

AMAR SEWA MANDAL'S (Rood, No. 11/220/18 KGF) F-7297 (III)

KAMLA NEHRII MAHAVIDYALAYA

(ARTS, COMMERCE & SCIENCE)

SAKKARDARA (HOWK, NAGPUR-440 024 - Ph : (0712) 2747853, 2747854, 2742308, 2749784 fax : (0712) 2747853 - e-mail : kncnag@rediffraail.com - website : www.kamlanehrucollogo.ac.in





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Session 2020-2021

Date:___/___/___

Activities Under MOU

Department of Commerce in collaboration with B.J. International Mumbai organized 1 Month practical training in logistics.

The objective of this practical training in logistics was to make students awareness about industrial working pattern such as Custom Clearance procedure, Documentation Procedure for Import and Exports from ICD Nagpur, procedure and documentation for clearance and container and stuffing of containers at factory premises, verification procedure conducted by Custom officer while clearance of containers, procedure regarding Payment of Custom Duty.

This 1 Month practical training in logistics gave a lot of Industrial exposure to 30 students and helped them in improving their skills to attain willful jobs in their future career.



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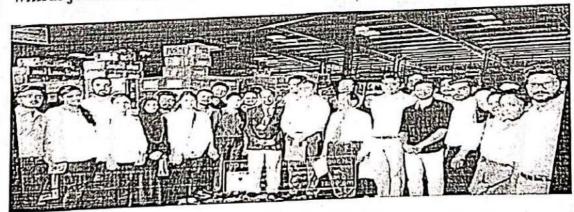
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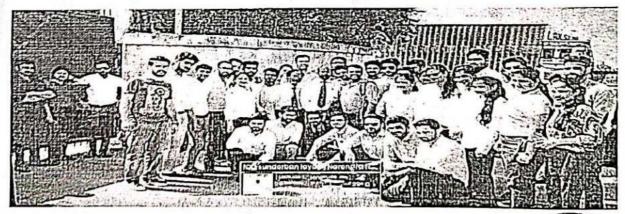
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KNM/	Session 2022-2023	Date://

Activities Under MOU

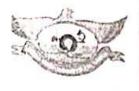
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PRINCIPAL Remla Nerry Manuvidyalayo Gakkardara Chowk, Nagpur.



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KAMLA NEHRU MAHAVIDYALAYA

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DR. (Sml.) SUHASINI G. WANJARI President. Adv. ABHIJIT G. WANJARRI Secretory. DR. DILIP S. BADWAIK Princip

Date: 09, 01, 2020

Academic year- 2019-20

Activity- Project workOf Students In Collaboration With Sai Biosystems Pvt. Ltd, Nagpur

Date of activity- 07-01-2020

Place- Sai Biosystems Pvt. Ltd, Nagpur.

Objectives: To introduce student to develop strategy related workshop based learning experience.

About Activity: Kamla Nehru Mahavidyalaya, Department of Microbiology assigned or implementation of collaborative project / program/ thesis work with Sai Biosystem Pvt. Ltd Nagpur. Our three students of M.Sc IInd year in session 2019-20, Ms. Ankita atkari, Ms. Diksha Bangade, Mr. Rushabh chavan have done their project in Sai Biosystems Pvt. Ltd, Raghuji Nagar, Nagpur. Students got facilities of research work so the students with practical skills design experimental learning in building project to fit their particular situation.

Sr.	Name of Students	Duration	Title of project work
No 1.	Ankita Atkari	3 Month	Safety Assessment Of Silver Nano Particles With Reference To Plant Growth And Its Microbiota.
2.	Diksha G.Bangade	3 Month	Screening Of Spices Based Synthesized Silver Nanoparticles As An Antibacterial Agent Against Human Pathogens.
3.	Rushabh Chavan	3 Month	Green Synthesis Of Silver Nanoparticles By Using Kwath Extract And Effect Of Silver Nanoparticles and Antimicrobial Activity On Human Pathogen By Disk Diffusion Method And Synergistic Effect

Principal Kamla Nehru Mahavidyalaya Sakkardara Chowk, Nagpur,



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DR. (Smt.) SUHASINI G. WANJARI President Adv. ABHUIT G. WANJARRI Secretary DR. DILIP S. BADWAIK Principal

Date: 19, 02, 2021

Academic Year

: 2020 -2021

Activity

: Guest Lecture on Cyber Security Essentials:

Protecting your Digital World

Participants Count

: 249 Students, 4 Teachers

Date of Activity

: 17/02/2021

Objective

Nagpur.

: To inculcate industrial working knowledge among students.

About the activity: Under the aegis of "Activity under MoU" Department of Computer Science organized a Guest Lecture on "Cyber Security Essentials Protecting your Digital World " for Computer Science students. Since the cyber security plays the essential role to protect digital world. A guest lecture was organized to help the students to develop their research and information retrieval and programming practices. The program was graced by Dr. Pradeep K. Butey, Hod, Deptt. of Computer science. Technical Person from Passel corporate Consultants Pvt. Ltd ,delivered the Lecture. He conduct the Session and dealt the concept of Cyber security involves a wide range of tools and technologies to protect networks, devices, programs, and data from attack, damage, or unauthorized access. some essential cyber security tools discussed by the guest. The session was interactive and practical based.

Total <u>249</u> students get benefited from this activity.

All Computer Science faculties were present for this event.





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Academic year: 2019-20

Activity- Educational visit of UG & PG students to CICR, Nagpur

Date of activity: 25th February, 2020

Place: Kamla Nehru Mahavidyalaya, Nagpur

Objectives:

Educational visit of students to national research laboratory CICR and aware about high end recent research

About the activity:

Recently R & D sector is very demanding for the development of country at science front. To inculcate research interest in students the students were visited to central laboratory CICR which is actively involved in cotton research. A total of 27 Students got opportunity to visualize various hi-tech instruments working and its mechanism which were present in laboratory. Also an active interaction occurs between students and scientist about the recent projects going-on. The students were enthusiastic in knowing the details about major projects handled by CICR. It was a best experience for us.





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DR. DILIP S. BADWAIK Principal

Academic year: 2020-21

Activity- Guest lecture on "Biofertilizer formulation using agricultural crops" by Dr.

Manikandan Scientist, CICR, Nagpur

Date of activity: 16th March, 2021

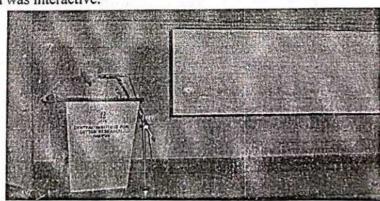
Place: Kamla Nehru Mahavidyalaya, Nagpur

Objectives:

To inform and give training on methodology of biofertilizer formulation using agricultural waste

About the activity:

One day guest lecture was organized by department of biotechnology, Kamla Nehru Mahavidyalaya and lecture delivered by Dr. Manikandan Scientist, CICR, Nagpur on "Biofertilizer formulation using agricultural crops" the event was organized on 16th March, 2021 with active participation of 150 students from the Department of Biotechnology. He emphasized the pivotal role of processing agricultural waste, culturing microorganisms, and their inoculation in achieving sustainable crop production. Furthermore, he introduced attendees to innovative biofertilizer formulations, including liquid, polymer-entrapped, nanobiofertilizers, biofilms, and lyophilized dry powders. These novel formulations were demonstrated for their applications in soil amendment, seed treatment, and seedling dipping, providing attendees with a comprehensive understanding of the potential benefits for modern agriculture. The session was interactive.



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KAMLA NEHRU MAHAVIDYALAYA DEPARTMENT OF MICROBIOLOGY EXPERT TALK SESSION 2018-2019

OBJECTIVES

- · To make aware students about importance of hygiene
- To give knowledge about different disesse caused by bacteria and viruses.
- Student make aware about cleanliness about surrounding environment.

NATURE OF ACTIVITY

Kamla Nehru Mahavidyalaya, Department of Microbiology organized an expert talk in collaboration with Ayush Arogya Vardhini Medical Research Trust Nagpur on' Maleria and Dengue" on date 10/03/2019 at Kamla Nehru Mahavidyalaya. Chief guest for lecture was Dr.Monika Raghorte (D.M.O.)..Dr.Monika explained about importance of hygiene, various diseases, their sources, causes and prevention and treatment. Students of M.Sc. and B.Sc. along with HOD and staff members were present

OUTCOMES

- Students learnt about hygiene and cleanliness of environment.
- Students learnt about various bacterial and viral diseases, their causes, symptoms and preventions.

40 students were benefitted.

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Academic Year

: 2019 -2020

Activity

: A Guest Lecture on Cyber Security

Participants Count

: 150 Students, 4 Teachers

Date of Activity

: 18/12/2019

: A guest lecture on cyber security is to protect digital information. and systems from a variety of threats and attacks. It involves implementing strategies, technologies, and practices designed to safeguard the confidentiality, integrity, and availability of data and systems.

About the activity: Under the aegis of "Activity under MoU" Department of Computer Science organized a guest lecture on " Data Security " for Computer Science students. As in, this guest lecture is provide an information about Data Security. In this guest lecture program was organized to help the students to secure their data from different threats. In this guest lecture, The speaker discuss the necessity to develop skills and potential educational paths for a career in cyber security. The program was graced by Dr. Pradeep K. Butey, Hod, Deptt. of Computer science and the faculty Dr. Aruna J. Chamatkar. Resourse Person from Gujarat Forensic sciences University, Gandhinagar, Gujarat conduct the Session and they dealt Educational institutions and professional organizations are increasingly incorporating courses and guidelines on data security and cyber security. The session was interactive and practical based. Total 150 students get benefited from this activity.

All Computer Science faculties were present for this event.





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	Date:
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Department of Economics

Department of Economics organized a guest lecture on Today's Need of Entrepreneurship on 17th Feb. 2020. Dr. Mandlekar, head dept. of Economics guided about business start up procedures. Madam also explained the government rules and regulations for business. Total 47 students were present. This programme was organized under the Mou of Maharastra centre of Entrepreneurship Development.



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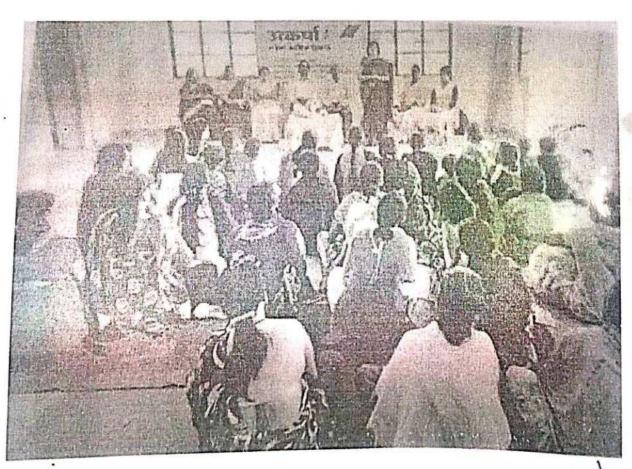


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Department of Economics 2019-20

A Women Entrepreneurs camp was organized by department of Economics in collaboration with PWS college, DNC & Maharstra Centre for Entrepreneurs development under the Mou Activity at Manav Vihar Kamptee at 27th Dec. 2019. Expert in different filed interacted with women entrepreneurs. They guided the for new business. Total 75 women entrepreneurs were participated in the camp.







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Açademic year: 2019-20

Activity- Educational visit to CIIMS Hospital & Research Centre, Nagpur.

Date of activity: 10th July, 2019

Place: CIIMS Hospital & Research Centre, Bajaj Nagar, Nagpur

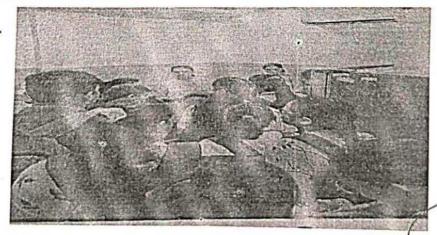
Objectives:

To inform students about medical R & D Lab in Nagpur

Introduce about advance techniques in field of medical Biotechnology

About the activity:

One Day educational visit to CIIMS (Hospital & Research Centre, Nagpur was organized on 10th July, 2019 for 11 PG students of Biotechnology. During this visit, students along with two faculties named Mr. Nishant Burade and Mr. Vijay Harode reached to the CIIMS research laboratory at 11:00 am. Initially, a seminar was organized on "Research for Entrepreneurship". The speaker was Dr. A. Patankar, assistant manager, SINE, IIT-Bombay. The highlights of presentation was entrepreneurship for young innovators and also focussed on commercialization of their patent. The CIIMS scientific group members showed research laboratory and different dept. of research lab like animal Tissue culture lab, Immunology, and Molecular section in details. All students get information about various instruments and recent research projects going on in research laboratory. Dr. Rajpal Singh Kashyap, Director of CIIMS research laboratory personally interacted with the students and give information about future scope in Biotechnology.



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Academic year: 2019-20

Activity- on occasion of Science study circle celebration guest lecture by Dr. Rajpal Kashyap, Director, CIIMS.

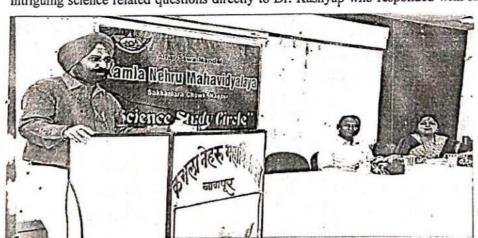
Date of activity: 27th August, 2019

Place: Kamla Nehru Mahavidyala, Nagpur

Objectives: To inform significance of science application in day to day life

About the activity:

Science Study Circle was organized on 27th August 2019 at Kamla Nehru Mahavidyalaya, Nagpur. Over 400 students and accompanying teachers from various stream and departments participated in this programme. On this occasion, a scientific lecture was organized and chief guest of the programme was Dr. Rajpal Singh Kashyap, Director, Research, CIIMS, Nagpur. The introductory lecture was given by Dr. Dilip Badwaik, Principal, Kamla Nehru College. Later Dr. Kashyap inaugurated science study circle and share his valuable thoughts. He introduced through his presentation details about the treatment of TB in relation to nanoparticles. He also emphasised the importance of science study circle, the work interaction between students & teacher & researcher. He also informed about the technology transfer wing available in CIIMS. In this programme, many inquisitive students asked intriguing science related questions directly to Dr. Kashyap who responded with satisfying answers.



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Academic year: 2023-24

Activity- Educational visit to CIIMS Hospital & Research Centre, Nagpur.

Date of activity: 20th April 2024

Place: CIIMS Hospital & Research Centre, Bajaj Nagar, Nagpur

Objectives:

- To inform students about medical R & D Lab in Nagpur
- Introduce about advance techniques in field of medical Biotechnology

About the activity:

One Day educational visit to CIIMS (Hospital & Research Centre, Nagpur was organized on 20th April 2021 for 27 UG and PG students of Biotechnology. During this visit, students along with two faculties named Dr. Pallavi Wanjari and Dr. Shweta Gahukar reached to the CIIMS research laboratory at 11:00 am. The CIIMS scientific group members showed research laboratory and different dept. of research lab like animal Tissue culture lab, Immunology, and Molecular section in details. All students get information about various instruments and recents research projects going on in research laboratory. Dr. Rajpal Singh Kashyap, Director of CIIMS research laboratory personally interacted with the students and give information about future scope in Biotechnology.



Principal Kamla Nehru Mahavidyalaya Sakkardara Chowk, Nagpur.



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Date: 29/06/2023

Academic Year - 2022-214

Activity - Placement of student (Activity under MoU with Kutch Soaps. Rajkot, Gujarat)

Date of Activity - 29-06-2023

Place - Department of Cosmetic Technology, Kamla Nehru Mahavidyalaya, Sakkardara, Nagpur

Objective - To give placement to students

About the Activity -

Under the aegis of "Activity under MoU", 05 students of M. Tech. Cosmetic Technology Semester IV, were interviewed by Mr. Amar Thakkar, CEO, Kutch Soaps, Rajkot, Gujarat. The interview was conducted by telephonic communication and one student got placement at Kutch Soaps, Rajkot, Gujarat as Executive –New Product Development with the yearly package of 2,50,000/-.

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Principal Kamla Nehru Mahavidyalaya Sakkardara Chowk, Nagpur.



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Date: 06 / 08 / 2022

Academic Year - 2021-22

Activity - Internship

Date of Activity - 01-07-2022 to 05-08-2022

Place - Kutch Soaps, Rajkot, Gujarat

Objective - To inculcate industrial knowledge among students

About the Activity -

Under the aegis of "Activity under MoU", 03 students of B.Tech. Cosmetic Technology, Semester VI were sent for internship at Kutch Soaps, Rajkot, Gujarat. During their tenure of internship, they worked in various departments of Industry and got full industrial exposure which will help them in their career.

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Date: 16 102 1 2022

Academic Year - 2021-22

Activity - Seminar on Recent Amendments in Drugs and Cosmetic Act

Date of Activity - 16-02-2022

Place - Department of Cosmetic Technology, Kamla Nehru Mahavidyalaya, Nagpur

Objective - To make students aware about Recent Amendments in Drugs and Cosmetic Act

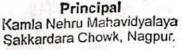
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About the Activity -

Under the aegis of "Activity under MoU", Department of Cosmetic Technology, Kamla Nehru Mahavidyalaya, organized virtual seminar on "Recent Amendments in Drugs and Cosmetic Act" on 16-02-2022. On this occasion Mr. Amar Thakkar, C.E.O., Kutch Soaps Rajkot, Gujarat, guided students about latest amendment in Drugs and Cosmetic Act. The activity was conducted under MoU between Kutch Soap, Rajkot, Gujarat and Kamla Nehru Mahavidyalaya, Sakkardara, Nagpur, Maharashtra to foster collaboration between two organizations for the benefit of students. 100 students and teachers of the department were benefitted by the seminar.







AMAR SEWA MANDAL'S (Regd. No. M/220/78 NGP) F-2299 (N)

KAMLA NEHRU MAHAVIDYALAYA

(ARTS, COMMERCE & SCIENCE)

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DR. (Smt.) SUHASINI G. WANJARI President Adv. ABHIJIT G. WANJARRI Secretary DR. DILIP S. BADWAIK Principal

Date: 17 102 1 2021

Academic Year - 2020-21

Activity - Expert lecture on "Selection Aspects of Various Ingredients for Cosmetic Formulations"

Date of Activity - 17-02-2021

Place - Department of Cosmetic Technology, Kamla Nehru Mahavidyalaya, Nagpur

Objective - To make students aware about Recent Cosmetic Ingredients

About the Activity -

Under the aegis of "Activity under MoU", Department of Cosmetic Technology, Kamla Nehru Mahavidyalaya, organized expert lecture on "Selection Aspects of Various Ingredients for Cosmetic Formulations" on 17-02-2021. On this occasion Mr. Amar Thakkar, C.E.O., Kutch Soaps Rajkot, Gujarat, guided students of Master of Cosmetic Technology about various ways of formulating cosmetic products. He also shared his industrial knowledge regarding recent cosmetic ingredients, safe and sustainable product development in the field of Cosmetic Technology. 30 students and teachers were benefitted by the expert lecture.



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AMAR SEWA MANDAL'S (Regd. No. M/220/78 NGP) F-2299 (II)

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DR. (Smt.) SUHASINI G. WANJARI President Adv. ABHIJIT G. WANJARRI Secretory DR. DILIP S. BADWAIK Principal

Date: 2210212021

Academic Year - 2020-21

Activity - Virtual Industrial Visit

Date of Activity - 22-02-2021

Place - Kutch Soaps, Rajkot, Gujarat

Objective - To inculcate industrial working knowledge among students

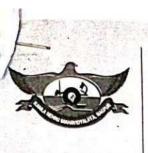
About the Activity -

Under the aegis of "Activity under MoU", 100 students and teachers of Department of Cosmetic Technology, Kamla Nehru Mahavidyalaya, Nagpur, visited Kutch Soaps, Rajkot, Gujarat, by online mode using Google Meet platform on 22-02-2021. Mr. Amar Thakkar, C.E.O. of Kutch Soap, Rajkot, Gujarat, showed various departments of industry such as R&D, Packaging, quality control and administrative office. Students were guided about manufacturing of creams, soaps and other personal care products.



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AMAR SEWA MANDAL'S (Regd. No. M/220/78 NGP) F-2299 (H)

KAMLA NEHRU MAHAVIDYALAYA

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DR. (Smt.) SUHASINI G. WANJARI President Adv. ABHIJIT G. WANJARRI Secretory DR. DILIP S. BADWAIK Principal

Date: 20/08/2019

Academic Year - 2018-19

Activity - Internship

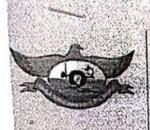
Date of Activity - 05-05-2019 to 15-06-2019

Place - Kutch Soaps, Rajkot, Gujarat

Objective - To inculcate industrial knowledge among students

About the Activity -

Under the aegis of "Activity under MoU", 04 students of B.Tech. Cosmetic Technology, Semester VI were sent for internship at Kutch Soaps, Rajkot, Gujarat. During their tenure of 6 weeks internship, they worked in various departments of Industry and got full industrial exposure which will help them in their career.



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DR. (Smt.) SUHASINI G. WANJARI President. Adv. ABHIJIT G. WANJARRI Secretary DR. DILIP S. BADWAIK Principal

Date: 30, 09,2019

Academic Year: 2019-20

Activity: Expert talk on panchgavya and herbal products

Participants Count: 17 Students

Date of Activity: 26/09/2019

Place: Go-Vigyan Anusandhan Kendra, Deolpar, Ramtek

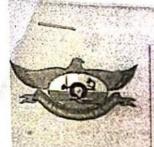
Objective: To promote awareness of benefits of panchgavya and national repository for panchagavya ayurvedic medicine.

The Department of Botany has organized an expert talk on benefits and importance of panchgavya in preparation of herbal products. Resousrce person Mr. Sunila Mansinghka, coordinator, Go-vigyan Anussandhan Kendra, Deolpar gave detailed introduction of panchgavya and explained its various religious medicinal and agricultural application which is applied in day to day life. Overall the talk was about numerous health benefits and eco-friendly properties of panchgavya which is gaining popularity in recent years.





PRINCIPAL Kamla Nehru Mahauldualava



AMAR SEWA MANDAL'S (Repl. No. 10/220/78 1059) F 2299 (85)

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DR. (Smt.) SUHASINI G. WANJARI President. Adv. ABHIJIT G. WANJARRI Secretory DR. DILIP S. BADWAIK Principal

Date: 30,09,2019

Academic Year: 2019-20

Activity: Educational visit to Go-Vigyan Anusandhan Kendra, Deolpar

Participants Count: 44 Students, 04 Teachers

Date of Activity: 26/09/2019

Place: Go-Vigyan Anusandhan Kendra, Deolpar, Ramtek

Objective: To educate students about panchagavya treatment using medicinal herbals in Indian medicine systems as well as to learn about vermicomposting and organic farming.

The Department of Botany has arranged an educational visit to Go-Vigyan Anusandhan Kendra, Deolpar with the intention of educating students about panchagavya treatment in Indian traditional medicine systems using a combination of medicinal herbals and phytoderivatives as well as to learn about vermicomposting and organic farming. Students learnt about various panchgavya products, biofertilizer production using vermicoposting. Also they had an idea about research activities at Govigyan kendra.



PRINCIPAL

Kamla Nehru Mahavidyalaya



AMAR SEWA MANDAL'S (Repd. No. 11/220/18 NGP) F2299 (16)

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DR. (Smt.) SUHASINI G. WANJARI President Adv. ABHIJIT G. WANJARRI Secretory DR. DILIP S. BADWAIK Principal

Date: 20,10,2022

Academic Year: 2022-23

Activity: Educational visit to Go-Vigyan Anusandhan Kendra, Deolpar

Participants Count: 46 Students, 05 Teachers

Date of Activity: 18/10/2022

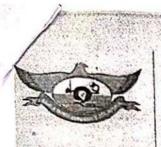
Place: Go-Vigyan Anusandhan Kendra, Deolpar, Ramtek

Objective: To educate students about panchagavya treatment using medicinal herbals in Indian medicine systems as well as to learn about vermicomposting and organic farming.

The Department of Botany has arranged an educational visit to Go-Vigyan Anusandhan Kendra, Deolpar with the intention of educating students about panchagavya treatment in Indian traditional medicine systems using a combination of medicinal herbals and phytoderivatives as well as to learn about vermicomposting and organic farming. Students learnt about various panchgavya products, bio-fertilizer production using vermicoposting. Also they had an idea about research activities at Govigyan kendra.







AMAR SEWA MANDAL'S (Rept. No. M/220/78 NGP) F-2299 (N)

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DR. (Smt.) SUHASINI G. WANJARI Prosident Adv. ABHIJIT G. WANJARRI Secretory DR. DILIP S. BADWAIK Principal

Date: 20, 10,2022

Academic Year: 2022-23

Activity: Expert talk on benefits and importance of panchgavya in preparation of herbal products

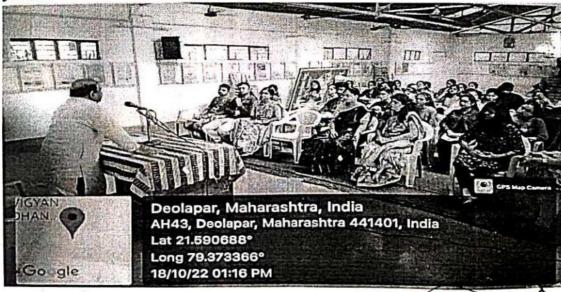
Participants Count: 46 Students, 05 Teachers

Date of Activity: 18/10/2022

Place: Go-Vigyan Anusandhan Kendra, Deolpar, Ramtek

Objective: To promote awareness of benefits of panchgavya and national repository for panchagavya ayurvedic medicine.

The Department of Botany has organized an expert talk on benefits and importance of panchgavya in preparation of herbal products. Resource person Dr. Sanjay Wate from Anurag College of Pharmacy, Bhandara gave detailed introduction of panchgavya and explained its various religious medicinal and agricultural application which is applied in day to day life. Overall the talk was about numerous health benefits and ecofriendly properties of panchgavya which is gaining popularity in recent years.



Kamla Nehru Mahavidyalaya



AMAR SEWA MANDAL'S (Regd. No. M/220/73 MGF) F-2299 (N)

A NEHRU MAHAVIDYALAYA

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DR. (Smt.) SUHASINI G. WANJARI President Adv. ABHIJIT G. WANJARRI Secretory DR. DILIP S. BADWAIK Principal

Date: 22 /

Academic Year

: 2021 -2022

Activity

: Seminar on Data Analysis using Python

Participants Count

: 222 Students, 4 Teachers

Date of Activity

: 21/02/2022

Objective

: To inculcate industrial working knowledge among students.

About the activity: Under the aegis of "Activity under MoU" Department of Computer Science organized a Guest Lecture on "Cyber Security Essentials

Protecting your Digital World " for Computer Science students

Department of Computer Science organized a seminar on "Data Analysis using Python" for Computer Science students. Since the Data analysis using python plays a crucial role in the education of computer science students. The goal of discovering useful information, drawing conclusions, and supporting decision-making. It involves various techniques and tools to understand and interpret data effectively. A Seminar was organized to help the students to develop their research and information retrieval and programming practices. The program was graced by Dr. Pradeep K. Butey, Hod. Deptt. of Computer science and faculty Dr. Aruna J. Chamatkar. Technical Person from Passel corporate Consultants Pvt. Ltd ,conduct the Session and he dealt the concept of essential of Data Analysis using Python and varies utilities of python. The session was interactive and practical based.

Total 222 students get benefited from this activity.

All Computer Science faculties were present for this event.





AMAR SEWA MANDAL'S (Regd. No. M/220/78 NGP) F-2299 (N)

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DR. (Smt.) SUHASINI G. WANJARI President Adv. ABHIJIT G. WANJARRI Secretary DR. DILIP S. BADWAIK Principal

Date: 19, 02, 202

Academic Year

: 2020 -2021

Activity

: Guest Lecture on Cyber Security Essentials:

Protecting your Digital World

Participants Count

: 249 Students, 4 Teachers

Date of Activity

: 17/02/2021

Objective

: To inculcate industrial working knowledge among students.

About the activity: Under the aegis of "Activity under MoU" Department of Computer Science organized a Guest Lecture on "Cyber Security Essentials Protecting your Digital World" for Computer Science students. Since the cyber security plays the essential role to protect digital world. A guest lecture was organized to help the students to develop their research and information retrieval and programming practices. The program was graced by Dr. Pradeep K. Butey, Hod, Deptt. of Computer science. Technical Person from Passel corporate Consultants Pvt. Ltd ,delivered the Lecture. He conduct the Session and dealt the concept of Cyber security involves a wide range of tools and technologies to protect networks, devices, programs, and data from attack, damage, or unauthorized access. some essential cyber security tools discussed by the guest. The session was interactive and practical based.

Total 249 students get benefited from this activity.

All Computer Science faculties were present for this event.





AHAVIDYALAYA MLA NEHRU M

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DR. (Smt.) SUHASINI G. WANJARI President Adv. ABHIJIT G. WANJARRI Secretory DR. DILIP S. BADWAIK Principal

KNM/

Academic Year

: 2019 -2020

Activity

: Workshop on Grid and Cloud Computing

Participants Count

: 182 Students, 4 Teachers

Date of Activity

: 16/03/2020

Objective

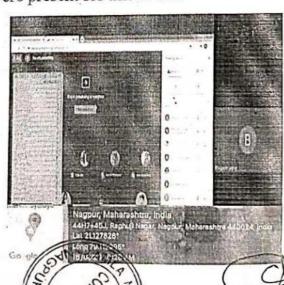
: To inculcate industrial working knowledge among students.

About the activity: Under the aegis of "Activity under MoU" Department of Computer Science organized a workshop on "Grid and Cloud Computing" for Computer Science students. As in workshop provide an information about Grid computing. This model leverages the collective power of multiple computing resources, often spread across different locations, to achieve high performance and resource efficiency. A workshop was organized to help the students to develop their research and information retrieval and programming practices. The program was graced by Dr. Pradeep K. Butey, Hod, Deptt. of Computer science and Dr. Aruna J. Chamatkar: Technical Person from Passel corporate Consultants Pvt. Ltd. conduct the Session and He dealt the concept of essential of Grid computing and how to manage networking together to perform large task and all its features in details. The session was interactive and practical based.

Total 182 students get benefited from this activity.

All Computer Science faculties were present for this event.





PRINCIPAL Kamla Nehru Mahavidyalaya, Sakkardara Chowk, Nagpur



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DR. (Smt.) SUHASINI G. WANJARI President Adv. ABHIJIT G. WANJARRI Secretary DR. DILIP S. BADWAIK Principal

Department of Environmental Science

"Rally at Maharajbagh Zoo" (4th March 2024)

Session: 2023-24

Aim: To organized Rally at Maharajbagh Zoo, Nagpur

Nature of Activity:-

Department of Environmental Science, Kamla Nehru Mahavidyalaya, Nagpur in collaboration with Maharajbagh Zoo had organized Rally on the occasion of "World Wildlife Day" on 4th March 2024. This rally was organized to aware people about wildlife conservation. In this rally our students tried to convey message to people and they made people aware and responsible for environmental protection.

No. of beneficiaries: 45

Outcomes: Students got knowledge about how to aware people for wildlife conservation.



PRINCIPAL Kamla Nehru Mahavidyalaya Gakkardara Chowk, Nagpur.



KAMLA NEHRU MAHAVIDYALAYA

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DR. (Smt.) SUHASINI G. WANJARI President Adv. ABHIJIT G. WANJARRI Secretary DR. DILIP S. BADWAIK Principal

Department of Environmental Science

Session: 2023-24

Expert Talk On "Wildlife Conservation" (4th October 2023)

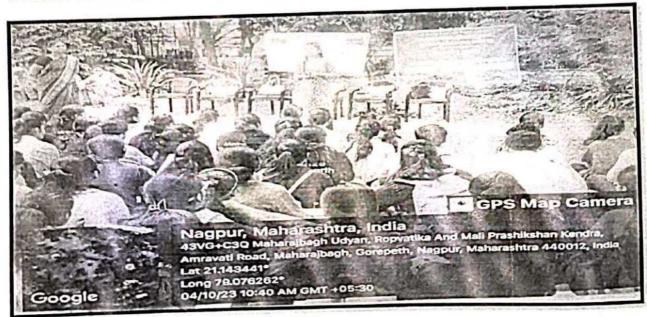
Aim: To conduct Expert talk on wildlife conservation.

Nature of Activity:

Department of Environmental Science of Kamla Nehru Mahavidyalaya, Nagpur in collaboration with Maharajbagh Zoo, Nagpur had organized Expert talk on "Wildlife Conservation" on 4th October 2023. The guest speaker for this event was Miss Prajakta C. Tandale, Education officer cum Biologist, Maharajbagh Zoo, Nagpur. They explain about what is wildlife conservation and what is it important to conserve wildlife and how does conservation affect of the environment.

No of Beneficiaries: 63

Outcome: Students get knowledge about wildlife conservation.



PRINCIPAL Kamla Nehru Mahavidyalaya Sakkardara Chowk, Nagpur



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AMAR SEWA MANDAL'S (Regd No.: M/220/78 NGP) F-2299 (N)

AMLA NEHRU MAHAVID

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Department of Environmental Science

Session: 2023-24

"Tree Plantation at Maharajbagh Zoo, Nagpur" (5th July 2023)

Aim: To organize tree plantation at Maharajbagh Zoo, Nagpur

Nature of Activity:

Department of Environmental Science & Department of Botany, Kamla Nehru Mahavidyalaya in collaboration with Maharajbagh Zoo, Nagpur had organized tree plantation program at Maharajbagh Zoo on 5th July 2023 on the occasion of "Van Mahotsav Saptah". There we planted various plants inside Maharajbagh Zoo like Azardiracta indica (Neem), Saracaasoca (Ashoka), Mangifera indica(Mango), Delonix regia (Gulmohar), Phyllanthus emblica (Amla), Tectona grandis (Teak), Acacia nilotica (Babul), Aegle marmelos(Bael), Nyctanthes arbor-tristis (Parijat)and many more.

No. of Beneficiaries: 37 students

Outcome: Students understood about sustainable practices & implementation of that (tree plantation) for balancing environment.



PRINCIPAL Kemia Nehru Mahavidyalaya Sakkardara Chowk, Nagru



KAMLA NEHRU MAHAVID

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DR. DILIP S. BADWAIK Principal DR. (Smt.) SUHASINI G. WANJARI President Adv. ABHIJIT G. WANJARRI Secretary

Department of Environmental Science

Session: 2023-24

Expert Talk On the occasion of "World Forest Day" (21st March 2024)

Aim: To organized Expert talk on the occasion of "World Forest Day".

Nature of Activity:

Department of Environmental Science, Kamla Nehru Mahavidyalaya, Nagpur in Collaboration with Maharajbagh Zoo, Nagpur had organized expert talk on the occasion of "World Forest Day" on 21st March 2024. The topic for expert talk was "Forests for Sustainable Developments: Role of Agro forestry & Successful Interventions" the guest speaker for this event was Dr. Vijay M. Horkar Senior Scientist & project Head, Agroforestry, Research Farm College of Agriculture, Nagpur (MS) (Dr. Panjabrao Deshmukh krishi vidyapeeth). Throughout the lecture the speaker provided different types of species and he positively motivated the students regarding taking up the steps for the same. They talk about agroforestry and their importance and uses of Bamboo cultivations

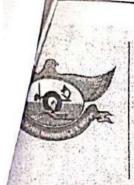
No of Beneficiaries: 26

Outcome: Students get knowledge about Agroforestry and bamboo cultivation.



PRINCIPAL Remie Nchru Mahavidyalaya Sakkerdara Chowk. Nagniii





MAHAVIDYALAYA

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NM/	 Date:
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Department of Environmental Science

"World Wildlife Day"

Poster Competition

Session: 2023-24

(4th March 2024)

Aim: To organize poster making competition at Maharajbagh Zoo on the occasion of "World Wildlife Day".

Nature of Activity:-

Department of Environmental science, Kamla Nehru Mahavidyalaya, Nagpur in collaboration with Maharajbagh Zoo, Nagpur organized poster making competition on the occasion of "World Wildlife Day" on 4th March 2024. The theme for poster competition was "Connecting people and Planet: Exploring Digital Innovation in Wildlife Conservation". Total 12 students had participated in this poster making competition. After final judgment we had selected best three posters for prize. The rubrics of the judgment were relevance to the theme, originality, creativity and message conveyed by poster.

No. of beneficiaries: 12 students

Outcomes: A poster making competition got students exploring their artistic skill & aware students through some coined interesting slogan.

> Kamia Nehru Mahavidyalaya Sakkardara Chowk, Nagpur.



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KAMLA NEHRU MAHAVIDYALAYA

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DR. (Smt.) SUHASINI G. WANJARI President Adv. ABHIJIT G. WANJARRI Secretary DR. DILIP S. BADWAIK Principal

Department of Environmental Science

Essay Competition (4th March 2024)

Session: 2023-24

Aim: To organized Essay Competition at Maharajbagh zoo on the occasion of "World Wildlife Day".

Nature of Activity:

Department of Environmental Science, Kamla Nehru Mahavidyalaya, Nagpur in collaboration with Maharajbagh Zoo, Nagpur organized Essay Competition on the occasion of "World Wildlife Day" on 4th March 2024. The topic for Essay was "Connecting people and Planet: Exploring Digital Innovation in Wildlife Conservation". Our students had participated in the competition and wrote on the topic and submitted in Environmental Science department in given time. There were 9 students had participated and each essay was so thoughtful and informative. All participants were awarded by participation certificate.

No of beneficiaries: 9 students

Outcomes: Writing encourages and enhances critical thinking, creative thinking and help organize thoughts and improve communication skills in students.



Kamia Neniu Mahavidyalaya Sakkardara Chowk, Nagpur



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Department of Environmental Science

Poster Competition (4th March 2024)

Session: 2023-24

Aim: To organize poster making competition at Maharajbagh Zoo on the occasion of "World Wildlife Day".

Nature of Activity:-

Department of Environmental science, Kamla Nehru Mahavidyalaya, Nagpur in collaboration with Maharajbagh Zoo, Nagpur organized poster making competition on the occasion of "World Wildlife Day" on 4th March 2024. The theme for poster competition was "Connecting people and Planet: Exploring Digital Innovation in Wildlife Conservation". Total 12 students had participated in this poster making competition. After final judgment we had selected best three posters for prize. The rubrics of the judgment were relevance to the theme, originality, creativity and message conveyed by poster.

No. of beneficiaries: 12 students

Outcomes: A poster making competition got students exploring their artistic skill & aware students through some coined interesting slogan.



PRINCIPAL

Remla Nehru Mahavidyalaya

Bakkerdara Chowk, Nagput



KAMLA NEHRU MAHAVIDYALAYA

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DR. (Smt.) SUHASINI G. WANJARI President Adv. ABHIJIT G. WANJARRI Secretary DR. DILIP S. BADWAIK Principal

Department of Environmental Science Poster Making Competition (4th October 2023)

Session: 2023-24

Aim: To organize Poster Making competition on the occasion of "World Wildlife Week"

Nature of Activity:

Department of Environmental Science, Kamla Nehru Mahavidyalaya Nagpur organized poster making competition in collaboration with Maharajbagh Zoo, Nagpur on the occasion of "World Wild life Week" on 4th October 2023. The Theme for poster competition was "Save Tiger". Total23students had participated in this poster making competition. The final judgment was made by Dr. G. K. Khadse Principal Scientist NEERI Nagpur. The rubrics of the judgment were relevance to the theme, originality, creativity and message conveyed by poster.

No. of beneficiaries: 23students

Outcomes: A poster making competition got students exploring their artistic skill & aware students through some coined interesting slogan.



PRINCIPAL
Ramia Nenru Manavidyalaya
Gakkerdara Chowk. Nespur



AMAR SEWA MANDAL'S (Regd. No. 14/220,78 NGP) F-2277 (N)

KAMLA NEHRU MAHAVIDYALAYA

(ARTS, COMMERCE & SCIENCE)

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DR. (Sml.) SUHASINI G. WANJARI President Adv. ABHIJIT G. WANJARRI Secretory DR. DILIP S. BADWAIK Principal

KNM/	

Date: 29 / 12 / 2023

Kamla Nehru Mahavidyalaya, Sakkardara, Nagpur Department of Zoology Session 2023-2024

Visit to Maharajbagh for various activities under MoU

Objectives-

- 1. To raise awareness about the wild animals and their habitat.
- Spreading awareness about the difficulties and action oriented steps to be implemented to prevent the extinction of wild animals.
- 3. Improve intellect of the students by participation to increase appreciation to conserve wild animals.

Actual Program:

The Department of Zoology, Kamla Nehru Mahavidyalaya. celebrated Wildlife Week 2023 from 02/10/2023 to 08/10/2023 at Maharajbagh Zoo. Nagpur by organizing various activities like poster conservation, expert talk and visit to zoo under MoU with Maharajbagh zoo. Students of B.Sc. and M.Sc. participated in these activities enthusiastically and learnt about wild life habitat and conservation. The expert talk by expert talk on 'wild life conservation' by Prajakta Tandale, education officer cum Biologist, Maharajbagh Zoo, Nagpur was very informative and knowledge enhancing and students aware about wild life habitat and its conservation. Staff members were accompanied the students and monitoring them.

Outcome of events:

- 1. Students learnt some interesting facts about wild life.
- 2. Such competition help spread awareness regarding saving the Tigers and wild animals.
- 3. Virtual platform-based competition gives better experience to the participants.

Beneficiaries: 25 students of B.Sc. and M.Sc.

Principal Kamla Nehru Mahavidyalaya Sakkardara Chowk, Nagpur.

Kamla Nehru Mahavidyalaya, Sakkardara, Nagpur Department of Zoology Session 2023-2024

Visit to Maharajbagh for various activities under MoU

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Actual Program-

The Department of Zoology, Kamla Nehru Mahavidyalaya,celebrated Wildlife Week 2023 from 02/10/2023 to 08/10/2023 at Maharajbagh Zoo, Nagpur by organizing various activities like poster conservation, expert talk and visit to zoo under MoU with Maharajbagh zoo.Students of B.Sc. and M.Sc. participated in these activities enthusiastically and learnt about wild life habitat and conservation. The expert talk by expert talk on 'wild life conservation' by PrajaktaTandale, education officer cum Biologist, Maharajbagh Zoo, Nagpurwas very informative and knowledge enhancing and students aware about wild life habitat and its conservation. Staff members were accompanied the students and monitoring them.

Outcome of events: students learnt some interesting facts about wild life.

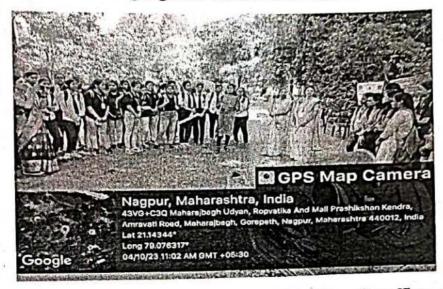
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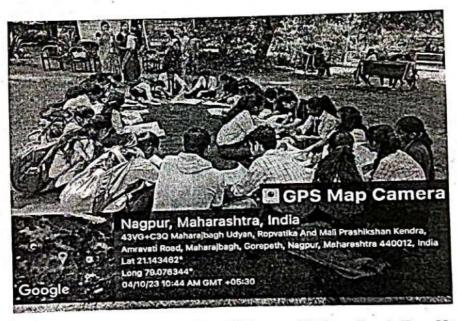
Principal
Kamla Nehru Mahavidyalaya
Sakkardara Chowk, Nagpur.

Kamla Nehru Mahavidyalaya, Sakkardara, Nagpur Department of Zoology Session 2023-2024

Visit to Maharajbagh for various activities under MoU



Expert talk on wild life conservation by PrajaktaTandale, Education officer cum Biologist,
Maharajbagh Zoo Nagpur



Poster competition on Conservation of Tigers atMaharajbagh Zoo, Nagpur

Principal
Kamla Nehru Mahavidyalaya
Sakkardara Chowk, Nagpur.



AMAR SEWA MANDAL'S (Regd No.: M/220/78 NGP) F-2299 (N)

KAMLA NEHRU MAHAVIDYALAYA

(ARTS, COMMERCE, SCIENCE & MANAGEMENT) SAKKARDARA CHOWK, NAGPUR - 440 024

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DR. (Smt.) SUHASINI G. WANJARI President Adv. ABHIJIT G. WANJARRI Secretary DR. DILIP S. BADWAIK Principal

Department of Environmental Science

Cleaning Drive (4th October 2023)

Session: 2023-24

Aim: To organize cleaning Drive on the occasion of "World Wildlife Week" at Maharajbagh Zoo, Nagpur.

Nature of Activity:

Department of Environmental Science, Kamla Nehru Mahavidyalaya Nagpur organized cleaning drive in collaboration with Maharajbagh Zoo Nagpur on the occasion of "World Wild life Week" on 4th October 2023 to promote civic sense among students community. At Maharajbagh Zoo our students aware local people in zoo not to throw paper plates, water bottle, paper cups, tissues, plastics and many unwanted things in gared, pathways, lawns, animal cage and other open areas which very unhygienic to all of us and to other wild life also. During this activity all students had cleaned area of Maharajbagh Zoo, pick up garbage, plastics and segregates it into biodegradable and non-biodegradable garbage.

No. of beneficiaries: 60 students

Outcomes: Students were made aware of bad effect of polythene and also they learnt the spirit of team work and leadership.



PRINCIPAL
Remia Nehru Mahavidyalaya
Gakkerdara Chowk. Nagpur



KNM/

AMAR SEWA MANDAL'S (Ragd. No. M/220/18 NGP) F-2299 (II)

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DR. (Sml.) SUHASINI G. WANJARI President Adv. ABHIJIT G. WANJARRI Secretary DR. DILIP S. BADWAIK Principal

1	Date :	1	/

Department of Environmental Science "Rally at Maharajbagh Zoo (4th October 2022) Session: 2022-23

Aim: To organize rally at Maharajbagh zoo on the occasion of "World Wildlife Week"

Department of Environmental Science, Kamla Nehru Mahavidyalaya, Nagpur in collaboration with MaharajBagh Zoo, Nagpur had organized rally at Maharajbagh Zoo on 4th October 2022. The objectives of rally was to aware people for wildlife conservation and to remind about saving resources which have been provided to us as nature's gift. In this rally posters, Charts, Banners, Placard used by students. Rally was started from entry gate of Maharajbagh Zoo and covered whole area of Maharajbagh Zoo. Theytried to explain that it is own and social responsibility of human being, to conserve wildlife and their habitat.

No. of beneficiaries: 27

Outcomes: Students has given message to people that the wildlife animals and plants are playing important role in maintain ecological balance.



PRINCIPAL Remis Nehru Mahavidyalays Betterdara Chowk Nagpur



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Department of Environmental Science Awareness Campaign (21st March 2023) Session: 2022-23

Aim: To conduct awareness campaign about water & forest conservation.

Department of Environmental Science, Kamla Nehru Mahavidyalaya & Maharajbagh Zoo Nagpur had organized awareness campaign at Maharajbagh Zoo on the occasion of "World Forest Day" on 21st March 2023 at Maharajbagh Zoo. Our students aware people about water and forest conservation & its importance. Students explained how to conserve water and natural resources. They made people aware & responsible for environmental protection.

No. of beneficiaries: 53

Outcomes: Students got knowledge about how to aware people for conservation of natural resources.



PRINCIPAL Ramia Nehru Mahavidyalays Sakkerdara Chowk. Nagaru



AMAR SEWA MANDAL'S (Regd. No. M/220/18 (IGP) F-2299 (II)

KAMLA NEHRU MAHAVIDYALAYA

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DR. (Smt.) SUHASINI G. WANJARI President Adv. ABHUIT G. WANJARRI Secretary DR. DILIP S. BADWAIK Principal

KNM/	 	14

Department of Environmental Science Session: 2022-23
"Cleaning Drive"(22nd April 2023)

Aim: To conduct plogging drive & ecobrick making program.

Nature of Activity:

Department of Environmental Science, Kamla Nehru Mahavidyalaya, MaharajBagh Zoo, Nagpur and Nagpur Ploggers (NGO) on the occasion of Earth Day jointly organized plogging drive at Maharajbagh Zoo & in its surrounding area on 22nd April 2023. After completion of plogging, the members of Nagpur ploggers explained about plastic recycling techniques & procedure for making of ecobricks from plastic waste to students & visitors of Maharajbagh Zoo. They also explained about works of Nagpur ploggers & aware to people & students for earth conservation from plastic waste. They also told about long term impact of plastics on earth & request people to join ploggers group or contribute for environmental conservation as a human being.

No. of beneficiaries: 20

<u>Outcomes</u>: Students got knowledge about making of ecobricks from plastic waste & aware about harmful effects of plastic waste pollution.



PRINCIPAL
Remis Nehru Mahavidyalaya
Bakkerdara Chowk, Nagpur



AMAR SEWA MANDAL'S (Regd. No. M/220/18 NGP) 1-2299 (III)

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DR. (Smt.) SUHASINI G. WANJARI President. Adv. ABHIJIT G. WANJARRI Secretary. DR. DILIP S. BADWAIK Principal

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Date	:	/	
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Department of Environmental Science Expert Talk on "Environmental Conservation" (17th May 2023) Session: 2022-23

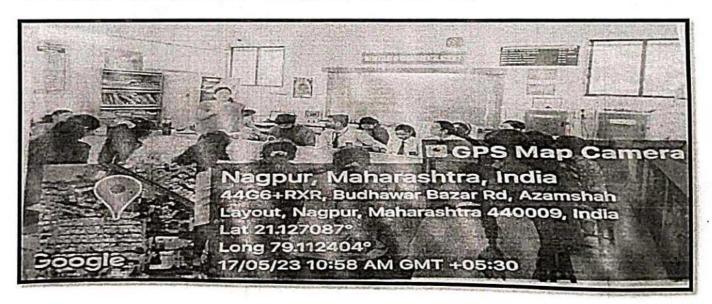
Aim: To conduct Expert talk on topic "Environmental Conservation".

Nature of Activity:

Department of Environmental Science, Kamla Nehru Mahavidyalaya Nagpur in collaboration with Maharajbagh Zoo, Nagpur had organized online (on Google Meet) expert talk on 17th May 2023 under the guidelines provided by G-20 (Energy Transition Working Group meeting).Mrs. SuvarnaKawale, Education Officer & Biologist Maharajbagh Zoo, Nagpur delivered lecture on "Environmental Conservation". She talked aboutimportance of forest, wildlife and water conservation.

No. of Beneficiaries: 40 Students

Outcome: Students came to know about Environmental Conservation



Kamla Nehru Mahavidyalaya Bakkerdara Chowk, Nagpur



AMAR SEWA MANDAL'S (Regd. No. M/220/78 NGP) F-2299 (III)

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DR. (Smt.) SUHASINI G. WANJARI President - Adv. ABHIJIT G. WANJARRI Secretory - Dr. DILIP S. BADWAIK Principal

Department of Environmental Science Expert Talk on "Climate Change and Biodiversity" (20th May 2023) Session: 2022-23

Aim: To conduct Expert talk on topic "Climate Change and Biodiversity".

Nature of Activity:

Department of Environmental Science, Kamla Nehru Mahavidyalaya Nagpur in collaboration with Maharajbagh Zoo, Nagpur had organized expert talk on 20th May 2023 under the guidelines provided by G-20 (Energy Transition Working Group meeting). Mrs. Suvarna Kawale, Education Officer & Biologist Maharajbagh Zoo, Nagpur delivered lecture on "Climate Change and Biodiversity". She talked about climate change and how climate change affects biodiversity, and responsible for its loss.

No. of Beneficiaries: 33

Outcome: Students came to about the climate change and biodiversity and reasons behind climate change and biodiversity loss.



Ramia Nehru Mahavidyalaya Sakkerdara Chowk, Nagpur



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AMAR SEWA MANDAL'S (Regd. No. 11/220/78 HGP) F-2299 (B)

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DR (Smt.) SHULGIN O. HANDERS	ABHIJIT G. WANJARRI Secretory & DR. DILIP S. BADWAIK Principal	POST PRO
WANJARI President A	WARHITI G. WANDAKKI SECERTLY SOLO	
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Department of Environmental Science "World Environment Day" "Signature & Awareness Campaign" (5th June 2023) Session: 2022-23

Aim: To Conduct Signature & awareness Campaign for Environmental protection.

Nature of Activity:

Department of Environmental Science, Kamla Nehru Mahavidyalaya, Nagpur in collaboration with Maharajbagh Zoo, Nagpur organized Signature & Awareness campaign on 5th June 2023 on the occasion of "World Environment Day" at Maharajbagh Zoo, Nagpur. At Maharajbagh Zoo all people and students had took pledge for Environmental Protection and make possible changes in daily life to protect environment also commit to continuously motivate family, friends and others about the importance of environment friendly habits. Students tried to aware zoo visitors for protection of environment and explained them how we can protect our environment by changing our life style and habits.

No. of Beneficiaries: 17 Students

Outcomes: Students came to know importance of environmental awareness for environmental conservation.



PRINCIPAL Ramia Nehru Mahavidyalaya Bakkerdere Chowk. Nagpur



AMAR SEWA MANDAL'S (Regd. No. M/220/78 NGP) F-2299 (II)

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•	Date :/
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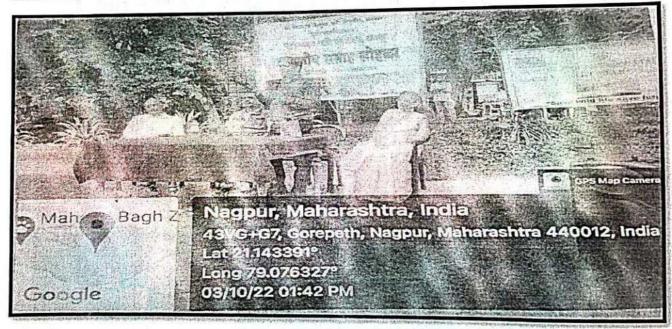
Department of Environmental Science Expert Talk (3rd October 2022) Session: 2022-23

Aim: To conduct Expert talk on the occasion of "World Wild Life Week 2022" on topic "Zoo Enclosure".

Department of Environmental Science, Kamla Nehru Mahavidyalaya, Nagpur in collaboration with Maharajbagh Zoo, Nagpur had organized expert talk on 3rd October 2022 on the occasion of "World Wild Life Week 2022". Dr. Pramod Panchbhai, Zoo Enclosure Expert, New Delhi delivered lecture on Zoo Enclosure. He explained about types of enclosure and its structure. He had also explained about enclosure management.

No. of Beneficiaries: 59 students

Outcome: Students came to know about zoo enclosure and their management.



PRINCIPAL Remia Nehru Mahavidyalaya Sakkardara Chowk, Naggu-



AMAR SEWA MANDAL'S (Regd Ha. 14/770/18 HCP3 [77799 UI)

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DR. (Smr.) SUHASINI G. WANDARI Pie	sldent Adv. ABH	JIT O WANJARKI SE	(IBIOIV. D.	Contract
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Department of Environmental Science

"Awareness Activity at Maharajbagh Zoo" (3rd October, 2022)

Session: 2022-2023

Aim: To perform street Play on the occasion of world wildlife week at Maharajbagh Zoo.

Nature of Activity:

Department of Environmental Science, Kamla Nehru Mahavidyalaya, Nagpur in collaboration with Maharajbagh Zoo had organized skit on the occasion of world wildlife week on 3rd October 2022. The theme for skit was conservation of wildlife. The purpose of the Street play was to aware people about wildlife conservation. In street play students explained about endangered species, extinct species, how man is responsible for ecosystem disturbance & extinction of wildlife species. They aware people for importance of conservation of wildlife for human existence.

No. of Beneficiaries: 59 (9 - Participant)

Outcomes: Local visitors came to know about importance of wildlife conservation & how they are important for our existence.



Kamia Nehru Mahavidyalaya Bakkardara Chowk, Nagpur



AMAR SEWA MANDAL'S (Regd. No. 11/220/78 NGP) F-2299 (N)

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DR. (Sml.) SUHASINI G. WANJARI President Adv. ABHIJIT G. WANJARRI Secretory DR. DILIP S. BADWAIK Principal

	Date :/
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Department of Environmental Science

Session: 2022-2023

"Visit to Maharajbagh Zoo for Bird Watching" (12th November 2022)

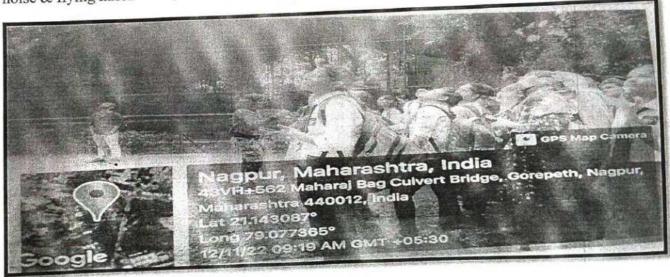
Aim: To conduct Visit for bird watchingon the occasion of "World Bird Day"

Nature of Activity:

Department of Environmental Science, Kamla Nehru Mahavidyalaya, Nagpur had organized field visit to Maharajbagh Zoo, Nagpur on date 12th November 2022 for bird watching with Dr. Kalpana Chinchkhede, Range Forest Officer, FDCM, Nagpur and Mrs. Suvarna Kawale, Education officer, Maharajbagh Zoo.Students observed birds with the help of binocular, followed by informative talk by Dr. Kalpana Chinchkhedeon onsite experience of birding.

No. of Beneficiaries: 66 Students

Outcome: Students had observed birds & understood how to identify birds by their appearance, noise & flying habit.



Kamia Nehru Mahavidyalaya Sakkardara Chowk. Nagpur

Kamla Nehru Mahavidyalaya, Nagpur Department of Environmental Science Awareness Campaign "Celebration of World Forest pay" (21st March 2023) Session: 2022-23

im: To conduct awareness campaign about water & forest conservation.

ature of Activity:

epartment of Environmental Science, Kamla Nehru Mahavidya laya & aharajbagh Zoo Nagpur had organized awareness campaign at Maharajbagh Zoo 1 the occasion of "World Forest Day" on 21st March 2023 at Maharajbagh oo. Our students aware people about water and forest conservation & its aportance. Students explained how to conserve water and natural resources. They ade people aware & responsible for environmental protection.

o. of beneficiaries: 53

Jutcomes: Students got knowledge about how to aware people for conservation f natural resources.

> Principal Kamla Nehru Mahavi d yalaya Sakkardara Chowk, Nagpur.

Kamla Nehru Mahavidyalaya, Plagpur Department of Environmental Science

Session: 2022-23

"Earth Day Celebration"

"Cleaning Drive"

(22nd April 2023)

Aim: To conduct plogging drive & ecobrick making program.

Nature of Activity:

Department of Environmental Science, Kamla Nehru Mahavidyalaya, Maharaj, Bagh Zoo, Nagpur and Nagpur Ploggers (NGO) on the occasion of Earth Day jointly organized plogging drive at Maharajbagh Zoo & in its surrounding area or 22nd April 2023. After completion of plogging, the members of Nagpur ploggers explained about plastic recycling techniques & procedure for making of ecobricks from plastic waste to students & visitors of Maharajbagh Zoo. They also explained about works of Nagpur ploggers & aware to people & students for earth conservation from plastic waste. They also told about long term impact of plastics on earth & request people to join ploggers group or contribute for environmental conservation as a human being.

No. of beneficiaries: 20

Outcomes: Students got knowledge about making of ecobricks from plastic waste & aware about harmful effects of plastic waste pollution.

Principal
Kamla Nehru Mahavidyalasya
Sakkardara Chowk, Nagp ur.

Kamla Nehru Mahavidyalaya, Nagpur Department of Environmental Science "World Earth Day Celebration" Session: 2022-23

(22nd April, 2023)

Aim: To conduct awareness campaign at Maharajingh Zoo, Nagpur on the occasion of "World Earth Day"

Nature of Activity:

Department of Environmental Science, Kamla Nehru Mahavidyalaya, Nagpur in collaboration with Green Vigyl Foundation, Nagpur organized Environmental awareness campaign on 22nd April 2023 at 5pm at Maharajbagh Zoo, Nagpur. Students awared local peoples about environmental protection. They explained about importance of environment & its conservation to the local peoples.

No. of beneficiaries: 25

Outcomes: Students came to know their responsibility towards conservation of environment.

Principal
Kamla Nehru Mahavidyalaya
Sakkardara Chowk, Nagpur.

Kamla Nehru Mahavidyalaya Nagpur Department of Environmental Science

Expert Talk

Session: 2022-23

(20th May 2023)

Aim: To conduct Expert talk on topic "Climate Change and Biodiversity".

Nature of Activity:

Department of Environmental Science, Kamla Nehru Mahavidyalaya Nagpur in collaboration with Maharajbagh Zoo, Nagpur had organized expert talk on 20th May 2023 under the guidelines provided by G-20 (Energy Transition Working Group meeting). Mrs. Suvarna Kawale, Education Officer & Biologist Maharajbagh Zoo, Nagpur delivered lecture on "Climate Change and Biodiversity". She talked about climate change and how climate change affects biodiversity, and responsible for its loss.

No. of Beneficiaries: 33

Outcome: Students came to about the climate change and biodiversity and reasons behind climate change and biodiversity loss.

Principal
Kamla Nehru Mahaviyalaya
Sakkardara Chenik Haspur



AMAR SEWA MANDAL'S (Roya to .. 8/770/18 MG) \$ 2797 (M)

A NEHRU MAHAVIDYALAYA

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SMEARDARA CHOWN, NACHAR 440 078 - Ph. (0712) 2747853, 2747854, 2747858, 2749784 ta : (0712) 7747853 • email: Lecrop@neiffroil.com • website: were Lociosebricallege in in





(Sml.) SUHASINI G. WANJARI President — Adv. ABHIJIT G. WANJARRI Societory — DR. DILIP S. BADWAIK Priorop

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Department of Environmental Science

"Awareness Activity at Maharajbagh Zoo" (2nd June 2023)

Session: 2022-2023

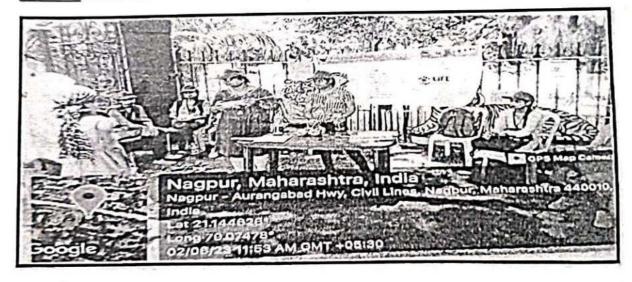
Aim: To organize awareness campaign on "Lifestyle for Environmental conservation" at Maharajbagh Zoo, Nagpur

Nature of Activity:

Department of Environmental Science, Kamla Nehru Mahavidyalaya, Nagpur in collaboration with Maharajbagh Zoo had organized awareness campaign on "Lifestyle for Environmental Conservation" on 2nd June 2023. Mrs. Suvarna Kawale, Educational Officer & Biologist, Maharajbagh Zoo, Nagpur guided students about changes in lifestyle for Environmental protection followed by workshop on ecobricks making for plastic waste Management. After that our students talked to visitors regarding plastic waste management and tried to aware them for the same.

No. of Beneficiaries: 16 Students

Outcomes: Local visitors came to know about importance of Plastic waste management.



Kemia Nehru Mahavidyalaya Bakkerdare Chowk, Nagpur

Kamla Nehru Mahavidyalaya, Nasipur Department of Environmental Science "World Environment Day"

"Signature & Awareness Campaign"

Session: 2022-23

(5th June 2023)

Aim: To Conduct Signature & awareness Campaign for Environmental protection.

Onure of Activity:

Department of Environmental Science, Kamla Nehru Mahavidyalaya, Nagpur in collaboration with Maharaj Bagh Zoo, Nagpur organized Signature & Awareness campaign on 5th June 2023 on the occasion of "World Environment Day" at Maharajbagh Zoo, Nagpur. At Maharajbagh Zoo all people and students had took pledge for Environmental Protection and make possible changes in daily life to protect environment also commit to continuously motivate family, friends and others about the importance of environment friendly habits. Studen ts tried to aware zoo visitors for protection of environment and explained them how we can protect our environment by changing our life style and habits.

No. of Beneficiaries:17

Outcomes: Students came to know importance of environmental a wareness for environmental conservation.

Principal
Kamla Nehrus Mahavidyalaya
Sakkardara Choule Name



AMAR SEWA MANDAL'S (Rogd. No. M/220/78 NGP) F-2299 (N)

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KNM/

Department of Environmental Science Expert Talk (3rd March 2022) Session: 2021-22

Aim: To conduct Expert talk on the occasion of "World Wildlife Day"

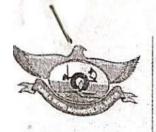
Nature of Activity:

Department of Environmental Science, Kamla Nehru Mahavidyalaya, Nagpur in collaboration with Maharaj Bagh Zoo, Nagpur had organized expert talk on 3rd March 2022 on the occasion of "World Wildlife Day". Mrs. Suvarna Kawale, Education Officer & Biologist Maharaj Bagh Zoo, Nagpur delivered lecture on "Zoo Management". In this lecture she had explained about daily routine of animals and birds in zoo, their food and habits, medication & cleaning of caves. No. of Beneficiaries: 52

Outcome: Students had get knowledge about the management of zoo, Principle & rules of zoo.



PRINCIPAL Kamia Nehru Mahavidyalaya Sekkerdara Chowk, Nagpur



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KNM/

Department of Environmental Science

Session: 2021-2022

"Awareness Programme at Maharaj bagh Zoo" (3rd March 2022)

Aim: To create public awareness

Nature of Activity:

Department of Environmental Science, Kamla Nehru Mahavidyalaya, Nagpur in collaboration with Maharaj bagh Zoo had organized awareness program at Maharajbag zoo on the occasion of "World Wildlife Day" on 3rd March 2022. Basically awareness for Do's and Don'ts at zoo by students. Mrs. Suvarna Kawale, Education officer, Maharajbagh zoo, Nagpur had explained about zoo management & also about Do's and Don'ts at zoo. According to that plan had made by students and they conducted awareness among local peoples who were present at Maharajbagh Zoo.

No. of Beneficiaries: 39 Students

Outcome: Students get detailed information about Do's and Don'ts at Maharajbagh Zoo.



PRINCIPAL Remia Nehru Mahavidyalaya Bakkerdara Chowk, Nagpur



AMAR SEWA MANDAL'S (Regd. No. M/220/78 MGP) F-2299 (10)

KAMLA NEHRII MAHAVIDYALAYA

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KNM/____

Date:___/__/___

Department of Environmental Science

Session: 2021-2022

"Visit to Maharajbagh Zoo" "World Wildlife Day" (3rd March 2022)

Aim: To conduct Visit to Maharaj bagh zoo

Nature of Activity:

Department of Environmental Science, Kamla Nehru Mahavidyalaya, Nagpur had organized field visit to Maharaj Bagh Zoo on 3rd March 2022 on the occasion of "World Wildlife Day". Student had visited to each cage of animals & birds and observed them and study about them. Biologist of Maharaj Bagh Zoo had given information about all animal's nature, their food habits and behavior.

No. of Beneficiaries: 39

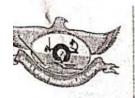
Outcome: Students gained knowledge about animals and birds in zoo, as well as their nature & habits.



PRINCIPAL

Remia Nehru Mahavidyalaya

Bakkerdara Chowk, Nagpui



AMAR SEWA MANDAL'S (Regd. No. M/220/78 NGP) F-2299 (N)

KAMLA NEHRU MAHAVIDYALAYA

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DR. (Smt.) SUHASINI G. WANJARI President -- Adv. ABHIJIT G. WANJARRI Secretory -- DR. DILIP S. BADWAIK Principal

NM/_____

Date:___/___/___

Department of Environmental Science Expert Talk (1st October 2021) Session: 2021-22

Aim: To conduct Expert talk on the occasion of "World Wild Life Week 2021" on topic "Indian Tortoise".

Nature of Activity:

Department of Environmental Science, Kamla Nehru Mahavidyalaya Nagpur in collaboration with Maharajbagh Zoo, Nagpur had organized online (on Google Meet) expert talk on 1st October 2021 on the occasion of "World Wild Life Week".Mrs. Suvarna Kawale, Education Officer & Biologist Maharajbagh Zoo, Nagpur delivered lecture on "Indian Tortoise". She talked about various species of tortoise found in India, life of tortoise, habitat and life span in detail.

No. of Beneficiaries: 61 students

Outcome: Students came to about the various species of Tortoise.



PRINCIPAL

Ramia Nehru Mahavidyalaya

Sokkardara Chowk, Nagpur



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	Date:	

Department of Environmental Science Poster Competition (4th October 2021) Session: 2021-22

Aim: To organize Poster competition on topic "Endangered Species" On the occasion of "World Wild Life Week 2021"

Nature of Activity:

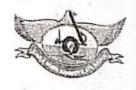
Department of Environmental Science, Kamla Nehru Mahavidyalaya Nagpur in collaboration with Maharajbagh Zoo, Nagpur had organized poster competition on 4th October 2021 on the occasion of "World Wild Life Week". We have taken poster competition at Maharajbagh Zoo. The topic for the poster competition was "Endangered Species". Many students had participated in this competition very actively. We had given an hour to participants for making poster. Best three posters had been selected and given prize and certificate. 1st prize to Pooja Suresh Wanve M.Sc. 2nd year.2nd prize gone to Nupoor Bhurle M.Sc. 2nd year and 3rd to Krupesh Sawalkar B.Sc. 1st year.

No. of beneficiaries: 20 students

Outcomes: Students developed skill as well as came to know about endangered species.



PRINCIPAL Kemia Nehru Mahavidyalaya Sakkardara Chowk, Nagpur



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DR. (Smt.) SUHASINI G. WANJARI President Adv. ABHIJIT G. WANJARRI Secretory. DR. DILIP S. BADWAIK Principal

Department of Environmental Science Session: 2021-22 Awareness Activity (4th October 2021)

Aim: To Create Public awareness

Nature of Activity:

Department of Environmental Science, Kamla Nehru Mahavidyalaya, Nagpur in collaboration with Maharaj Bag Zoo, Nagpur had organized Skit on the occasion of "World Wild Life Week 2021". This Skit was organized on 4th October 2021 at 12.30 pm. The topic for the skit was "Wild Life Conservation". At entrance of Maharajbagh Zoo our students had presented skit on wild life conservation very effectively and spread awareness in people for protection and importance of wildlife.

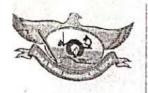
No. of beneficiaries: 30 Students

Outcome: Students developed skill as well as came to know about importance of Wildlife

conservation.



Ramia Nehru Mahavidyalay. Bakkerdera Chowk, Nagpur



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Department of Environmental Science

Session: 2021-2022

Visit to Maharajbagh Zoo (4th October 2021)

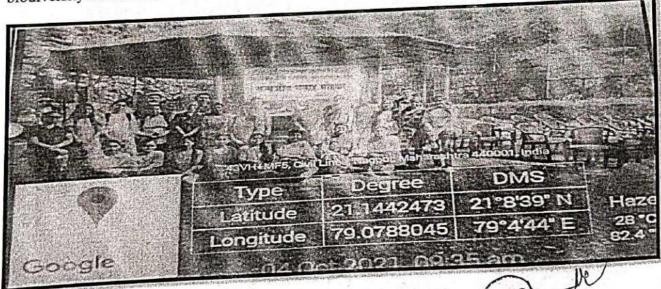
Aim: To conduct Visit

Nature of Activity:

Department of Environmental Science, Kamla Nehru Mahavidyalaya, Nagpur in collaboration with Maharajbagh Zoo, Nagpur had organized field visit to Maharajbagh Zoo on the occasion of "World Wildlife Week Celebration 2021". We reached to Maharajbagh Zoo at 9 am. There we interacted with animal keepers. They told us about how they were cleaning cage of animals and birds, feeding of animals, washing, caring of them etc. After that we visited at various animal cage. We had seen their many animals like tiger, sloth beer, leopard, different species of Monkey, Nilgai, tortoise, peacock, birds like parrot, Cocktail, Sparrow etc. Information regarding all of these animals and birds has given by Mrs. Suvarna Kawale, Education Officer, Maharaj bagh Zoo.

No. of Beneficiaries: 39

Outcome: From this visit students get knowledge about the management of zoo and importance of biodiversity conservation.



PRÍNCIPAL Kemie Nehru Mahavidyalays Sakkardara Chowk, Nagpur



AMAR SEWA MANDAL'S (Regd. No. M/220/78 HGP) F-2299 (N)

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KNM/			

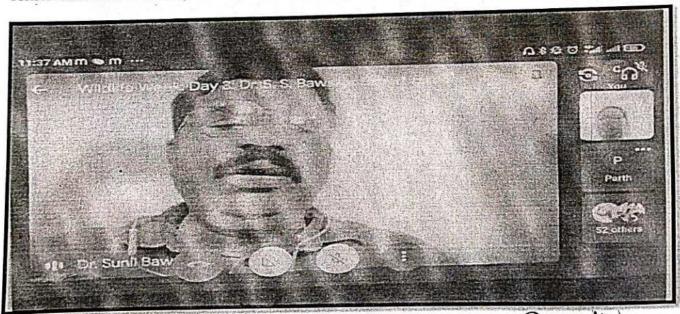
Department of Environmental Science Expert Talk (5th October 2021) Session: 2021-22

Aim: To conduct Expert talk on the occasion of "World Wild Life Week 2021" on topic "Brief History of Maharajbagh Zoo".

Department of Environmental Science, Kamla Nehru Mahavidyalaya, Nagpur had organized online (on Google Meet) expert talk on 5th October 2021 the occasion of "World Wild Life Week 2021".Dr. Sunil Bawaskar, Incharge, Maharajbagh Zoo delivered lecture on Brief History of Maharajbagh Zoo. He had explained how Maharajbagh Hunting place for RajeBhonsle was converted into Maharajbagh Zoo.

No. of Beneficiaries: 55 students

Outcome: Students get knowledge about Maharajbag zoo which is an example of ex-situ conservation of biodiversity.



PRINCIPAL Kemia Nehru Mahavidyalaya Sakkerdara Chowk, Nagpur

Kamla Nehru Mahavidyalaya, Nagpur Department of Environmental Science

Expert Talk

Session: 2021-22

(3rd March 2022)

"World Wildlife Day"

Aim: To conduct Expert talk on the occasion of "World Wildlife Day"

Nature of Activity:

Department of Environmental Science, Kamla Nehru Mahavidyalaya, Nagpur in collaboration with Maharaj Bagh Zoo, Nagpur had organized expert talk on 3rd March 2022 on the occasion of "World Wildlife Day". Mrs. Suvarna Kawale, Education Officer & Biologist Maharaj Bagh Zoo, Nagpur delivered lecture on "Zoo Management". In this lecture she had explained about daily routine of animals and birds in zoo, their food and habits, medication & cleaning of caves.

No. of Beneficiaries: 52

Outcome: Students had get knowledge about the management of zoo, Principle & rules of zoo.

PRINCEPAL Kamla Nashru Mahavidyalaya

Kamla Nehru Mahavidyalaya Department of Environmental Science

Session: 2021-2022

"Visit to Maharaj bagh Zoo"

(3rd March 2022)

"World Wildlife Day"

Aim: To conduct Visit to Maharaj bagh zoo

Nature of Activity:

Department of Environmental Science, Kamla Nehru Mahavidyalaya, Nagpur had organized field visit to Maharaj Bagh Zoo on 3rd March 2022 on the occasion of "World Wildlife Day". Student had visited to each cage of anim als & birds and observed them and study about them. Biologist of Maharaj Bagh Zo-o had given information about all animal's nature, their food habits and behavior.

No. of Beneficiaries: 39

Outcome: Students gained knowledge about animals and birds in zoo, as well as their nature & habits.

PRINCIPAL
Kemla Nohru Mahawidalaya
Sakkardana Chowk Normus

4

Kamla Nehru Mahavidyalaya, Nagpur Department of Environmental Science

Session: 2021-2022

"Awareness Programme at Maharaj bagh Zoo" ("World Wildlife Day Celebration 2022")

(3rd March 2022)



Aim: To create public awareness

Nature of Activity:

Department of Environmental Science, Kamla Nehru Mahavidyalaya, Nagpur in collaboration with Maharaj bagh Zoo had organized awareness program at Maharajbag zoo on the occasion of "World Wildlife Day" on 3rd March 2022. Basically awareness for Do's and Don'ts at zoo by students. Mrs. Suvarna Kawale, Education officer, Maharajbagh zoo, Nagpur had explained about zoo maragement & also about Do's and Don'ts at zoo. According to that plan had made by students and they conducted awareness among local peoples who were present at Maharajbagh Zoo.

No. of Beneficiaries: 39

Outcome: Students get detailed information about Do's and Don'ts at Maharajbagh Zoo.

FRINCTP AL Kamla Nehru Mala Magau Sakkardara Chowk, Nagau



AMAR SEWA MANDAL'S (Regd. No. M/220/18 NGP) F-2299 (N)

KAMLA NEHRU MAHAVIDYALAYA

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KNM/

Date : ____/____/____

Department of Environmental Science

Session: 2021-2022

"Visit to Maharaj bagh Zoo for Bird Watching" (10th November 2021)

Aim: To conduct Visit for bird watching

Nature of Activity:

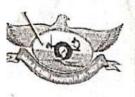
Department of Environmental Science, Kamla Nehru Mahavidyalaya, Nagpur had organized field visit to Maharaj bag zoo on date 10th November 2021, for bird watching with Dr. Kalpana Chinchkhede, Range Forest Officer, FDCM, Nagpur and Mrs. Suvarna Kawale, Education officer, Maharajbagh Zoo. Students observed birds with the help of binocular, followed by informative talk by Dr. Kalpana Chinchkhede on onsite experience of birding.

No. of Beneficiaries: 20

Outcome: Students had observed birds & understood how to identify birds by their appearance, noise & flying habit.



PRINČIPAL Remia Nchru Mahavidyalay. Bekkerdara Chowk, Nagpur



AMAR SEWA MANDAL'S (Regd. No. 14/220/78 NGP) F-2299 (II)

KAMLA NEHRU MAHAVIDYALAYA

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dent Adv. ABHIJIT G. WANJARRI Secretary DR. DILIP S. BADWAIK Principal

Date:____/____

Department of Environmental Science

Session: 2020-2021

Expert Talk On "Importance of Birds" (5th November 2020)

Aim: To conduct Expert talk on the occasion of "Birds Week" on topic Importance of Birds

Nature of Activity:

Department of Environmental Science, Kamla Nehru Mahavidyalaya, Nagpur in collaboration with Maharajbag Zoo, Nagpur & Institute of Science had organized online (On Google meet) expert talk on "Importance of Birds". This topic was expertised by Dr. S. S. Bawaskar, Incharge, Maharaj Bag Zoo, Nagpur. He explained why we celebrate birds weeks & its importance & many more information about that.

No. of Beneficiaries: 67 students were benifited.

Outcome: Students got information about National birds week & its importance.



PRINCIPAL
Remia Nehru Mahavidyalaya
Bekkerdara Chowk, Nagpur



AMAR SEWA MANDAL'S (Regd. No. M/220/78 NGP) F-2299 (ID

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KNM/	

Date	:	/	/

Department of Environmental Science

Session: 2020-2021

Expert Talk On "Birds in & Around Nagpur" (6th November 2020)

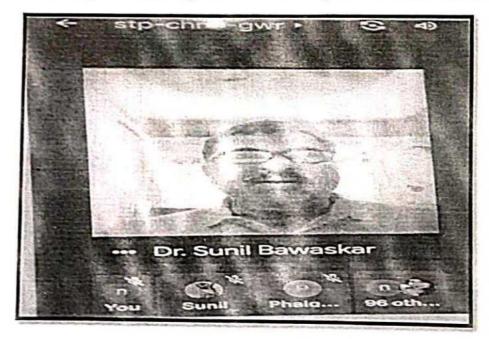
Aim: To conduct Expert talk on the occasion of "Birds Week" on topic Birds in & Around Nagpur

Nature of Activity:

Department of Environmental Science, Kamla Nehru Mahavidyalaya, Nagpur in collaboration with Maharajbag Zoo, Nagpur & Institute of Science, Nagpur had organized online (On Google meet) expert talk on "Birds in & Around Nagpur". This topic was expertised by Dr. S. S. Bawaskar, Incharge Maharajbagh Zoo, Nagpur. He explained about variety of birds in and around Nagpur & their characteristics and behavior.

No. of Beneficiaries: 70 students were benifited

Outcome: Students has gained knowledge about vernacular species of birds in And around Nagpur.



PRINCIPAL
Ramia Nehru Mahavidyalaya
Sakkardara Chowk Negpur



AMAR SEWA MANDAL'S (Rogel No. 11/200/78 NSP) 1-2259 (TO

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Department of Environmental Science

Session: 2020-2021

Expert Talk On "Introduction to Common Birds" (7th November 2020)

Aim: To conduct Expert talk on the occasion of "Birds Week" on topic Introduction to Common Birds

Nature of Activity:

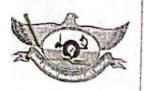
Department of Environmental Science, Kamla Nehru Mahavidyalaya, Nagpur in collaboration with Maharajbag Zoo, Nagpur & Institute of Science, Nagpur had organized online (On Google meet) expert talk on "Introduction to Common Birds" on 7th Nov. 2020. This topic was expertized by Miss Kalpana Chinchkhede, Range Forest Officer, FDCM, Nagpur. He explained about which common birds present around us & present condition of that birds with characteristics.

No. of Beneficiaries: 70 students

Outcome: Students gained information about common bird's species around us.



Ramla Nehru Mahavidyalay. Sakkardara Chowk Nagpur



AMAR SEWA MANDAL'S (Reyd. No. 11/220/18 NGP) 1-2299 (II)

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KNM/

Department of Environmental Science

Session: 2020-2021

"Visit to Maharajbagh Zoo" (7th November 2020)

Aim: To conduct Visit

Nature of Activity:

Department of Environmental Science, Kamla Nehru Mahavidyalaya, Nagpur had organized field visit to Maharaj bag zoo on date 7th November 2020, for bird watching withDr. KalpanaChinchkhede, Range Forest Officer, FDCM, Nagpur.Studentsobserved birds with the help of binocular, followed by informative talk by Dr. Kalpana Chinchkhede on onsite experience of birding.

No. of Beneficiaries: 16 students

Outcome: Students had watched birds & understand how to identify birds by their appearance, noise & flying habit.



Remla Nehru Mahavidyalaya Sekkerdera Chowk, Nagpur



AMAR SEWA MANDAL'S (Regt. No. 18/270/16 HGP) 1-7297 (H)

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KNM/

Department of Environmental Science

Session: 2020-2021

Expert Talk On "Birds Fascinating Lives on Earth" (9th November 2020)

Aim: To conduct Expert talk on the occasion of "Birds Week" on topic Birds Fascinating Lives on Earth

Nature of Activity:

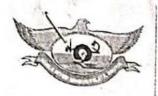
Department of Environmental Science, Kamla Nehru Mahavidyalaya, Nagpur in collaboration with Maharajbag Zoo, Nagpur & Institute of Science, Nagpur had organized online (On Google meet) expert talk on "Birds Fascinating Lives on Earth" on 9th Nov. 2020. This topic was expertized by Mrs. Suvarna kawale, Education Officer, Maharajbagh Zoo, Nagpur. She explained life cycle & interesting live of birds.

No. of Beneficiaries: 69 students

Outcome: Interest about birds and their life was developed in students.



Kamla Nehru Mahavidyalay. Sakkardara Chowk Nagput



AMAR SEWA MANDAL'S (Regd. No. M/220/78 NGP) F-2299 (II)

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Department of Environmental Science

Session: 2020-2021

Expert Talk On "Identification of Birds" (10th November 2020)

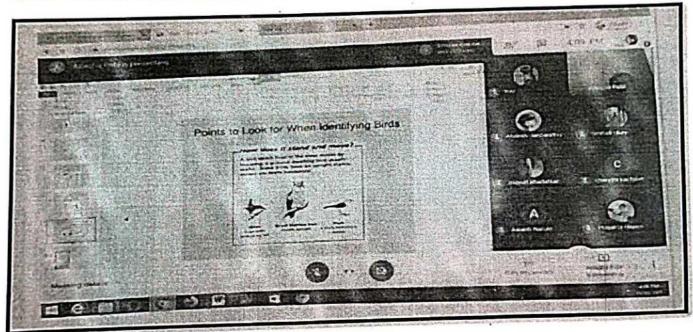
Aim: To conduct Expert talk on the occasion of "Birds Week" on topic Identification of Birds

Nature of Activity:

Department of Environmental Science, Kamla Nehru Mahavidyalaya, Nagpur in collaboration with Maharajbag Zoo, Nagpur & Institute of Science, Nagpur had organized online (On Google meet) expert talk on "Identification of Birds" on 10th Nov. 2020. This topic was expertized by Dr. Anagha Patil, Assistant Professor, Institute of Science, Nagpur. She explained how to identify birds species by their appearance, voice & Habit.

No. of Beneficiaries: 72 students

Outcome: Students would understand how to identify different type of bird species.



PRINCIPAL

Remie Nehru Mahavidyalay

Bakkerdara Chowk, Nagpur



AMAR SEWA MANDAL'S (Regd. No. 11/220/78 NGP) F-2299 (III)

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Department of Environmental Science

Session: 2020-2021

Expert Talk on "Water Birds" (11th November 2020)

Aim: To conduct Expert talk on the occasion of "Birds Week" on topic Discussion on Water Birds

Nature of Activity:

Department of Environmental Science of Kamla Nehru Mahavidyalaya, Nagpur in collaboration with Maharajbag Zoo, Nagpur & Institute of Science, Nagpur had organized online (On Google meet) expert talk on "Water Birds". This was organized on date 11th November 2020 at 4 pm. This topic was expertized by Mr. Anil Mahajan A mature Ornithologist. He explained about water birds. He has shared his experience about study of water birds. He had discussed this topic with students how to study water birds.

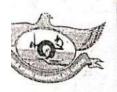
No. of Beneficiaries: 72 students

Outcome: Students came to know about how to study water birds.

PRINCIPAL

Kemia Nehru Mahavidyalaya

Bakkardara Chowk, Nagpur



AMAR SEWA MANDAL'S (Regd. No. M/220/78 NGP) F-2299 (N)

(ARTS, COMMERCE & SCIENCE)

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DR. (Smr.) SUHASINI G. W	ANJARI President - Adv. ABHIJIT G. WA	NJARRI Secretory DR. DILIP S. BADWAIK Principal	
		Date ://	

Department of Environmental Science

Session: 2020-2021

Expert Talk On "Water Birds" (11th November 2020)

Aim: To conduct Expert talk on the occasion of "Birds Week" on topic Discussion on Water Birds

Nature of Activity:

Department of Environmental Science of Kamla Nehru Mahavidyalaya, Nagpur in collaboration with Maharajbag Zoo, Nagpur & Institute of Science, Nagpur had organized online (On Google meet) expert talk on "Water Birds" on 11th Nov. 2020. This topic was expertized by Dr. Dilip Sawarkar, Zoologist, EB Expert, Nagpur. He explained about how water birds live & migrate. He had discussed this topic with students very effectively.

No. of Beneficiaries: 74 students

Outcome: Students has gained knowledge about water birds.

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Department of Environmental Science Session: 2020-21 Expert talk (12th November 2020)

Aim: To conduct Expert talk on topic on site experience of Birding

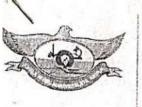
Nature of Activity:

Department of Environmental Science, Kamla Nehru Mahavidyalaya ,Nagpur in collaboration with Maharaj Bagh Zoo Nagpur and Institute of Science Nagpur had organized online (on Google Meet) expert talk on "Onsite Experience of Birding" on 12th November 2020 at 3 pm. This topic was expertise by Mr. Gopal Thosar, Ex-Wildlife Warden, Maharaj Bagh Zoo Nagpur. He explained about onsite birding, how to do it, how to study about birds characteristics and life of bird. He has taught for recognized birds by voice and flying.

No. of Beneficiaries: 70 students were benefited.

Outcomes: Students come to know about onsite birding.

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KNM/____

Date : ____/____/____

Department of Environmental Science

Session: 2019-2020

Topic :- Killing Wildlife: The Pros & Cons of Culling Animals (1st October 2019)

Aim: To conduct Inter College Debate Competition during World Wildlife Week

Nature of Activity:

The Department of Environmental Science in collaboration Maharajbagh Zoo Nagpur had organized Inter College Debate Competition on the occasion of World Wildlife Week on date of 1st October 2019. Topic of Debate competition was "Killing Wildlife: The Pros & Cons of Culling Animals." Twenty five students of various college from Nagpur University had participated. Anchoring was done by Miss Samiksha Kale. This program was stared at 10 AM in Chanakya Hall, Kamla Nehru Mahavidyalaya Nagpur. Miss SuwarnaKawale, Education Officer MaharajBagh Zoo was Judge of the Competition. On the same day guest lecture was also delivered by Miss SuwarnaKawale on Importance of Wild life Week. After that Head of the Department of Environmental Science Miss Neha Thakur explained rule & marking system for competition then debate competition was started. Vote of thanks was given by Miss Dipshikha Dhurve.

No. of Beneficiaries: 72

Outcomes: Students were aware about importance of wild life and also got knowledge about culling of animals. Audience was enjoyed this wonderful debate.



PRINCIPAL
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Bakkardara Chowk, Nagpur



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Date : ____/____

Department of Environmental Science

Session: 2020-2021

Expert Talk On "Biodiversity Conservation" (5th June 2021)

Aim: To conduct Expert talk on the occasion of "World Environment Day" on Biodiversity Conservation

Nature of Activity:

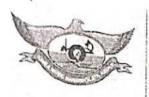
Department of Environmental Science, Kamla Nehru Mahavidyalaya, Nagpur celebrated "World Environment Day" in collaboration with Maharajbag Zoo, Nagpur & Institute of Science, Nagpur. On this occasion we organized expert talk on topic "Biodiversity Conservation". This topic expertized by Dr. Kalpana Chinchkhede, Range Forest Officer, FDCN, Nagpur. She has explained importance of each and every organism in an environment. Level of biodiversity was also explained by her.

No. of Beneficiaries: 100 students

Outcome: Students has gained knowledge about level of biodiversity and its importance.



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DEPARTMENT OF ENVIRONMENTAL SCIENCE

SESSION 2019-20

Expert Talk On "Man and Wildlife Conflicts" (4th October 2019)

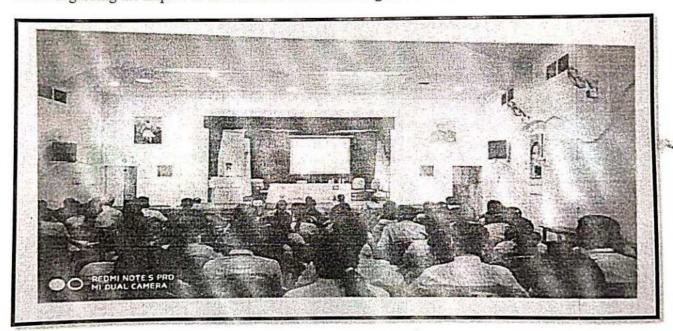
Aim: To conduct Expert Talk on the occasion of Wildlife Week Celebration

Nature of Activity:

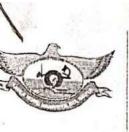
Department of Environmental Science in collaboration with Maharajbag Zoo organized a guest lecture on the occasion of "World Wildlife Week" Celebration for this event Dr. Ravikant Khobragade was invited as an expert to share his views on "Man and Wildlife Conflict" which is very hot topic in recent scenario.

No. of beneficiaries: 75 students were benefited

Outcomes: Students were very happy after listening the Dr. Khobragade's experiences and get aware regarding the impact of interference of human being in wildlife.



PRINCIPAL
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Date: ____/____

DEPARTMENT OF ENVIRONMENTAL SCIENCE SESSION 2019-2020

Expert Talk On "Management of Zoo" (4th October 2019)

Aim: To conduct Expert lecture on the occasion of Wildlife Week Celebration

Nature of Activity:

Department of Environmental Science in collaboration with Maharajbag Zoo organized a Expert Talk on the occasion of "World Wildlife Week" Celebration for this event Dr. S.S. Bawaskar was invited as an expert to share his views on "Management of Zoo" which is very useful for our students.

No. of beneficiaries: 85 students were benefited

Outcomes: Students were very happy after listening the Dr. Bawaskar's experiences and student get knowledged about management of zoo.



PRINCIPAL

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Date : ____/___

DEPARTMENT OF ENVIRONMENTAL SCIENCE

SESSION 2019-20

"Awareness Activity" (3rd October 2019)

Aim: To create awareness about Conservation of Natural Resources among students.

Nature of Activity:

To create awareness and to learn the importance of conservation of natural resources an innovative poster activity was conducted by Department of Environmental Science in Collaboration with Maharajbagh Zoo on the occasion of World Wildlife Week. In this activity students were divided in two groups providing drawing sheets and colors to draw Nature scene. From Posters the message was given about the importance of sustainable use of natural resources.

No. of beneficiaries: 78 students are benefited

Outcomes: Students get aware about the conservation of natural resources and updated about the concept of Sustainable development.



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DEPARTMENT OF ENVIRONMENTAL SCIENCE

SESSION 2019-2020

Social Activity On "Cleaning Drive" (2th October 2019)

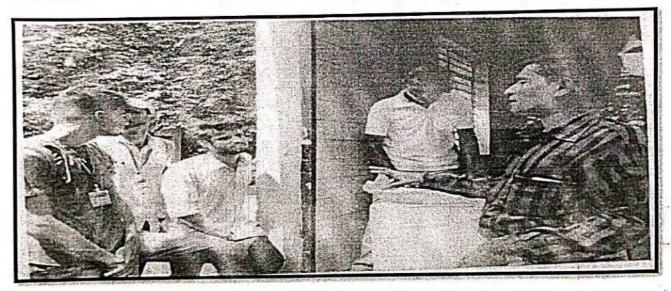
Aim: To conduct social activity as "Cleaning Drive"

Nature of Activity:

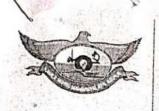
Department of Environmental Science of kamla Nehru Mahavidyalaya, Nagpur collaborated with Maharajbagh Zoo, Nagpur was organized Cleaning drive activity at Maharajbagh Zoo Nagpur on 2nd October 2029 on the occasion of Gandhi Jayanti .On that day area of Maharajbagh Zoo cleaned by Environmental Science students .They were convey message of cleanliness to society and visitor at Maharajbagh Zoo .

No. of beneficiaries: 20 students were benefited

Outcomes: Students was contributed to cleaning at Maharajbagh Zoo & understood importance of cleanliness.



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DEPARTMENT OF ENVIRONMENTAL SCIENCE

SESSION 2019-2020

Expert Talk On "Seed Ball Preparation" (5th October 2019)

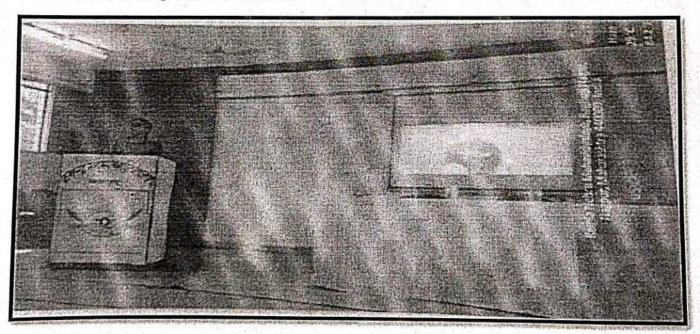
Aim: To conduct Expert lecture on the occasion of Wildlife Week Celebration.

Nature of Activity:

Department of Environmental Science in collaboration with Maharajbag Zoo organized a Expert Talk on the occasion of World Wildlife Week Celebration for this event Mrs. Nutan Manapure, Assistant Professor, Agriculture College, Nagpur was invited as an expert to share his views on Seed Ball Preparation and its uses which is very important now a days.

No. of beneficiaries: 85 students were benefited

Outcomes: Students get benifited by learning the new technique of Seed ball Preparation & it is one of the best technique for afforestation.



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DEPARTMENT OF ENVIRONMENTAL SCIENCE

SESSION 2019-2020

Expert Talk On "Zoo Management" (2nd October 2020)

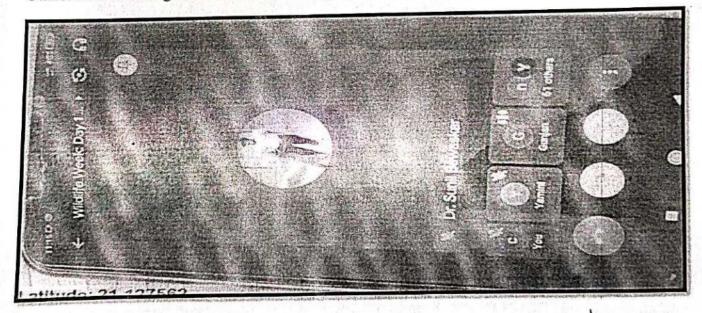
Aim: To conduct Expert lecture on the occasion of Wildlife Week 2020 on topic "Zoo Management"

Nature of Activity:

Department of Environmental Science of Kamla Nehru Mahavidyalaya, Nagpur in collaboration with Maharajbagh Zoo, Nagpur & Institute of Science had organized online (on googlemeet) Expert talk on "Zoo Management" on 2nd October 2020. Dr. Sunil Bawaskar, Incharge, Maharajbagh Zoo was invited as a guest speaker. He explained about how to managed zoo & what is the practice for nurturing the wild animals & plants, requirement of each animals in Maharajbagh Zoo, problems faced by them for management of zoo. He shared his experience about zoo management.

No. of beneficiaries: 76 students were benefited

Outcomes: Students gained knowledge about practices in zoo & procedure for zoo management.



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KNM/	Date:/

DEPARTMENT OF ENVIRONMENTAL SCIENCE

SESSION 2019-2020

QUIZ COMPETITION On "WILDLIFE & CONSERVATION"

(3rd October 2020)

Aim: To Conduct Quiz competition on the occasion of "Wildlife Week 2020" on "Wildlife & Conservation".

Nature of Activity:

Department of Environmental Science of Kamla Nehru Mahavidyalaya, Nagpur in collaboration with Maharajbag Zoo, Nagpur & Institute of Science celebrated wildlife week from 1st October 2020 to 7th October 2020. As a part of that, Department of Environmental Science Kamla Nehru Mahavidyalaya, Nagpur was organized online quiz competition on dated 3rd October 2020. For this competition meeting organized on google meet for faculty & students. Then link of quiz was provide to students on their groups to solve the quiz. There were 20 questions on wildlife conservation for 40 marks. Limited time had given to students to solve the questions. There are 100 students were participated in this quiz competition. Out of 100 the highest score 3 participants were winner of quiz.

No. of beneficiaries: 100 students were benefited

Outcomes: Students get awared about rules, acts & facilities for wildlife conservation.

PRINCIPAL Remis Nehru Mahavidyalaya Gakkardara Chowk. Nagpur



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	Date :/

Department of Environmental Science

Session: 2019-2020

Expert Talk On "Wildlife Species" (3rd October 2020)

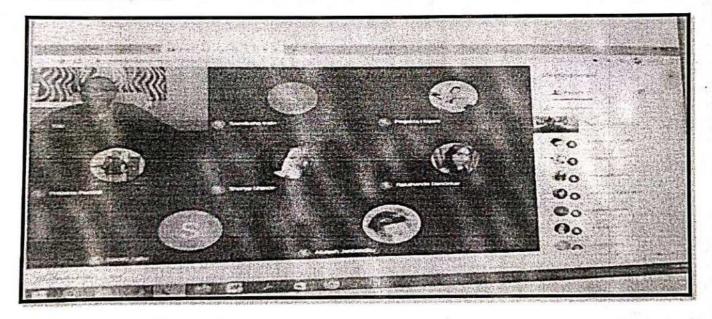
Aim: To conduct Expert talk on the occasion of World Wildlife Week 2020

Nature of Activity:

Department of Environmental Science of Kamla Nehru Mahavidyalaya, Nagpur in collaboration with Maharajbag Zoo, Nagpur & Institute of Science had organized online (On google meet) expert talk on "Wildlife Species". This topic was expertised by Dr. R. V. Tijare, Professor, Department of Zoology, Institute of Science, Nagpur. He explained about various animals & plants species & significance of that species in ecosystem.

No. of Beneficiaries: 70 students were benefited.

Outcome: Students gained knowledge about different wildlife species & species gene & their favourable ecosystem.



PRINCIPAL
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DEPARTMENT OF ENVIRONMENTAL SCIENCE

SESSION 2019-2020

Expert Talk On "Wildlife Enrichment in Zoo" (4th October 2020)

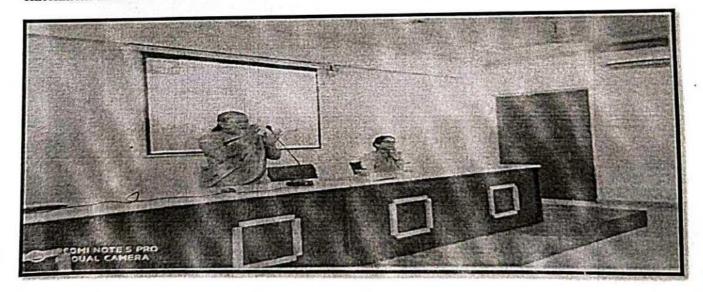
Aim: To conduct Expert lecture on the occasion of "Wildlife Week 2020" on topic "Wildlife Enrichment in Zoo"

Nature of Activity:

Department of Environmental Science of Kamla Nehru Mahavidyalaya, Nagpur collaborated with Maharajbagh Zoo, Nagpur & Institute of Science had organized online (on google meet) Expert talk on "Wildlife Enrichment in Zoo" on 4th October 2020. This lecture deliverd by Ms. Suvarna Kawale, Biologist, Maharajbagh Zoo, Nagpur. She explained about how wildlife enriched in zoo & what is the required procedure & practices for enrichment of wildlife in zoo. She also shared her experience. Her actual work & necessary step taken by zoo for existence, growth & development of wildlife in zoo.

No. of beneficiaries: 65 students were benefited

Outcomes: Students gained knowledge about in-situ conservation of wildlife animal & plant & their enrichment in zoo.



PRINCIPAL Kamla Nehru Mahavidyalaya Sekkardara Chowk, Nagpur.



AMAR SEWA MANDAL'S (Regd. No. M/220/78 NGP) F-2299 (N)

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Date:____/____

Department of Environmental Science

Session: 2019-2020

Expert Talk On "Wildlife" (7th October 2020)

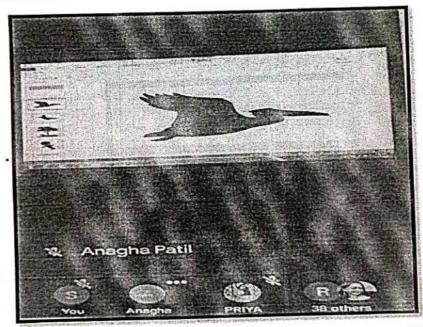
Aim: To conduct Expert talk on the occasion of wildlife week on topic wildlife

Nature of Activity:

Department of Environmental Science of Kamla Nehru Mahavidyalaya, Nagpur collaborated with Maharajbag Zoo, Nagpur & Institute of Science was organized online (On google meet) expert talk on "Wildlife". This topic was expertised by Dr. AnghaPatil, Assistant Professor, Department of Environmental Science, Institute of Science, Nagpur. She has explained what is wildlife classification of wildlife, its role & importance to nature. Impact of declined wildlife, causes for wildlife degradation & also necessity of conservation of wildlife.

No. of Beneficiaries: 65 students were benefited.

Outcome: Students was understood importance & role of wildlife in nature. Students has awared about conservation of wildlife.



PRINĆIPAŁ Kemia Nchru Mahavidyalaya Gakkerdara Chowk, Nagpur



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DEPARTMENT OF ENVIRONMENTAL SCIENCE SESSION 2019-2020

Expert Talk On "Wild Life Protection" (5th October 2020)

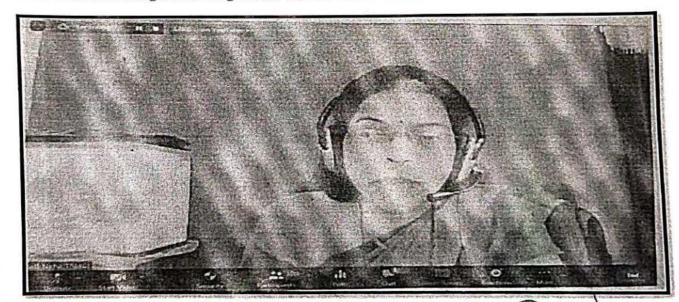
Aim: To conduct Expert lecture on the occasion of Wildlife Week 2020 on topic "Wild life Protection"

Nature of Activity:

Department of Environmental Science of Kamla Nehru Mahavidyalaya, Nagpur in collaboration with Maharajbagh Zoo, Nagpur & Institute of Science had organized online (on google meet) Expert talk on "Wild life Protection" on 5th October 2020. This topic expertized by Ms. Neha Thakur, HoD, Department of Environmental Science Kamla Nehru College Nagpur. She explained about wild life protection, Insitu & Exsitu conservation of wild life .She was also explained how to protect & conserved wild species at personal level .

No. of beneficiaries: 70 students were benefited

Outcomes: Students get knowledge about wild life conservation.



PRINCIPAL Ramia Nehru Mahavidyalaya Sakkardara Chowk, Nagpur

irship Development.

Kamla Nehru Mahavidyalaya Nagpur Department of Environmental Science

Expert Talk

Session: 2022-23

(17th May 2023)

Aim: To conduct Expert talk on topic "Environmental Conservation".

Nature of Activity:

Department of Environmental Science, Kamla Nehru Mahavidyalaya Nagpur in collaboration with Maharajbagh Zoo, Nagpur had organized online (on Google Meet) expert talk on 17th May 2023 under the guidelines provided by G-20 (Energy Transition Working Group meeting). Mirs. Suvarna Kawale, Education Biologist Maharajbagh Zoo, Nagpur delivered lecture on "Environmental Conservation". She talked about importance of forest, wildlife and water conservation.

No. of Beneficiaries:40

Outcome: Students came to know about Environmental Conservation

Kamla Neh ... aha vidya laya Sakkardara Chowk; Nagipur.



AMAR SEWA MANDAL'S (Regd. No. M/220/78 NGP) 1-2299 (11)

MLA NEHRU MAHAVIDYALAYA

(ARTS, COMMERCE & SCIENCE)

SAKKARDARA CHOWK, NAGPUR-440 024 • Ph : (0712) 2747853, 2747854, 2742308, 2749784 fax : (0712) 2747853 • e-mail : kncnag@rediffmail.com • website : www.kamlunehrucollege.ac.in





DR. (Smt.) SUHASINI G. WANJARI President Adv. ABHIJIT G. WANJARRI Secretary DR	. DILIP S. BADWAIK Princip
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KAMLA NEHRU MAHAVIDYALA, NAGPUR DEPARTMENT OF PHYSICS VISIT OF MOHTA SCIENCE COLLEGE STUDENTS UNDER MOU



OBJECTIVES: The main objective of the visit is to aware students about various instrumentations available in Dept. of Physics, K.N.M. Nagpur.

BENIFICIARIES: 30 students.

BRIEF REPORT

Under MOU with Shri Mathuradas Mohta Science College, Nagpur, their students of M.Sc.(PHY) Sem II and Sem IV were visited to our resessearch laboratory on 19th April 2022. Dr. S.P. Puppalwar demonstrated them different instruments like magnetic stirrer, pH meter, oven, furnace. He explained working of spectrofluro photometer in detail. He was taken PL in front of the students and shown them how excitation and emission spectra of the sample were observed by the PL machibne. Dr. Puppalwar also demonstrates the working of Thermoluminescence Reader machine to the srtudents. Students of Mohta Science College enjoyed the visit alot.

OUTCOME: Students understand the working of PL and TL machine. They gained knowledge about the handling of instrumentation.





Visit of Mohta Science College Students to Research Lab under MOU

ncipal Kamla Nehru Mahavidyalaya Sakkardara Chowk, Nagpur.



AMAR SEWA MANDAL'S (Root No. NL/270/78 NGF) F7239 (NO.

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DR. (Sml.) SUHASINI G. WANJARI President Adv. ABHIJIT G. WANJARRI Secretary DR. DILIP'S. BADWAIK Principal

Academic Year

: 2019-2020

Activity

: Two days' workshop at BioEra life sciences, Pune

Participants Count : 22 Students, 03 Assistant Professors

Date of Activity

: 14.10.2019 and 15.10.2019

Place

: Pune

Objective

: "Explore and Understand DNA"

Department of Biochemistry, Kamla Nehru Mahavidyalaya organized two days work shop entitled "Explore and understand DNA" on 14.10.2019 and 15.10.2019 at BioEra Life science Pvt. Ltd. Pune. Total 22 students and 03 Assistant professors had attended the workshop. The goal of a two days workshop was to understand various process of handling of practical protocols, isolation of DNA, Instrumentation and understanding of DNA. The session of this workshop was very interactive and informative.

Dr. Asha Salunke as a trainer explained various aspects of the topic " explore and Understand DNA".



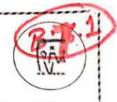


Dr. Shardel S. Wagh Head, Department of Biochemistry Kamla Nehru Mahavidyalaya, Nagpur

Dr. Dilip S. Badwaik Principal Kamla Nehru Mahavidyalaya, Nagpur



Bahujan Hitay Jagat Shikshan Sanstha Gondia's



JAGAT ARTS, COMMERCE & INDIRABEN HARIHARBHAI PATEL SCIENCE COLLEGE, GOREGAON Internal Quality Assurance Cell (IQAC) & Society for Promotion of Material Science, Nagpur

National Webinar

ON

"Innovation & IPR (New IPR-2023)"

DATE: 23/10/2023 TIME: 04:00 P.M.

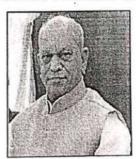
Registration Link:- https://forms.gle/feeCe96Ta4PenYJa6

SPEAKER



Prof. W.B. Gurnule Head, Department of, Chemistry, Kamla Neharu Mahavidyalaya, Nagpur

CHIEF PATRON



Shri. Jagatramji Rahangdale President Bahujan Hitay Jagat Shikshan Sanstha Gondia,s

PATRON



Prof. S. S. Umare
President
Society for Promotion of
Materials Science

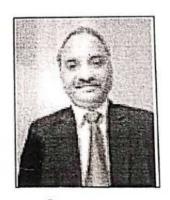
ORGANIZING COMMITTEE



Coordinator Dr. N.Y. Lanje Principal



Co-Coordinator Dr. S.H. Bhairam Vice-Principal



Convener Dr. S.S. Rahangdale IOAC Co-ordinator



Organizing Secretary
Dr. V.U. Rahangdale
IQAC Member

Respected Sir/Madam

National Webinar on "Innovation & IPR (NEW IPR-2023)" organized by Society for Promotion of Material Science Nagpur and IQAC, Jagat Art's, Comm. & I. H. P. Science college Goregaon Dist. Gondia.

On Monday, 23 rd October 2023 at 04.00 pm Via Zoom Meet and Live Streaming on YouTube.

Registration Link: https://forms.gle/feeCe96Ta4PenYJa6

No Registration Fees for joining the National Webinar.

All registered participants will get E-Certificate after attending the session.

Submission of Feedback Form is compulsory to get the certificate.

Please join the WhatsApp Group 1:

https://chat.whatsapp.com/JdH7mU2e76A1VbqY0tUVVr

WhatsApp Group 2: https://chat.whatsapp.com/LBw805VfaGP1KGVxBfJvT5

For more details contacts:

Dr. Sanjiokumar S. Rahangdale

Convenor,

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Need for Holistic Planning by IQAC in New Framework

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Abstract - In every institution IQAC is mandatory as per NAAC requirements. It is the body which is responsible for introducing quality systems. IQAC is a mechanism to build and ensure a quality culture at the institutional level and is meant for planning, guiding and monitoring Quality Assurance (QA) and Quality Enhancement (QE) activities of the HEI's. This paper focuses on the need of holistic planning by IQAC in new framework for development of HEI's.

Key words: NAAC, IQAC, Higher Educational Institutions (HEI's), UGC,

I. INTRODUCTION

All Higher Education Institution carry out planning activities for evaluation, development, and strategic direction. Planning may occur at many levels within institution and departmental activities. The objective of planning is to support a group or agency to evaluate, design and deliver services within a institution. The term "holistic planning" refers to the wider, cross-agency sharing of materials as well as the intent to take a broader perspective on organizational planning. This may result in accessing data or outcomes developed by institution in order to strengthen the value of students. In other words, holistic planning is a multi-service approach to acquiring the widest possible breadth of information to orient a program's activities towards high quality outcomes.

Quality is the back bone of any education system. It is said that quality of a nation is judged by the quality of its citizens. Quality of citizens directly depends on the system of education of the nation which in turn is determined by quality of teachers. Quality in higher education is the most urgent need as India moves towards becoming an educational hub. All levels of education need a strong vertical knit to ensure quality.

In pursuance of its Action Plan for performance evaluation, assessment and accreditation and quality up-gradation of institutions of higher education, the National Assessment and Accreditation Council (NAAC), Bangalore proposes that every accredited institution should establish an Internal Quality Assurance Cell (IQAC) as a quality sustenance measure. Since quality enhancement is a continuous process, the IQAC will become a part of the institution's system and work towards realization of the goals of quality enhancement and sustenance. The prime task of the IQAC is to develop a system for conscious, consistent and catalytic improvement in the overall performance of institutions. For this, during the post-accreditation period, institutions need to channelize its efforts and measures towards promoting the holistic academic excellence including the peer committee recommendations. The guidelines provided in the following pages will guide and facilitate the institution in the creation and operation of the Internal Quality Assurance Cell (IQAC). The work of the IQAC is the first step towards internalization and institutionalization of quality enhancement initiatives. It will be a facilitative and participative voluntary system/unit/organ of the institution. It has the potential in quality enhancement by working out planned interventionist strategies by IQAC to remove deficiencies and enhance quality.

The primary aim of IQAC is to develop a system for conscious, consistent and catalytic action to improve the academic and administrative performance of the institution. To promote measures for institutional functioning towards quality enhancement through internalization of quality culture and institutionalization of best practices. Some of the functions expected of the IQAC are: a) Development and application of quality benchmarks

- b) Parameters for various academic and administrative activities of the institution;
- c) Facilitating the creation of a learner-centric environment conducive to quality education and faculty maturation to adopt the required knowledge and technology for participatory teaching and learning process;
- d) Collection and analysis of feedback from all stakeholders on quality-related institutional processes; d) Dissemination of information on various quality parameters to all stakeholders;
- · e) Organization of inter and intra institutional workshops, seminars on quality related themes and promotion of quality circles;

Synthesis and Characterization of 2-Hydroxy, 4-Methoxy, Benzophenone - Melamine -Formaldehyde (2-H,4-M, Bphn-M-F) Copolymer Resins.

Jyotsna V. Khobragade, W. B. Gurnule, Swati V. Hunge,

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Abstract

Copolymer resin (2-H, 4-M, Bph-M-F) was synthesized by using monomers 2-Hydroxy, 4-Methoxy, Benzophenone and melamine was condensed with formaldehyde at different proportion in a round bottom flask in presence of acetic acid as a catalyst. Compositions of copolymer resin have been determined on the basis of their elemental analysis and the number average molecular weights were determined by conductometric titration in non-aqueous medium. For ascertaining the some characteristic, functions and constants viscometric measurements in dimethyl formamide (DMF) have been carried out. The UV-visible, FTIR and proton nuclear magnetic resonance (H⁺ NMR) spectra were studied to elucidate the structure. Keywords: Synthesis, polycondensation, resin, structure, degree of polymerization, Characterization

Introduction

Melamine containing copolymer much research work has being carried out on the synthesis and characterization. Gurnule et al [1] synthesized copolymer derived from substituted 2-Hydroxy, 4-Methoxy formaldehyde resin shows improved ion-exchange properties, thermal resistance property, coordinating property and good storage stability etc. Melamine formaldehyde copolymer is good fire retardant properties are due to release of nitrogen gas when burn. Phenolic resins have more application in ion exchanger, semiconductor, adhesive materials because of chemical and high resistance. Melamine formaldehyde resins harder and stronger than phenolic resins but have lower moisture and heat resistance thus it can be molded into product. Khobragade et al have synthesized pthalic acid melamine formaldehyde resins are widely used as complexing agents in various applications due to their good complex forming ability[2]. Kapse et al. synthesized copolymer by polycondensation of p-Hydroxyacetophenone, Quinhydrone and Melamine in presence of Poly-Phosphoric acid (PPA)[3]. Chelating ion- exchange properties studied for Cu2+, Mg2+, Pb2+ and Bi3+ by batch equilibrium method. PAQM resins are more selective Cu2+> Mg2+> Pb2+. Shah and coworkers have prepared terpolymers from 8-hydroxyquinoline-formaldehyde-catechol terpolymer were reported [4]. The resin was characterized by FTIR, NMR, UV-visible spectroscopy and elemental analysis. The morphology of the synthesized resin was studied by scanning electron microscopy (SEM). The present work describes the synthesis and characterization of copolymer derived from 2-Hydroxy, 4-Methoxy, Benzophenone and melamine was and formaldehyde.

Materials

The entire chemicals were of A. R. grade. Solvents like N, N-dimethylformamide (DMF), dimethyl sulphoxide (DMSO), ethanol and diethyl ether etc. were of also analytical grade and were purified by known method prior to their use in various physico-chemical studies (Merck, India) and used after distillation. 2-Hydroxy, 4-Methoxy, Benzophenone, melamine, formaldehyde, glacial acetic acid using these monomers formation of construct

Flyer and Glimpse of the Conference

The detailed report is on https://www.gncollege.co.in/events/national-international-conferences/



Officiating Principal Guru Nanak College of Science, Baltarpur

Report of

International Conference on Multidisciplinary Research

The main purpose of organizing the international webinar is to provide a platform for interaction and collaboration amongst the eminent professionals, researchers and scholars of different fields from both academia and industry to discuss and to share the state of the art development in recent trends in Science and Technology. Guru Nanak College of Science, Ballarpur organized One Day International Webinar (Virtual Webinar) on "Multidisciplinary Research" IWMR-2021 on Saturday 13th March 2021 online webinar on Google Meet and you tube.

Convenor of the conference **Dr. Jyotsna V. Khobragade**, Aaaistant Professor, Chemistry welcomes all the participants, organizers, Hon'ble members of Management and Hon'ble speakers. She gave introduction on the international webinar, and explains the importance of the webinar to academic fraternity.

Co-ordinator of the conference Prof. P. B. Ghode, HOD, Chemistry welcomes all the participants. He gave his introductory remarks on importance of organization of International online webinar in this pandemic situation, and also appreciated to management and principals.

Hon'ble Prof. B. M. Bahirwar, Principal, Guru Nanak College of Science, Ballarpur, express his happiness and best wishes on organization of International online webinar also congratulate to all the participants and organizers for conduction of the webinar.

Hon'ble Shri Sardar Naginder Singhji Soni, President, Guru Nanak Seva Samiti, Ballarpur has given warm wishes for the success of the webinar.

In the First Technical Session, Hon'ble Prof. Gladys Completo, Institute of Chemistry, University of Philippines Los Banos, Los Banos, Laguna, Philippines delivered a scientific talk on 'Role of Glycans in Tuberculosis and Human milk.

In the Second Technical Session, Hon'ble Dr. Tofida Mohhmmed Kabir, Instit Federal Collage of Education, Zaria Kaduna State, Nigeria delivered a scientific talk on 'Effect of Viscous Dissipation on steady Natural Convection Couette Flow in Vertical Plates'.

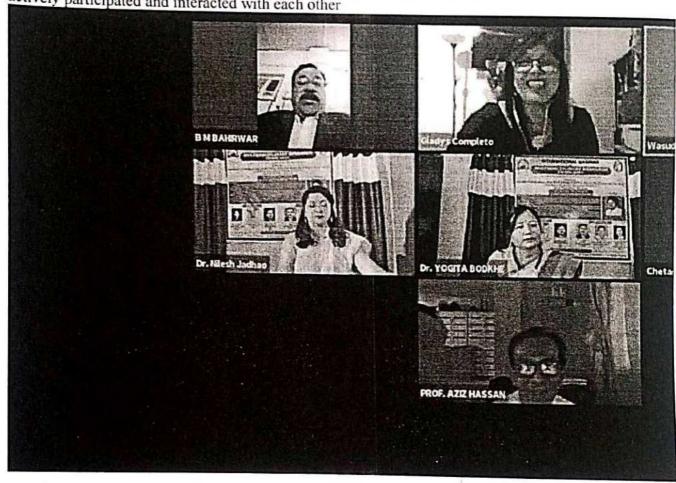
In the Third Technical Session, Hon'ble Prof. Wasudeo Gurnule, Department of Chemistry, Kamla Nehru Mahavidyalaya, Nagpur, India. He delivered a scientific talk on "Nanotechnology and its Impact on Society". He has explained to all the participants how to approach lively before the students and researches lively by using recent technologies during this pandemic situation.

Dr. Jyotsna V. Khobragade, Assistant Professor, Dept. of Chemistry, Guru Nanak college of Science, Ballarpur, Convenor of the conference, proposed vote of thanks to all the participants, organizers, Hon'ble members of Management and Hon'ble speakers for their active participation, encouragement for the success of the webinar.

All the organizing Committee members of the conference Dr. Y. G. Bodkhe, Prof. S. D. Gedam, Dr. M. M. Jiwatode, Dr. Dinesh W. Deshmukh, and Dr. Nilesh U. Jadhao, Guru Nanak College of Science, Ballarpur for their timely cooperation for success of the conference.

Hon'ble Members of Management, Hon'ble Speakers, Organizers, and Participants

actively participated and interacted with each other



JETIR ORG JISSNR 28/9-5/162 ESTDIYEAR 12014 Monthly Issuell



JOURNAL OF EMERGING TECHNOLOGIES AND INNOVATIVE RESEARCH (JETIR)

An International Scholarly Open Access, Peer-reviewed, Refereed Journal

SYNTHESIS, CHARACTERIZATION AND PHOTOLUMINESCENT STUDIES OF ORGANIC COPOLYMER DERIVED FROM 2, 2'-DIHYDROXYBIPHENYL AND PROPYLENEDIAMINE

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Maharashtra, India **Post Graduate Department of Chemistry, Kamla Nehru Mahaylidyalaya, Nagpur-410024, Maharashtra, India.
**Department of Chemistry, Gove Bilasa Girls P.G. College, Bilaspur-495001, Chattisgarh, India.
**Email: wbghruule@gmail.com

**College Bilaspur-495001, Chattisgarh, India.

Abstract :Copolymer (2,2'-BPPDF) synthesized by the condensation polymerization of 2,2'-dihydroxybiphenyl (BP), propylenediamine (PD) and formaldehyde (F) in acidic medium with mothe proportion 3.1:5 of monomer and refluxing in oil bath at 120°C for 5 hr. Assimilated copolymer as aligand is joined with metal particles, for example, Ni², Cu² and Zn² particles is in 2:1 molar extent to get metal complex. The response has been done with refluxed at 60°C for three hour. Structure and composition of organic copolymer have then dictated by basic examination and sub-atomic weight assurance by non-aqueous conductometric titration. The UV-visible, FTR, 'H-NMR and surface morphology as well-constalline nature of ligand and its complex were analysed by SEM. Newly integrated copolymer with complex with copper and zinc metal might be utilized as supporting material for luminescence 2,2'-BPPDF-Zn show higher photoluminescence than 2,2-BPPDF-Cu.

Index Terms: Synthesis, condensation, propylenediamine, copolymer, plated uninescence, metalcomplex

I. INTRODUCTION

Great premium has been showed up in the blend and examination of coordination complex polymers containing N, S and O contributor molecules on polymeric interface. Lately, polymeric compounds have a great deal of thought and importance, in light of essential importance in ventures. The polymer can be used as colours, surface covering, retardants, glues, antibacterial, semiconductors, particle exchanger, rectifiers, battery-fueled, sparkle, etc. Electrical conductivity what's more, warm investigations of polymers is help for polymer researcher on account of congruity at raised temperature close to provokes that need to stand up to owing to suitable electrical conductivity, warm adequacy and low process ability. In relationship with comparable various teammates endeavoured to alter the warm strength by changing the monomer plan in polymer association [1-4]. The most late assessment progress in fluorescent polymers is revolved around the course of action and photoluminescence of fluorescent polymers with new designing various techniques for plan and mixture of fluorescent materials have furthermore been made. Natural polymer which shows fluorescence can be joined by polymerization of beginning monomers, using fluorescent blends as initiator fluorescent blends as chain move expert's material holding between fluorescent social occasions furthermore,

copolymers and polymeriz ition of nonfluorescent monomers [5].

Photo luminescent supra sub-atomic design has as of late pulled in much interest due to their possible applications in photo electronic gadgets or as fluorescence sensors and tests. Polymers have begun to discover use in making LEDs, fluid gems and as sensors for metal particle fighting specialists, microbes and biomolecules. A large portion of the photoluminescent materials are pi-formed semiconducting materials much interest is being displayed in the blend and investigation of the design property relationship of pl formed polymers because of fundamental significance in electrical enterprises. Coordination blends are spellbinding class of particles that have wide applications in various fields, for instance, light delivering diodes (LEDs), follow metal examination, metal hailing, plan of optical devices and sensor particles. When contrasted with blue, green and red radiant buildings most stable brilliant complex is blue which is valuable for electroluminescent shows [6,7]. LECs, supra sub-atomic gatherings, sunlight based energy change conspire [8], organic testing and oxygen detecting [9,10]. Radiant coordination polymers are at this point tolerating a great deal of thought as a result of their normal applications in various fields, for instance, normal light transmitting diodes [11].

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An International Scholarly Open Access, Peer-reviewed, Refereed Journal

在这种种种的是是不是有效的。而是这种的人,这种的人,我们也不是一种的人,我们就是这种的人,我们就是这个人,我们就是一个人,我们就是我们的,我们就是我们 SYNTHESIS, CHARACTERIZATION AND PHOTOLUMINESCENT STUDIES OF ORGANIC COPOLYMER DERIVED FROM 2, 2'-DIHYDROXYBIPHENYL AND PROPYLENEDIAMINE

S. S. Rahangdale¹, S. P. Gliakole², K. S. Vajpaijand W. B. Gurnnie²*

Department of Chemistry, Jagat Arts, Commerce and Indiraben Harihardhard Ratel Science College, Goregaon-441801,

Maharashtra, India *2Post Graduate Department of Chemistry, Kamla Nehru Mahavidyalaya, Nagpur-440024, Maharashtra, India.
3Department of Chemistry, Govt Bilasa Girls P.G. College, Bilaspur-495001, Chattisgarh, India. A Email: wbgurnule@gmail.com

Abstract :Copolymer (2,2'-BPPDF) synthesized by the condensation polymerization of 2,2'-dihydroxybiphenyl (BP), propylenediamine (PD) and formaldehyde (F) in acidic medium with molar proportion 3:1.5 of monomer and refluxing in oil bath at 120°C for 5 hr. Assimilated copolymer as adigand is joined with metal particles, for example, Ni²⁺, Cu²⁺ and Zn²⁺ particles is in 2:1 molar extent to get metal complex. The response has been done with refluxed at 60°C for three hour. Structure and composition of organic copolymer have been dictated by basic examination and sub-atomic weight assurance by non-aqueous conductometric titration. The UV-visible, FTIR, 'H-NMR and surface morphology well-constalline nature of ligand and its complex were analysed by SEM. Newly integrated copolymer with complex with complex with complex material for luminescence 2,2'-BPPDF-Zn show higher photoluminescence than 2,2'-BPPDF-Cu.

Index Terms: Synthesis, condensation, propylenediamine, copolymer, photolimpinescence, metalcomplex

I. INTRODUCTION

Great premium has been showed up in the blend and examination of coordination complex polymers containing N, S and O contributor molecules on polymeric interface. Lately, polymeric compounds have a great deal of thought and importance, in light of essential importance in ventures. The polymer can be used as colours, surface covering, retardants, glues, antibacterial, semiconductors, particle exchanger, rectifiers, battery-fueled, sparkle, etc. Electrical conductivity what's more, warm investigations of polymers is help for polymer researcher on account of congruity at raised temperature close to provokes that need to stand up to owing to suitable electrical conductivity, warm adequacy and low process ability. In relationship with comparable various teammates endeavoured to alter the warm strength by changing the monomer plan in polymer association [1-4]. The most late assessment progress in fluorescent polymers is revolved around the course of action and photoluminescence of fluorescent polymers with new designing various techniques for plan and mixture of fluorescent materials have furthermore been made. Natural polymer which shows fluorescence can be joined by polymerization of beginning monomers, using fluorescent blends as initiator fluorescent blends as chain move expert's material holding between fluorescent social occasions furthermore, copolymers and polymerization of nonfluorescent monomers [5].

Photo luminescent supra sub-atomic design has as of late pulled in much interest due to their possible applications in photo electronic gadgets o. as fluorescence sensors and tests. Polymers have begun to discover use in making LEDs, fluid gems and as sensors for metal particle fighting specialists, microbes and biomolecules. A large portion of the photoluminescent materials are pi-formed semiconducting materials much interest is being displayed in the blend and investigation of the design property relationship of pi formed polymers because of fundamental significance in electrical enterprises. Coordination blends are spellbinding class of particles that have wide applications in various fields, for instance, light delivering diodes (LEDs), follow metal examination, metal hailing, plan of optical devices and sensor particles. When contrasted with blue, green and red radiant buildings most stable brilliant complex is blue which is valuable for electroluminescent shows [6,7]. LECs, supra sub-atomic gatherings, sunlight based energy change conspire [8], organic testing and oxygen detecting [9,10]. Radiant coordination polymers are at this point tolerating a great deal of thought as a result of their normal applications in various fields, for instance,

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Thermal Degradation Studies of Copolymer Derived from 2,2'-Dihydroxybiphenyl, Ethylenediamine and Formaldehyde

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Abstract: Copolymer (2,2'-BPEDF) was synthesized with molar ratio 3:1:5 of monomer 2,2'-dihydroxybiphenyl (BP), ethylenediamine (ED) and formaldehyde (F) by condensation polymerization, in acidic medium and refluxing in oil bath at 120°C for 5 h. Composition and structure of organic copolymer have been determined by elemental analysis and molecular weight determination by non-aqueous conductometric titration method. The UV-visible, FTIR and proton nuclear magnetic resonance (H NMR) spectra were studied to elucidate the structure. The surface features and crystalline behaviour of the copolymer was analysed by scanning electron microscope (SEM). Non isothermal thermogravimetric analysis for determination of their mode decomposition and relative thermal stability, Energy of activation, frequency factor and order of reaction have been calculated by Sharp-Wentworth (SW) and Freeman-Carroll (FC) methods. Energy of activation determined by Sharp-Wentworth and Freeman-Carroll methods are in agreement with each other. The order of reaction is found to be 0.98.

Keywords: Synthesis, Thermal, ethylenediamine, Kinetic parameter, Polycondensation, structure, composition, Thermal stability.

I. INTRODUCTION

Investigation of warm examination includes a gathering of methods in which an actual property of substance is estimated as a component of temperature when the substance is exposed to a controlled temperature program. Thermally steady copolymers have as of late become shelter to polymer physicist because of their superior and elite utility. Since the advanced history of thermogravimetry, warm corruption of polymers and the investigation of their energy have been at the focal point of warm investigation. Numerous specialists attempted to work on the warm dependability at raised temperature by changing the monomer organization in polymer combination [1].

The warm debasement investigation of copolymer has gotten a subject of ongoing premium, being a significant property, which fundamentally chooses warm steadiness and processability. A wide assortment of thermally stable polymers have been combined and examined their thermogravimetric property and discovers numerous applications, for example, particle exchangers [2–5], semiconductors [6], high dielectric consistent for energy stockpiling capacitors [7], bundling, cements and coatings in electrical sensors, activators, impetuses and thermally stable materials [8–10]. Thermogravimetric examination of copolymer tars got from 2,4-dihydroxyacetophenone, dithiooxamide, and formaldehyde by Rahangdale et al. [11], Jinger et al. completed warm corruption of terpolymers combined from azon-4- bromophenyl substituted maleimide with acrylates [12, 13]. Phenolic saps are known for their wide applications in different regions due to their warm strength, simple accessibility, cost adequacy, and a portion of their incredible properties [14]. The thermal strength of terpolymers has been widely concentrated by utilizing the technique for thermogravimetric investigation (TGA) by a few creators.

Thermo insightful and dynamic investigations of terpolymer pitches got from 8- hydroxyquinoline-5-sulphonicacid/p-cresol, oxamide/melamine with formaldehyde have been detailed by Singru et al. [15-18]. 2-hydroxy, 4-metoxybezophenone, 1,5-diaminonapthalene, formaldehyde by Das [19]. 8-hydroxyquinoline-5-sulphonicacid,

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SYNTHESIS, CHARACTERIZATION AND THERMAL DEGRADATION STUDY OF COPOLYMER RESIN-II: RESULTING FROM 2-HYDROXY, 4-METHOXYBENZOPHENONE, 1, 5-DIAMINONAPHTHALENE AND FORMALDEHYDE

Sanjiokumar S. Rahangdale¹, Narayan C. Das², Kiran S. Vajpai³ and Wasudeo B. Gurnule*4

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-Revision :13:01.2020 Accepted : 28:01,2020 " Published 30.01.2020

ABSTRACT:

The copolymer HMBPDANF-II has been synthesized by condensation of 2-hydroxy, 4-methoxybenzophenone and 1, 5diaminonaphthalene with formaldehyde in the presence of hydrochloric acid as a catalyst in the 2: 1: 3 molar proportion of reactants. The structure of copolymer has been characterized by elemental analysis, UV-Visible, FT-IR and JH-NMR spectroscopy. The morphology of copolymer has been studied by scanning electron microscopy (SEM). The thermal decomposition behavior of HMBPDANF-II copolymer has been carried out by using TGA in static nitrogen atmosphere at a heating rate of 10 °C/min. Sharp-Wentworth and Freeman-Carroll methods have been applied to calculate the thermal activation energy (Ea), entropy change (AS), apparent entropy change (S'), free energy change (AF) and frequency factor (Z). The order of reaction (n) has been found to be 0.95.

Key words: - Thermal degradation, copolymer, condensation, thermal stability, Freeman-Carroll method, Sharp-Wentworth method.

INTRODUCTION:

Due to global applications of polymeric materials, polymer science and technology have been developing rapidly and attracted much attention towards the polymer scientists. Polymers have been found to be very useful applications as ion-exchange resins, adhesive, flame resistant fibers, coating materials, semiconductors and catalysts (Jiwatode MM et. al., 2017). Thermal analysis plays a vital role in studying the structure and properties of any material .Thermo gravimetric analysis has been widely used to investigate the decomposition characteristics of polymeric matter (Liu C et. al., 2003).

Gurnule (Gurnule WB ct. al., 2019) have studied the thermal degradation of copolymer resin derived from 2-hydroxy-4methoxybenzophenone, diaminonaphthalene and formaldehyde. Chaudhary studied thermal microbial reactivity of copolymers and terpolymers of substituted azo-N-4-bromophenyl maleimide chain with acrylatesvinyls (Chaudhary et al., 2016). The kinetic study of non- isothermal decomposition of copolymer resin derived from 2, dihydroxypropiophenone,

Sorption Investigation on the Removal of Metal Ions from Aqueous Solutions using Copolymer Resin

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Abstract—Copolymer resin (2,4-DHPOF) was synthesized by the condensation of 2,4-dihydroxypropiophenone and oxamide with formaldehyde in the presence of acid catalyst using varied molar ratios of reacting monomers. Copolymer ligand compositions have been determined on the basis of their elemental analysis. Also the number average molecular weight of these copolymers was determined by conductometric titration in non-aqueous medium. IR-spectra were studied to elucidate the structure. The copolymers have been further characterized by absorption spectra in non-aqueous medium and nuclear magnetic resonance spectra. The newly synthesized copolymers (2,4-DHPOF) are proved to be a selective chelating ion exchange polymer for certain metals. Chelating ion exchange properties of these copolymers were studied for Fe (III), Fig (II), Pb (II), Ni (II) and Cu (II) ions. A batch equilibrium method was employed in the study of the selectivity of metal ion uptake involving the measurement of the distribution of a given metal ion between the copolymer sample and a solution containing the metal ion. The study was carried out over a wide pH range and a media of various ionic strengths. The copolymers showed a wide higher selectivity for Fe (III), Hg (II) and Pb (II) ions than for Ni (II) and Cu (II) ions.

Keywords: Copolymer; Degree of polymerization; Polycondensation; Ion-exchanger; Synthesis, Resin.

I. INTRODUCTION

The treatment of industry wastes has been a strong concern as it continues to grow day by day. One category of such industrial pollutants includes heavy metals, often contained 1 in the wastewater. When released into the environment, these metals can cause severe damage to the human body, including accumulative poison. The treatment of industry wastes has been a strong concern as it continues to grow day by day. One category of such industrial pollutants includes heavy metals, often contained in the wastewater. When released into the environment, these metals can cause severe damage to the human body, including accumulative poison, brain damage, and cancer [1]. Several processes were accessible for heavy metal removal, including chemical precipitation, membrane, and retention technique [2]. An effective technique to separate the selective metal ions from wastes was greatly found to be ion-exchange process. Ion-exchange resins are polymers that can reversibly interchange the counter ions. The resins are organized into two main types depending upon the charge of the counter ions with which they can exchange. The cationic exchangers contain the negatively ionisable group which is capable of interchanging the positively charged or cationic counter ion. The anionic exchange resin interchanges the negatively charged or anionic counter ion due to the existence of the positively ionisable group. Polymeric resin, was synthesized and reported for its ion-exchange characteristics towards selective metal ions

The literature survey reveals that copolymers based on 4-hydroxybenzophenone and its derivatives have received attention due to their application in various areas such as in waste water treatment, for metal recovery, in protective coating and in biological activity [3].

Synthesis and Characterisation of Copolymer Resin Derived from 2,2'- Dihydroxybiphenyl, Ethylenediamine and Formaldehyde

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Abstract—Synthesis of copolymer resin (2,2'-BPEDF) have been prepared by the condensation of 2,2-dihydroxybiphenyl (BP) and ethylenediamine(ED) with formaldehyde (F) in the presence of acid catalyst and using 1:1:2 molar ratio of reacting monomers. Copolymer resin compositions have been determined on the basis of their elemental analysis and the number average molecular weights of resin were determined by conductometric titration in non-aqueous medium. The UV-visible, FTIR and proton nuclear magnetic resonance (H NMR) spectra were studied to clucidate the structure. The surface features and crystalline behaviour of the ligand and its complexes were analysed by scanning electron microscope (SEM).

Kejnvords: Synthesis, 2,2'-dihydroxyipheyl, ethylenediamine, formaldehyde, polycondensation, resin, structure, degree of polymerization, characterization.

I. INTRODUCTION

Synthesis and characterization of polymeric resins deserves to be investigated because of their varied characteristics and beneficial properties. Copolymers resin has been become subjects of interest and are found to be amorphous, crystalline or resinous in nature [1-2]. So far, several copolymers of phenol or 8-Hydroxyquinoline derivatives like o-aminophenol, resorcinol, pyrogallol and phydroxybenzoic acid with formaldehyde have been reported Extensive studies on the copolymers, reported in the literature, are synthesized by the condensation of a mixture of phenol or hydroxybenzoic acid, various amines and formaldehyde [3-4]. Since last few decades many scientists are working to develop new and easier techniques for synthesis and characterization of copolymer due to its versatile applications in domestic as well as in industrial sector, copolymer found very useful applications as adhesive, high temperature flame resistance, melting temperature control, fibres, coating materials, semiconductor, catalyst, ion exchange resin, flexibility impact modifier for engineering plastic, heat sealing film in car interior, pipelines, electrical resistance textiles, bullet-proof vests biomaterials, light guide panel laptop computers and pharmaceutical uses[5-8].

Thermo analytical and kinetic studies of terpolymer resins derived from 8-hydroxyquinoline-5-sulphonicacid/p-cresol, oxamide/melamine with formaldehyde have been reported by Singru et al. [9-11].Recently, the groups of Pierre, Serratrice, Bradshaw and Hiratani developed di and tritopic 8-HQ derivatives for the selective extraction or sensitizing of Metal ions [12-14]. Poly (oxinealkaline) polymers have been reported as ion exchangers [15] as well. 2-hydroxy, 4-metoxybezophenone, 1,5-diaminonapthalene, formaldehyde by Das [16]. A chelating terpolymer synthesized from anthranilic acid, salicylic acid and formaldehyde by MAR Ahmad and co-workers [17]. The material is often not a single component and hence simple chemical analysis will rarely provide all information required.

Antimicrobial Screening of Polymeric Resins derived from 2,2'Dihydoxybiphenyl, Formaldehyde and Biuret

Sanjiokumar S. Rahangdale1, Nisha Tiwari2, Manish Tiwari3 and W. B. Gurnule4

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Abstract—Novel chelating polymeric resin has been synthesized from 2,2' dihydoxybiphenyl, biuret and formaldehyde in dimethyl formamide medium with varying mole proportions(4:2:7) The polymer was characterized by FTIR, Proton NMR, ¹³C NMR spectroscopy, Gel permention chromatography (GPC) and scanning electron microscopy (SEM). The thermal decomposition pattern and the kinetics of thermal decomposition of the copolymer resins investigated by thermogravimetric analysis (TGA) in a static nitrogen atmosphere at a heating rate of 10 °C/min. Freenman-Carroll and Sharp Wentworth methods have been adopted to evaluate the kinetic and thermodynamic parameters such as thermal activation chergies (Ea); order of the reaction (n), entropy change (S), free energy change, apparent entropy and frequency factor (Z). The thermal decomposition model for the copolymer resin was also proposed using Phadnis-Deshpande method. The synthesized copolymer resins were screened for antimicrobial activity against pathodenic bacteria and fungi. The resins show potent inhibition against bacteria suchas Eschericida coli, Klebsiella Staphylococcus aureus, and Pseudomonusaeruginosa and fungi viz. Aspergillus flavus, Aspergillus niger, Penicillium species, Candida albicans, Cryptococcas neoformans and mucor species.

Keywords-Synthesis, ion-exchanger, distribution coefficient, resin, polycondensation, Antimicrobial screening.

I. INTRODUCTION

Antimicrobial screening commercialized in a wide range of formulations with different characterization and have now a large practical applicability in various industrial processes, such as chemicals, nuclear industry for treatment of liquid waste, pharmaceuticals, food industries etc [1-5]. For their versatile properties, the copolymer resins are used both in the ion exchange area and in the heterogeneous catalysis field [6-8]. Organic ion exchange resins are the most important class of ion exchangers. Several workers [9] have investigated the role played by the polymer structure on ion exchange equilibrium and physical properties of the system. Donarum L G, Tomic E A and DeGieso R C developed the evaluation procedure for determining the selectivity of chelating polymer prepared from salicylic acid and formaldehyde. M. RiswanAhamed[10] et. al. reported the properties of ion exchanger containing chelate groups derived from anthranillic acid and formaldehyde. Ion exchange resins have been employed for many new organic and inorganic separations.





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SEPARATION OF TOXIC METALS IONS FROM WASTE WATER USING PYROGALLOL-BIURET-FORMALDEHYDE COPOLYMER RESIN

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Fublished: 80/09/2020

ABSTRACT:

The PBF copolymer resin was synthesized by the condensation of pyrogallol and bluret with formaldehyde in the presence of 2M HCl as a catalyst at 124 ± 2 °C for 5 h with molar proportion of reactants. The PBF copolymer resin has been characterized by UV-visible, IR and proton NMR spectral studies. The PBF copolymer proved to be a selective chelating ion-exchange polymer for certain metals. Chelating ion-exchange properties of this polymer were studied for Fe³⁺, Cu²⁺, Ni²⁺, Co²⁺, Zn²⁺, Cd²⁺ and Ph²⁺ ions. A batch equilibrium method has been employed in the study of the selectivity of metal-ion uptake involving the measurements of the distribution of a given metal ion between the copolymer sample and a solution containing the metal ion. The study was carried out over a wide pH range and in media of various ionic strengths. The polymer showed higher selectivity for Fe³⁺, Cu²⁺, Ni²⁺than for Co²⁺, Zn²⁺, Cd²⁺ and Pb²⁺ions. Study of distribution ratio as a function of pH indicates that the amount of metal ion taken by PBF copolymer resin increases with the increasing pH of the media.

Key words: - Synthesis, Condensation, Spectral studies, Ion-exchange property, Distribution ratio.

INTRODUCTION:

Ion exchange resin is a new type of adsorption and separation materials that can be used in the form of resins and fiber bundles (Lee C et.al. 2017). A large amount work has been carried out on the customized synthesis, characterization and applications of various inorganic and organic polymers. Particularly, research in the area of coordination polymers has witnessed an upsurge during the past few decades. The discovery of the Prusslan blue in 1704 has marked the beginning of first man made coordination polymer. Coordination polymers comprises of addition of metal ions into the polymeric backbone leading to the

formation of the polymer-metal complex with enhanced chemical, mechanical and optical properties which have myriads of applications (Colon YJ et. al. 2020, Liu J et. al. 2020, Yang XG et. Al. 2019, Liu JQ et. Al. 2020, Hu Y et. Al. 2019). A copolymer resin generally consist of three distinct monomers bonded in an end-toend fashion and have applications in the area of porous and hybrid films (Phillip AW et. al. 2011), solar cells (Kang TE et. al. 2013), ferroelectric and electromechanical devices (Xu H et. al. 2001), in biological and medical fields (Fustin CA et. al. 2005). Notably, Ahamed and coworkers have synthesized the copolymer resin of Anthranilic acid, Salicylic



Environmental Science For The
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Dr. Renu Nayar Dr. Manish Tiwari

CHAPTER 10

SYNTHESIS, ION-EXCHANGE AND ELECTRICAL CONDUCTANCE STUDIES OF 2-AMINO 6-NITROBENZOTHIOZOLE-OXAMIDE COPOLYMER RESIN

Wasudeo B. Gurnule^{1*}, Rashmi R. Dubey¹, Swati S. Nagare¹, Swati G. Burade¹, Uma S. Purohit¹, Jyotsna V. Khobragade²

*1Department of Chemistry, Kamla Nehru Mahavidyalaya, Nagpur 2Department of Chemistry, Guru Nanak College, Ballarshah

Abstract

A novel Copolymer resin ANBOF-I was synthesized from 2-amino-6-nitrobenzathiozole (ANB) and oxamide (O) with formaldehyde (F) in the presence of 2 M HCl as catalyst in molar ratios of reacting monomer as 2:1:3 by solution condensation. The novel copolymer synthesized have been characterized by Infrared, NMR, elemental, SEM studies and structural properties including the morphology of the copolymer was determined. Over a wide temperature range, the ANBOF copolymer electrical properties were investigated (313–423 K). The produced copolymer exhibits chelation ion exchange property with seven metal ions, including Ni(II), Fe(II), Cu(II), Zn(II), Co(II), Pb(II) and Cd(II) according to batch separation procedures. The aforementioned chelating ion exchange investigation was conducted at various pH ranges, time intervals, and ionic strengths. The newly created copolymer was discovered to be thermally stable and to have excellent ion exchange properties with a number of metal ions.

Keywords: Copolymer, Ion exchange, Thermal analysis, Electrical Study, SEM, FTIR.

Introduction

In our body system, water is important. As human society undergoes increasing industrialization, a significant number of harmful contaminants containing heavy metal ions that pose a serious threat to human well-being are being discharged into wastewater systems. Heavy metal ions including Pb²⁺, Cd²⁺,



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NEHRU MAHAVIDYALAYA

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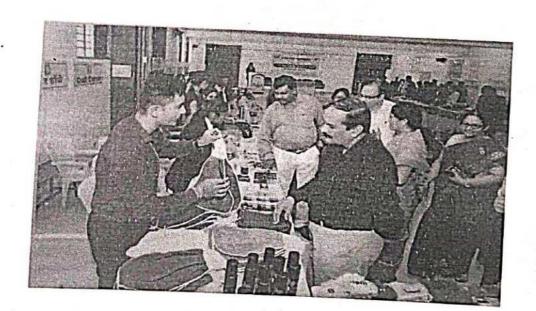
	Date ://

Academic Year: 2019-20 Activity: Business Expo Participants count: 47

Place : College Auditorium

Date: 1/12/2019

Faculty of Arts organized a Business Expo in collaboration with Maharashtra Centre of Entrepreneurship Development under the MOU Activity. Mr. Waghmare Chief of MCED inaugurated the Expo. Principal Dr. Ashok Kamble Vice Principal Dr. Pradeep Dahikar Present. Total 47 UG & PG students participated in this activity.



Kemla Nehru Mahavidyalaya Sakkardara Chowk, Nagpuf

To, The Principal, Kamla Nehru Mahavidyalaya, Sakkardara Square, Nagpur

Subject: To get the permission for conducting seminar on "Research Methodology for Humanities"

Respected Sir,

Department of English is planning to organize organizing a seminar on "Research Methodology for Humanities" for the students of Post-Graduation. The seminar will be conducted by Dr. Priti Dave on 15th March 2023 in the college premises.

It is kind request to give the permission to conduct the seminar.

Permitted Ne

Dr. S D Deshburton



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DR. (Smt.) SUHASINI G. WANJARI President Adv. ABHIJIT G. WANJARRI Secretory DR. DILIP S. BADWAIK Principal

1.DOE/2022-23

Date: 10 ,03 ,2023

Notice

Seminar on "Research Methodology for Humanities"

All the students are hereby informed that Department of English has decided to organise a seminar on "Research Methodology for Humanities" by Dr. Preeti Dave on 15th March 2023 for the students of post-graduation. All the students should attend the program in order to gain information about the same. Students are requested to register before 11th March 2023.

> Kemla-Nehru Mahavidyalaya. Sekkerdara Chowk, Nagpur



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DR. (Smt.) SUHASINI G. WANJARI President Adv. ABHIJIT G. WANJARRI Secretory DR. DILIP S. BADWAIK Principal

M. D.E/2022-23

Date: 16/03/2022

Academic Year

: 2023-24

Activity

: Research Methodology for Humanities

Participants Count : 68 Students, 09 Teachers

Date of Activity

: 15.03.2023

Place

: Room No 103

Objective

: To enhance the research concept among

Humanities students

The department of English has arranged a classroom seminar on Research Methodology for Humanities students. Since Research Methodology is a compulsory subject for Post Graduate Students in the Arts faculty, a seminar was organized to help students develop their research skills. The program was graced by Dr. Priti Dave. She dealt the concept of research methodology in details. The session was interactive and concept clearing. Total 68 students were benefitted out of this activity. All humanities staff was present on the occasion.



Ramla Nehru Mahavidyalaya Sakkardara Chowk. Naunur

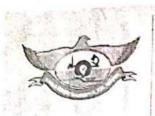
Research Methodology for Humanities

15-Mar-23 Attendance of Participants

)	Name	Class	Signature
1	Abhished S. Mandrikar	MAI	Amardenter
	Ankita Ragvilas Barva	MA1.	ABonye
3	Anuja P Talan	MAI.	Anus
4	Ashwin hand kodur Dedmuch	MAI	Deshulu
5	Ekta I. Bablinse	MAI.	EIB
6	Jayesh Vasarka Rehpade		Skestypul
7	kimaya A. Dewaikar	MAI.	Kimacya
8	Manta Sheshrao	MA1.	Mass
9	Mayuri Lamlahar Dathe	MAI-	MPatue
10	Mondea Radagh Pathe-	MAI.	Mpalle
11	Witesh vyayrao Chaware.	MAI.	Notesla
12	Projyanta M. Gadhari	MAI.	(burg)
13	Saleshi Y. Bhorker	MAI.	Salessul
14	Sheeti Narsendra Blushnustas	MAI.	SNB.
15	Sonal Ashok Wasnik	MAI	Stopswill
16	Vaushali & Rant	MAI.	W Raut
17	Anant G. Ghulakshe	MAII	AGG
18	sadul wound Ordinal	KATE	BA Dadweal
19	Hina Parvin Sheeken Chand	IIAM	H. Paroure
20	Mansi H. Bagdo	MAII.	Maurst
21	Mayna Lesson Polaswers.	MATT	MKP
22	Nikita Probhalan Bludge	MAII	N. Phoke
23	Salechi Arum Marule	MAII	Salaw
24	Shelien Sanofer A. I. A.	MATI	Svyadare
25	Shellen Sanofer A. L.A.	MAII	88A

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26	Showan formed Shulda	ITAM	3ºPShuleda
27	Snellal Surendra kulkaring	MAT	Ssellani
28	Unnati Narondra karmore	MAIL	Annato
29	Abhshele T. Nagoure	BATT	A-T. Naypue
30	Aditya Devrao Pandav.	BAIII	A-Pandar
31	Alsantesha k. Madayi	BATT	Alcansua
32	Aman Santosh Giradkar	BAII	AGiraduar
33	Amisha Narendra Dhande	BAIIL	AND
34	Apuna T. Makode	BATT	A-mallode
35	Arti Gasewade	BATT	RP-GORDIOCE
36	Bhunita Sanjay katase	BATT	Brunga.
37	Bushan Shripad Monde	BATT.	Brand
38	Dhanashni Madom Ragwe	BATT	BM Bagus
39	Drew Sarkin Egipe	BAII.	S Rev
40	Dilesha K- Rant	BAII.	Dre-Raut
41	Diksha N. Chandelear	BAIII	Dugha
42	Harshal Mancher Durge	BATT.	H.M. Dunges
43	Slarshal Braleash Pattl	BALLET	Harshal Pation
44	Janlavi Praceash Dhole.	BATT.	Janhoui 1
45	Kanshma A-Maular.	BAIII.	VA Manutary
46	Khushali Vikasrao Doljad.	BAIL	K.V Doijad -
47	Kirti Sampal Shrivame	BAII	lon-8
48	Kristma Rawsigh Maleuar	BATH.	K.R. maleurs "
49	Manisha B. Kapurdesiya	BAIL	MBW
50	Nandinee D. Abhare.	BAIII.	Wardni-
51	Novel Waman Kolhe.	BATT	N.w. kolhe.
52	Piyled Romesh Sayam	BATIL	Prycestisayon
53	Pornima Susiram Bookers	BATT	Pornona.
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55	Rahul Sajanlal Maske.	BATTE	R.S. Marke,
56	Rosban March Kedar.	BATTT.	001
57	Rucholea N- Wademare	BAIIL	Received
58	Salul Bherst Dodge.	BATIL	SADOOLLE
59	Schol Dungareshurer Meshram	BAIT	S.D. Moslians
60	Sales Duarmondrasing Thaleur	BATT	S- Waleur
61	Samoor Ishwanji Rangari	BAIII	Saweer
62	Sant P. Salcharlas	0.470	SASalaharlar
63	Saviya Ponin S.A-Q,	BATTL	Saprationals
64	Suital & Umredkar.	BATT	S@Umidler.
65	Shivam Shahkar Bunde	BAIII.	Shraw.
66	Sopan Vishwarath Ujjankar	BAIII.	Siv. Vijanuar
67	Swapuil Kroman Pauller	BATH	Spaunker
68	Thrandeshwar Dorshan Bageshwar	BATT	T.D. Bagesluar



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KNM/	

Date:

Department of Chemistry Expert Lecture by Prof. M. Swaminathan Kalasilingam, Annamalai University, Kalasalingam Academy of Research and Education, Krishnankoil 2021-22

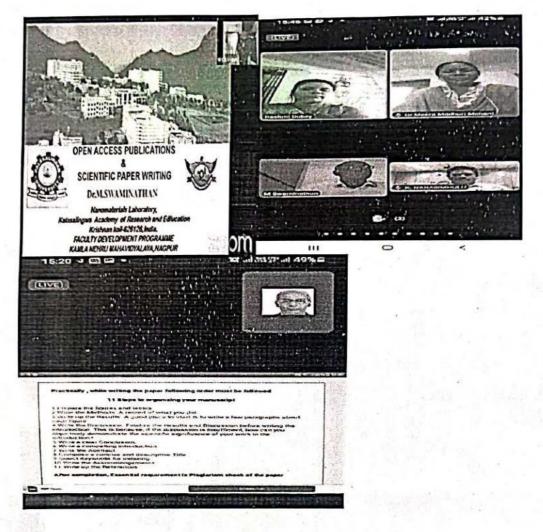
2 March 2022

Topic: Scientific paper writing

Brief write up: Over the years history has shown that resolving society's problems through a scientific approach is the best way to handle those problems. Science needs not to be restricted to school curriculum. It needs to be talked outside schools, academic institutions & should be made a part of Public conversations. Children's are naturally curious, asking questions, and wondering how things work is a natural question that comes to everyone. This approach towards life should be nurtured, nourished & encouraged throughout the education system. Only a scientifically literate person can be rational, logical & critical in her approach for making decisions and solving problems of daily life.

Objectives:

- 1. To arouse scientific temperament & outlook among students.
- 2. To Popularise science & fighting superstition.
- 3. To develop Rational & scientific vision free from ignorance.
- 4. To relate the phenomena occurring in nature, society, family with science
- 5. To develop the spirit of enquiry and the acceptance of the right to question and be questioned.
- 6. To spread a message about the significance of scientific applications in the daily life of people.
- 7. To display all the activities, efforts and achievements in the field of science for human welfare.



Beneficiaries:

Total 75 students have been benefitted by the Expert Lecture.



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DR. DILIP S. BADWAIK Principal

KNM/

Date:	1	1	
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Academic Year 2022-2023

Activity: Three Days workshop and Hands On Training on Plant Tissue Culture Techniques for students of S. K. Porwal College, Kamptee.

Date of Activity: 17th to 19th October 2022

Objectives: To enhance students Knowledge and Hands On Plant Tissue culture Laboratory set up and techniques.

Beneficiaries: 27 PG Students

About the Activity:

On 17th to 19th October 2022 Department Biotechnology, arranged workshop on Plant Tissue Culture Techniques for the PG students of Dept. of Microbiology of S. K. Porwal College, Kamptee. During this workshop Dr. Moghe madam (HOD, Biotech Department) delivered her lecture on Plant Tissue culture Techniques and Dr. S. B. Nandeshwar Sir (Retd. Sr. Principal Scientist CICR, Nagpur) had explained the Explant inoculation and Its mechanism how the growth comes under controlled condition and Dr. Sarita Tiwari had given knowledge about all instrumentation used in Plant Tissue Culture Techniques. All Practical work and gives them hands on Plant Tissue culture methodology.

All students of Porwal college were performed individually all practical work.

- Students got the knowledge of Plant Tissue culture techniques
- Hands on Plant Tissue culture practicals.



Kemile Nehru Mayavidyalay, Sekkardara Chowk, Nagpir



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Certified by ISO 14001:2015 & ISO 9001:2015

DR. (Smt.) SUHASINI G. WANJARI President Adv. ABHIJIT G. WANJARRI Secretary DR. DILIP S. BADWAIK Principal

Academic Year: 2023-24

Activity: Workshop on "Plant Tissue Culture Techniques" for the students of B. Sc. VI

Semester Life Sciences S. K. Porwal College, Kamptee, Nagpur

Date of Activity: 24th February, 2024

Place: Department of Biotechnology

Beneficiary: 25 UG Students

Objectives: To inform student about Plant Tissue culture techniques.

About the Activity:

To introduce students about advance techniques in plant tissue culture a workshop was organized on "Plant Tissue Culture Techniques" in the department of biotechnology dated 24th February 2024 for the students of B. Sc. VI Semester Life Sciences S. K. Porwal College, Kamptee, Nagpur. During this workshop Dr. Moghe madam (HOD, Biotech Department) delivered her lecture on Plant Tissue culture Techniques and Dr. Sarita Tiwari give knowledge about all instrumentation used in Plant Tissue Culture Techniques. Dr. Pallavi Wanjari take all Practical work and give them hands on Plant Tissue culture methodology. All students of Porwal college were performed individually all practical work.

Outcomes: Students got the knowledge of Plant Tissue culture techniques and hands on Plant Tissue culture practical.



Ramia Nehru Mahavidyalaya Sakkardara Chowk, Nagpur

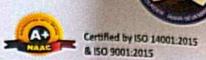


(Regd No. : M/220/78 NGP) F-2299 (N)

KAMLA NEHRU MAHAVIDYALAYA

(ARTS, COMMERCE, SCIENCE & MANAGEMENT) SAKKARDARA CHOWK, NAGPUR - 440 024

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DR. (Smt.) SUHASINI G. WANJARI President Adv. ABHIJIT G. WANJARRI Secretary DR. DILIP S. BADWAIK Principal

Academic Year 2022-2023

Activity: One Day workshop on Plant Tissue Culture Techniques for students of S. K. Porwal College, Kamptee.

Date of Activity: 4th March 2023

Objectives: To enhance students Knowledge and Hands On Plant Tissue culture Laboratory set up and techniques.

Beneficiaries: 27 UG Students

About the Activity:

On 4th March 2023 Department Biotechnology, arranged workshop on Plant Tissue Culture Techniques for the students of B. Sc. VI Semester Life Sciences S. K. Porwal College, Kamptee, and Nagpur. During this workshop Dr. Moghe madam (HOD, Biotechnology Department) delivered her lecture on Plant Tissue culture Techniques and Dr. Sarita Tiwari give knowledge about all instrumentation used in Plant Tissue Culture Techniques. Dr. Pallavi Wanjari takes all Practical work and gives them hands on Plant Tissue culture methodology.

All students of S. K. Porwal college were performed individually all practical work.

Outcome:

- Students got the knowledge of Plant Tissue culture techniques
- hands on Plant Tissue culture practical's
- Also get to know about the future scope in Plant Biotechnology.



PRINCIPAL

Kamia Nchru Mahavidyalaya

Bakkardara Chowk, Nagpi''



AMAR SEWA MANDAL'S (Regd No.: M/220/78 NGP) F-2299 (N)

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DR. DILIP S. BADWAIK Principal DR. (Smt.) SUHASINI G. WANJARI President Adv. ABHIJIT G. WANJARRI Secretary

Academic Year 2022-2023

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Objectives: To enhance students Knowledge and Hands On Plant Tissue culture Laboratory set up and techniques.

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About the Activity:

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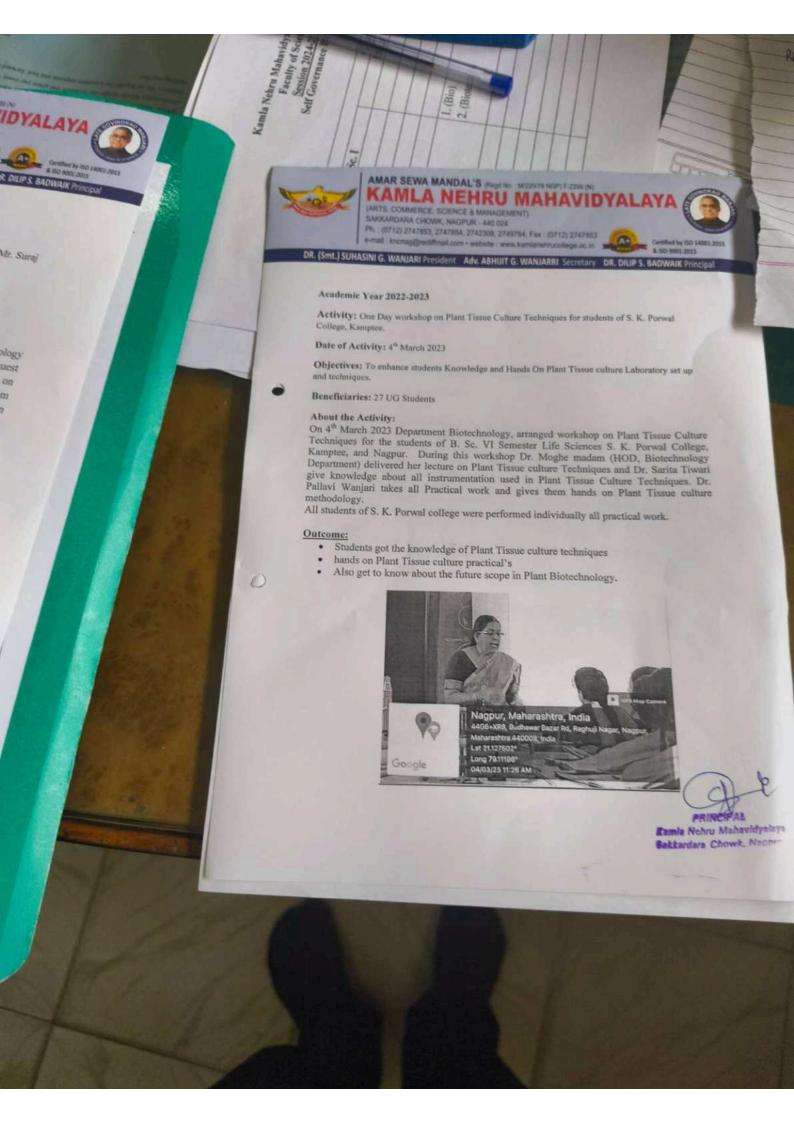
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Kemia Nehru Mahavidyalayo Bakkardara Chowk. Nagpi"





AMAR SEWA MANDAL'S (Rogd. No. M/220/78 MSP) F-2299 (N)

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DR. (Smt.) SUHASINI G. WANJARI President	Adv. ABHUIT G. WANJARRI Secretory	DR. DILIP S. BADWAIK Principa
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Academic Year 2021-2022

Activity: Workshop on Plant Tissue Culture Techniques for students of S. K. Porwal College, Kamptee.

Date of Activity: 10th March 2022

Objectives: To enhance students Knowledge and Hands on Plant Tissue culture Laboratory set up and techniques.

Beneficiaries: 17 PG Students

About the Activity:

On 10th March 2022 Department Biotechnology, Kamla Nehru Mahavidyalaya, arranged workshop on Plant Tissue Culture Techniques for the UG students of S. K. Porwal College, Kamptee. During this workshop Dr. Moghe madam (HOD, Biotech Department) delivered her lecture on Plant Tissue culture Techniques. The Demonstration of different instruments and its working Protocol was introduced to students by Mr. Vijay Harode sir. He also explained the Explant inoculation procedure, and how the growth comes under controlled condition.

All students of S. K. Porwal college were individually performed all practical work.

Outcome:

- Students got the knowledge of Plant Tissue culture techniques
- · Hands on Plant Tissue culture practical.





AMAR SEWA MANDAL'S (Regd No.: M/220/78 NGP) F-2299 (N)

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DR. (Smt.) SUHASINI G. WANJARI President Adv. ABHIJIT G. WANJARRI Secretary DR. DILIP S. BADWAIK Principal

Academic Year: 2021-2022

Activity: Expert Talk on "Importance of microbes in day to day life" by Mr. Suraj

Kombe, S. K. Porwal college kamptee

Date of Activity: 20 April 2022

Objectives: Awareness about importance Microbes in day to day life

Details of Activity

A guest lecture was arranged by Department of Biotechnology in the Biotechnology Lab 20 April 2022 at 11.00 am. A total of 42 students attended this lecture. The guest for the event was Dr. Suraj Kombe Sir. He has Deliver an expert talk on "IMPORTANCE OF MICROBES IN DAY TO DAY LIFE". Total 42 students from Biotechnology department take advantage of this lecture. In his lecture he focused on Importance of microbes and how to isolate pure culture for industries .After lecture there was active discussion between students and guest Lecture.



Remia Nehru Mahavidyalaya Bakkardara Ghowk, Nagpun



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DR. (Smt.) SUHASINI G. WANJARI President Adv. ABHIJIT G. WANJARRI Secretary DR. DILIP S. BADWAIK Principal

Academic Year

: 2020-2021

Activity

: Webinar On Carrier Opportunities On Paramedics

Participants Count : 30 Students

Date of Activity

: 21/06/2021

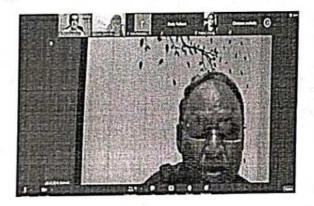
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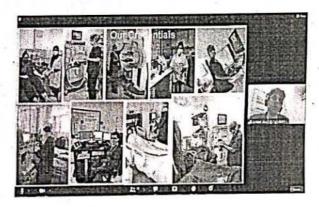
: Kamla Nehru Mahavidyalaya

Objective

: To Explore The Career opportunities in the paramedic sector

In view of current Covid-19 pandemic and major challenges received by healthcare an online webinar or "Career opportunities on Paramedics" was organized by department of Biochemistry on 21/06/2021. Ir collaboration with itransform Paramedic centre, Mumbai. The speaker Mr. Sameer Joshi, Founder & Chairman of iTransform Group deliberated thorough insight of challenges faced by healthcare sector during this pandemic situation. During his speech he had clearly mentioned various opportunities in health care sector especially paramedic sector and different short term and long term courses available for it. Mr. Sameer Joshi explained detail modules of paramedic courses like Operation Theater Technology, Dialysis Technology, Radiology, Phlebotomy, MLT. During this webinar participants got chance to know about various placed students after completion of these paramedic courses. Total 30 participants attended this webinar.





Dr. Shardul S. Wagh Head Department of Biochemistry Kamla Nehru Mahavidyalaya Nagpur

Kamia Hehru Mahavidyalaya Cottordara Chawk. Nagpur



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DR. (Smt.) SUHASINI G. WANJARI President Adv. ABHIJIT G. WANJARRI Secretary DR. DILIP S. BADWAIK Principal

Biochem

Academic Year

: 2020-2021

Activity

: Orientation Program on certificate Course in Paramedics

Participants Count : 30 Students

Date of Activity

: 03/09/2021

Place

: Kamla Nehru Mahavidyalaya

Objective

: To provide Information about short term and long term course available in

paramedics

Mr. Sameer Joshi, a renowned expert, led an orientation program on certificate courses in paramedic highlighting the sector's importance, especially during the pandemic. He discussed various short-term ar long-term courses, including Operation Theater Technology, Dialysis Technology, Radiology, Phlebotom and MLT, covering their modules, duration, and eligibility criteria. The program showcased success stories students who completed these courses and were placed in healthcare settings, inspiring participants to pursue career in paramedics. With 31 attendees, the program concluded with a Q&A session, providing comprehensive understanding of the certificate course and inspiring participants to explore opportunities this field.





Dr. Shardul S. Wagh Head Department of Biochemistry Kamla Nehru Mahavidyalaya Nagpur

Kamia Nehru Mahavidyalaya Batterdare Chewk. Negpur