into an oven to cure the solder mask.

Step 13: Surface Finish

To add extra solder-ability to the PCB, we chemically plate them with gold or silver. Some PCBs also receive hot air-leveled pads during this stage. The hot air leveling results in uniform pads. That process leads to the generation of surface finish. PCBCart can process multiple types of surface finish according to customers' specific demands.

Step 14: Silkscreen

The nearly completed board receives ink-jet writing on its surface, used to indicate all vital information pertaining to the PCB. The PCB finally passes onto the last coating and curing stage.

Step 15: Electrical Test

As a final precaution, a technician performs electrical tests on the PCB. The automated procedure confirms the functionality of the PCB and its conformity to the original design. At PCBCart, we offer an advanced version of electrical testing called Flying Probe Testing, which depends on moving probes to test electrical performance of each net on a bare circuit board.

Step 16: Profiling and V-Scoring

Now we've come to the last step: cutting. Different boards are cut from the original panel. The method employed either centers on using a router or a v-groove. A router leaves small tabs along the board edges while the v-groove cuts diagonal channels along both sides of the board. Both ways permit the boards to easily pop out from the panel.

PHOTOGRAPH

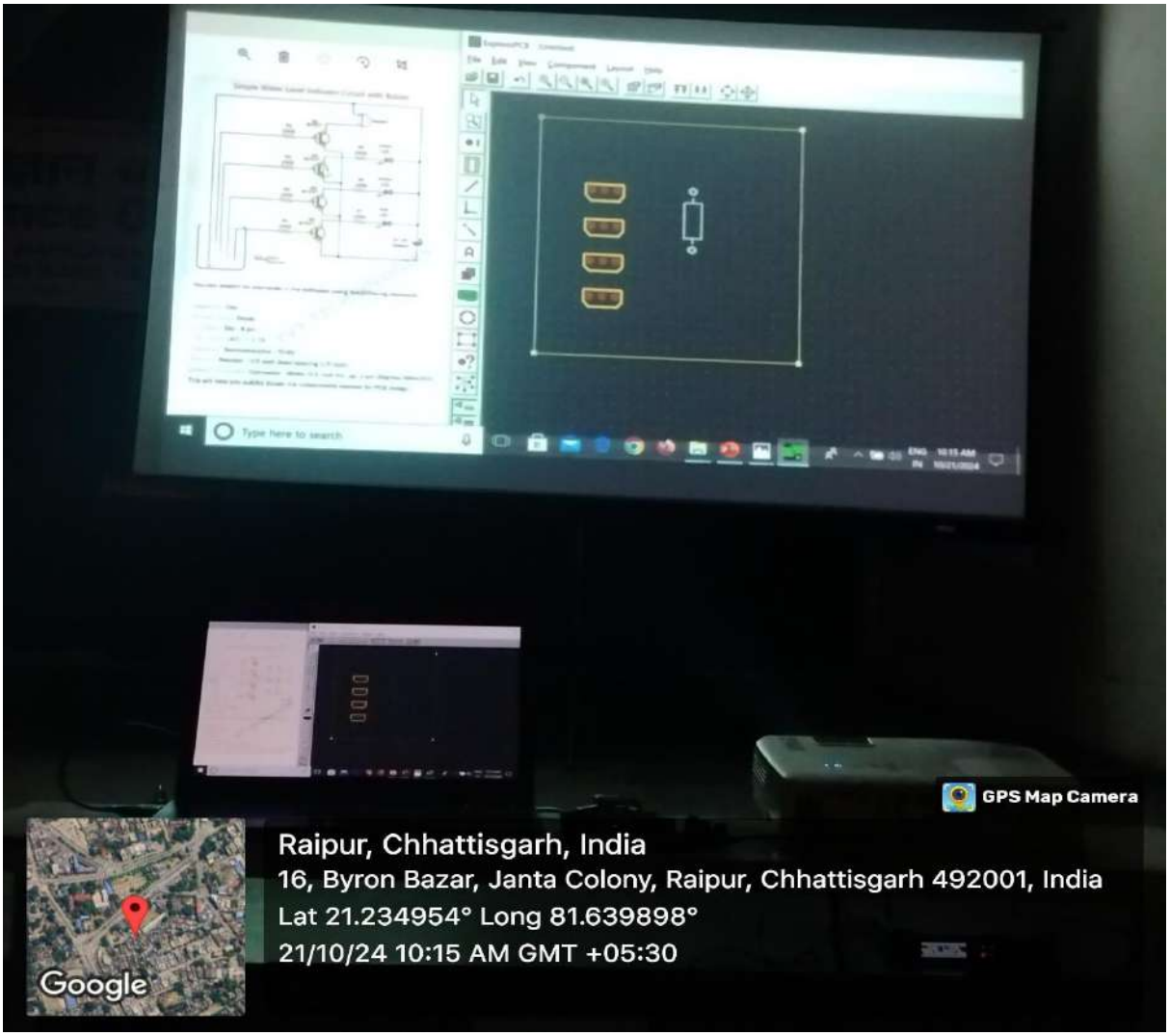

GPS Map Camera
Raipur, Chhattisgarh, India
16, Byron Bazar, Janta Colony, Raipur, Chhattisgarh 492001, India
Lat 21.235028° Long 81.639795°
21/10/24 11:04 AM GMT +05:30
Google


GPS Map Camera
Raipur, Chhattisgarh, India
16, Byron Bazar, Janta Colony, Raipur, Chhattisgarh 492001, India
Lat 21.234993° Long 81.639853°
23/10/24 11:40 AM GMT +05:30
Google


GPS Map Camera
Raipur, Chhattisgarh, India
16, Byron Bazar, Janta Colony, Raipur, Chhattisgarh 492001, India
Lat 21.235053° Long 81.639826°
21/10/24 11:05 AM GMT +05:30
Google


GPS Map Camera
Raipur, Chhattisgarh, India
16, Byron Bazar, Janta Colony, Raipur, Chhattisgarh 492001, India
Lat 21.23493° Long 81.639946°
22/10/24 09:55 AM GMT +05:30
Google


G.M.H. RAIPUR
GPS Map Camera
Raipur, Chhattisgarh, India
16, Byron Bazar, Janta Colony, Raipur, Chhattisgarh 492001, India
Lat 21.234926° Long 81.639947°
22/10/24 09:49 AM GMT +05:30
Google


GPS Map Camera
Raipur, Chhattisgarh, India
16, Byron Bazar, Janta Colony, Raipur, Chhattisgarh 492001, India
Lat 21.234954° Long 81.639898°
21/10/24 10:15 AM GMT +05:30
Google


HUG DEALERS
GPS Map Camera
Raipur, Chhattisgarh, India
16, Byron Bazar, Janta Colony, Raipur, Chhattisgarh 492001, India
Lat 21.234939° Long 81.639933°
22/10/24 09:36 AM GMT +05:30
Google

LETTER OF APPRECIATION

फोन : 0771-4053443

गुरुकुल महिला महाविद्यालय

छत्तीसगढ़ शासन तथा पंडित रविशंकर शुक्ल विश्वविद्यालय रायपुर से संबंध

गुरुकुल परिसर, कालीबाड़ी रोड, रायपुर (छ.ग.) ई-मेल : info@gurukulraipur.com Website : www.gmm.ac.in

NAAC Accredited B+

संचालित भातखण्डे ललितकला शिक्षा समिति, गांधी चौक, रायपुर (छत्तीसगढ़) पंजीयन क्रं. 16/51-52

क्रमांक : 4083/24 दिनांक : 29/10/24

Department of Science
Letter of Appreciation

To,

Mr. Yagyavalkya Dewangan
Founder, YVY Technologies
Raipur (C.G.)

Dear Sir,

On Behalf of the Gurukul Mahila Mahavidyalaya, we would like to express our deepest and sincere appreciation for your insightful workshop on **"Printed Circuit Board (PCB) Design & Sensor Applications"**. It was very interesting and informative as evidenced by the attendance and participation from our students.

Thanks a lot for conducting such a knowledgeable workshop at our institute and we appreciate your continued support.

Dr. Teenu Dubey
Secretary
Science Council
Gurukul Mahila Mahavidyalaya
Raipur (C.G.)

Received
Dewangan

Principal
Gurukul Mahila Mahavidyalaya
Raipur (C.G.)

गुरुकुल महिला महाविद्यालय

छत्तीसगढ़ शासन तथा पंडित रविशंकर शुक्ल विश्वविद्यालय रायपुर से संबंध

गुरुकुल परिसर, कालीबाड़ी रोड, रायपुर (छ.ग.) ई-मेल : info@gurukulraipur.com,Website : www.gmm.ac.in

NAAC Accredited B+

संचालित भातखण्डे ललितकला शिक्षा समिति, गांधी चौक, रायपुर (छत्तीसगढ़) पंजीयन क्रं. 16/51-52

क्रमांक : 4083/24

दिनांक : 23/10/24

Department of Science
Letter of Appreciation

To,

Mr. Manish Yadav
Member, YVY Technologies
Raipur (C.G.)

Dear Sir,

On Behalf of the Gurukul Mahila Mahavidyalaya, we would like to express our deepest and sincere appreciation for your insightful workshop on **"Printed Circuit Board (PCB) Design & Sensor Applications"**. It was very interesting and informative as evidenced by the attendance and participation from our students.

Thanks a lot for conducting such a knowledgeable workshop at our institute and we appreciate your continued support.

Dr. Teenu Dubey
Secretary
Science Council
Gurukul Mahila Mahavidyalaya
Raipur (C.G.)

Principal
Gurukul Mahila Mahavidyalaya
Raipur (C.G.)

गुरुकुल महिला महाविद्यालय

छत्तीसगढ़ शासन तथा पंडित रविशंकर शुक्ल विश्वविद्यालय रायपुर से संबंध

गुरुकुल परिसर, कालीबाड़ी रोड, रायपुर (छ.ग.) ई-मेल : info@gurukulraipur.com, Website : www.gmm.ac.in

NAAC Accredited B+

संचालित भातखण्डे ललितकला शिक्षा समिति, गांधी चौक, रायपुर (छत्तीसगढ़) पंजीयन क्रं. 16/51-52

क्रमांक : 4083/24

दिनांक : 23/10/24

Department of Science
Letter of Appreciation

To,

Ms. Varsha Yadav
Member, YVY Technologies
Raipur (C.G.)

Dear Madam,

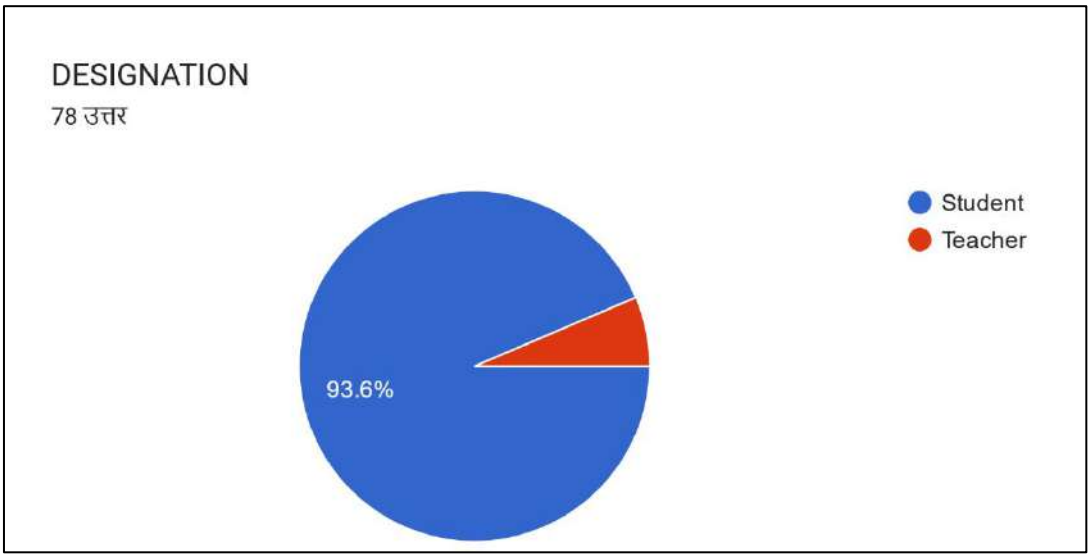
On Behalf of the Gurukul Mahila Mahavidyalaya, we would like to express our deepest and sincere appreciation for your insightful workshop on **"Printed Circuit Board (PCB) Design & Sensor Applications"**. It was very interesting and informative as evidenced by the attendance and participation from our students.

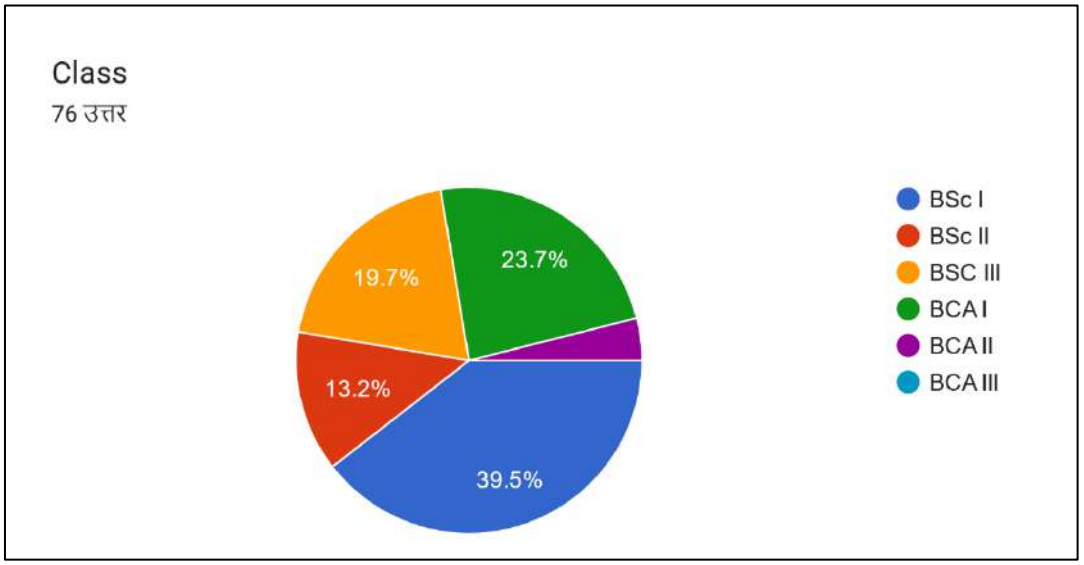
Thanks a lot for conducting such a knowledgeable workshop at our institute and we appreciate your continued support.

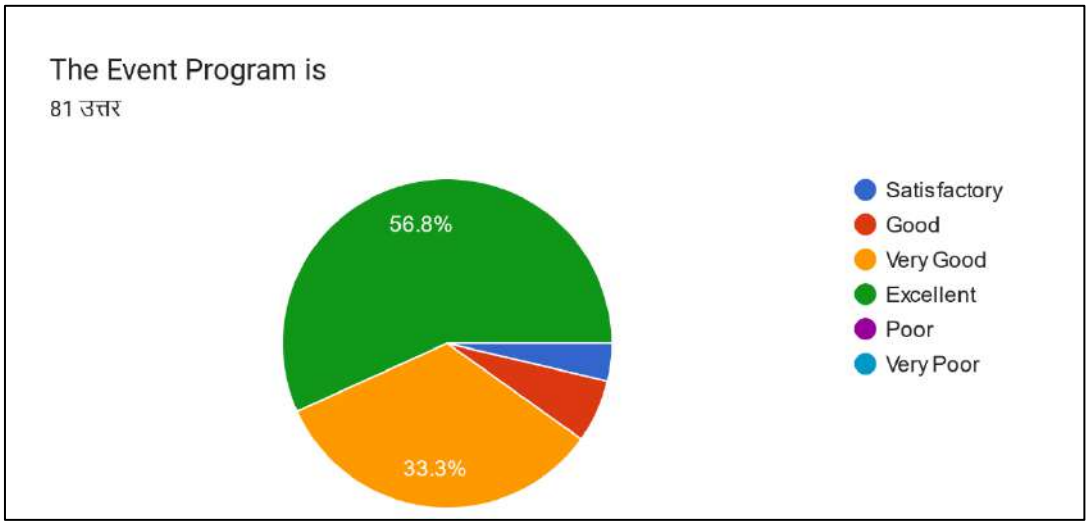
Dr. Teenu Dubey
Secretary
Science Council
Gurukul Mahila Mahavidyalaya
Raipur (C.G.)

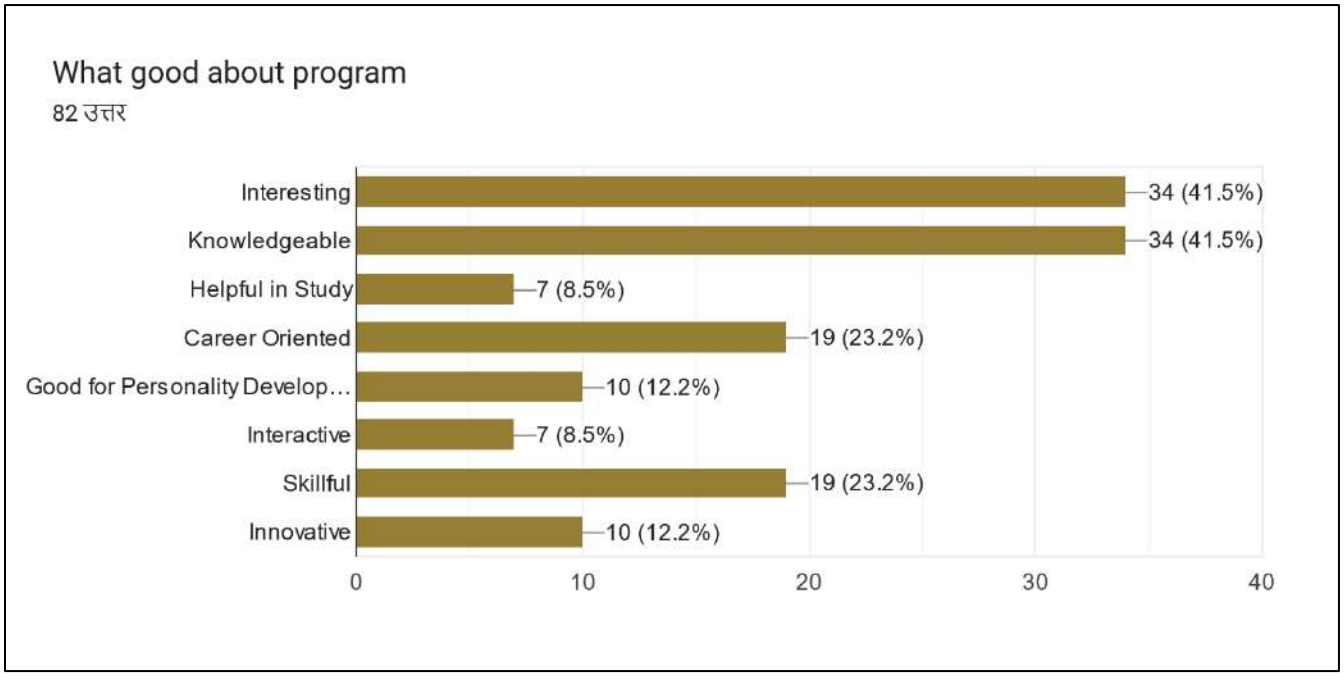
Principal
Gurukul Mahila Mahavidyalaya
Raipur (C.G.)

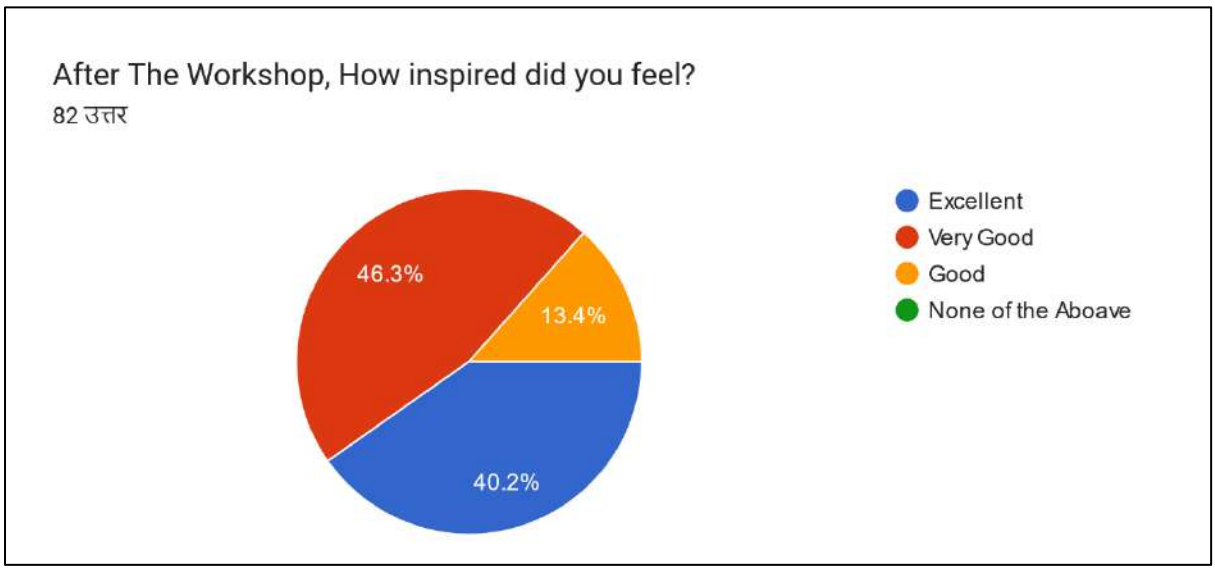
FEEDBACK

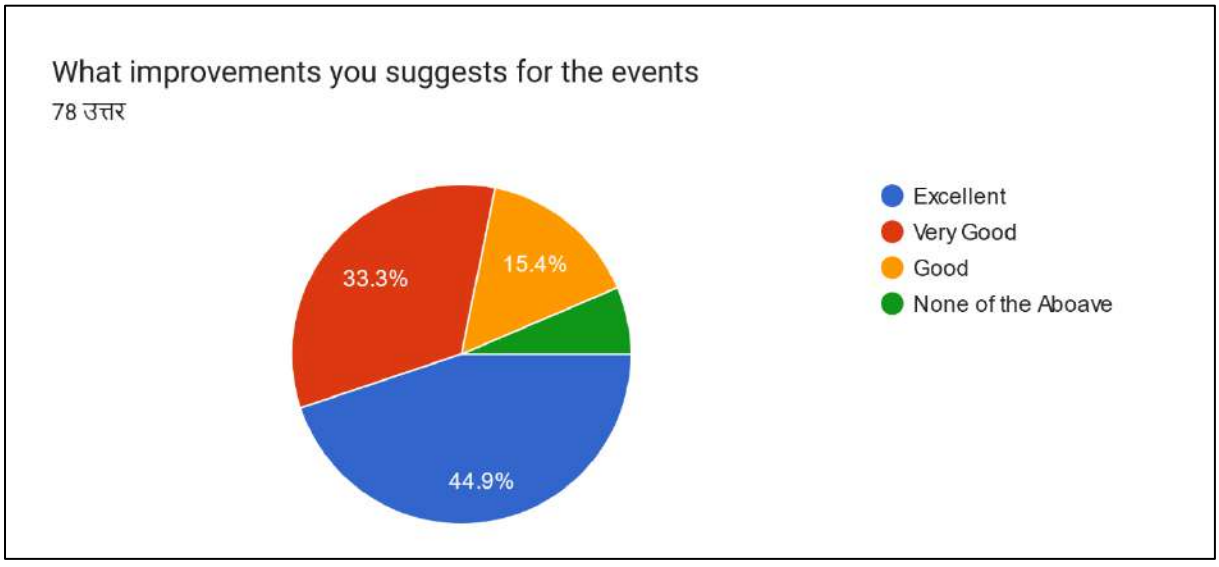

DESIGNATION
78 उत्तर
Student
Teacher
93.6%


Class
76 उत्तर
BSc I
BSc II
BSC III
BCA I
BCA II
BCA III
23.7%
19.7%
13.2%
39.5%


The Event Program is
81 उत्तर
Satisfactory
Good
Very Good
Excellent
Poor
Very Poor
56.8%
33.3%


What good about program
82 उत्तर
Interesting
Knowledgeable
Helpful in Study
Career Oriented
Good for Personality Develop…
Interactive
Skillful
Innovative
34 (41.5%)
34 (41.5%)
7 (8.5%)
19 (23.2%)
10 (12.2%)
7 (8.5%)
19 (23.2%)
10 (12.2%)
0
10
20
30
40


After The Workshop, How inspired did you feel?
82 उत्तर
46.3%
13.4%
40.2%
Excellent
Very Good
Good
None of the Aboave


What improvements you suggests for the events
78 उत्तर
33.3%
15.4%
44.9%
Excellent
Very Good
Good
None of the Aboave

CERTIFICATE

GURUKUL MAHILA MAHAVIDYLAYA

KALIBADI ROAD, RAIPUR (C.G.)

Department of Science

Science Council Event

Session 2024-25

DIGITAL REPORT

COLLEGE TOUR PROGRAM

VISIT TOUR

SOMNATH MAHADEV

RAIPUR (C.G.)

Session 2024-25

Content

PROPOSAL

Date:

"बैठक निर्णय"

दिनांक - 11/12/20xx

दिनांक 10/12/20xx को विज्ञान परिषद की बैठक विभागाध्यक्ष एवं अन्य सदस्यों की उपस्थिति में की गई। उक्त बैठक में B.Sc. अंतिम वर्ष की छात्राओं को शैक्षणिक भ्रमण में ले जाने हेतु सभी सदस्यों की सहमति से निम्नांकित बिन्दुओं पर चर्चा किया गया एवं निर्णय लिया गया।

(1) शैक्षणिक भ्रमण हेतु सिमगा स्थित सोमनाथ मंदिर दिनांक 21/12/20xx को जाने का निर्णय लिया गया।

(2) शैक्षणिक भ्रमण में B.Sc. अंतिम वर्ष की छात्राओं को शामिल किया जाएगा जिसमें पहले आने वाले 40 विद्यार्थीयों को ही शामिल किया जाएगा।

(3) इस हेतु छात्राओं से 300/- प्रति छात्रा धन राशी लिया जाना तय किया गया है।

(4) विज्ञान विभाग के सभी अन्य उपस्थित प्राध्यापकों द्वारा भ्रमण में जाने हेतु सहमति प्रदान की गई। अति आवश्यक कार्य हो जाने पर अनुपस्थिति मान्य होगी। इस बैठक में आकस्मिक अवकाश में होने के कारण डॉ सिमरन वर्मा एवं डॉ मेघा अग्रवाल अनुपस्थित थे। अतः उनकी सहमति भी अपेक्षित है।

विभागाध्यक्ष
विज्ञान विभाग

सचिव
विज्ञान विभाग

Page No. _____
Date: | | |

1. Dr Aradhana Singh
2. Avantika Soni
3. Priti Sahu
4. Dr. Anuradha Gupta
5. Priya Dubey
6. Dr Darshna Verma
7. Dr. Megha Agrawal
8. Ankita singh
9. Dr - seema
10. Dr. Sivarao. R Verma

PERMISSION LETTER

प्रति,

प्राचार्य
गुरुकुल महिला महाविद्यालय
काली बाड़ी रोड, रायपुर (छ.ग.)

19/12/24

विषय - विज्ञान विषय की छात्राओं को शैक्षणिक भ्रमण में ले जाने की अनुमति बाबत।

महोदया,

निवेदन है कि विज्ञान परिषद की ओर से दिनांक 21/12/2024 को B.Sc II/III (Bio+PCM+CS) की छात्राओं को शैक्षणिक भ्रमण के लिए सोमनाथ मंदिर, सिमगा, जिला - बेमेतरा (छ.ग.) ले जाने का आयोजन किया जाना है। जिसमे प्रातः 8:00 बजे departure व 6:30 P.M. तक वापसी का कार्यक्रम तय है, इसमें 28 छात्राओं जाने के लिए इच्छुक है, इस हेतु छात्राओं के पालकों से भी अनुमति ले ली जाएगी।

अतः आपसे निवेदन है कि इस आयोजन के लिए अनुमति प्रदान करें। जिसमे छात्राओं की सुरक्षा की जिम्मेदारी सभी विज्ञान प्राध्यापकों की होगी। प्राध्यापक व छात्राओं के नाम आवेदन के साथ संलग्न है।

धन्यवाद

दिनांक - 19/12/24

भवदीय

1. डॉ टीनू दुबे (सचिव विज्ञान परिषद) Dubey
2. डॉ वन्दना अग्रवाल HOD विज्ञान विभाग 19/12/24

NOTICE

गुरुकुल महिला महाविद्यालय, रायपुर (छ.ग.)

👉👉सूचना 👈👈

बीएससी अंतिम वर्ष के सभी छात्रों को सूचित किया जाता है कि दिनाँक 21/12/2024 को शैक्षणिक भ्रमण (picnic) जाने का निर्णय लिया गया है। जिसके लिए 300/-फीस, 16/12/2024 तक जमा कर अपना जाना सुनिश्चित करें।

स्थान : सोमनाथ मंदिर सिमगा

समय : 21/12/2024

प्रातः 7 बजे

अधिकतम छात्रा संख्या 40

ATTENDANCE SHEET

गुरुकुल महिला महाविद्यालय
कालीबाड़ी रोड़, रायपुर
विज्ञान परिषद -शैक्षणिक भ्रमण

दिनांक – 21/12/2024 स्थान – सोमनाथ (सिमगा) समय –8 AM TO 6 PM

क्र.	नाम	कक्षा	मोबाईल नंबर	राशि	अनुमति	हस्ताक्षर
1.	दुर्गा साहू	B.Sc. II	8827789259	300/-	✓	Durga
2.	नेहा यादव	B.Sc. II	7415064537	300/-	✓	NYadav
3.	निकिता कंवरे	B.Sc. II	7772902588	300/-	✓	Nikita
4.	सानिया अली	B.Sc. II	6266289267	300/-	✓	[illegible]
5.	कशिश वर्मा	B.Sc. II	6264542970	300/-	✓	Kashish Verma
6.	रिया सिंह	B.Sc. II	9575558183	300/-	✓	R Singh
7.	पुजा यादव	B.Sc. II	9685298041	300/-	✓	Pooja Yadav
8.	तृष्णा वर्मा	B.Sc. II	7803016883	300/-	✓	Trisha
9.	रक्षा जायसवाल	B.Sc. III	7470900305	300/-	✓	[illegible]
10.	अर्पिता वर्मा	B.Sc. III	7566390039	300/-	✓	Arpita
11.	वर्षा मिश्रा	B.Sc. III	9203830822	300/-	✓	[illegible]
12.	कामना ध्रुव	B.Sc. II	6265319599	300/-	✓	Kamna Dhruv
13.	पायल रजक	B.Sc. III	9399923370	300/-	✓	Payal
14.	लुबना फातिमा	B.Sc. III	9893787759	300/-	✓	Lubna
15.	संध्या साहू	B.Sc. III	7879161324	300/-	✓	Sandhya
16.	कुसुम साहू	B.Sc. III	8103260130	300/-	✓	ABSENT
17.	हिमानी निषाद	B.Sc. III	8602327198	300/-	✓	Nishad
18.	जान्हवी मन्नाडे	B.Sc. III	8839605788	300/-	✓	Janhvi
19.	तन्नु साहू	B.Sc. II	9303601541	300/-	✓	Tanu
20.	करिश्मा भारती	B.Sc. III	8821954414	300/-	✓	Karishma
21.	राधिका सोनवानी	B.Sc. III	9770249861	300/-	✓	Radhika
22.	पुजा माहेश्वरी	B.Sc. III	7828522950	300/-	✓	Pooja
23.	मनीषा बघेल	B.Sc. III	7587291959	300/-	✓	ABSENT
24.	तारिका बिसेन	B.Sc. III	7247004688	300/-	✓	Tarika
25.	मानसी बैस	B.Sc. II	7067107978	300/-	✓	Baij
26.	वर्षा चंद्राकर	B.Sc. II	6268507176	300/-	✓	Chandra
27.	सूमन वर्मा	B.Sc. III	8349485239	300/-	✓	[illegible]
28.	पायल यादव	B.Sc. II	8839737955	300/-	✓	Payal

गुरुकुल महिला महाविद्यालय
कालीबाड़ी रोड़, रायपुर
विज्ञान परिषद -शैक्षणिक भ्रमण

दिनांक – 21/12/2024 स्थान – सोमनाथ (सिमगा) समय –8 AM TO 6 PM

क्र.	नाम	कक्षा	मोबाईल नंबर	उपस्थिति (सुबह)	उपस्थिति (शाम)
1.	दुर्गा साहू	B.Sc. II	8827789259	Durga	Durga
2.	नेहा यादव	B.Sc. II	7415064537	Nyadav	Nyadav
3.	निशिता कोचरे	B.Sc. II	7772902588	Nk	Nkoch
4.	सानिया अली	B.Sc. II	6266289267	Saniya	Saniya
5.	कशिश वर्मा	B.Sc. II	6264542970	Kashish Verma	Kashish Verma
6.	रिया सिंह	B.Sc. II	9575558183	Riya Singh	Singh
7.	पुजा यादव	B.Sc. II	9685298041	Pooja yadav	Pooja yadav
8.	तृष्णा वर्मा	B.Sc. II	7803016883	Trishna	Trishna
9.	रक्षा जायसवाल	B.Sc. III	7470900305	Raksha	Raksha
10.	अर्पिता वर्मा	B.Sc. III	7566390039	Arpita	Arpita
11.	वर्षा मिश्रा	B.Sc. III	9203830822	Vmishra	Vmishra
12.	कामना ध्रुव	B.Sc. II	6265319599	Kamnadhruve	Kamnadhruve
13.	पायल रजक	B.Sc. III	9399923370	Payal	Payal
14.	लुबना फातिमा	B.Sc. III	9893787759	Lubna	lubna
15.	संध्या साहू	B.Sc. III	7879161324	Sandhya	Sandhya
16.	कुसुम साहू	B.Sc. III	8103260130	ABSENT	ABSENT
17.	हिमानी निषाद	B.Sc. III	8602327198	Himani	Himani
18.	जान्हवी मन्नाडे	B.Sc. III	8839605788	Janhvi	Janhvi
19.	तन्नु साहू	B.Sc. II	9303601541	Tsahu	Tsahu
20.	करिश्मा भारती	B.Sc. III	8821954414	Karishma	Karishma
21.	राधिका सोनवानी	B.Sc. III	9770249861	Radhika	Radhika
22.	पुजा माहेश्वरी	B.Sc. III	7828522950	Pooja	Pooja
23.	मनीषा बघेल	B.Sc. III	7587291959	ABSENT	ABSENT
24.	तारिका बिसेन	B.Sc. III	7247004688	Tarika	Tarika
25.	मानसी बैस	B.Sc. II	7067107978	Baiss	Baiss
26.	वर्षा चंद्राकर	B.Sc. II	6268507176	Varsha	Varsha
27.	सूमन वर्मा	B.Sc. III	8349485239		
28.	पायल यादव	B.Sc. II	8839737955	Payal	Payal

प्रभारी प्राध्यापक –

1. डॉ. वंदना अग्रवाल
2. डॉ. टीनू दुबे
3. डॉ. अराधना सिंग
4. डॉ. सीमा चंद्राकर
5. डॉ. सिमरन आर. वर्मा
6. डॉ. देवश्री वर्मा
7. प्रीति साहू
8. अंवतिका सोनी
9. प्रिया दुबे
10. अंशिका दुबे

गुरुकुल महिला महाविद्यालय
कालीबाड़ी रोड़, रायपुर
विज्ञान परिषद -शैक्षणिक भ्रमण

दिनांक – 21/12/2024 स्थान – सोमनाथ (सिमगा) समय –**8 AM TO 6 PM**

क्र.	नाम	कक्षा	मोबाईल नंबर	उपस्थिति (सुबह)	उपस्थिति (शाम)
1	दुर्गा साहू	B.Sc. II	8827789259	Dsahu	Dsahu
2	नेहा यादव	B.Sc. II	7415064537	Nyadav	Nyadav
3	निकिता कॉवरे	B.Sc. II	7772902588	Nikita	Nikita
4	सानिया अली	B.Sc. II	6266289267	Saniya	Saniya
5	कशिश वर्मा	B.Sc. II	6264542970	Kashish Verma	Kashish Verma
6	रिया सिंह	B.Sc. II	9575558183	Riya Singh	Riya Singh
7	पुजा यादव	B.Sc. II	9685298041	Pooja yadav	Pooja yadav
8	तृष्णा वर्मा	B.Sc. II	7803016883	Trishna	Trishna
9	रक्षा जायसवाल	B.Sc. III	7470900305	Raksha	Raksha
10	अर्पिता वर्मा	B.Sc. III	7566390039	Arpita	Arpita

प्रभारी प्राध्यापक –

1 डॉ. अराधना सिंग

2 अंवतिका सोनी Anvatika

गुरुकुल महिला महाविद्यालय
कालीबाड़ी रोड़, रायपुर
विज्ञान परिषद -शैक्षणिक भ्रमण

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11	वर्षा मिश्रा	B.Sc. III	9203830822	Present	Present
12	कामना ध्रुव	B.Sc. II	6265319599	Kamna Dhruw	Kamna Dhruw
13	पायल रजक	B.Sc. III	9399923370	Payal	Payal
14	लुबना फातिमा	B.Sc. III	9893787759	Lubna	Lubna
15	संध्या साहू	B.Sc. III	7879161324	Sandhya	Sandhya
16	कुसुम साहू	B.Sc. III	8103260130	Absent	Absent
17	हिमानी निषाद	B.Sc. III	8602327198	Hishni	Hishni
18	जान्हवी मन्नाडे	B.Sc. III	8839605788	Janhvi	Janhvi
19	तन्नु साहू	B.Sc. II	9303601541	Tanu	Tanu
20	करिश्मा भारती	B.Sc. III	8821954414	Karishma	Karishma

प्रभारी प्राध्यापक –

1 डॉ. देवश्री वर्मा Devshree

2 प्रीति साहू Preeti

गुरुकुल महिला महाविद्यालय
कालीबाड़ी रोड़, रायपुर
विज्ञान परिषद -शैक्षणिक भ्रमण

दिनांक – 21/12/2024 स्थान – सोमनाथ (सिमगा) समय –8 AM TO 6 PM

क्र.	नाम	कक्षा	मोबाईल नंबर	उपस्थिति (सुबह)	उपस्थिति (शाम)
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22	पुजा माहेश्वरी	B.Sc. III	7828522950	Pooja	Pooja
23	मनीषा बघेल	B.Sc. III	7587291959	ABSENT Ab	ABSENT
24	तारिका बिसेन	B.Sc. III	7247004688	Tarika	Tarika
25	मानसी बैस	B.Sc. II	7067107978	Baij	Mans
26	वर्षा चंद्राकर	B.Sc. II	6268507176	Varsha	Varsha
27	सूमन वर्मा	B.Sc. III	8349485239		
28	पायल यादव	B.Sc. II	8839737955	Payal.	Payal

प्रभारी प्राध्यापक –

1 अंशिका दुबे

2 प्रिया दुबे

AIM AND OBJECTIVES

The aim of this educational/spiritual tour is to deepen students connection with spirituality, seeking personal growth, gain insight and understanding through exploring different beliefs and practices. To find inner peace and potentially experience a sense of connection to a higher power or the divine are often achieved by visiting sacred sites or participating in rituals associated with a particular faith and tradition.

According to research, nature can help improve students academic performance by improving their attention, ability to concentrate, self-discipline, fitness and mental health. Archeology offers students an opportunity to use and develop critical thinking skills such as observation, interpretation, deduction inference and classification.

OBJECTIVES

- Understanding Culture
- To learn about different spiritual traditions and practices from diverse culture.
- To promote sensitivity towards preservation of cultural heritage.
- To foster a deeper connection with oneself, nature and a higher power.
- To use the experience to promote emotional healing and personal transformation.

WHY WE SELECTED THIS DESTINATION?

The day selected for this tour was 21 December which is "**World Meditation Day"** and United Nation General Assembly promotes to raise awareness of meditation's ability to improve mental and physical health, enhance focus and spread positivity. And what could be better than this if students do meditation in natural environment on this special day. Meditation can significantly improve focus and concentration by training the mind to stay present and reduce distractions. This is crucial for students academic success and productivity.

And also after a long academic session, students need a study break so that they can refresh and then prepare for the final exams with more enthusiasm, energy, attention and concentration. Also the students were more excited to have a nature visit on the bank of river that was quite different experience from the usual educational tour or industrial visit.

GENERAL INFORMATION ABOUT THE SOMNATH TEMPLE

Somnath temple is situated in Bemetara district of Chhattisgarh state, which is located at a distance of about 43 kilometers from the capital Raipur. Somnath Dham besides being a centre of faith, is also a beautiful tourist destination of Chhattisgarh. The shiva temple located here is said to be of the seventh-eighth century, thus this temple is ancient as well as of archaeological importance.

The Somnath temple of Chhattisgarh is also situated at the sangam of two rivers. One of these river is the Shivnath river which originates from the hill located at Ambagarh Chowki in Rajnandgaon district of Chhattisgarh and the other is the life-giving Kharun river of Raipur city, which originates from Dhamtari district.

The holy land where these two rivers meet is the same place where the temple of Lords of Gods, Mahadev is situated.

People here say that the shivlinga in the temple which is now about three and a half feet tall, used to be three feet tall earlier, which means its height is increasing every year. Its colour also changes according to the season and sometimes it looks black, brown and light red.

Apart from the main temple, temples of other deities have been built here like Radhakrishna, etc. Other artistic idols can also be seen in the temple premises. Being the sangam of rivers the environment around the Somnath temple is full of greenery. There are a large number of karanja trees here which are quite dense, which gives the feeling of forest.

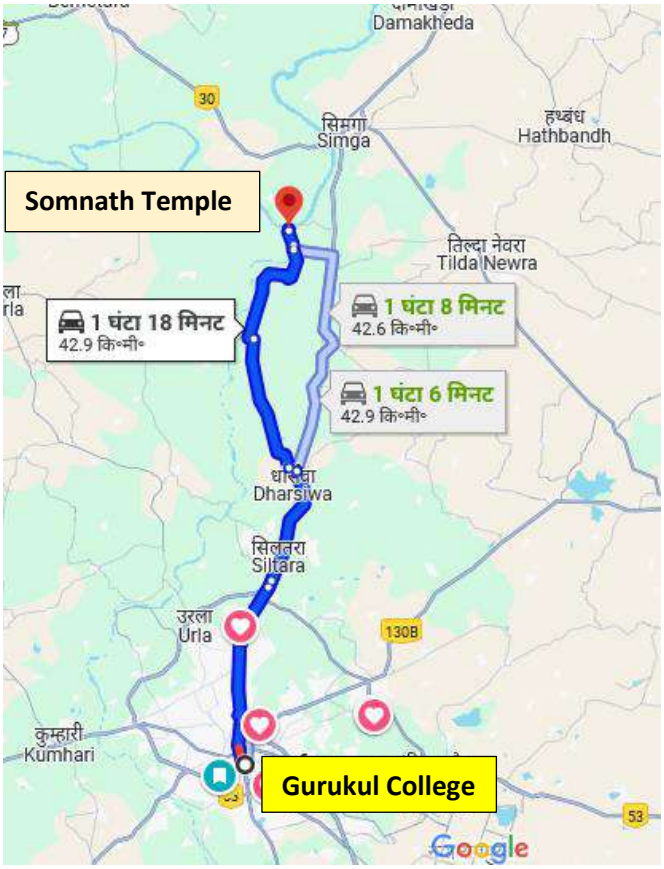
A garden has been developed near the temple in which swings etc. have been installed for children. Due to the entertainment arrangements for children this place has become a center of attraction for the nearby villagers as well.

PHOTOGRAPH


OM HARI HAR
CG 23 F 9333


GPS Map Camera
Raipur, Chhattisgarh, India
6jpr+32v, Kalibadi Chowk, Byron Bazar, Janta Colony, Raipur, Chhattisgarh 492001, India
Lat 21.235237° Long 81.640022°
21/12/24 09:07 AM GMT +05:30
Google

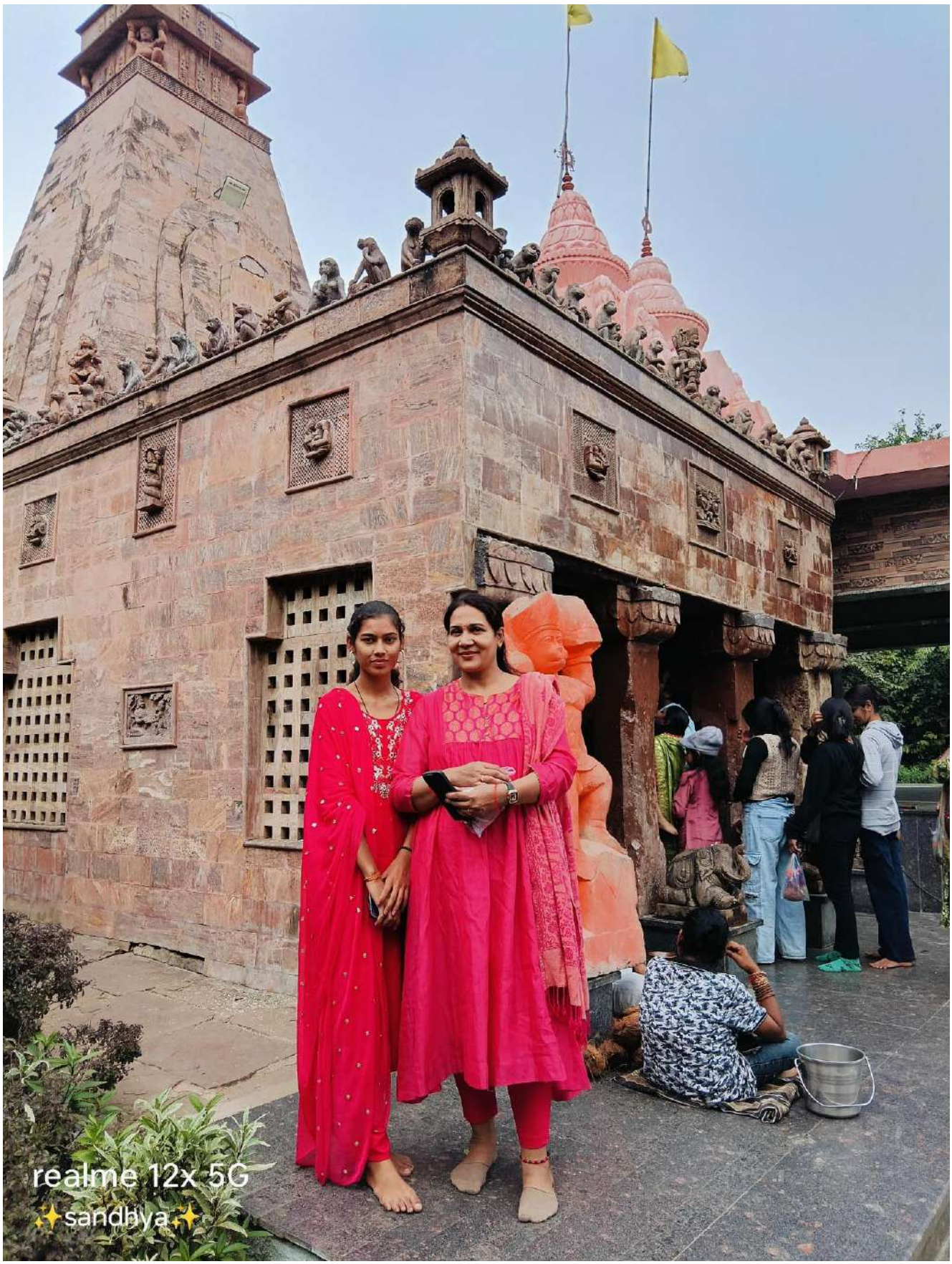
ROUTE MAP


Damakheda
30
सिमगा
Simga
हथ्बंध
Hathbandh
Somnath Temple
तिल्दा नेवरा
Tilda Newra
1 घंटा 18 मिनट
42.9 कि॰मी॰
1 घंटा 8 मिनट
42.6 कि॰मी॰
1 घंटा 6 मिनट
42.9 कि॰मी॰
धारसीवा
Dharsiwa
सिलतरा
Siltara
उरला
Urla
130B
कुम्हारी
Kumhari
Gurukul College
53
Google


Shri Somnath Temple
सोमनाथ मंदिर
Recently viewed
Kiritpur
किरिटपुर
Chatuwa
चतुवा
Salumber Rd
Salumber Rd


विज्ञान परिषद

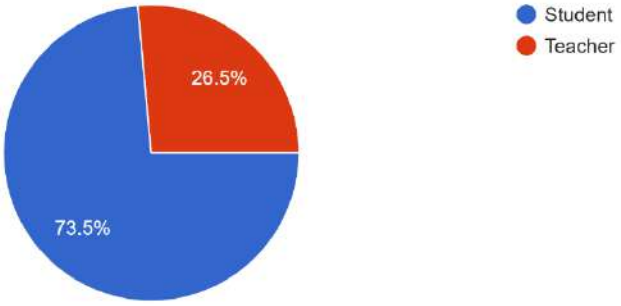
Celebrating … World Meditation Day


realme 12x 5G
✨sandhya✨

FEEDBACK

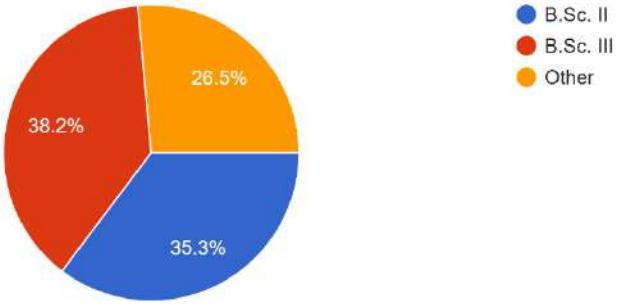
Designation

34 responses



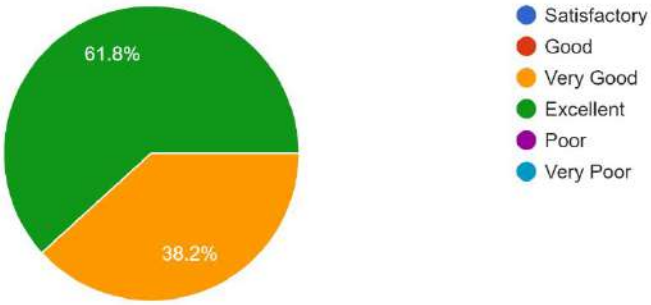
Class

34 responses



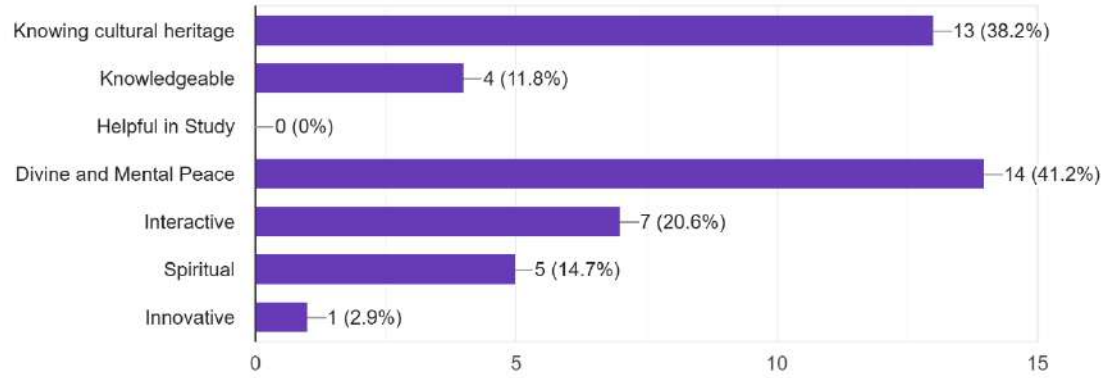
The Trip was

34 responses



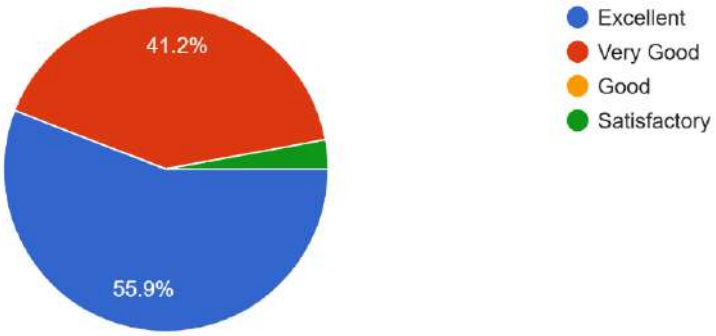
What was good about trip ?

34 responses



How satisfied were you with the overall experience?

34 responses



Thank You

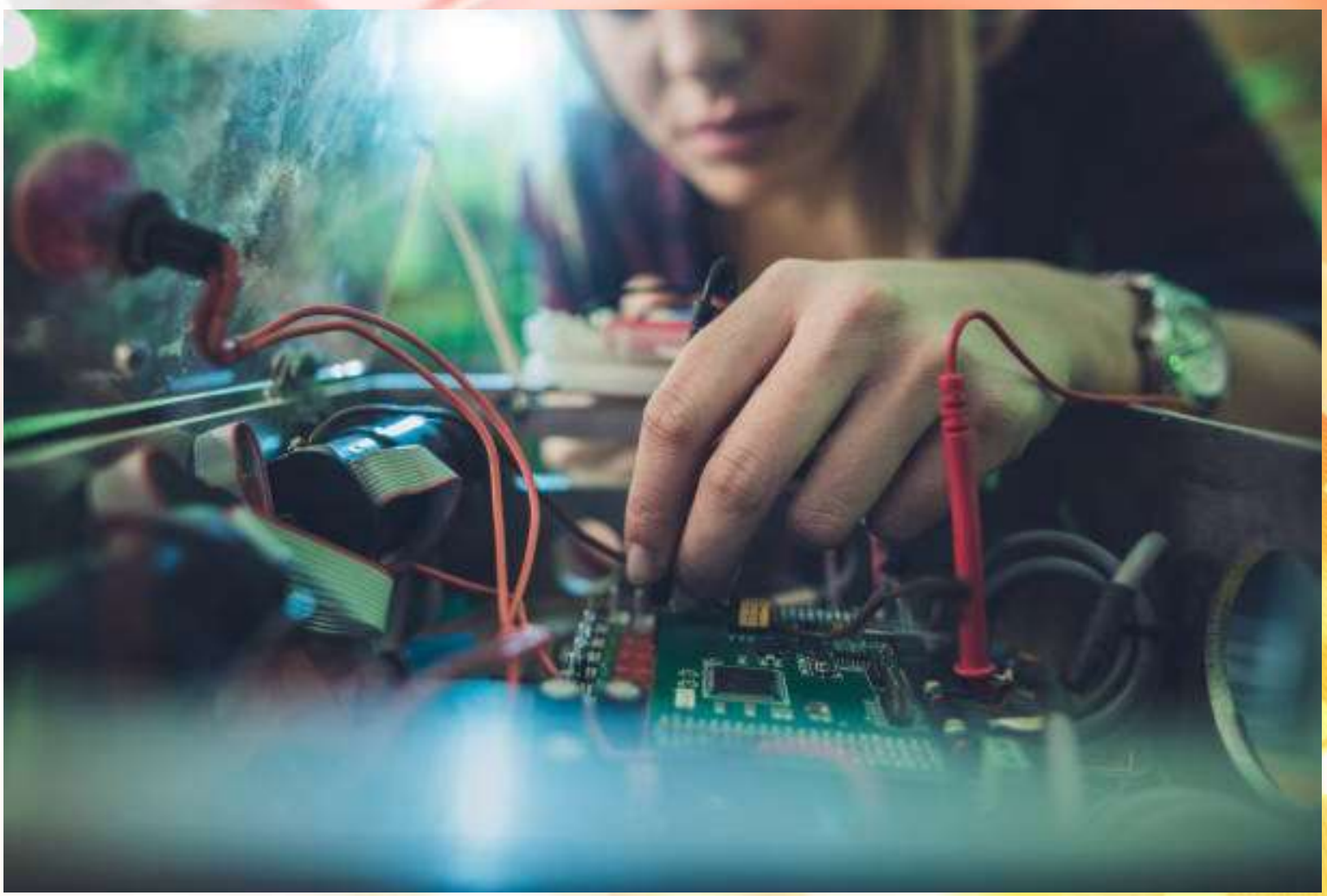
GURUKUL MAHILA MAHAVIDYALAYA

KALIBADI ROAD, RAIPUR (C.G.)

Workshop of

BASIC ELECTRICAL SKILL

Session 2024-25



Department of Science

Gurukul Mahila Mahavidyalaya, Raipur (C.G.)

CONTENTS

Proposal

Proposal for Workshop on Basic Electrical Skills at Gurukul Mahila Mahavidyalaya, Raipur C.G

Subject: Proposal for Hands-on Workshop on Basic Electrical Skills

Respected Principal/Coordinator,

Greetings from YVY Technologies!

We are pleased to propose a **hands-on training workshop** for the students of Gurukul Mahila Mahavidyalaya, Raipur C.G. This workshop aims to provide practical exposure in the field of **basic electrical skills, wiring, troubleshooting, and appliance repair**, helping students gain essential knowledge and hands-on experience.

Workshop Details:

- **Duration:** 2 Days (17th & 18th March 2025 at 9AM)
- **Mode:** Offline (On-campus training)
- **Target Audience:** B.Sc. and M.Sc. students
- **Trainer:** Expert instructors from YVY Technologies with industrial experience

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Workshop Objectives:

1. To familiarize students with **basic electrical tools and their applications**.
2. To introduce students to **electrical measuring instruments** like voltmeters, ammeters, and electronic balances.
3. To provide hands-on training in **extension board design and construction**.
4. To train students in **appliance repair and troubleshooting**, including fans, electric kettles, electric presses, and coolers.
5. To enhance problem-solving skills through **practical demonstrations and live projects**.

Topics to be Covered:

- **Day 1:** Use of **Basic Tools** (Screwdriver, Pliers, Wrench, Hacksaw, Spanner, Electric Drill, Soldering Iron) and **Measuring Instruments** (Voltmeter, Ammeter, Electronic Balance).
- **Day 2:** Hands-on training on **Extension Board Design & Construction**, along with **Repair & Troubleshooting of Electrical Appliances** (Fans, Electric Kettles, Electric Presses, Coolers).

Requirements from College:

To conduct the workshop effectively, we request the following facilities:

1. **Classroom/Lab space** with seating arrangements.
2. **Whiteboard** for explanations.
3. **Basic electrical components & kits** (if available).
4. **Power supply.**

Conclusion:

This workshop will provide **practical exposure and technical expertise** to students, preparing them for academic and industrial challenges. We look forward to collaborating with Gurukul Mahila Mahavidyalaya, Raipur C.G to empower students with **essential electrical skills**.

For further discussions, feel free to contact us at **9301111042** or visit our office at **YVY Technologies, Raipur**.

Looking forward to your positive response!

Best Regards,
Yagyavalkya Dewangan
YVY Technologies Raipur (C.G.)

Proposal

Session (2024-25)

B Sc II nd SEM.

Proposal for SEC for B Sc (M | CS) students

Name of course – Basic electrical skill

objective – As per syllabus of university SEC is compulsary for 2nd sem students. Pool is designed by university board of study and student have to opt any one from the pool, students of our college of B Sc 2nd sem (M + CS) have opted Basic electrical skill. This course is totally skill enhancement course and practical based subject. As per syllabus of this course theory and Practical has to be taught to students. Practical part of this course is based on repairing of electrical appliances. As college has no repairing workshop, we have to arrange 2 or 3 days training programs to carry out prescribed practicals. For giving training of repairing we have to invite expert. For this purpose, I Dr. Anuradha Gupta, Dept of physics is is submitting proposal.

* Tentative date of workshop - 17/3/25 & 18/3/25

* Name of expert - Yagvalkya Dewangan
  founder, YVY technologies

* Total no. of students - (37)

* Proposed expenditure -

  1) Remuneration to expert - 4000/-
  2) Expenses for tool - 5000/-
  3) Total amount required - 9000/-

* Registration fees from students -
  37 X 100/- = 3700/-

* contribution from college - 5300/-

* syllabus is enclosed.

This proposal is submitted for approval.

Aruadha 12/3/25
Dr. Aruadha Gupta
Asst. professor
Physics Department
Gurukul Mahila
Mahavidyalaya, Raipur.

Notice

Notice

There is a workshop of physics on 18th and 19th March

Registration fees : 100 rupees

Timing : 9:00 am to 1:00 pm

Note: it is compulsory to attend the workshop for every student

Dr. Anuradha Gupta
Asst. Prof. (Physics)
Science Department
Gurukul Mahila Mahavidyalaya
Raipur (C.G.)

Attendance Sheet

B.SC II SEMESTER 2025 -CS

DATE 18/03/2025

S.NO.	Candidate's Name	Mobile No.	SIGNATURE
1	AKTA DEWANGAN	6260054950	Akta
2	ANJALI MARKO	7389813119	Anjali Marko
3	IRAM FATIMA	7067998338	Iram
4	JANHVI DHRUW	9981559501	Janhvi
5	JIGYASA CHOUBEY	8602121904	Jigyasa.
6	KARUNA SAHU	9755390981	Karuna Sahu
7	KHUSHI SAHU	7828929817	Khushi Sahu.
8	LOMIN GAYAKWAD	6264451570	Lomin
9	MAMTA DEWANGAN	8269467456	Mamta
10	MANISHA SAHU	9713563998	Manisha
11	MANSI SAHU	6268814817	online class
12	NAVANI SONI	7225917988	Navani
13	NILIMA DEWANGAN	9826152203	Nilima Dewangan
14	NIRJALA YADAV	8435784155	Nirjala
15	PALLAVI CHANDRAKAR	7999338502	Pallavi
16	POOJA THAKUR	9343479774	Pooja
17	RASHMI NAYAK	9399768764	Rashmi
18	RESHMA	9098048897	Reshma
19	ROHIT KUMAR	7440632166	Rohit
20	SEJAL DEWANGAN	6260798482	Sejal
21	SHREYA VISHWAKARMA	7999745140	Shreya
22	SMRITI VERMA	7354320260	Smriti
23	SNEHA AGRAWAL	9926704750	Sneha
24	SUMAN SAHU	7771048054	Suman
25	SUMAN YADAV	9754159380	Suman
26	SUPRIYA KASHYAP	7646821808	Supriya
27	TANU SAHU	6268881235	Tanu Sahu
28	TILENDRI NAG	6260702752	Tilendri
29	TRISHLA YADU	9343356126	Trishla

B.SC II SEMESTER 2025 -PCM

S.NO.	Candidate's Name	Mobile No.	SIGNATURE
1	ARCHANA SAHU	9754800836	Archana Sahu
2	BINDU YADAV	6263006512	Bindu Yadav
3	GEETANJALEE CHOUDHARY	7828756563	Geetanjalee
4	MADHU	8109378709	Mishad
5	NIKITA KAWRE	7772902588	Nikita
6	RUCHITA SAHU	8120677145	Ruchita
7	UPASANA THAKUR	7746036915	Upasana
8	VEENA SAHU	7723972395	Veena Sahu

B.SC II SEMESTER 2025 -CS

DATE 19/03/2025

S.NO.	Candidate's Name	Mobile No.	SIGNATURE
1	AKTA DEWANGAN	6260054950	
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4	JANHVI DHRUW	9981559501	
5	JIGYASA CHOUBEY	8602121904	
6	KARUNA SAHU	9755390981	
7	KHUSHI SAHU	7828929817	
8	LOMIN GAYAKWAD	6264451570	
9	MAMTA DEWANGAN	8269467456	
10	MANISHA SAHU	9713563998	
11	MANSI SAHU	6268814817	
12	NAVANI SONI	7225917988	
13	NILIMA DEWANGAN	9826152203	
14	NIRJALA YADAV	8435784155	
15	PALLAVI CHANDRAKAR	7999338502	
16	POOJA THAKUR	9343479774	
17	RASHMI NAYAK	9399768764	
18	RESHMA	9098048897	
19	ROHIT KUMAR	7440632166	
20	SEJAL DEWANGAN	6260798482	
21	SHREYA VISHWAKARMA	7999745140	
22	SMRITI VERMA	7354320260	
23	SNEHA AGRAWAL	9926704750	
24	SUMAN SAHU	7771048054	
25	SUMAN YADAV	9754159380	
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5	NIKITA KAWRE	7772902588	
6	RUCHITA SAHU	8120677145	
7	UPASANA THAKUR	7746036915	
8	VEENA SAHU	7723972395	

List of Electrician Tools

Screwdriver

Splice Connector

Wire Stripper

Tap Measure

Plier

Voltage Tester

Electric Tape

Voltmete

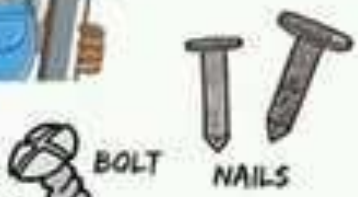
Level

Fish Tap

Retardant Shirt

Safety Gloves

TOOLS & EQUIPMENT


BOLT

NAILS


SCREWDRIVER


HANDSAW


BRADAWL


BACKSAW


NUT


SCREWS

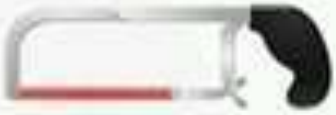

WRENCH


COPING SAW


MALLET

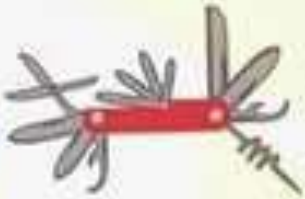

HAMMER


ADJUSTABLE WRENCH


HACKSAW


PIPE WRENCH


SPIRIT LEVEL


POCKETKNIFE


A PAIR OF SCISSORS


CHAINSAW


TOOLBOX


CORDLESS DRILL


BRACE


LINEMAN'S PLIERS

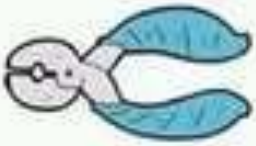

NEEDLE NOSE PLIERS


TAPE MEASURE


PLUNGER


ELECTRIC DRILL


CORKSCREW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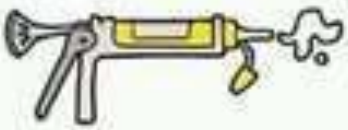
CAULKING GUN


SLIP JOINT PLIERS

Photograph


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GPS Map Camera
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Google


Galaxy A15 5G


GPS Map Camera
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GPS Map Camera
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Kalibadi, Kalibadi, Janta Colony, Raipur,
Chhattisgarh 492001, India
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Google

Press Release

PRESS RELEASE

गुरुकुल महिला महाविद्यालय में"बासिक इलाक्ट्रिकल स्किल" पर दो दिवसीय कार्यशाला

पॉजिटिव इंडिया; रायपुर.

गुरुकुल महिला महाविद्यालय कालीबाड़ी रोड, रायपुर के विज्ञान विभाग द्वारा दो दिवसीय कार्यशाला का आयोजन किया गया। कार्यशाला YVV टेक्नोलॉजी द्वारा NEP,SEC के पाठ्यक्रमानुसार बेसिक इलेक्ट्रिकल स्किल पर आयोजित की गई। कार्यशाला में व्हाय वी व्हाय टेक्नोलॉजी के संस्थापक श्री याज्ञवल्क्य देवांगन उपस्थित हुए। इस कार्यशाला के प्रथम दिवस में छात्राओं को बेसिक इलेक्ट्रिकल टूल्स जैसे मल्टीमीटिया, कैथोड रे, ऑस्किलोस्कोप,मैकेनिकल टूल्स जैसे स्क्रूड्राइवर,पाना, रेजर ब्लेड, इलेक्ट्रिकल ड्रिल सोल्डिंग आयरन के अनुप्रयोग को समझाया गया। कार्यशाला के द्वितीय दिन एक्सटेंशन बोर्ड के डिजाइन और कंस्ट्रक्शन को सिखाया गया तथा पंखा केतली इलेक्ट्रिक प्रेस तथा कलर की रिपेयरिंग करना सिखाया गया। छात्राओं ने प्रशिक्षण के दौरान प्रशिक्षक से कार्यशाला से संबंधित कई प्रश्न पूछे जिनका समाधान किया गया। महाविद्यालय की छात्राओं प्राध्यापकों प्राचार्य की उपस्थिति में कार्य संपन्न हुआ। कार्यक्रम का संचालन डॉ अनुराधा गुप्ता के द्वारा किया गया।

रायपुर

गुरुकुल महिला महाविद्यालय कालीबाड़ी रोड, रायपुर के विज्ञान विभाग द्वारा दो दिवसीय कार्यशाला का आयोजन किया गया।

उमा वाणी न्यूज

Uma Vani · 23 hours ago · 39 · 1 minute read

रायपुर उमा वाणी न्यूज

गुरुकुल महिला महाविद्यालय कालीबाड़ी रोड, रायपुर के विज्ञान विभाग द्वारा दो दिवसीय कार्यशाला का आयोजन किया गया।

कार्यशाला YVY टेक्नोलॉजी द्वारा NEP,SEC के पाठ्यक्रमानुसार बेसिक इलेक्ट्रिकल स्किल पर आयोजित की गई।

कार्यशाला में व्हाय वी व्हाय टेक्नोलॉजी के संस्थापक श्री याज्ञवल्क्य देवांगन उपस्थित हुए। इस कार्यशाला के प्रथम दिवस में छात्राओं को बेसिक इलेक्ट्रिकल टूल्स जैसे मल्टीमीडिया, कैथोड रे, ऑस्किलोस्कोप,मैकेनिकल टूल्स जैसे स्क्रूड्राइवर,पाना, रेजर ब्लेड, इलेक्ट्रिकल ड्रिल सोल्डिंग आयरन के अनुप्रयोग को समझाया गया।

कार्यशाला के द्वितीय दिन एक्सटेंशन बोर्ड के डिजाइन और कंस्ट्रक्शन को सिखाया गया तथा पंखा केतली इलेक्ट्रिक प्रेस तथा कलर की रिपेयरिंग करना सिखाया गया। छात्राओं ने प्रशिक्षण के दौरान प्रशिक्षक से कार्यशाला से संबंधित कई प्रश्न पूछे जिनका समाधान किया गया। महाविद्यालय की छात्राओं प्राध्यापकों प्राचार्य की उपस्थिति में कार्य संपन्न हुआ। कार्यक्रम का संचालन डॉ अनुराधा गुप्ता के द्वारा किया गया।

home / खोजें / प्रेस विज्ञप्ति / गुरुकुल महिला महाविद्यालय के विज्ञान विभाग द्वारा दो दिवसीय कार्यशाला

प्रेस विज्ञप्ति

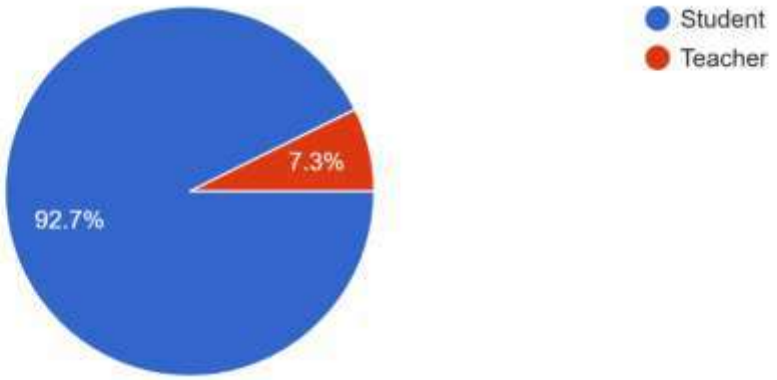
गुरुकुल महिला महाविद्यालय के विज्ञान विभाग द्वारा दो दिवसीय कार्यशाला

Admin मार्च 19, 2025 - 14:54

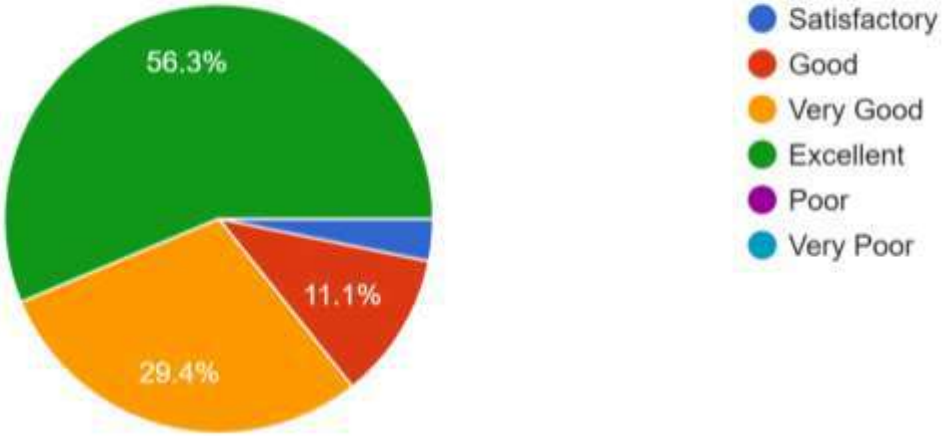
गुरुकुल महिला महाविद्यालय कालीबाड़ी रोड, रायपुर के विज्ञान विभाग द्वारा दो दिवसीय कार्यशाला का आयोजन किया गया। कार्यशाला YVY टेक्नोलॉजी द्वारा NEP,SEC के पाठ्यक्रमानुसार बेसिक इलेक्ट्रिकल स्किल पर आयोजित की गई। कार्यशाला में व्हाय वी व्हाय टेक्नोलॉजी के संस्थापक श्री याज्ञवल्क्य देवांगन उपस्थित हुए। इस कार्यशाला के प्रथम दिवस में छात्राओं को बेसिक इलेक्ट्रिकल टूल्स जैसे मल्टीमीडिया, कैथोड रे, ऑस्किलोस्कोप,मेकेनिकल टूल्स जैसे स्क्रूड्राइवर,पाना, रेजर ब्लेड, इलेक्ट्रिकल ड्रिल सोल्डिंग आयरन के अनुप्रयोग को समझाया गया। कार्यशाला के द्वितीय दिन एक्सटेंशन बोर्ड के डिजाइन और कंस्ट्रक्शन को सिखाया गया तथा पंखा केतली इलेक्ट्रिक प्रेस तथा कलर की रिपेयरिंग करना सिखाया गया। छात्राओं ने प्रशिक्षण के दौरान प्रशिक्षक से कार्यशाला से संबंधित कई प्रश्न पूछे जिनका समाधान किया गया। महाविद्यालय की छात्राओं प्राध्यापकों प्राचार्य की उपस्थिति में कार्य संपन्न हुआ। कार्यक्रम का संचालन डॉ अनुराधा गुप्ता के द्वारा किया गया।

FEEDBACK

DESIGNATION

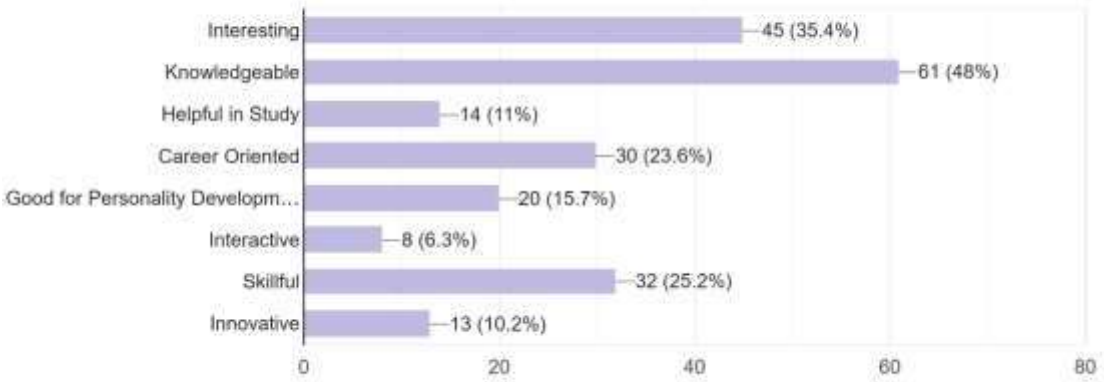


The Event Program is

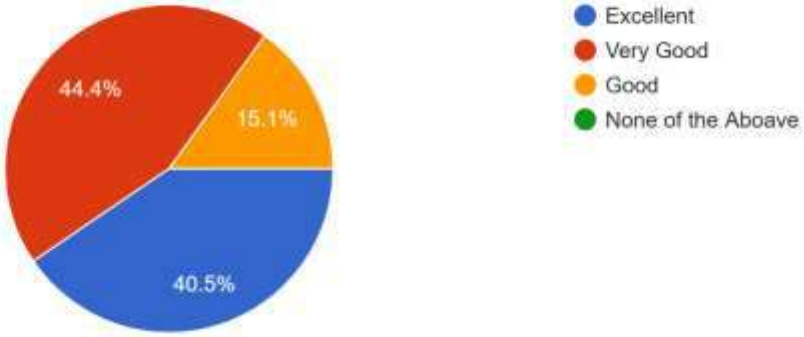


What good about program

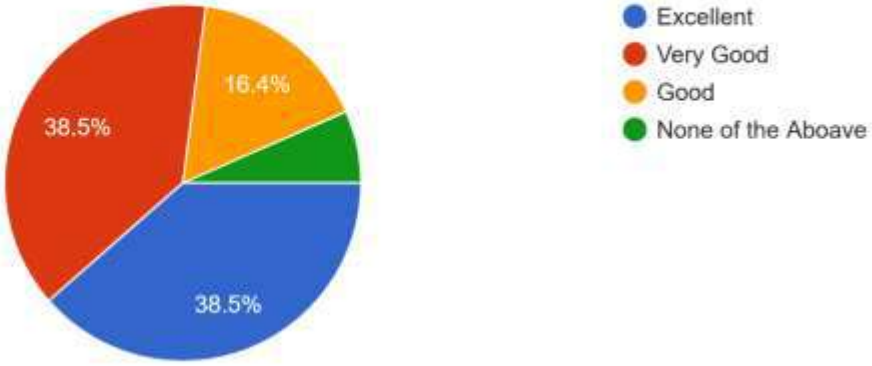
127 उत्तर



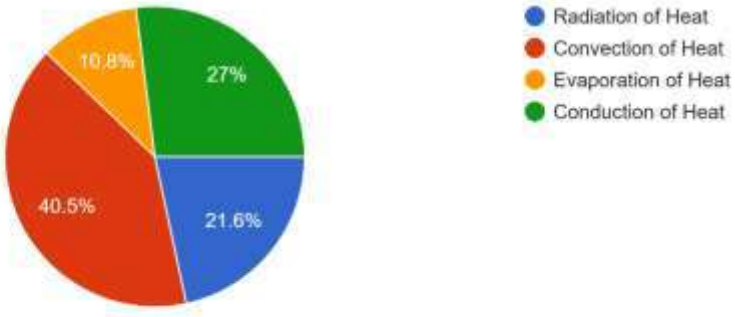
After The Workshop, How inspired did you feel?



What improvements you suggests for the events



In the working of Fan, Cooler - The primary principles is based on



Certificate


THANK YOU

GURUKUL MAHILA MAHAVIDYALAYA

KALIBADI ROAD, RAIPUR (C.G.)

WORKSHOP ON

Gardening & Floriculture

Session 2024-25

Department of Science

Gurukul Mahila Mahavidyalaya, Raipur (C.G.)

CONTENTS

WORKSHOP ON

Gardening & Floriculture

Date: 07/04/2025 - 08/04/2025

Venue: Nature Care Nurser, VIP Road, Vishal Nagar,Raipur

Proposal

PROPOSAL FOR SKILL DEVELOPMENT IN GARDENING AND FLORICULTURE (BOTANY)

This proposal outlines a plan to take a group of 17 students to a local nursery for hands-on-training and certification.

OBJECTIVES:

1)To provide students with practical experience in gardening and floriculture.
2)To develop skills in plant care, propagation and maintenance.
3)To enhance students knowledge of different plant species and their uses.

DETAILS:

- **Destination- Nature Care Nursery (Garden Center)**
- **Address- VIP Road, Vishal Nagar, Raipur (C.G.)**
- **Number of Students- 17**
- **Duration- 3 Days (9:00 am to 11:30 am)**

EXPENSES:

- Transportation- we request the institution to cover the transportation costs for the students.
- We request the institution to contribute 500/- Rupees towards training and certification fees.

Thankyou

Sincerely,
Ankita Singh
Assistant Professor

Attendance sheet

Gurukul Mahila Mahavidyalaya

Kalibadi Road, Raipur (C.G.)

Email : info@gurukulraipur.com, web : www.gmma.ac.in

B+ NAAC

Session : 2024-25

Training Program on Gardening & Floriculture Date 07/04/2025

Attendance Sheet

S.N.	Name of Candidate	Class	Mobile No.	Signature
1.	ANJALI MAHANAND	B.Sc II Sem	9589721290	
2.	BHARTI RATRE	B.Sc II Sem	7804913800	
3.	DULESHWARI RAGHUWANSHI	B.S.C II Sem	9109258887	
4.	HIMANI THAKUR	B.Sc IInd Sem	9302882470	
5.	HIMANSHI SAHU	B.Sc II sem	9644266629	
6.	HIMANSHU NIRMALKAR			
7.	JAGRITI SINHA	B.Sc II Sem	8815685861	
8.	KHUSHBOO DEEP	B.Sc II sem	9109233100	
9.	KHUSHI DEWANGAN	B.Sc- II sem	8269915733	
10.	KUMKUM SAHU	BSc II Sem	8817113721	
11.	MAMTA BAIS	BSc IInd Sem.	8839916315	
12.	MANSI PATEL	BSc II Sem	7999626098	
13.	MONIKA UPADHAYAY	BSc II Sem	9285280651	
14.	NEHA PRADHAN	B.Sc 2nd Sem.	7067671867	
15.	NIDA KHAN	B.Sc 2nd Sem	8959272561	
16.	PRACHI SAHU	B.Sc IInd Sem	7898558511	
17.	PRARTHNA NARANG	BSc II. Sem	8269151684	
18.	PREETY PATEL			
19.	PRINCY THAKUR	BSc IInd Sem.	9111057882	
20.	RAJESH PATEL	BSc IInd Sem.	9303063553	

Attendance sheet

S.N.	Name of Candidate	Class	Mobile No.	Signature
21.	RIYA LAHARI	BSc II SEM.	9770971810	
22.	RIYA MARAVI	Bsc. II sem. Bio	9302960064	
23.	ROHINI SAHU	BSC II SEM	9340888460	
24.	RUDRAKSHEE MARKAM	BSC II. SEM	9302505167	
25.	SHAKUNTALA	BSC II Sem	6261741579	
26.	SHODSHI YADAV	BSc II sem	8319171047	
27.	SHRUTI PAINKARA	ABSENT		
28.	SHWETA SAHU	ABSENT		
29.	SUNIDHI SAHU	BSC II. Sem	8319130617	
30.	TARUNA VISHWASH			
31.	VEENA GOSWAMI	BSC II Sem	8770582174	
32.	VINITA	B.Sc. II Semester	8770558509	

Attendance sheet

Gurukul Mahila Mahavidyalaya

Kalibadi Road, Raipur (C.G.)

Email : info@gurukulraipur.com, web : www.gmma.ac.in

B+ NAAC

Session : 2024-25

Training Program on Gardening & Floriculture Date 08/04/2025

Attendance Sheet

S.N.	Name of Candidate	Class	Mobile No.	Signature
1.	ANJALI MAHANAND	B.Sc Bio II Sem	9589721290	Anjali
2.	BHARTI RATRE	B.Sc Bio II Sem	7804913300	Bharti
3.	DULESHWARI RAGHUWANSHI	B.Sc Bio 2II Sem	9109258887	Duleshwari
4.	HIMANI THAKUR	B.Sc Bio IInd Sem	9302882470	Himani
5.	HIMANSHI SAHU	B.Sc II Sem	9644266629	himanshi
6.	HIMANSHU NIRMALKAR	BSC Bio 2nd semester	9301779049	Himanshu
7.	JAGRITI SINHA	Bsc Bio 2nd Sem	8815685861	Jagriti S.
8.	KHUSHBOO DEEP	B.Sc Bio 2nd sem	9109233100	Kaur
9.	KHUSHI DEWANGAN	B Sc. II sem	8269915733	K
10.	KUMKUM SAHU	BSC II sem.	8817113721	Sahu
11.	MAMTA BAIS	BSC IInd sem.	8839916315	Mamta
12.	MANSI PATEL	BSC IInd sem.	7999626098	MansiPatel
13.	MONIKA UPADHAYAY	Bsc II Sem.	9285280651	
14.	NEHA PRADHAN	B.Sc 2nd Sem	7067671867	
15.	NIDA KHAN	B.Sc 2nd Sem	8959272561	N.Khan
16.	PRACHI SAHU	B.Sc II sem	7898553511	Sahu
17.	PRARTHNA NARANG	BSC IInd sem.	8269151684	
18.	PREETY PATEL	BSC IInd Sem	6261255804	Preety
19.	PRINCY THAKUR	B.Sc IInd Semester	9111057882	Princy
20.	RAJESH PATEL	B.Sc IInd Semester	9303063853	Rajesh

Attendance sheet

S.N.	Name of Candidate	Class	Mobile No.	Signature
21.	RIYA LAHARI	BSc II SEM.	7740971810	Riya.
22.	RIYA MARAVI	BSc II sem. Bio	9302960064	Riya.
23.	ROHINI SAHU			
24.	RUDRAKSHEE MARKAM	B.S.C IInd Sem	9302505167	
25.	SHAKUNTALA	B.S.C. IInd Sem	6261741579	Shakuntala
26.	SHODSHI YADAV	BSc I sem	8319171047	Shodshi
27.	SHRUTI PAINKARA	ABSENT		
28.	SHWETA SAHU	ABSENT		
29.	SUNIDHI SAHU	BSC IInd Sem Sunidhi		Sunidhi
30.	TARUNA VISHWASH			
31.	VEENA GOSWAMI	BSC II Sem	8770582171	Veena
32.	VINITA	BSc II sem.	8770558509	Vinita

Attendance sheet

Gurukul Mahila Mahavidyalaya

Kalibadi Road, Raipur (C.G.)

Email : info@gurukulraipur.com, web : www.gmma.ac.in

B+ NAAC

Session : 2024-25

Training Program on Gardening & Floriculture Date 09/04/2025

Attendance Sheet

S.N.	Name of Candidate	Class	Mobile No.	Signature
1.	ANJALI MAHANAND	B. Sc. II Sem	9589721230	Anjali
2.	BHARTI RATRE			
3.	DULESHWARI RAGHUWANSHI			
4.	HIMANI THAKUR	B.Sc IInd Sem	9302882470	Himani
5.	HIMANSHI SAHU	B.Sc II sem	3644266629	himanshi
6.	HIMANSHU NIRMALKAR			
7.	JAGRITI SINHA	Bsc Bio II Sem	8815685861	
8.	KHUSHBOO DEEP	B.Sc Bio II sem	9109233100	
9.	KHUSHI DEWANGAN	Bsc Bio II sem	8269915733	
10.	KUMKUM SAHU	BSc II Sem.	8817113721	
11.	MAMTA BAIS	B.Sc IInd Sem.	8839916315	Mamta
12.	MANSI PATEL	BSc II Sem Bio	7999626098	
13.	MONIKA UPADHAYAY	Bsc II Sem	9285280651	
14.	NEHA PRADHAN			
15.	NIDA KHAN	B.Sc II Sem	8959272561	N.khan
16.	PRACHI SAHU	B Sc II Sem	7698553511	
17.	PRARTHNA NARANG	BSc II sem	8269151684	
18.	PREETY PATEL			
19.	PRINCY THAKUR	B.Sc IInd sem	9111057882	
20.	RAJESH PATEL	Bsc IInd Sumester	9303063853	

Attendance sheet

S.N.	Name of Candidate	Class	Mobile No.	Signature
21.	RIYA LAHARI	BSc II SEM.	7740971810	Riya.
22.	RIYA MARAVI	BSc II sem. Bio	9302960064	Riya.
23.	ROHINI SAHU			
24.	RUDRAKSHEE MARKAM	B.S.C IInd Sem	9302505167	
25.	SHAKUNTALA	B.S.C. IInd Sem	6261741579	Shakuntala
26.	SHODSHI YADAV	BSc I sem	8319171047	Shodshi
27.	SHRUTI PAINKARA	ABSENT		
28.	SHWETA SAHU	ABSENT		
29.	SUNIDHI SAHU	BSC IInd Sem Sunidhi		Sunidhi
30.	TARUNA VISHWASH			
31.	VEENA GOSWAMI	BSC II Sem	8770582171	Veena
32.	VINITA	BSc II sem.	8770558509	Vinita

Scope & Future Aspects

GARDENING:

Gardening is the practice of cultivating and nurturing plants, often for food, recreation, or aesthetic purposes. It involves activities like:

- Planting and maintaining fruits, vegetables, herbs, and flowers
- Soil preparation and management
- Watering, pruning, and pest control
- Harvesting and enjoying the fruits of one's labor

FLORICULTURE:

Floriculture is the cultivation of flowers and ornamental plants for their beauty, fragrance, and aesthetic value. It involves:

- Growing and harvesting flowers, foliage, and other ornamental plants
- Arranging and designing floral displays
- Breeding and developing new plant varieties
- Marketing and selling flowers and plants for decorative purposes

Both gardening and floriculture offer numerous benefits, including:

- Relaxation and stress relief
- Fresh produce and beautiful flowers
- Opportunities for entrepreneurship and creativity
- Connection with nature and community

These fields can be pursued as hobbies, careers, or simply as a way to enhance one's surroundings and well-being.

Scope & Future Aspects

The scope of gardening and floriculture is vast and diverse, encompassing various aspects such as:

GARDENING:

1. Food production
2. Therapeutic benefits
3. Landscaping and design
4. Entrepreneurship
5. Research and development

FLORICULTURE:

1. Cut flower industry
2. Ornamental plant production
3. Floral design
4. Event planning
5. Breeding and hybridization

COMMON SCOPE:

1. Sustainable practices
2. Community development
3. Education and training
4. Tourism and recreation
5. Economic opportunities

Scope & Future Aspects

The future of gardening and floriculture looks promising, with several trends and innovations shaping the industry. Here are some future aspects:

GARDENING:

1. Vertical farming
2. Hydroponics and soilless cultivation
3. Smart gardening
4. Sustainable practices
5. Urban agriculture

FLORICULTURE:

1. New plant varieties
2. Floral design technology
3. Sustainable floriculture
4. E-commerce and online sales
5. Experiential marketing

COMMON FUTURE ASPECTS:

1. Increased focus on sustainability
2. Technology integration
3. Growing demand for local and organic produce
4. Wellness and therapeutic benefits
5. Innovative business models

Training photographs

Training photographs

Training photographs

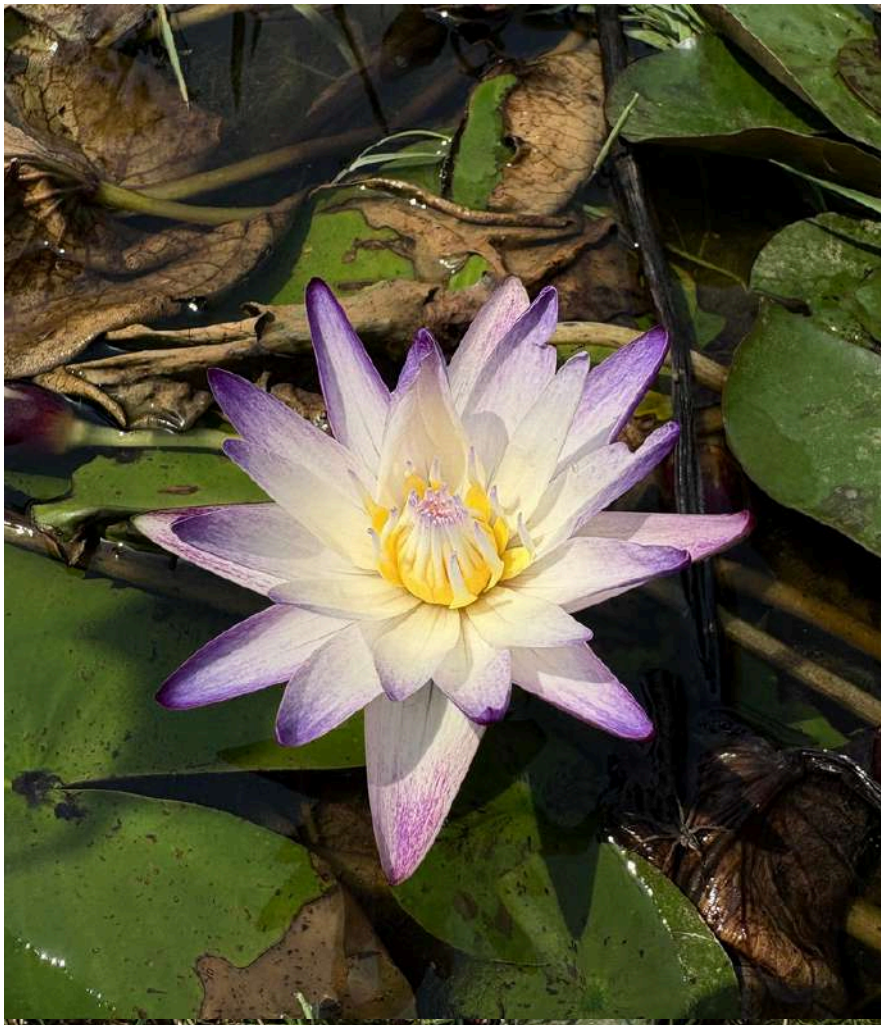
Training photographs

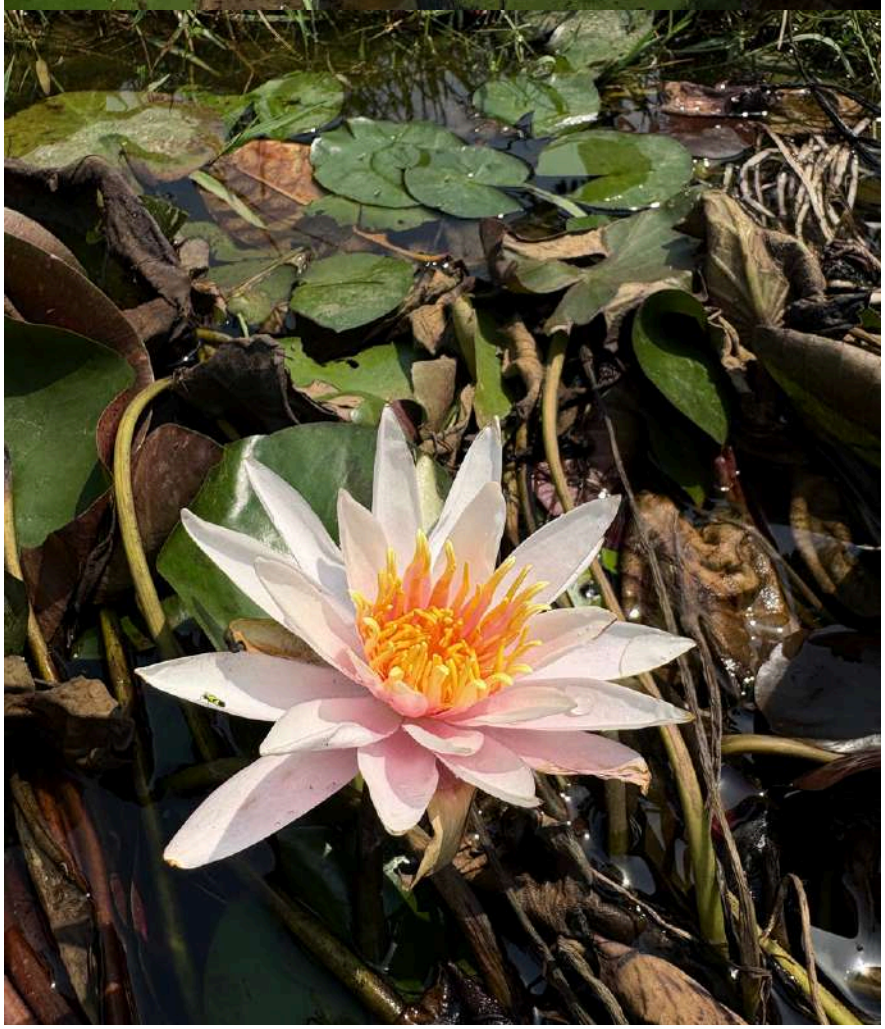
Training photographs

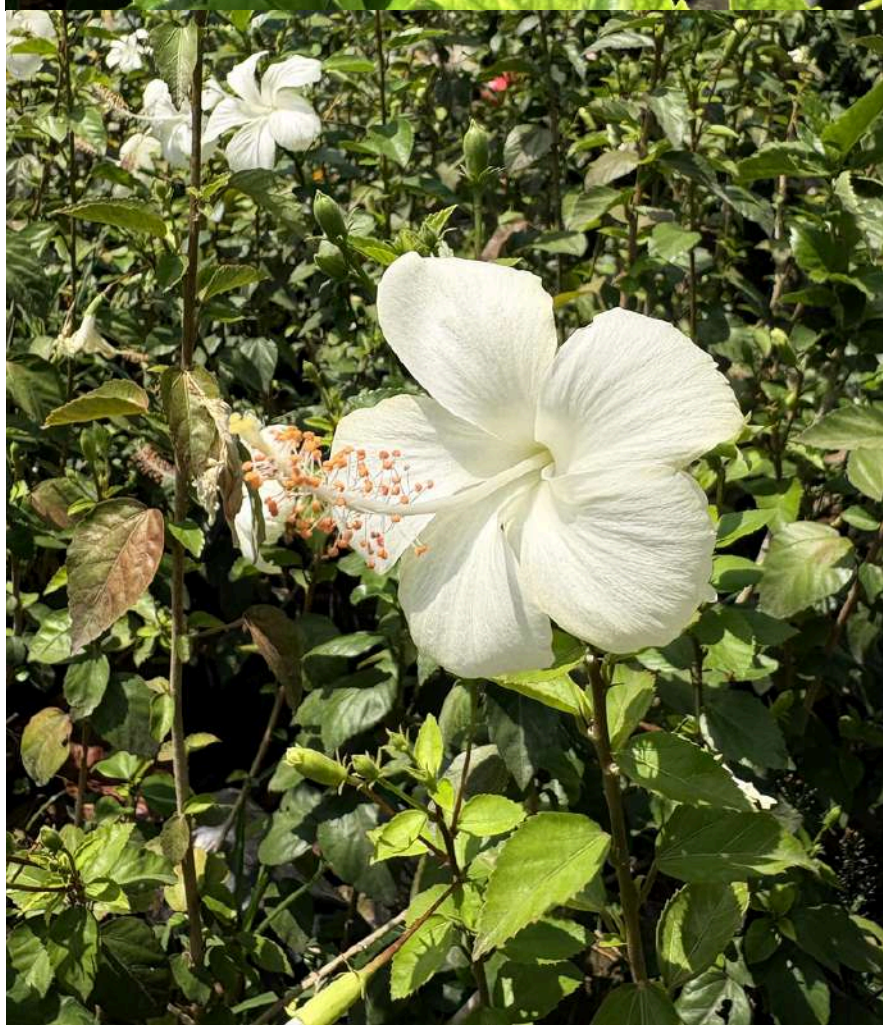
Training photographs

Training photographs

Training photographs







Training photographs

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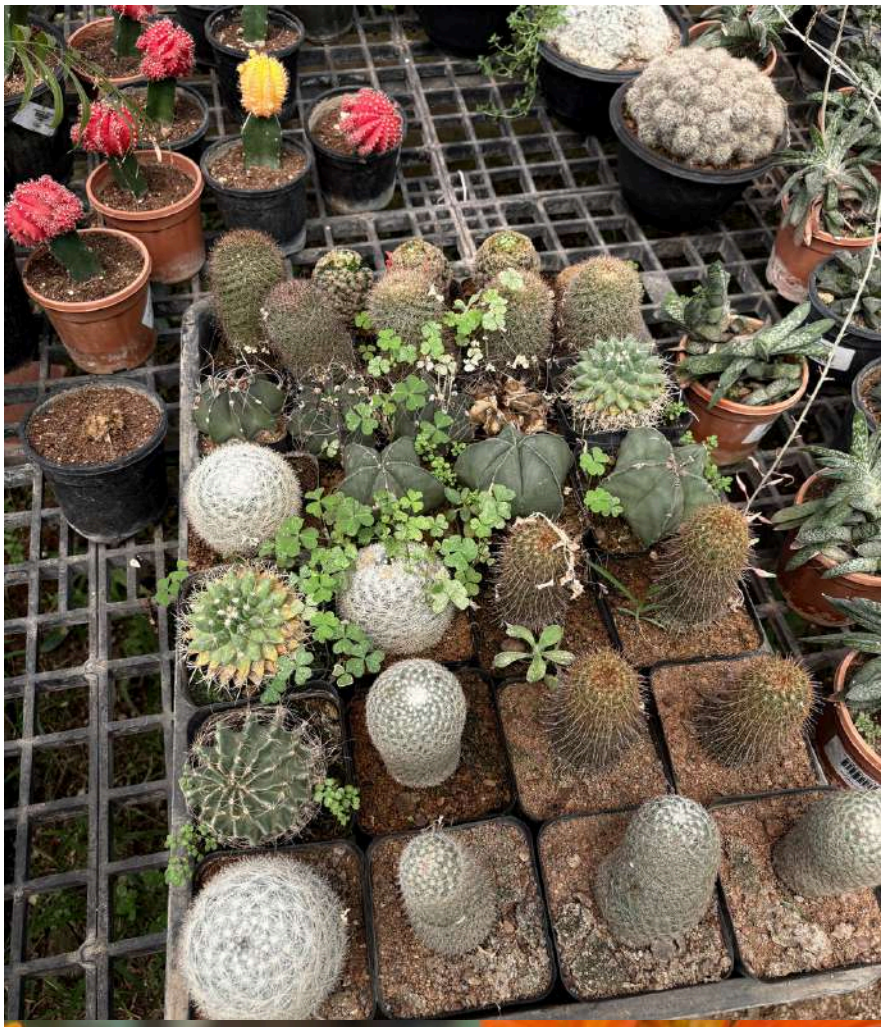

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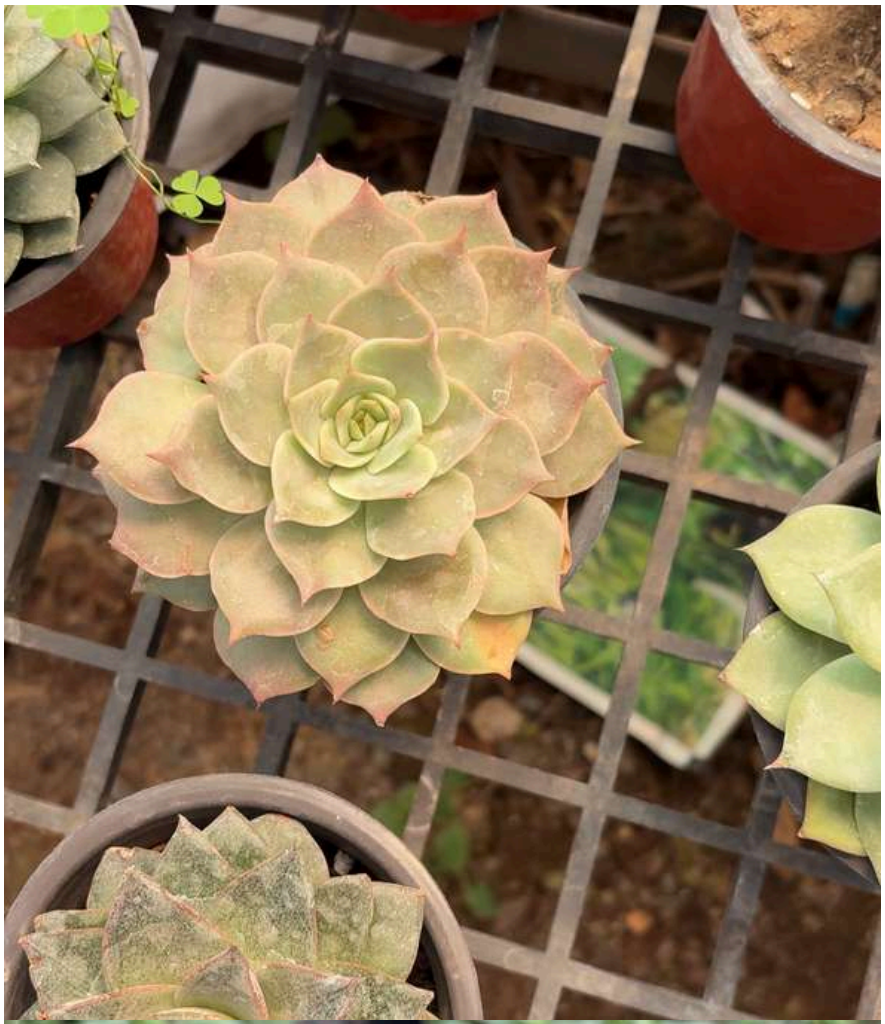

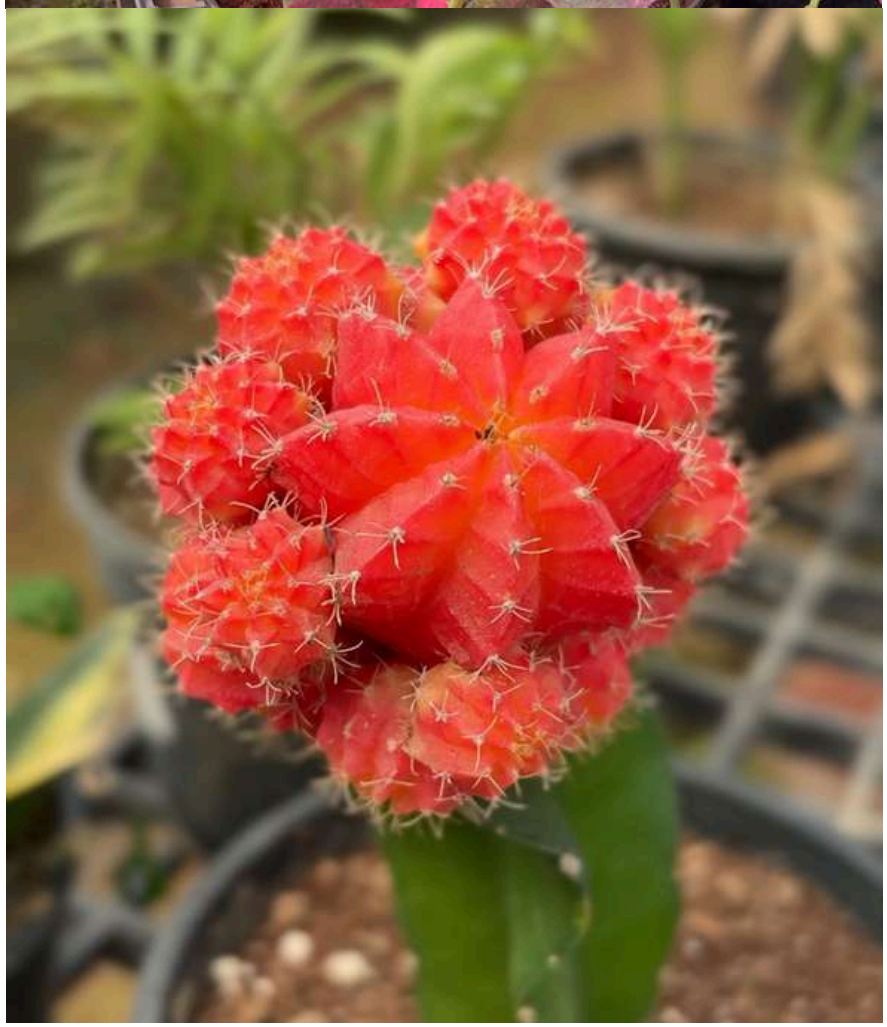

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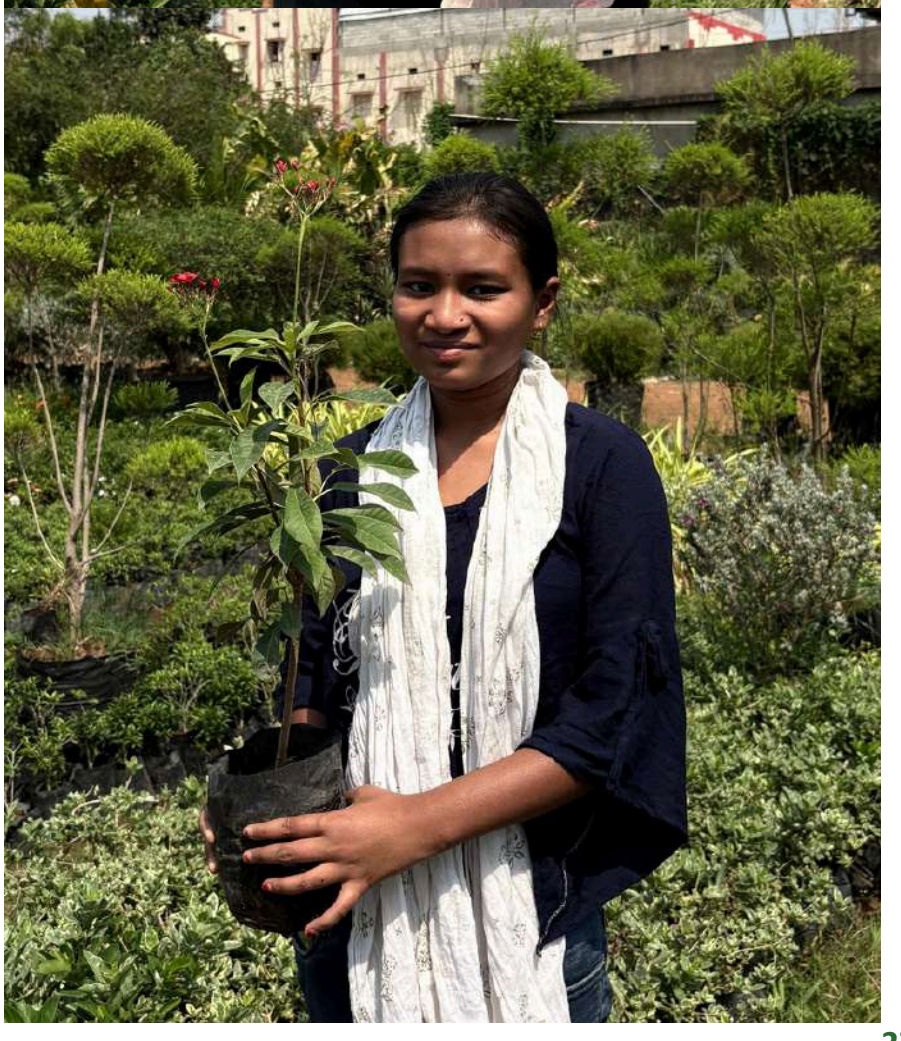

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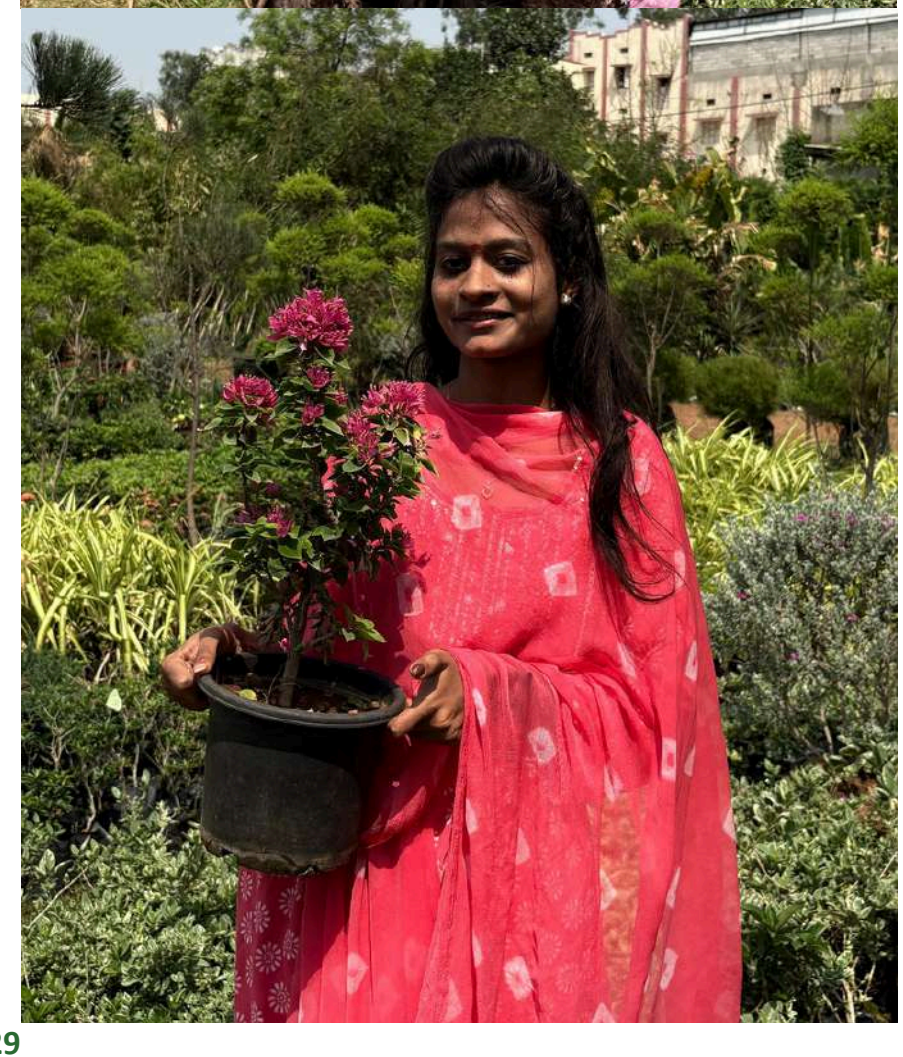
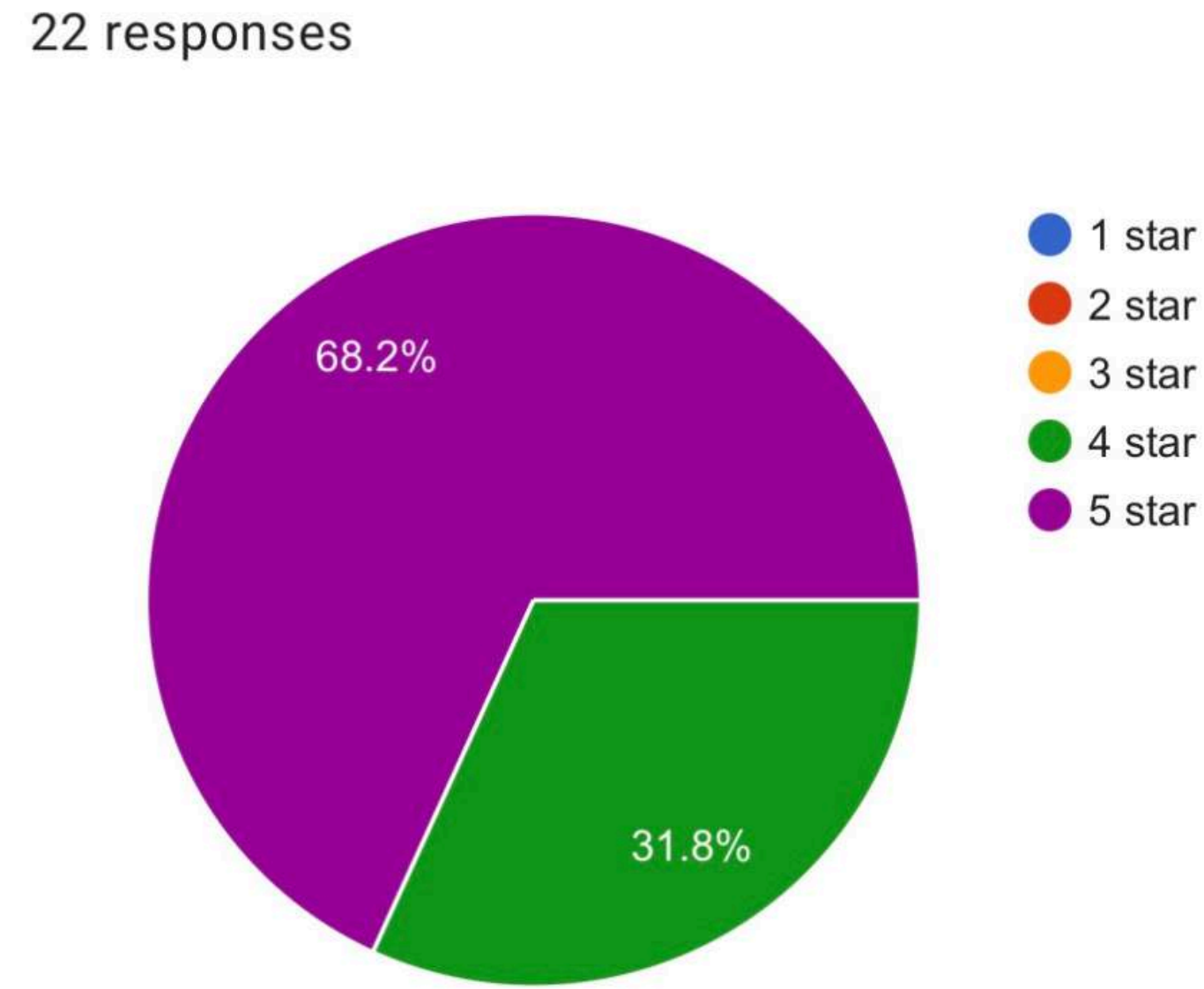


Training photographs

Training photographs

Feedback

Rate the training (1-5) and provide any additional comments.



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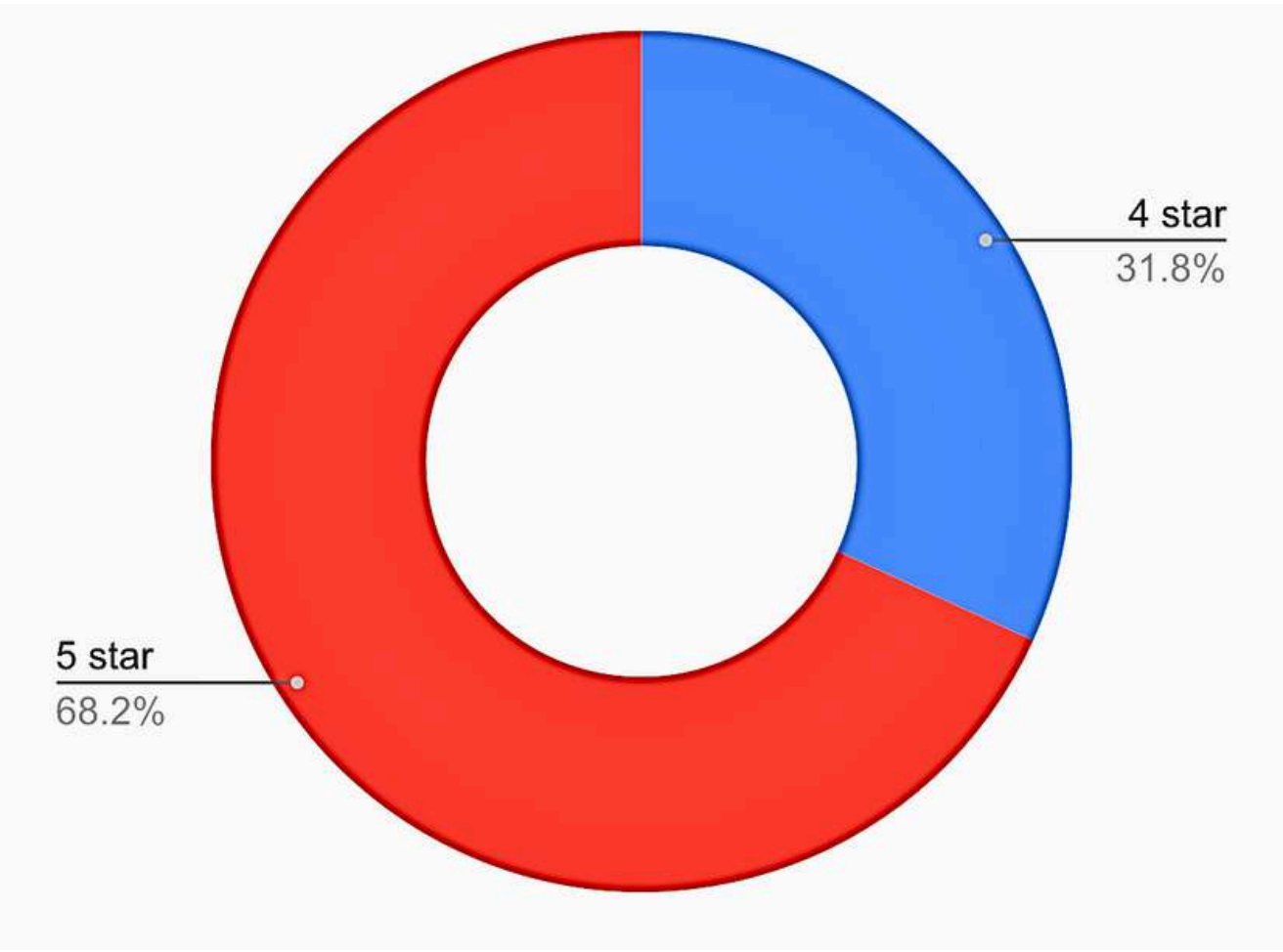

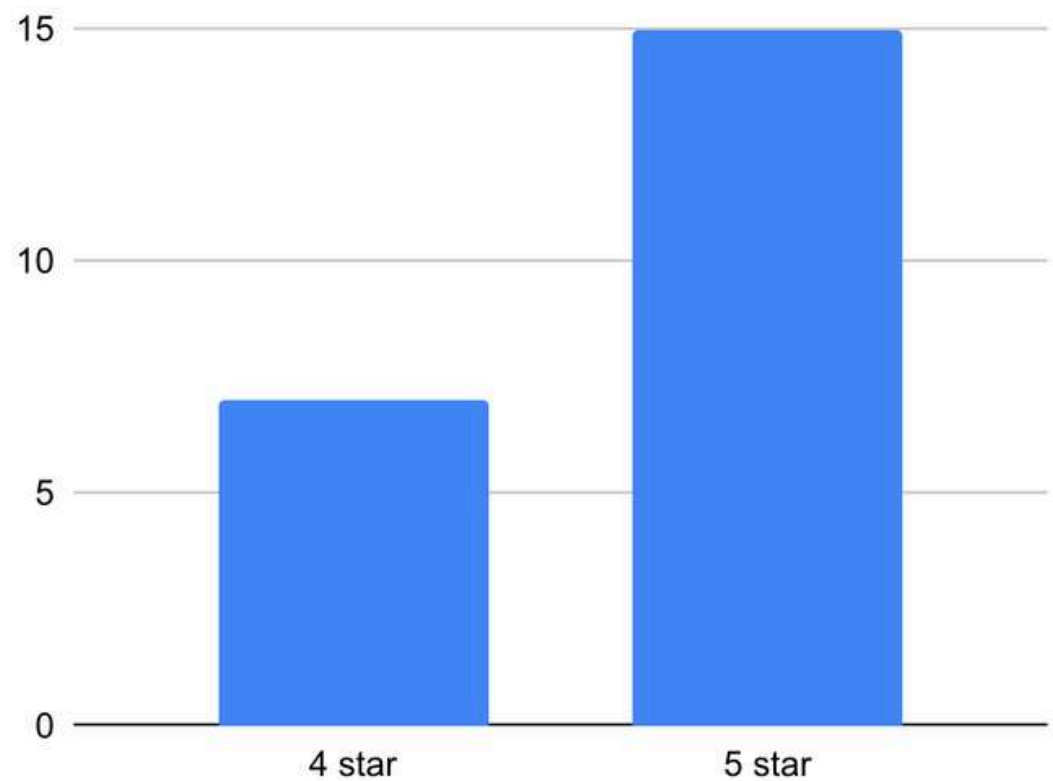

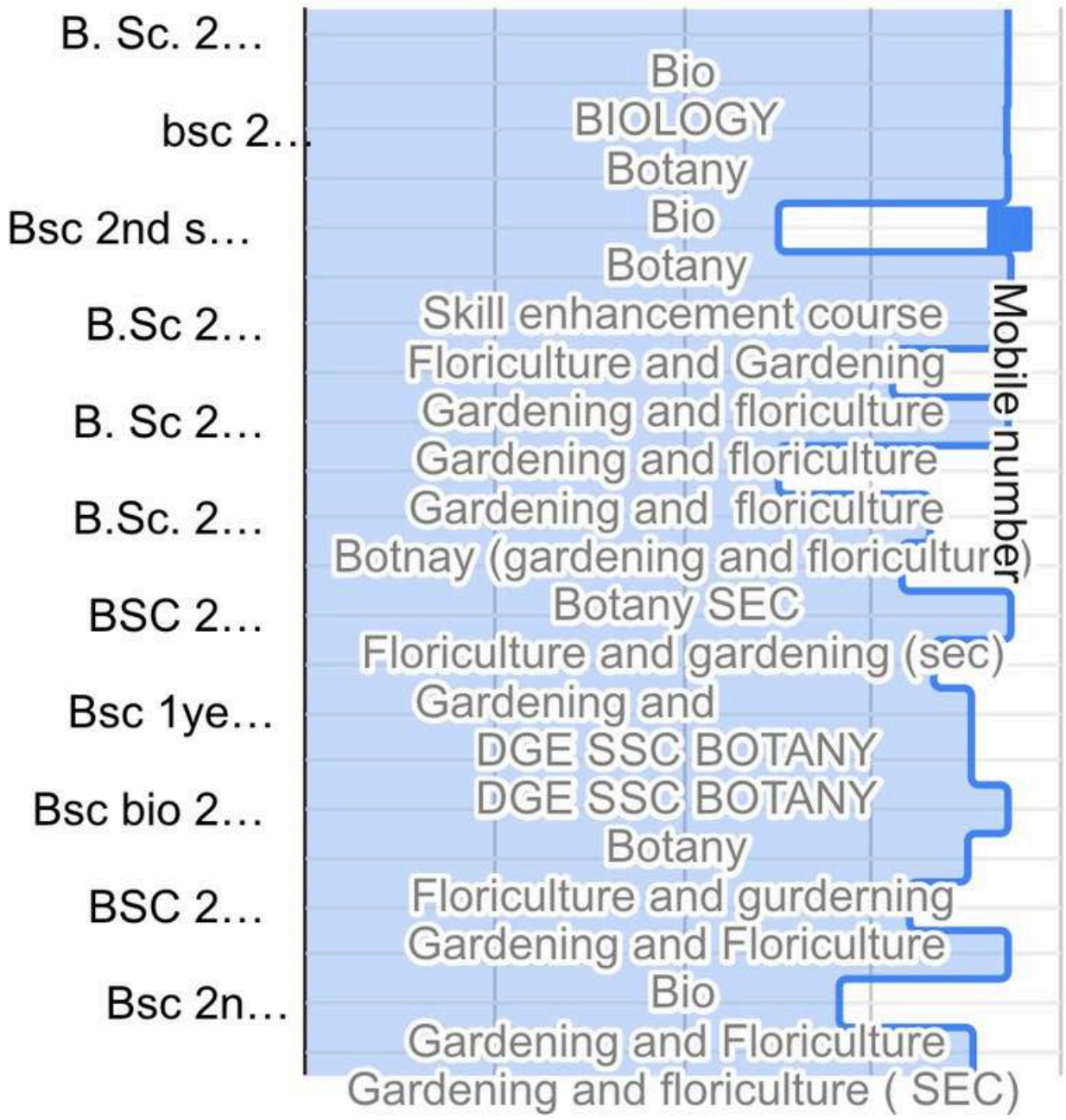
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Certificate

GURUKUL MAHILA MAHAVIDYALAYA
Kalibadi Road, Raipur (C.G.)

ACCREDITED WITH GRADE B+ NAAC

Gardening & Floriculture

CERTIFICATE

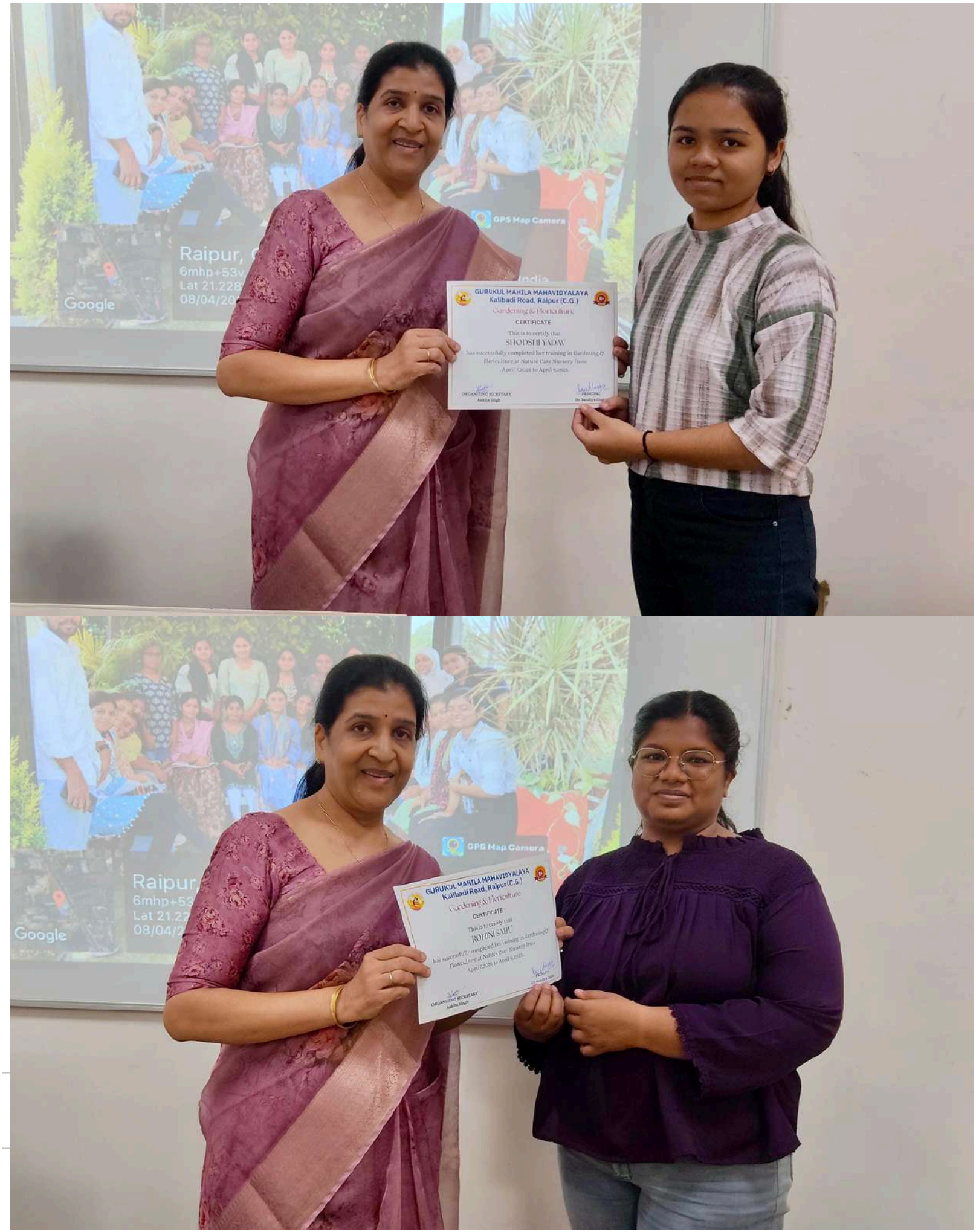
This is to certify that

has successfully completed her training in Gardening & Floriculture at Nature Care Nursery from April 7,2025 to April 9,2025.

ORGANIZING SECRETARY
Ankita Singh

PRINCIPAL
Dr. Sandhya Gupta

Certificate Distribution



Certificate Distribution

Certificate Distribution

Press Release

"गुरुकुल महिला महाविद्यालय, कालीबाड़ी रोड, रायपुर के विज्ञान विभाग द्वारा तीन दिवसीय कार्यशाला का आयोजन किया गया। कार्यशाला में स्किल एन्हांसमेंट कोर्स के अंतर्गत नेचर केयर नर्सरी में गार्डनिंग एंड फ्लोरीकल्चर पर प्रशिक्षण कार्यक्रम आयोजित किया गया। इस कार्यशाला में छात्राओं ने बागवानी में उपयोग होने वाले विभिन्न औजारों, मिट्टी के पैटर्न, फर्टिगेशन तथा लेयरिंग, कटिंग एवं ग्राफ्टिंग जैसी विभिन्न विधियों के बारे में जानकारी प्राप्त की। व्यावहारिक प्रशिक्षण छात्राओं के लिए अत्यधिक लाभकारी सिद्ध हुआ, जिससे उन्हें व्यावहारिक कौशल प्राप्त हुआ, जिसे वे अपने दैनिक जीवन में लागू कर सकती हैं। कार्यशाला की कार्यक्रम प्रभारी अंकिता सिंह थीं।"कार्यक्रम महाविद्यालय की प्राचार्य डॉक्टर संध्या गुप्ता के नेतृत्व में किया गया।

Press Release

गार्डन केयर: बेकिंग सोडा और सिरका से करें मिट्टी की अम्लीय जांच, बुलबुले आएं तो मिट्टी अच्छी है

सिटी रिपोर्टर . रायपुर

कालीबाड़ी रोड स्थित गुरुकुल महिला महाविद्यालय में स्किल इनहांसमेंट कोर्स के तहत तीन दिवसीय वर्कशॉप का आयोजन किया गया। आखिरी दिन नेचर केयर, नर्सरी में गार्डनिंग एंड फ्लोरीकल्चर पर ट्रेनिंग दी गई। इसके लिए स्टूडेंट्स को विशाल नगर स्थित नर्सरी विजिट कराया गया। यहां एक्सपर्ट अंकिता सिंह ने बताया कि अच्छी बागवानी के लिए औजारों, मिट्टी के पैटर्न, कटिंग, ग्राफ्टिंग की जानकारी होनी चाहिए। अच्छी मिट्टी में रेत, गाद और मिट्टी का सही मिश्रण जरूरी है। यह पौधों की वृद्धि के लिए आवश्यक है। दोमट मिट्टी, जो लगभग 40% रेत, 40% गाद और 20% मिट्टी से बनी होती है, पौधों के लिए सबसे अच्छी होती है। मिट्टी का पीएच स्तर भी जानना चाहिए। अधिकांश पौधे 6.0 से 7.0 pH की अम्लीयता में अच्छे से पनपते हैं। घर पर भी इसकी जांच की जा सकती है। व्हाइट सिरका और बेकिंग सोडा मिट्टी में मौजूद अम्लता और क्षारीयता को बताता है। अगर इन्हें मिट्टी में मिलाने से बुलबुले आते हैं तो मिट्टी अम्लीय और क्षारीय है।

चार प्रकार की कटिंग

स्टेम कटिंग यानी तने के हिस्से से की गई कटिंग। लीव कटिंग यानी पत्तियों से की गई कटिंग। रूट कटिंग यानी जड़ों से की गई कटिंग। पौधों की ग्रोथ और जरूरत पर निर्भर करता है कि उनकी कटिंग कैसी करनी है। फिलहाल गर्मी के मौसम में लीव कटिंग की जाती है। ताकि पौधा में सिर्फ तना बना रहे और भीषण गर्मी को झेल सके और जीवित रहे। बरसात शुरू होते ही नई पत्तियां आ जाती हैं। पौधों के लिए नर्सरी केयर के औजार यूज करना चाहिए, ताकि वो पौधों को क्षति ना पहुंचाएं। इस मौके पर महाविद्यालय की प्राचार्या डॉक्टर संध्या गुप्ता सहित अन्य मौजूद रहे।

Thank You

Gurukul Mahila Mahavidyalaya

Kalibadi Road, Raipur (C.G.)
Email :info@gurukulraipur.com, Web : www.gmm.ac.in

ACCREDITED WITH GRADE B+ NAAC

DEPARTMENT OF SCIENCE

Skill Enhancement Course (SEC)

One Day Workshop and Study Tour
On
Vermiculture and Vermicomposting

One Day Workshop and Study Tour
On
Vermiculture and Vermicomposting

WORKSHOP Date: 07/04/2025

STUDY TOUR Date: 08/04/2025

INDEX

गुरुकुल महिला महाविद्यालय, रायपुर (छ.ग.)

दिनांक - 5/04/25

सूचना

महाविद्यालयीन प्राध्यापकों एवं कर्मचारियों को सूचित किया जाता है कि दिनांक 07.04.2025 एवं 08.04.2025 को कार्यशाला एवं शैक्षणिक भ्रमण का कार्यक्रम आयोजित किया जायेगा। यह कार्यक्रम विज्ञान विभाग द्वारा आयोजित किया गया है जिसमें सभी विज्ञान विषय के सभी प्राध्यापकों की उपस्थिति अनिवार्य है।

समय : 10:30 बजे

प्रभारी
डॉ. देवश्री वर्मा

नाम	हस्ताक्षर
1. डॉ. मेघा अग्रवाल	
2. डॉ. वंदना अग्रवाल	
3. श्रीमती प्रीति साहू	
4. डॉ. टीनु दुबे	
5. सुश्री अंकिता सिंह	
6. डॉ. आराधना सिंह	
7. डॉ. अनुराधा गुप्ता	
8. डॉ. सीमा चन्द्राकर	
9. डॉ. सिमरन वर्मा	
10. सुश्री प्रिया दुबे	
11. अवनिका सोनी	

Gurukul Mahila Mahavidyalaya

Kalibadi Road, Raipur (C.G.)

Email : info@gurukulraipur.com, Web : www.gmm.ac.in

One Day Workshop and Training Program On Vermiculture and Vermicomposting

Date : 07/04/2025, Day : Monday

Venue : Gurukul Auditorium

Time : 11:00 AM onward

Organised By

Department of Science

Gurukul Mahila Mahavidyalaya

Kalibadi Road, Raipur (C.G.)

Contact Details :-

Patron	Dr. Sandhya Gupta, Principal Email Id : info@gurukulraipur.com
Vice Principal	Dr. Rajesh Agrawal
Organising Secretary	Dr. Devshree Verma Mob. 7828636357 Mrs. Priti Sahu Mob. 7987479867
Conveners	Dr. Vandana Agrawal

Registration Fees

Category	On Spot Registration
Student (UG /PG)	200/-
Faculty Member	200/-

Respected Sir/Madam

We are glad to inform that the Department of Zoology, Gurukul Mahila Mahavidyalaya, Kalibadi Road, Raipur (C.G.) is organizing 1 day workshop and training program on **Vermiculture & Vermicomposting**. We cordially invite the Faculty Members and Students of Higher Education to participate in the above program.

How To Reach The College

Raipur is well connected by Air/Rail/Road transport with different Indian cities. The College is just 4 KM apart from Raipur Railway station, 2 KM from Raipur Interstate Bus Terminal and 14 KM from Raipur Airport. Shared and reserved both kind of local conveyance is available from Railway Station and Interstate Bus Terminal but only reserved vehicles are available from Raipur Airport.

About Gurukul

Gurukul Mahila Mahavidyalaya is founded by late Dr. Arun Kumar Sen in 2001 and located in the heart of the capital city of Chhattisgarh state. Institute is providing education in science, Computer & Commerce at graduation and post-graduation level. It is affiliated to Pt. Ravishankar Shukla University, Raipur and recognized under section 2(f) and 12(b) of UGC. College is accredited with 'B +' grade with 2.68 CGPA by NAAC in year 2022.

About the One Day Workshop

Pt. Ravishankar Shukla University has introduced National Education Policy in HEIs from academic session 2024-25. This policy is based on Choice Based Credit System for multidisciplinary education. The main aim of this policy is to inculcate moral values and skill abilities with education.

According to syllabus Skill Enhancement Course (SEC) is one of the subjects for Second Semester students. It is evident with title of the course that the main purpose of introducing this course is to enhance skill ability of students so that they can develop entrepreneurship capability.

Vermiculture & Vermicomposting is part of curriculum of core subject Zoology. Vermicompost is the product of decomposition process of food waste, garden waste, vegetable peel offs using various species of worms as earthworms, redworms etc. and bedding material.

This process is called **Vermicomposting** and the rearing of worms for this purpose is called **Vermiculture**. Vermicomposting makes nutrient rich "Worm manure" and it is the end-product of the breakdown of organic matter by earthworms.

Students can learn process of vermiculture and vermicomposting in this workshop and can learn about preparation of "Worm manure" which can be easily sold. So that purpose of workshop to train and to make entrepreneurs can be fulfilled.

Registration Form

Name of the Participant .....

Designation .....

University / Institute .....

Email ID .....

Mobile No. .....

Category **Student / Faculty**

Link for Registration

FOUR YEAR UNDERGRADUATE PROGRAM (2024 – 28)
DEPARTMENT OF ZOOLOGY
COURSE CURRICULUM

PART-A: Introduction				
Program: Bachelor in Life Science *(Certificate / Diploma / Degree)*		**Semester – II/IV/V/VI**		**Session: 2024-2025**
1	**Course Code**	**ZOSEC-01**		
2	**Course Title**	**Vermiculture and Vermicomposting**		
3	**Course Type**	**Skill Enhancement Course**		
4	**Pre-requisite** (if, any)	***As per Program***		
5	**Course Learning Outcomes (CLO)**	**After successfully completing this course, the students will be able to:** ➢ Learn the identifiable features of earthworm species for vermiculture and vermicomposting. ➢ Cultivate the skills of vermiculture. ➢ Understand the challenges in vermiculture and vermicomposting. ➢ Analyze the features of different vermicomposting methods. ➢ Create entrepreneurial prospects in this field.		
6	**CreditValue**	**2 Credits (1C + 1C)**	***Credit = 15 Hours –Theoretical learning and = 30 Hours Laboratory or Field learning/Training***	
7	**Total Marks**	**Max.Marks:50**		**Min Passing Marks:20**

PART -B: Content of the Course

Total No. of Teaching–learning Periods:
Theory–15 Periods (15 Hrs) and Lab. or Field learning/Training 30 Periods (30 Hours)

Module	Topics (Course contents)	No. of Period
Theory Contents	**General Introduction:** Distribution and habit, habitat. Food: Phytophagous and Geophagous earthworm. Morphology of earthworm. Ecological categories: Epigeic, Endogeic and Anecic earthworms. Ecological requirements: moisture, temperature, light, pH and, organic matter. Ecosystem services: role played by earthworms in soil ecosystem. Difference between vermiculture and vermicomposting. Role of earthworm and vermicompost in growth of plants. **Vermiculture:** Definition and features. Selective features of earthworms for vermiculture. Vermiculture methods: Wormery, breeding techniques: indoor and outdoor cultures, monoculture and polyculture, merits and demerits. Obstacles in Vermiculture: Preventention and Management. **Vermicomposting:** Definition and features. Scientific names and distinguishing features of native and exotic vermicomposting earthworms (Native Indian earthworms. *Perionyx excovatus, Perionyx ceylanensis*, European earthworms. *Eisenia fetida, Eisenia andrei*, South African earthworms. *Eudriluseugeniae*), Principle of vermicomposting, Methods of vermicomposting: Low-cost Floor beds, Grow bags & Tank system. Management during vermicomposting (Physical and Biological). Products of vermicomposting, physiochemical features and their utility: earthworm biomass (vermiprotein), vermicompost and vermiwash. Harvesting the vermicompost & storage. Marketing prospects of Vermicomposting in Chhattisgarh and India.	**15**
Lab./Field Training Contents	➢ Key to identify different types of earthworms. ➢ Identification of materials/waste products for vermiculture and vermicomposting. ➢ Study of systematic position, habits, and habitat & External characters of *Eisenia fetida.* ➢ Study of Life stages & development of *Eisenia fetida.* ➢ Culture of earthworms in Grow Bags. ➢ Study of devices and instruments of Vermiculture and Vermicomposting. ➢ Preparation of vermibed, maintenance of vermicompost & management of climatic conditions. ➢ Study the effects of vermicompost & vermiwash on any two short duration plants. ➢ Study of different methods of vermicomposting (NADEP Composting, Bangalore Method, Coimbatore Method & Indore Method). ➢ Creation of set up for vermiwash collection. ➢ Field Visit to Vermiculture & Vermicomposting sites and interaction with self help groups/ personnel engaged in these activities. ➢ Projects/ Assignments/ Chart/ Model preparation. ➢ Practical Record	**30**
Keywords	*Earthworm, Vermiculture, Vermicomposting, Vermiwash, Grow Bags, NADEP.*	
Signature of Convener & Members (CBoS):		

PART–C:Learning Resources

Text Books, Reference Books and Others

Text Books Recommended –

- Chauhan, A. (2012) Vermitechnology, Vermiculture, Vermicompost and Earthworms: Vermiculture, Vermicomposting, Vermitechnology and Mirobes, Lambert Academic Publishing, Germany.
- National Institute of Industrial Research, (2010): The Complete Technology Book on Vermiculture and Vermicompost, Published by National Institute of Industrial Research, Delhi-7, India.
- Kumar, A. (2005) Verms and Vermitechnology, APH Publishing.
- Bhatnagar & Patla,2007. Earthworm vermiculture and vermin-composting, Kalyani Publishers,New Delhi.
- Sultan Ahmed Ismail, 2005. The Earthworm Book, Second Revised Edition. Other India Press, Goa, India.
- Panda Himadri: The Complete Technology Book on Vermiculture and Vermicompost (Earthworm) with Manufacturing Process, Machinery Equipment Details & Plant Layout; Asia Pacific Business Press Inc.
- EIRI Board : Hand Book Of Biofertilizers & Vermiculture.

Online Resources–

- **https://agritech.tnau.ac.in/org_farm/orgfarm_composting.html#:~:text=In%20the%20Bangalore%20method%20of,laid%20over%20the%20moistened%20layer.**
- **https://www.thepharmajournal.com/archives/2021/vol10issue12/PartAR/11-5-248-926.pdf**

Online Resources–

- **https://megbrdc.nic.in/publications/fliers-Pamphlets/nadep-composting-english.pdf**

फोन : 0771-4053443

गुरूकुल महिला महाविद्यालय

छत्तीसगढ़ शासन तथा पंडित रविशंकर शुक्ल विश्वविद्यालय रायपुर से संबंध

गुरूकुल परिसर, कालीबाड़ी रोड, रायपुर (छ.ग.) ई-मेल : info@gurukulraipur.com Website : www.gmm.ac.in

NAAC Accredited B+

संचालित भातखण्डे ललितकला शिक्षा समिति, गांधी चौक, रायपुर (छत्तीसगढ़) पंजीयन क्रं. 16/51-52

क्रमांक 412901/25

दिनांक : 04/04/2025

To,

Mr. D.S. Pandey
Agriculture Extension Officer,
Arang.

Sub :- Consent for lecture in workshop.

Sir,

This is to inform you that Gurukul Mahila Mahavidyalaya, Raipur is going to organise 01 Day Workshop & Training Program on **"Vermiculture & Vermicomposting"** on 07/04/2025 from 10:45 am. We are looking for your consent for same.

Thanking You,

Devshree

Dr. Devshree Verma
Organizing Sectary

Dr. Sandhya Gupta
Principal
Gurukul Mahila Mahavidhyalaya
Kalibadi Road, RAIPUR (C.G.)

GURUKUL MAHILA MAHAVIDYALAYA

KALIBADI ROAD, RAIPUR, C.G.

1 DAYS WORKSHOP & TRANNING PROGRAM ON VERMICULTURE & VERMICOMPOSTING

CLASS - B.SC II SEMESTER STUDENTS / FACULTY

YEAR 2025

ATTENDANCE SHEET

S.NO.	NAME	SIGNATURE
1	Smt. Chandrakala Patel	
2	Dr. Namita	
3	Dr. S. Sahu	
4	Anuradha Sahu	
5	Jitendra Sahu	
6	Dr. Jhanvi Rani Atal	
7	Tuleshwari	
8	Neha Kumari	
9	Sadhna Dixit	
10	Indu Soni	
11	Pramita Dubey	
12	Vibha Chaubey	
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GURUKUL MAHILA MAHAVIDYALAYA

KALIBADI ROAD, RAIPUR, C.G.

2 DAYS WORKSHOP & TRANNING PROGRAM ON VERMICULTURE & VERMICOMPOSTING

CLASS - B.SC II SEMESTER (REGULAR + PRIVATE) STUDENT

YEAR 2025

ATTENDANCE SHEET

S.NO.	NAME	SIGNATURE	
		DAY 1	DAY 2
1	MAHIMA TURKAR	Mahima	Mahima
2	MANJU SAHU	Manju.	
3	MANSI THAKUR	—	
4	NAMRATA PATEL	नम्रता पटेल	नम्रता पटेल
5	NIKITA PATEL	Npatel	Npatel
6	NISHA YADAV	Nyadav	Nyadav
7	POOJA MAHAPATRA	Pooja	Pooja
8	PRATHANA MAHOBIYA	प्रथना	प्रथना
9	PRERNA SAHU	प्रेरणा साहु	प्रेरणा साहु
10	PURNIMA	—	Purnima
11	RAKHI YADAV	Ryadav	Ryadav
12	SAIMA FATIMA	S. fatima	—
13	SHRIPARNA SHARMA	Shriparna	Shriparna
14	TALBIYA MOHAMMADI	—	—
15	TANISHKA KURRE	Tanishka Rwashi	Tanishka Rwashi
16	URWASHI PATEL	—	
17	AAKANKSHA JAGNE	—	Akashaj
18	BHOOMIKA	—	Bhoomika
19	DAMINI SAHU	Damini	Damini
20	DIVYANSHI GAIKWAD	Divyanshi	—
21	MAHEK KHAN	—	—
22	MUSKAN SONI	Soni	—
23	NIKITA BISWAS	Nikita	Nikita
24	PALLAVI THAKUR	Pallavi	Pallavi
25	PAYAL PATEL	Payal	—
26	PEMENDRA KUMAR GAJPAL	Pemendra	—
27	SHIVANI BHOSLE		
28	SUMAN BANDE	Suman Bande	Suman Bande
29	YAMINI THAKUR		
30	Nikita Sinha		

BSC IInd sem (CS+Maths)

S.NO.	NAME	SIGNATURE
31	Mansi Sahu	Mansi
32	Nilima Dewangan	Nilima
33	Pallavi Dewangan	Pallavi
34	Sejal Dewangan	Sejal
35	Mamta Dewangan	Mamta
36	Nikita Kawre	Nikita
37	Ruchita Sahu	Ruchita
38	Archna Sahu	Archna Sahu
39	Suman Yadav	Suman
40	Reshma Sahu	Reshma
41	Manisha Sahu	Manisha Sahu
42	Nirjala Yadav	Nirjala
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A. Aims and Objective of the workshop and study tour

Skill Enhancement Course (SEC) is one of the subjects for Second Semester students. It is evident with title of the course that the main purpose of introducing this course is to enhance skill ability of students so that they can develop entrepreneurship capability.

Topic: Vermiculture & Vermicomposting

B. Why we Choose this topic for workshop and study tour

Pt. Ravishankar Shukla University has introduced National Education Policy in HEIs from academic session 2024-25. This policy is based on Choice Based Credit System for multidisciplinary education. The main aim of this policy is to inculcate moral values and skill abilities with education.

According to syllabus Skill Enhancement Course (SEC) is one of the subjects for Second Semester students. It is evident with title of the course that the main purpose of introducing this course is to enhance skill ability of students so that they can develop entrepreneurship capability.

Vermiculture & Vermicomposting is part of curriculum of core subject Zoology. Vermicompost is the product of decomposition process of food waste, garden waste, vegetable peel offs using various species of worms as earthworms, redworms etc. and bedding material.

This process is called **Vermicomposting** and the rearing of worms for this purpose is called **Vermiculture**. Vermicomposting makes nutrient rich “Worm manure” and it is the end-product of the breakdown of organic matter by earthworms.

Students can learn process of vermiculture and vermicomposting in this workshop and can learn about preparation of“Worm manure” which can be easily sold. So that purpose of workshop to train and to make entrepreneurs can be fulfilled.

C. General Information About Vermiculture and Vermicomposting

Vermicompost is known to be the world's best fertilizer. Vermicomposting is a method of preparing enriched compost with the use of earthworms. It is one of the easiest methods to recycle agricultural wastes and to produce quality compost. Earthworms consume biomass and excrete it in digested form called worm casts. Worm casts are popularly called as Black gold. The casts are rich in nutrients, growth

promoting substances, beneficial soil micro flora andhaving properties of inhibiting pathogenic microbes. Vermicompost is stable, fine granular organic manure, which enriches soil quality by improving its physicochemical and biological properties. It is highly useful in raising seedlings and for crop production. Vermicompost is becoming popular as a major component of organic farming system.

D. What is the Oppurtunity of Vermiculture and Vermicomposting

Opportunities:

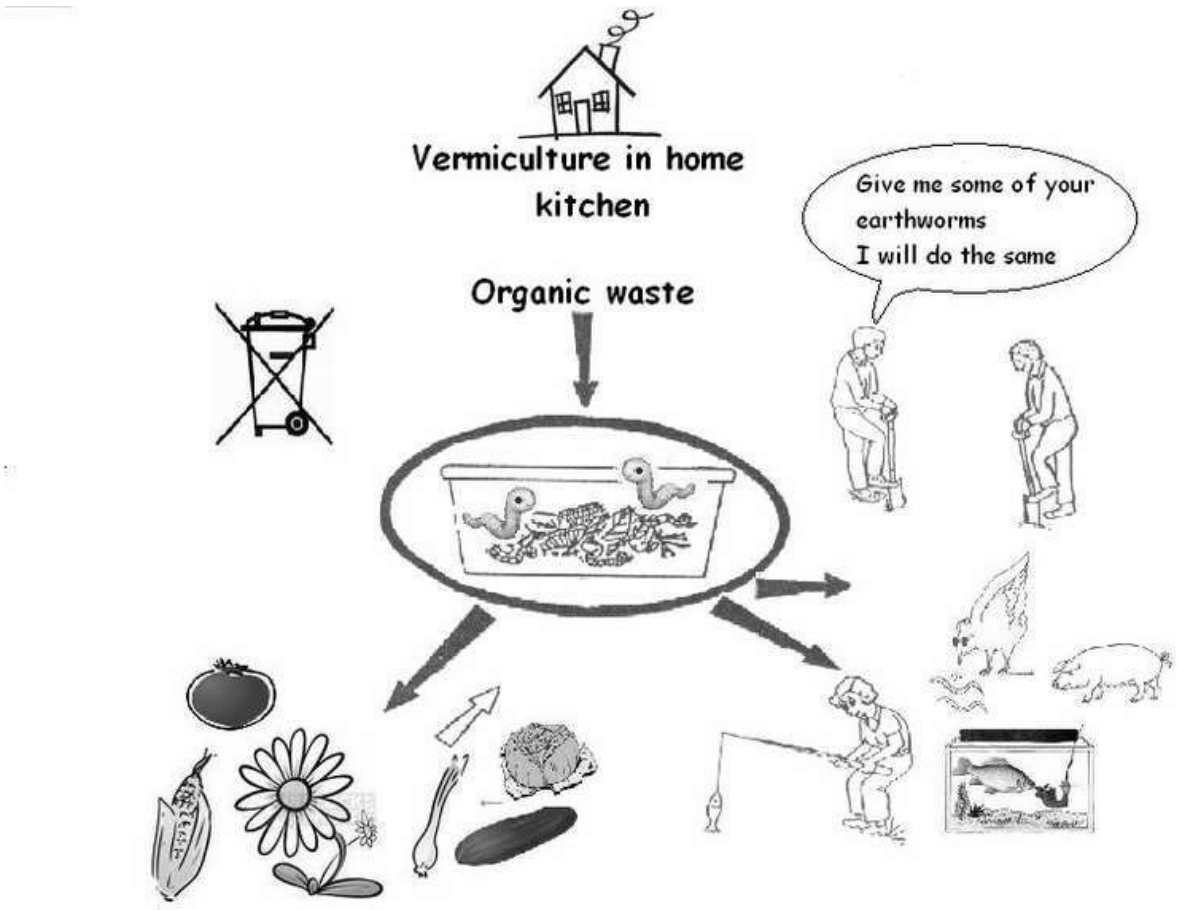
People are more concerned about their health so they want to consume organic food.

Hundreds of tones biodegradable organic waste is being thrown in cities creating disposal problems in the country. This waste can be converted into valuable compost by utilizing as raw material. Legitimate support by the government to the farmers to start this unit. Absence of competitors in the market can be a big opportunity for producers.

Wide scope at national and international level.

A Brief Abstract of the Event

Vermicompost is one of the most important manures of organic farming. In this context, the skill development training has been organized by department of Science The training was started with the auspicious presence of the Principal Dr. Sandhya Gupta and Dr. Vandana Agrawal HOD Department of Science along with 41 participants students and 12 Professors attain workshop. from the Department of science. This 2 days training program (from 07 to 8 April 2025). had been divided into 2 sessions and in each session workshop and second day study tour in Jora Patel nursery and vermiculture and vermicomposting field, participants gained a variety of knowledge related to vermicomposting from the subject experts D.S. Pandy Agriculture extension officer arang. During this training program, the participant learned the various approaches to vermicomposting. The students gained knowledge about the Vermicompost preparation method, application method, management of vermicompost, varmiwash preparation, application of varmiwash, and management of vermiwash tank. At the end of this training program two vermicompost production units, have been constructed by the participant. A valedictory program has been organized to provide the certificate to the participant. The trainees were glad to participate in this training programe and they said in the feedback session, that they learned a lot of things about vermicompost and they will adopt it in the future.



Vermiculture

Introduction

Vermiculture is a technique based on utilizing some species of earthworms to convert organic waste into Vermicompost which is again, the product of decomposition by various worms. It is a practice of harvesting worms that take part in decomposing organic waste and turning it into nutrient-rich fertilizer. The worms consume the decomposing organic material and flush it out of their system, which is referred to as worm manure.

Earthworms that are commonly used in Vermiculture are, Eisenia Andrei, Eisenia fetida, and Lumbricus rubellus horticultural in temperate climates and Pheretima Perionyx Hawanya Excavatus and Eudrilus Eugeniae and in the tropical areas.

In short, Vermiculture and Vermicomposting are the cultivation of earthworms and the use of earthworms to decompose organic wastes into nutrient-rich fertilizers.

Vermiculture Meaning

In general terms, Vermiculture means the cultivation of earthworms in order to use them to convert organic waste to nutrient and beneficial microorganism rice fertilizer. It allows us to grow organically rich compost year-round. Vermiculture was first introduced in the 1970s by a biology teacher, Mary Appelhif. She developed the idea of using red wiggler worms (Eisenia fetida) for composting in indoor and outdoor systems to convert kitchen waste to worm compost.

Vermiculture Techniques

There are three major techniques in Vermiculture for harvesting worms. These are

1. Manual
2. Migration
3. Mechanical

Manual Method of Harvesting

This method is generally used by framers for small-scale businesses of selling worms. The worms are harvested from the soil directly by using hands. The organic material which contains earthworms is kept on a flat surface and exposed to sunlight. It should be noted that earthworms are sensitive to light, so once they are exposed to sunlight they dive below the surface. The harvester will then remove the organic layer above and once the worms are seen they are harvested.

Migration Method of Harvesting

This method takes advantage of the earthworm's tendency to migrate to a new location for food and for this reason, onion bags and screens are used for harvesting. At the bottom surface of the screen, a box will be constructed where the worms would be collected. The migration method is carried out in two ways.

The downward migration method is where the worms are forced to move downwards in the organic material with the use of light. They will go through the

screen mesh and be collected in the container box below which is filled with peat moss. The process is repeated until the required quantity of worms has been achieved. It is a time-saving process and can be seen in multiple locations.

In the upward migration method, the mesh bottom of the box would be replaced by a worm bed. The box will be filled with peat moss and food which attracts the worms. Generally, coffee grounds and manure from fresh cattle are used as food for worms and they will move towards it and be collected in the box.

Mechanical Method of Harvesting

In this method, a mechanical harvester is used to collect worms. It is a trammel screen which is called a rotary screen that is used to separate materials. It is around 11ft long and 4ft in diameter and has a cylindrical shape. The walls of the cylinder are made of screening materials with different sized meshes. The cylinder is powered by an electric motor. The device would be set at an angle at the top side of the trammel. After that, the castings and the worm beds are added. When the rotation starts the castings of the worms will drop through the screen and the worms will move across the trammel device and enter into the wheelbarrow.

Vermiculture Process

The method used by farmers to multiply earthworms is by mixing high amounts of organic wastes, including the plant materials, cattle dung in a proportion of 1:1. Once the substrate medium has been made, around 40-50 earthworm species are released into the medium and it is protected from various environmental factors.
Regular maintenance is important for the growth of earthworms. The temperature should be between 15 to 25-degree centigrade and the moisture level should be at 80-90%.
Within one to two months, the earthworms can multiply up to 300 times relying on this process and factors affecting the process, and then they can be harvested.

Materials Required for Vermicomposting:

- Crop residues
- Vegetable waste
- Cattle dung
- Dried leaves
- Waste from agro-industries
- A suitable container
- Shed
- Pits
- Water supply
- Earthworms

Preparation of Vermicomposting

- A container with suitable dimensions is chosen and a worm bed I made at the pit of the container. This worm bed consists of old papers, sugar cane trash, paddy husk, and coir waste. A thin layer of soil is spread over this mixture and the humidity is maintained at 40-45%
- A mix of organic waste, slurry from a biogas plant and cattle dung is spread over the bed and it is kept for half digestion for a period of two weeks. During this time, the temperature of the bedding will rise to 50-55 degrees centigrade. A 5-10% neem cake is added to eliminate harmful microorganisms.
- After the temperature is cooled down to 30 degrees, the earthworms are introduced. Around 500 earthworms are introduced for 100 kgs of organic material.
- The bed is covered with straw and jute clothes to protect the worm. The temperature is maintained at 20-30 degrees centigrade and the moisture content is kept at 45-50%. (pH: 6.5-7)
- The compost will be ready in around 60 days and after it is ready the worms are separated by spreading the Vermicompost on a plastic sheet in a heap under sunlight. As earthworms are sensitive to sunlight, they will move to the bottom of the heap and the top layer of the compost can be removed.

Vermiculture Facts:

- Vermicompost is eco-friendly and it can help in reducing landfill
- The worm liquid at the bottom of the worm bin is great for the growth of garden plants. It is also known as worm tea.
- Worm casting can improve soil fertility by enriching it with nutrients.
- Worms have no eyes, no ears, and 5 hearts.
- They breathe through their skin.

Significance of Vermiculture

Vermiculture is the culture of earthworms. It is a beneficial way of improving the fertility of the plant and soil. Vermiculture mainly focuses on the breeding of worms so as to increase their population. Vermicompost is then prepared to promote the growth and development of crops. It also causes disease in plants along with increasing water retention and the porosity of the soil. This greatly reduces the need for chemical fertilizers and encourages organic matter.

PHOTOGRAPH


PROGRAM


Department of Science
TRAINING PROGRAM
वर्मी कम्पोस्ट/ केचुआ खाद
GPS Map Camera


Department of Science
TRAINING PROGRAM


TRAINING PROGRAM

STUDY TOUR


GPS Map Camera
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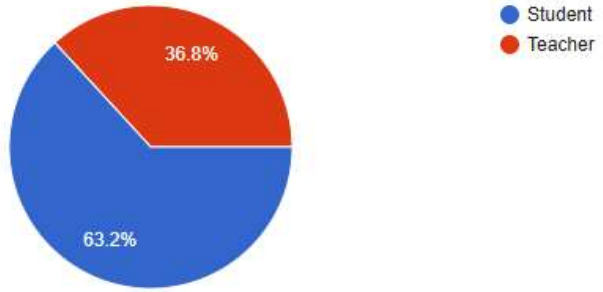
FEEDBACK

Designation

19 responses



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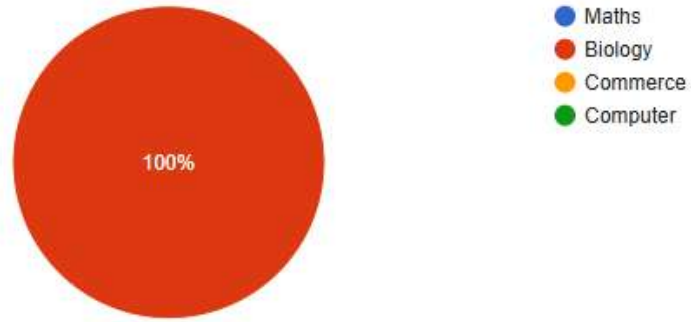
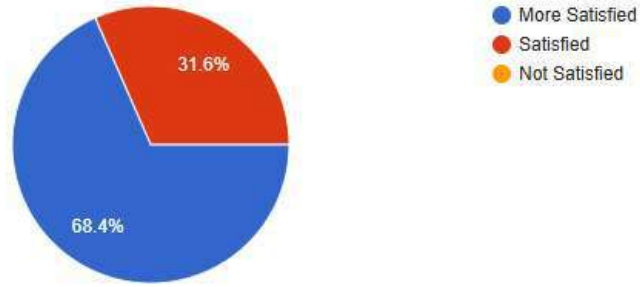
19 responses



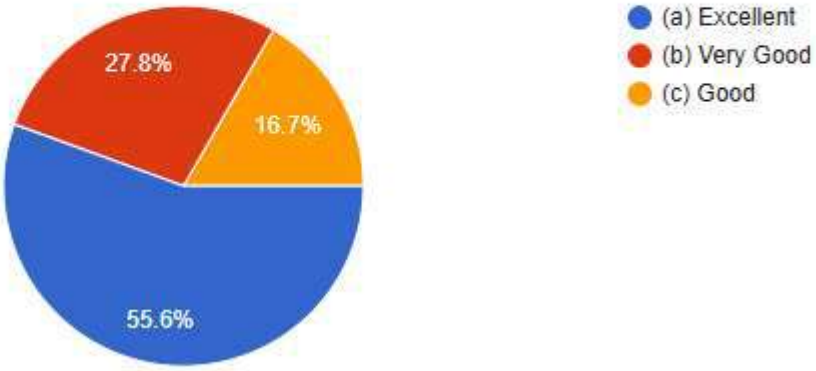
1. How satisfied you were with Vermiculture & Vermicompost

19 responses



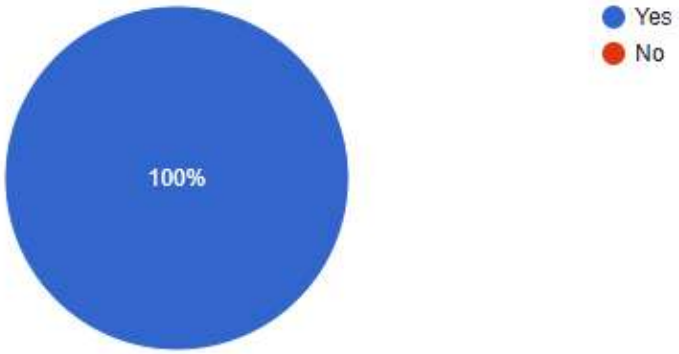
2. Rate the Vermiculture & Vermicompost

18 responses



3. Do you want such Seminar to continue happening again?

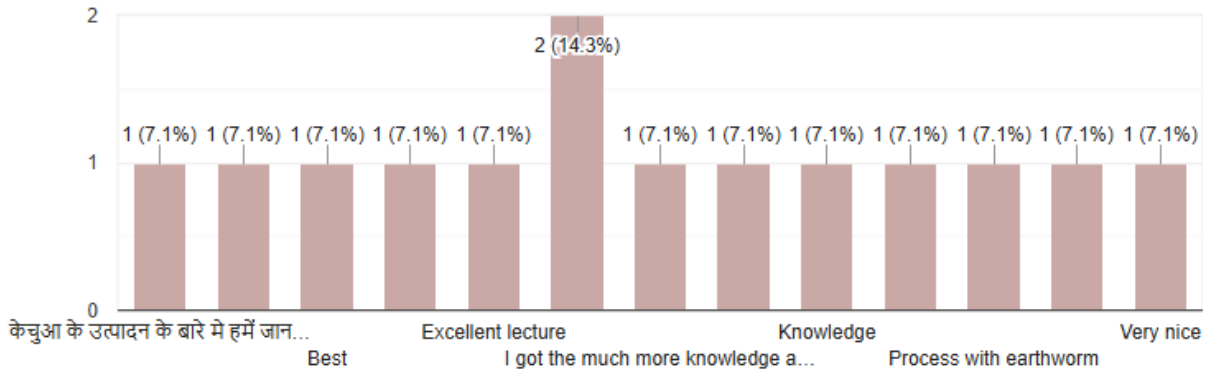
17 responses



Copy chart

4. Vermiculture Knowledge

14 responses



MEDIA

Link: https://www.positiveindia.net.in/gurukul-mahila-mahavidyalaya-conducts-skill-enhancement-workshop/

गुरुकुल महिला महाविद्यालय ने स्किल एन्हांसमेंट कार्यशाला का किया आयोजन

By Positive India — On Apr 7, 2025 — 0

EDUCATION CHHATTISGARH RAIPUR

GURUKUL COLLEGE ORGANISED SKILL ENHANCEMENT WORKSHOP

Positive India:Raipur:

गुरुकुल महिला महाविद्यालय कालीबाड़ी रोड, रायपुर के विज्ञान विभाग द्वारा एक दिवसीय कार्यशाला का आयोजन किया गया। कार्यशाला में स्किल एन्हांसमेंट कोर्स के अंतर्गत वर्मीकल्चर एवं वर्मीकम्पोस्ट पर प्रशिक्षण कार्यक्रम आयोजित की गई।

कार्यशाला में डी. एस. पांडे (कृषि विस्तार अधिकारी, आरंग) उपस्थित हुए। इस कार्यशाला के छात्राओं को कार्बनिक खाद बनाने की विधि व अनुप्रयोग को समझाया गया। छात्राओं ने प्रशिक्षण के दौरान प्रशिक्षक से कार्यशाला से संबंधित कई प्रश्न पूछे गये जिनका समाधान किया गया।

डी एस पांडे द्वारा कार्बनिक खाद को उद्यमिता से जोड़कर छात्राओं का मार्गदर्शन किया गया। कार्यशाला में महाविद्यालय के प्राचार्य ,प्राध्यापकों, छात्राओं , एवं अन्य महाविद्यालय से आये प्राध्यापकों की उपस्थिति में कार्य संपन्न हुआ। कार्यशाला के कार्यक्रम प्रभारी डा. देवश्री वर्मा एवं प्रीति साहू रहे एवं कार्यक्रम का संचालन डा. सीमा चंद्राकर द्वारा किया गया।

College News | Gurukul mahila mahavidyalaya | India | News | Positive | positiveindia | Skill Enhancement Workshop

Link: https://grandnews.in/2025/04/08/raipur-news-educational-tour-of-students/

Grand news
एक स्वतंत्र आवाज

छत्तीसगढ़ मध्य प्रदेश मनोरंजन खेल धर्म वायरल वीडियो विदेश ⋮

RAIPUR NEWS : गुरुकुल महिला महाविद्यालय की छात्राओं का शैक्षिक भ्रमण, सिखाया गया कार्बनिक खाद बनाने की विधि

Neeraj Gupta Save it
Last updated: 2025/04/08 at 7:25 PM

रायपुर। RAIPUR NEWS : गुरुकुल महिला महाविद्यालय कालीबाड़ी रोड, रायपुर के विज्ञान विभाग द्वारा स्टूडेंट्स को जोरा स्थित नर्सरी में शैक्षिक भ्रमण के लिए लें जाया गया। शैक्षिक भ्रमण स्किल एन्हांसमेंट कोर्स के अंतर्गत आता हैं वर्मीकल्चर एवं वर्मीकम्पोस्ट के प्रशिक्षण के लिए इसका आयोजन किया गया। इस शैक्षिक भ्रमण में छात्राओं को कार्बनिक खाद बनाने की विधि को पटेल सर ने बहुत ही सरल तरीके से बताया एवं समझाया। छात्राओं ने शैक्षिक भ्रमण के दौरान पटेल सर से वर्मिकंपोस्टिंग और वर्मिकल्चर से संबंधित कई प्रश्न पूछे गये जिनका समाधान किया गया। पटेल सर ने के द्वारा छात्राओं का मार्गदर्शन किया। शैक्षिक भ्रमण में महाविद्यालय के अवंतिका सोनी , डॉ अनुराधा गुप्ता और प्रिया दुबे शामिल थी और डॉ. देवश्री वर्मा एवं प्रीति साहू कार्यक्रम के प्रभारी प्राध्यापक थे, छात्राओं ने बहुत अच्छे से वर्मिकंपोस्टिंग को सिखा।

NEWS BULLETIN

https://www.youtube.com/watch?v=z2gstUMP904

विज्ञान विभाग द्वारा एक दिवसीय कार्यशाला का आयोजन किया गया

दबंग स्वर

रायपुर। गुरुकुल महिला महाविद्यालय कालीबाड़ी रोड, रायपुर के विज्ञान विभाग द्वारा एक दिवसीय कार्यशाला का आयोजन किया गया। कार्यशाला में स्किल एन्हांसमेंट कोर्स के अंतर्गत वर्मीकल्चर एवं वर्मीकम्पोस्ट पर प्रशिक्षण कार्यक्रम आयोजित की गई। कार्यशाला में डी. एस. पांडे जी (कृषि विस्तार अधिकारी, आरंग) उपस्थित हुए। इस कार्यशाला के छात्राओं को कार्बनिक खाद बनाने की विधि व अनुप्रयोग को समझाया गया। छात्राओं ने प्रशिक्षण के दौरान प्रशिक्षक से कार्यशाला से संबंधित कई प्रश्न पूछे गये जिनका समाधान किया गया। डी एस पांडे जी के द्वारा कार्बनिक खाद को उद्यमिता से जोड़कर छात्राओं का मार्गदर्शन किये।कार्यशाला में महाविद्यालय के प्राचार्य ,प्राध्यापकों, छात्राओं , एवं अन्य महाविद्यालय से आये प्राध्यापकों की उपस्थिति में कार्य संपन्न हुआ। कार्यशाला के कार्यक्रम प्रभारी डा?. देवश्री वर्मा एवं प्रीति साहू रहे एवं कार्यक्रम का संचालन डा. सीमा चंद्राकर द्वारा किया गया।

PRIME DAY

Vermicompost Workshop at Gurukul College

Raipur (Prime Day): The Science Department of Gurukul Women's College, Kalibadi Road, Raipur, successfully organized a one-day workshop. This workshop was conducted under the Skill Enhancement Course, with the primary aim of providing students with technical knowledge of vermiculture (earthworm cultivation) and vermicompost (organic compost made using earthworms).

The workshop was graced by the presence of Mr. D. S. Pandey, Agriculture Extension Officer, Arang, as the special guest. He provided detailed insights to the students on the process of making organic compost, its benefits, and its applications in agriculture. He emphasized that vermicompost is eco-friendly, improves soil quality, and is a cost-effective alternative that supports sustainable farming practices. During the training session, the students showed keen interest in the subject and asked several relevant questions. Mr. Pandey addressed all queries with simple and scientific explanations, thereby enhancing the students' understanding. He further highlighted the entrepreneurial potential of vermiculture, stating that it is not only beneficial in agriculture but also opens up ample self-employment opportunities. He encouraged the students to adopt this technique and take significant steps toward self-reliance by becoming successful entrepreneurs. The workshop began with a welcome speech by the Principal of the college, who emphasized the importance of practical education and skill development. She stated that in today's time, theoretical knowledge alone is not sufficient; students must also acquire hands-on experience and embrace innovation to face future challenges. The program was attended by faculty members from the Science Department, teachers from other faculties, a large number of students, and invited professors from other colleges. All attendees found the training to be useful and inspiring. The students actively participated and observed the complete process of organic compost preparation firsthand.

The coordinators of the workshop were Dr. Devshree Verma and Preeti Sahu, who played a significant role in ensuring the success of the event. The program was conducted efficiently by Dr. Seema Chandrakar from the Science Department, who skillfully managed the proceedings throughout the session.

At the conclusion of the workshop, a vote of thanks was delivered, wherein the organizers expressed their gratitude to the special guest, college administration, participating faculty members, and students. The college principal stated that similar knowledge-enhancing and employment-oriented training programs would continue to be organized in the future, enabling students to gain practical knowledge and shape a better future.

This workshop not only served as an educational experience for the students but also inspired them to connect with nature and contribute towards environmental conservation.

DANIK BHASKER

घर पर गोबर और सब्जियों को कम्पोस्ट करें इससे 50 दिन में तैयार हो जाएगी नेचुरल खाद

सिटी रिपोर्टर. रायपुर

कालीबाड़ी रोड स्थित गुरुकुल महिला महाविद्यालय में स्किल इनहांसमेंट कोर्स के तहत वर्मीकल्चर और वर्मी-कम्पोस्ट वर्कशॉप का आयोजन किया गया। इस दौरान कृषि विस्तार अधिकारी डीएस पांडे ने स्टूडेंट्स को घर पर ही आसानी से वर्मी-कम्पोस्ट बनाने की ट्रेनिंग दी। उन्होंने बताया कि नई शिक्षा नीति के तहत यह प्रशिक्षण दिया जा रहा है, लेकिन जूलॉजी कोर सब्जेक्ट होने के कारण अगर खाद

बनाने की विधि सीखी जाए तो अच्छी अर्निंग भी की जा सकती है। सूखे गोबर और घर से निकलने वाला फल और सब्जी के छिलके से खाद तैयार किया जाता है। जिस स्थान पर भी खाद बनाकर रखा जा रहा हो, वहां का तापमान अधिकतम 40 डिग्री से ज्यादा नहीं होनी चाहिए। इस दौरान खाद में नमी रहना जरूरी है, ताकि वर्मी यानी केंचुआ जीवित रहे और अच्छी खाद बन सके। ध्यान रखें कि खाद बनने के दौरान वहां चींटियां या कोई कीड़े ना आए। जरूरत होने पर सूखी घास, पत्तियां, नारियल का बुरादा भी डाला जा सकता है। 50-60 दिन में खाद बनकर तैयार हो जाता है। 5 किलो वर्मी-कम्पोस्ट खाद 300-500 रुपए के बीच बिकता है। इस दौरान डॉ. देवश्री वर्मा, प्रीति साहू और डॉ. सीमा चंद्राकर शामिल हुए।

GROUP PHOTO

Thank You

GURUKUL MAHILA MAHAVIDYALAYA

KALIBADI ROAD, RAIPUR (C.G.)

DEPARTMENT OF SCIENCE

HANDS ON TRAINING

(March to April 2025)

IN

GREEN

CHEMISTRY

SKILL ENHANCEMENT COURSE

INDEX

HANDS ON TRAINING

IN

GREEN CHEMISTRY

SKILL ENHANCEMENT COURSE

(MARCH 25 TO APRIL 25)

OBJECTIVE:

1. To safe environment by substituting harmful chemicals.
2. Minimize the potential for accident.
3. Design of chemical products and processes that reduce or eliminate the use or generation of hazardous substances.
4. Reducing waste product or disposing of waste in the correct manner.

VENUE:

CHEMISTRY LABORATORY

(Gurukul Mahila Mahavidyalaya, Kalibadi Chowk,Raipur))

NEED OF GREEN CHEMISTRY :

Green chemistry the self-explanatory term is a branch of chemistry that involves the application of chemical product and processes in such a way that reduces the generation of hazardous chemical waste and its release into the environment.Here we try to train students for making chemical free daily products.

ATTENDANCE SHEET

No. of Participant : 17

HANDS ON TRAINING
IN
GREEN CHEMISTRY

Date .....

Attendance Sheet

	07/04/2025	08/04/2025	09/04/202	11/04/2025	12/04/2025
1)	Ithija	Ithija	Ithija	Ithija	Ithija
2)	Muskan.	Muskan.	Muskan.	Muskan.	Muskan.
3)	Khushboo	Khushboo	Khushboo	Khushboo	Khushboo
4	Nikal	Nikal	Nikal	Nikal	Nikal
5	Sat	Sat	Sat	Sat	Sat
6	Prashika	Prashika	Prashika	Prashika	Prashika
7	Vinita	Vinita	Vinita	Vinita	Vinita
8	Divyansi	Divyansi	Divyansi	Divyansi	Divyansi
8	भावना	भावना	भावना	भावना	भावना
10					
11	Preeti	Preeti	Preeti	Preeti	Preeti
12					
13	Linima	Linima	Linima	Linima	Linima
14	Megha	Megha	Megha	Megha	Megha
15	Payal	Payal	Payal	Payal	Payal
16	Anuska	Anuma	Anuma	Anuma	Anuma
17	Hazfa	Hazfa	Hazfa	Hazfa	Hazfa

	07/04/2025	08/04/2025	09/04/202	11/04/2025	12/04/2025
1)	Ithija	Ithija	Ithija	Ithija	Ithija
2)	Muskan.	Muskan.	Muskan.	Muskan.	Muskan.
3)	Khushboo	Khushboo	Khushboo	Khushboo	Khushboo
4	Nikal	Nikal	Nika	Nika	Nikal
5	Sat	Sat	Sat	Sat	Sat
6	Prashika	Prashika	Prashika	Prashika	Prashika
7	Vinita	Vinita	Vinita	Vinita	Vinita
8	Divyansi	Divyansi	Divyansi	Divyansi	Divyansi
8	भावना	भावना	भावना	भावना	भावना
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12	Ak	Ak	Ak	Ak	Ak
13	Linima	Linima	Linima	Linima	Linima
14	Megha	Megha	Megha	Megha	Megha
15	Payal	Payal	Payal	Payal	Payal
16	Anuma	Anuma	Anuma	Anuma	Anuma
17	Hazfa	Hazfa	Hazfa	Hazfa	Hazfa

SOME EXPERIMENTS:

1. Basic shampoo
2. Body wash
3. Dry skin moisturizer
4. Face Scrub
5. Food colour
6. Hand Sanitizer
7. Hand Wash
8. Herbal shampoo
9. Multani mitti soap
10. Neem Aloe soap
11. Oil based perfume
12. Oily skin Moisturizer
13. Recycle paper
14. Sensitive skin moisturizer
15. Spray based perfume
16. Sunscreen
17. Liptint

IMAGES


Raipur, Chhattisgarh, India
Kalibadi, Kalibadi, Janta Colony, Raipur, Chhattisgarh 492001, India
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Spinach
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VIDEOS

Basic Shampoo

Material Required-¼ cup liquid castile soap

¼ cup aloevera gel 1 tsp
coconut milk
10 drop essential oil (lavender, rosemary, tea tree oil etc.)
1 tsp jojoba or almond oil

Method of Preparation :-

Step 1- take castile soap and aloe vera gel in a beaker.

Step 2- Add coconut milk into it.

Step 3- Add Almond oil.

Step 4 - Add essential oil (tea Tree oil)

Step 5- Mix it well and store in airtight container

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Body Wash

Material Required- 200g Coconut oil / shea butter (base oil) , lye Sodium hydroxide (Naoh) 2.8 gm , Distilled water 90 ml , for fragrance- Tea tree, Vanilla , lavender Essential oil,
Additive - Neem Extract , aloe vera Extract , Glycerin

Material Required -

Step 1 Take Coconut oil , Shea butter in a beaker , heat until it melt properly
Step 2 - Take Naoh and add it to distilled water
Step 3- Now add Naoh solution in Base oil
Step 4 - For different type of body wash take neem aloe vera and glycerin (additives) in different beaker
Step 5 - Now add the Base oil Naoh solution in Additative
Step 6 - Store in a Airtight container & in cool dry place

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Dry Skin Moisturizer

Material Required - 2 tsp Shea butter , 1 tsp jojoba oil , 1 tsp Almond oil , 5- 8 drops lavender essential oil

Method of Preparation -

Step 1- Add Shea butter in a container

Step 2 - 1 tsp Jojoba oil

Step 3 - 1 tsp Almond oil

Step 4 - Add essential oil and mix it well

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Face Scrub

Material Required- 1 tsp raw honey , 1 tsp Coffee powder , 1 tsp Brown sugar / regular sugar , Vitamin E 1 tsp oil, 1-5 drops Tea tree Essential oil

Method of Preparation

Step 1- Add raw honey to beaker

Step 2- Add vitamin e oil

Step 3 - Add tea tree essential oil

Step 4 - Add Brown sugar or regular sugar and coffee powder

Step 5 - Mix it well & store in Airtight container

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Face Wash

Material Required - 2 tsp raw honey , 1 tsp coconut oil/ Coconut oil , 1 tsp aloe vera gel , 2 tsp Castile Soap , 5 drops lavender essential oil

Method of Preparation :-

Step 1- Add 2 tsp raw honey to a beaker

Step 2- Add 1 tsp coconut oil

Step 3- Add 1 tsp Aloe vera gel and Castile Soap

Step 4- Add essential oil and mix it well

Step 5- Store in airtight Container

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Food colour

Material Required- Beetroot - Red colour

Carrot - Orange colour
Spinach- Green colour

Method of preparation :-

Step1- Grate Vegetable or Fruit or Blend Make a smooth paste.

Step 2 - filter the juice.

Step 3 - Start Boiling until the consistency become Thicker.

Step 4 Pour the food colour in airtight container in cool dry place to prevent contamination.

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Hand Sanitizer

Material Required - ⅔ Cup Ethanol, ⅓ cup Aloe vera gel, tea Tree Essential oil , distilled water

Method of Preparation -

Step 1- Take ethanol and distilled water in a beaker

Step 2 - Mix ethanol and water together

Step 3- Add Aloe Vera gel and mix it well

Step 4- Now add Essential oil to it

Step 5 - Store in a container.

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Hand Wash

Material Required - ⅓ Cup Castile soap , ¾ Cup water , 2 tsp Aloe vera gel , 10 drops Essential oil , 1 tsp glycerin

Method of Preparation

Step 1- With help measuring cylinder add castile soap and water in a container

Step 2- Add 2 tsp Aloe vera gel to it

Step 3- Add 1 tsp glycerin and Essential oil { lavender }

Step 4 - Mix it well by shaking and Store it in a container.

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Herbal Shampoo

Material Required - 2 tsp Shikakai , 2 tsp Reetha , 1 tsp Amla , 2 cup water , 10 drops Essential oil (peppermint / tea tree)

Method of Preparation :-

Step 1- Take shikakai , Reetha Amla powder in a beaker

Step 2 - Mix it well

Step 3 - Add water in it

Step 4 - Mix it well

Step 5 - Add essential oil & mix well

Step 6 - Boil for 10-15 min

Step 7 - Stain the solution

Step 8 Store in airtight container

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Multani Mitti Soap

Material Required - Multani mitti as a base 1 Cup , Shikakai powder 1 tsp , Reetha powder 1 tsp , Castile soap 2-3 tsp, Turmeric powder , peppermint Essential oil , Coconut oil.

Method of Preparation:-

Step 1- Add Multani mitti in a beaker.

Step 2- Add Shikakai , reetha , turmeric powder in that beaker
Step 3- Add Castile Soap and Coconut oil to that mixture **Step 4 -** Mix it well and make soap like structure with hand or use a silicon soap mould for perfect shape.

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Neem Aloe Soap

Material Required- Organic Soap base (Such as Shea butter, Coconut oil or olive oil soap base), Aloe vera gel (fresh or organic) Neem juice or Neem oil (organic) , Essential oil (Tea Tree oil)

Method of Preparation :-

Step 1 - Take out Neem extract in a beaker and add aloe vera gel to it
Step 2- Now heat the Soap base until it melt properly **Step 3 -** Then add the Neem aloe extract to Melted soap base.
Step 4- Add Essential oil to it.

Step 5 - Pour the mixture to Soap Mould and wait until it sets then Unmould the soap.

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Oil Based Perfume

Material Required - Carrier oil - Coconut oil , jojoba oil 2 tsp , Essential oil - Vanilla Essential oil , lavender essential oil 20-30 drops

Method of Preparation -

Step 1 - Add Carrier oil in a Container

Step 2 - Add Essential oil to it

Step 3 - Shake it well Reset the solution for 24- 48 hours for better fragrance

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Oily Skin Moisturizer

Material Required- 2 tsp Aloe Vera gel , 1 tsp Coconut oil , 3-5 Drops Tea tree essential oil

Method of Preparation -

Step 1- Add Aloe vera gel to Container

Step 2 - Add Coconut oil then

Step 3- Add Tea tree essential oil

Step 4- Mix it well and store in cool dry place

Click QR

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RECYCLE PAPER

Material Required :- Old paper,water, blender,paper mold

Method of preparation :-

Step:1 tear and soak paper - Tear old paper into small pieces and soak them into water for several hours.

Step:2 blender into pulp- Blend the Soaked paper and water into in smooth pulp.

Step:3 from the sheet- pour onto a frame with a screen and spread it evenly to form a sheet.

Step:4 press and dry- Press out excess water with a sponge then transfer the sheet to a flat surface and let it dry completely.

Click QR

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Spray Based Perfume

Material Required - Ethanol / vodka 2 tsp , lemon juice 10- 15 drops , peppermint essential oil 10- 30 drops , distilled water

Method of Preparation -

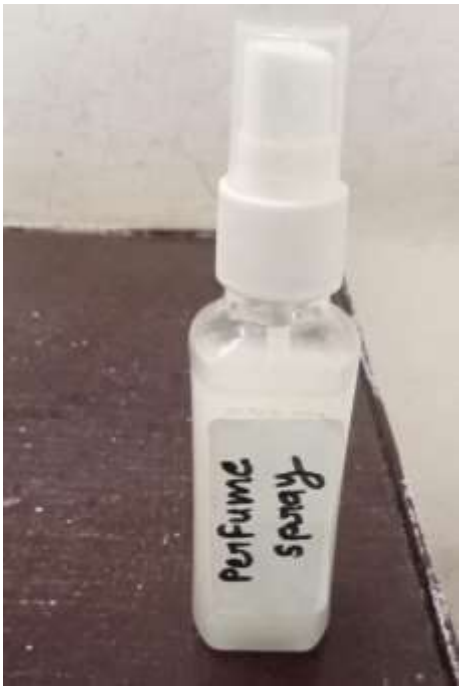
Step 1- Add Ethanol and lemon juice in a beaker

Step 2- Then Add Essential oil to the beaker

Step 3- Shake well Store it spray bottle and keep it **rest** for 24 hours

Step 4- Now add Distilled water and shake it well

Step 5- store in cool dry place



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Sensitive Skin Moisturizer

Material Required - 1 tsp Yogurt ,1 tsp Raw honey , 1 tsp Almond oil , 5-7 Drops of vanilla essential oil.

Method of Preparation-

Step1 - Add 1 tsp Yogurt in a container

Step 2- Add 1 tsp Raw honey

Step 3 - Add 1 tsp Almond oil & mix it well

Step 4 - Add 5- 7 Drop of vanilla essential oil

Step 5 - Store in cool Dry place

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SUNSCREEN

Material Required - 1/2 cup Shea butter , 1/4 cup coconut, 4 tbsp carrot seed oil , 4 tbsp non- nano zinc , 10 drop lavender essential oil / vanilla essential oil

Method of Preparation-

Step:1 take Shea butter and coconut oil &Mix it well

Step:2 4 tsp add carrot seed oil & Mix it well

Step:3 4 tsp add zinc oxide & Mix it well

Step:4 Pour Sunscreen to Airtight container.

Step:5 Add 10 Drops of vanilla / Lavender Essential oil & mix it well.

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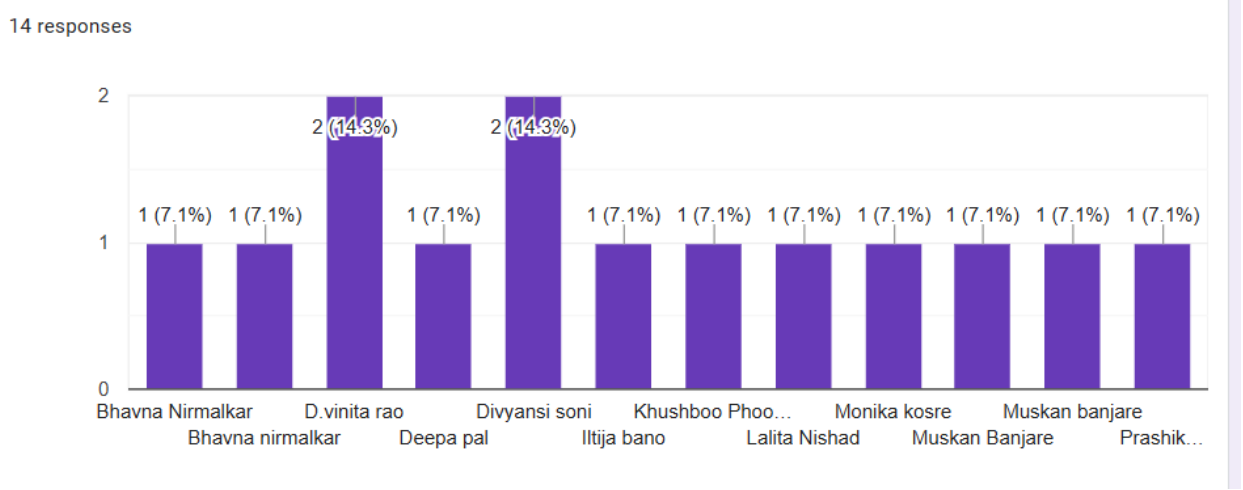
BENEFITS/APPLICATIONS:

1. Less release of hazardous chemicals to atmosphere leading to less damage to environement.
2. Green chemistry is Pharmaceutical Industry.
3. Green chemistry is energy science.
4. Eco-friendly Dry Cleaning of clothes.
5. Clearing turbid water.
6. Nanoscience applications.
7. GreenChemistry in Research Laboratories.

FEEDBACK


14 responses
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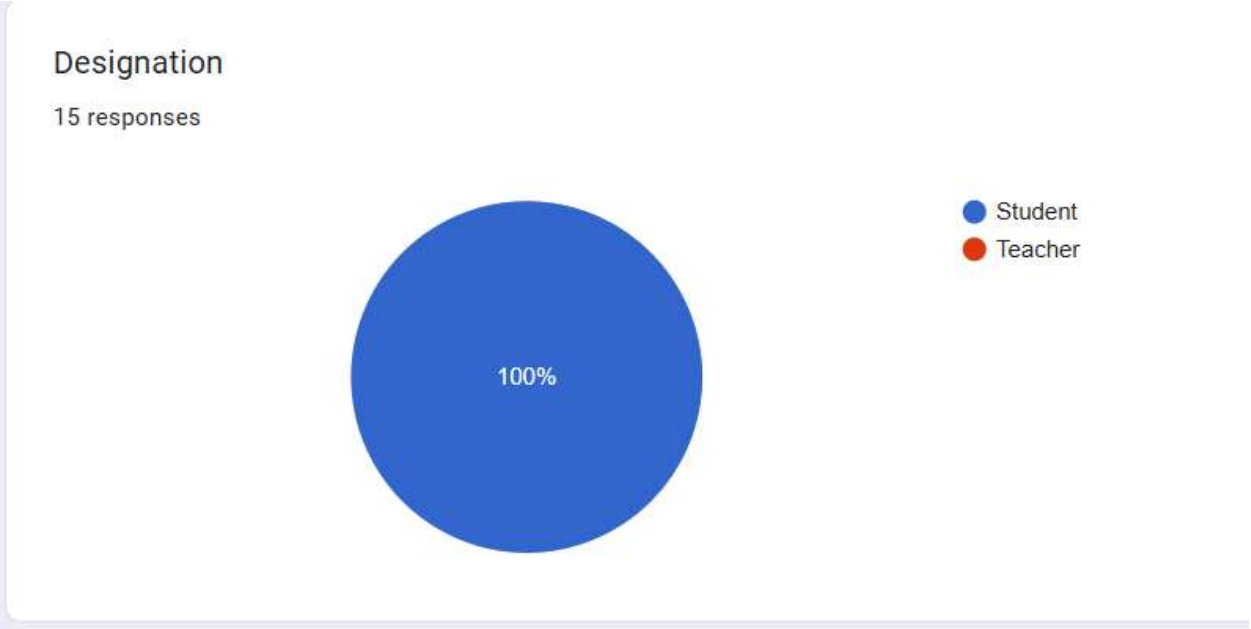
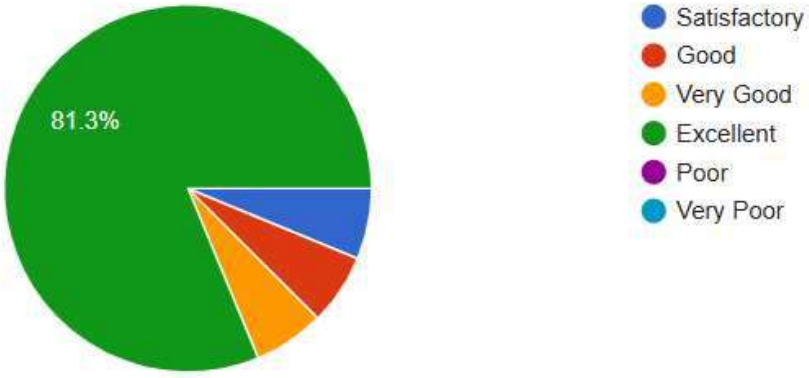
Deepa pal
Divyansi soni
Iltija bano
Khushboo Phoo…
Lalita Nishad
Monika kosre
Muskan Banjare
Muskan banjare
Prashik…


Designation
15 responses
Student
Teacher
100%

The Event /Program is

16 responses



What did you learn from this programme

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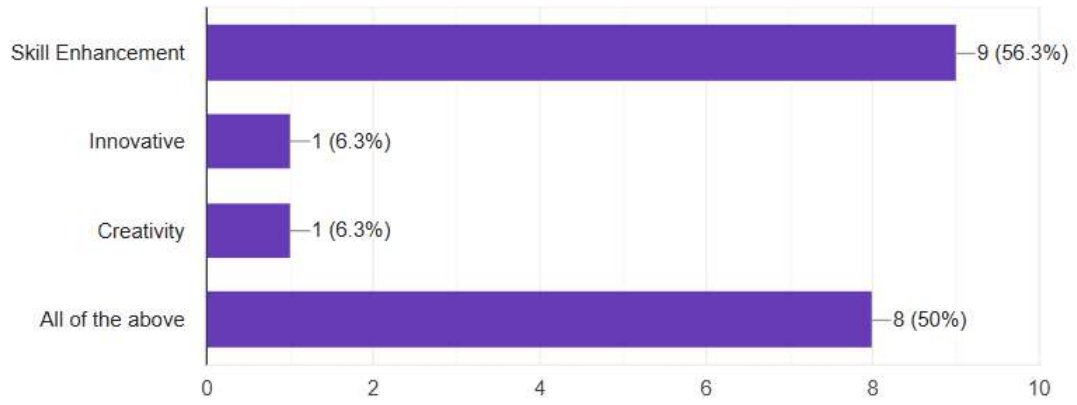
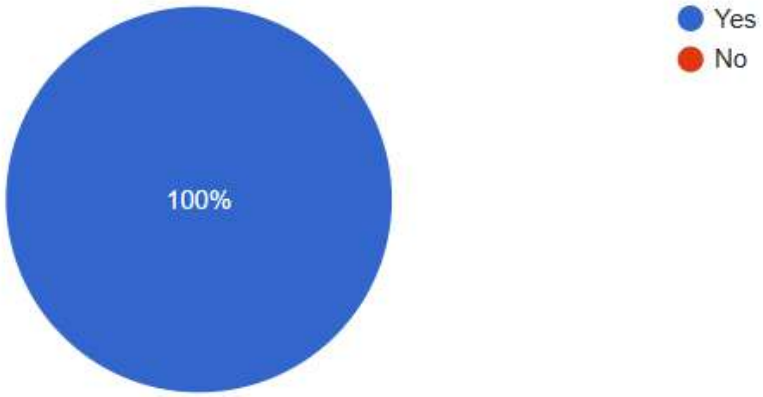
16 responses



Has this training inspired you to start a business of your own in this field of Green Chemistry.

16 responses



What improvements you suggests for the events

8 responses

Focus on early planning, audience engagement, and utilizing technology.

Learning and inspiration

We keep It and doing well And our green chemistry Is the veri nice and good Subject

None, Everything was on point.

Please increase time and your program is beneficial for us

Green chemistry skill and enhancement" learning and inspiration

It Well and Keep and doing it

There should be a feedback session of the participants.

FUTURE ASPECTS:

1. Design processes for readily reusing recycling materials to keep chemical components active in the economy for as long as possible.
2. Green nanotechnology reduces waste generation and applies effective recycling methods for nanoproducts.
3. Recycled carbon nanotubes have low metal content and are used for energy storage.
4. Renewable feedstocks like fossil fuels for chemical production.


Thank
you