

DEPARTMENT OF BOTANY ANNUAL REPORT

SESSION: 2021 – 2022

This year classes started on 1 August, 2021. In the beginning of session Induction programme and bridge course was taken for U.G. and P.G. students. Regular classes were conducted by all the professors and completed their course on time. From this session department of Botany has introduced Post Graduate course (M.Sc. Botany) in college. This year, Dr. RAJKUMAR KHAPEKAR, Associate Professor and Head Department of Botany has been nominated by Hon'ble Vice Chancellor of R.T.M. Nagpur University as Member, Board of Studies in Botany in the faculty of Science & Technology also on B.O.S. in Botany, Government Institute of Science, Nagpur. Dr. Megha Bhambri, Assistant Professor, Department of Botany has successfully completed the MS-DEED Level 1 Online Workshop on Introduction to Innovative Pedagogies for UG Teachers from 21st Dec 2021 to 23rd Dec 2021 and got selected for Level 2. She participated in the MS-DEED Level 2 in - person Master Trainers Workshop on Effective Teaching for Science & Mathematics Undergraduate Teachers from 16th May 2022 to 28th May 2022 at IISER Pune.

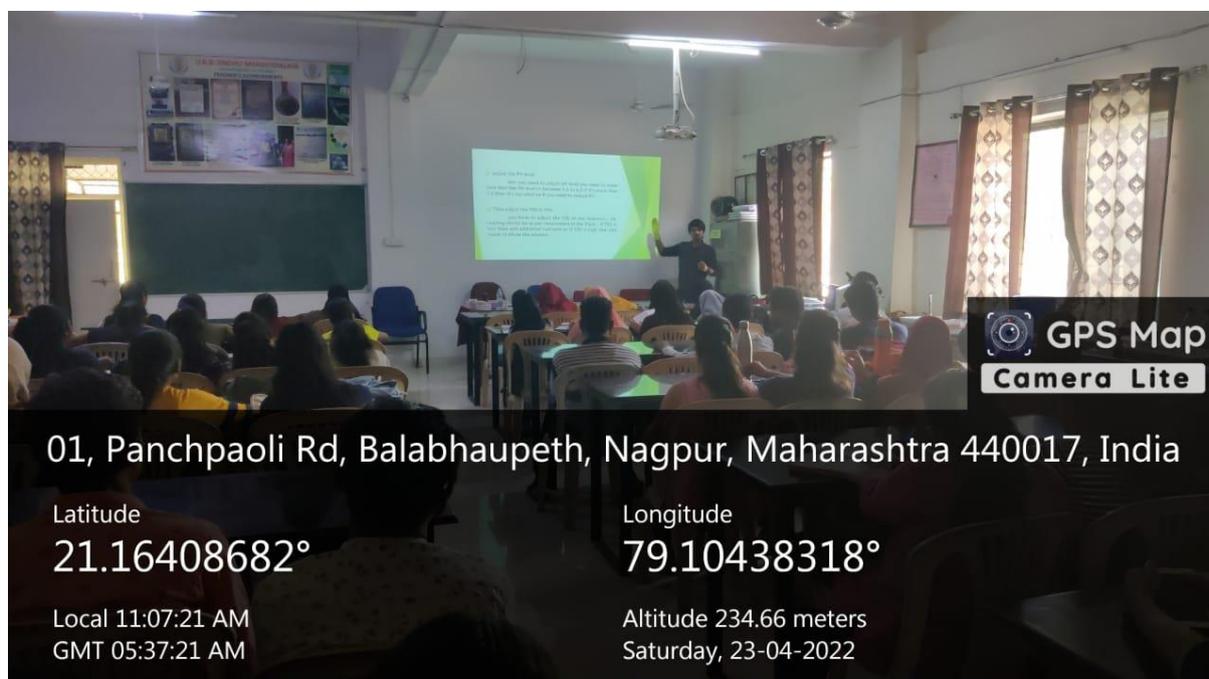
Department of Botany conducted various curricular and co-curricular activities, beside conducting regular classes. This year Under the banner of skill development program, guest talk was arranged.

Report of Guest Lectures

“Hydroponics: A step towards future farming”

A Guest Lecture on ‘Hydroponics: A step towards future farming’ was organized by Certificate course in Hydroponics of Department of Botany, Dada Ramchand Bakhru Sindhu Mahavidyalaya, Nagpur on 23rd April 2022. The Guest speaker was Mr. Satish Paliwal, QualityGrow Hydroponics Solutions, Agriculture Services. In his lecture he covered various aspects like types of hydroponics: NFT, DWC, Wick system, Ebb & Flow, Drip system, aeroponics system, various hydroponic medium, nutrients, Ph, TDS and advantages of hydroponics. He explained the entire topic in detail and motivated students to adapt and learn

this new skill for future career. Many undergraduate students attended the lecture and are immensely benefitted from it. Dr. Megha Bhambri, Assistant Professor, Department of Botany introduced the speaker and Dr. Prachi Lambat, Assistant Professor, Department of Botany proposed formal vote of thanks.



Mr. SATISH PALIWAL DELIVERING GUEST LECTURE

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EXPERT TALK ON “BEAUTY OF PLANT FOSSILS: TECHNIQUES OF PRESERVATION, PREPARATION AND GEOLOGICAL TIME SCALE”

An expert talk on “Beauty of Plant Fossils: Techniques of Preservation, Preparation and Geological time scale” was arranged by department of botany on December 02, 2021. The speaker of talk was Dr. Sanjay Meshram, Assistant Professor, Dept. of Botany M.B. Patel College, Sakoli. In his lecture he covered various aspects like types of fossils - Petrified Fossils, Molds and Casts , Carbon Films , Trace Fossils, Preserved Remains, Compression, Impression, Pseudofossils, Various eras and epochs of Geological time scale, effect of climate change and volcanic activities on fossils. He also beautifully covered the Techniques of Preservation,

Preparation of fossils and also discussed about the fossils flower and fruits. He explained the entire topic with beautiful and elaborative slides His lectures were attended by many students of undergraduate and post graduate classes along with faculty members. Dr. Meshram's lecture was well accepted by students. He also gave satisfactory answers to many quires and questions. Mr. Chetan Devangan a student from M.Sc. Semester – I introduced Dr. Meshram and Miss. Mahima Kolhekar student of M.Sc. Semester – I had proposed formal vote of thanks.



DR. SANJAY MESHAM DELIVERING GUEST LECTURE

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GUEST LECTURE ON DNA THE GENETIC MATERIAL

Guest lecture on “DNA the genetic material” was organised by department of Botany on March 23, 2022. The speaker of guest lecture was Dr. Pradnya Khapekar, Assistant Professor, Dept. of Botany Jagdamba Mahavidyalaya, Achalpur. In his lecture she discusses various aspects related to DNA. She explained the entire topic with beautiful and elaborative slides Her lecture was attended by many students of undergraduate and post graduate classes along

with faculty members. Dr. Sandeep Hate, Assistant Professor Department of Botany had given introductory remark and Dr. Prachi Lambat Assistant Professor Department of Botany had proposed formal vote of thanks. Dr. Khapekar, Head Department of Botany and Dr. Megha Bhambri Assistant Professor Department of Botany was prominently present during the event.



DR. PRADNYA KHAPEKAR INTERACTING WITH STUDENTS

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NATIONAL CONFERENCE 'ON BASICS AND ADVANCES IN BIOLOGICAL SCIENCES'



DR SUBHASH R CHAUDHARI HON. VICE CHANCELLOR, RASTRASANT TUKDOJI MAHARAJ NAGPUR UNIVERSITY, NAGPUR WAS SPEAKING ON THE OCCASSION

National Conference 'On Basics and Advances In Biological Sciences' on 8th & 9th April 2022 was Organized by Life sciences department of Dada Ramchand Bakhru Sindhu Mahavidyalaya, Nagpur in collaboration with Technology and Energy park Rastrasant Tukdoji maharaj Nagpur university Nagpur and Global Biotech Forum Nagpur. The venue of the inauguration function is Dr. A. K. Dorle Auditorium, Department of Pharmaceutical Sciences, University campus, Nagpur.

National Conference was inaugurated on 8th April at 10.00am at the hands of Chief guest Dr Subhash R Chaudhari Hon. Vice Chancellor, Rastrasant Tukdoji maharaj Nagpur university, Nagpur. Dr H. R Bakhru Hon. President Sindhi Hindhi Vidya Samiti presided over . From Sindhi Hindhi Vidya Samiti Dr Vinky Rughwani Hon. Chairman, Dr Ishwar Keswani Hon. General Secretary, Shri Niraj Bakhru, Hon.Secretary College affairs and Dr V.M Pendsey, Principal, Dada Ramchand Bakhru Sindhu Mahavidyalaya, Nagpur graced the occasion.

Dr. S. H. Patil, Chairman, Maharashtra State Biodiversity Board was the keynote speaker and Dr. Suruchi Pande, Vice Chair, Ela Foundation, Pune and Head, OENSL, Ela Habitat, Pingori village (Dist. Pune) , Dr. Snehunsu Adhikari, Scientist and In-charge, Department of Exercise Physiology Sports Authority of India, Kolkata, Dr. Milind Sardesai, Associate Professor, Department of Botany, Savitribai Phule Pune University, Pune , Dr. Ashwini Kumar, Senior Scientist, Department Geological Oceanography, CSIR - National Institute of Oceanography, Goa, Dr. Amul Sakharkar, Assistant Professor , Department of Biotechnology, Savitribai Phule Pune University, Ganeshkhind, Pune, Dr. Sharda Kosankar, Sr. Scientist, Environmental Biotechnology and Genomics Division, CSIR NEERI, Nagpur, Dr. G. B. Gathalkar, Scientist, Laboratory of Entomology, Division of

Organic Chemistry, CSIR – National Chemical Laboratory, Pune and Dr. G. Balasubramani, Principal Scientist, Central Institute for Cotton Research, Nagpur were the invited speakers for the conference.

In the Validictory Dr Sanjay Dudhe ProVice Chancellor Rastrasant Tukdoji maharaj Nagpur university, Nagpur. was the Chief Guest of the function. Dr A.B.Dongre , President global biotech forum and Dr P.R Itankar , Director Technology and Energy Park were the guest of honour

Dr Zeenat Kashmiri Convenor of conference and Dr Sandeep Hate Organizing secretary of conference along with the organizing committee worked hard for the success of conference.



DR SANDEEP HATE ORGANIZING SECRETARY OF CONFERENCE,
EXPRESSING HIS VIEWS

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BOTANICAL EXCURSION TOUR SEMINARY HILLS, NAGPUR

Department of Botany, D.R.B. Sindhu Mahavidyalaya has organized a one day Botanical excursion tour to Seminary hills, Nagpur on 12th of June 2022. Seminary hills have the vast greenery and possess variety of plant species like *Dalbergia latifoliya*, *Dendrocalamus strictus*, *Tectona grandis*, *Shorea robusta*, *Leucana leucocephala*, *Boswellia serrata*, *Tamarindus indica* etc. were dominant in the area. Japanese garden present in seminary hills have large variety of herbs, shrubs, trees and climbers. Students from Department of Botany, D.R.B. Sindhu Mahavidyalaya have visited the place and got acquainted with different plant species and also the ecological phenomenon of seminary hills, Nagpur.



STUDENTS INTERACTION DURING BOTANICAL EXCURSION

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Covid – 19 Awareness : All the professors of department have conducted time to time counseling sessions for students of all semesters regarding Covid – 19. In these sessions major emphasis was given on how to protect ourself and our family members from disastrous effect of corona virus. Also discussed various points about Do's and Don't's in corona pandemic.

Carrier counselling : It is a regular practice of Department of Botany. This year also various carrier counselling sessions were conducted by department. In which students were encouraged for joining higher studies. Also discussed various opportunities after successful completion of U.G. and P.G. courses of Botany.

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STUDENT'S ACHIEVEMENT

Chetan Dewangan a student of M.Sc. Semester I of P.G. Department of Botany has secured Second Place in Inter University Level Power Point presentation competition organised by Shri Mathuradas Mohota Science college on February 25, 2022. The event was organised to celebrate National Science Day. Mr. Dewangan's topic of presentation was "Biodiversity and Conservation". His mentor for seminar presentation was Dr. Rajkumar Khapekar, Head Department of Botany. Official Principal Dr. Pendsey, Vice Principal Dr. Tewani, Dr. Thadani and Dr. Shinkhede congratulate Mr. Chetan for his achievement.



VICE PRINCIPAL DR. PENDSEY EXTENDING CONGRATULATIONS TO

MR. CHETAN DEWANGAN

Student's Progression :

The year 2021-2022 was very good from the point of view of progression of students in Botany. Total 13 students from Botany Department took admission in post graduate course in Botany. The students took admissions in various colleges like P.G.T.D. of Botany RTM Nagpur University, Govt. Institute of Science etc.

Teachers Contribution :

This year also apart from regular teaching, professors of Botany Department were engaged in contributing their knowledge on various National and International platforms through various Conference/ webinars as a Keynote speaker and experts. Dr. Rajkumar Khapekar, Associate Professor and Head Department of Botany has delivered lectures at CSIR-NEERI, Indian Water Works Association (IWWA), Institute of Engineers – Rajiv Gandhi College of Engineering, Prerna College, Bhalerao Science College, Matru Sevasangh Institute of Social Works, Arts, Commerce and Science College Arvi etc. Dr. Sandeep Hate Assistant Professor of department delivered talk at Prerna College, S.K.Porwal College, Vidya Vikas Arts, Commerce and Science College Samudrapur, Late Pushpadevi Patil College Risod etc. Also Mr. Paresh Ninave Assistant Professor of department delivered talk at Kamla Nehru College, Nagpur.

Seven day hands on practical training programme for school students was organized by Vigyan Bharti in collaboration with CSIR NEERI at NEERI during 01 to 08 May 2022. During this training program Dr. Khapekar and Dr. Hate offered their services as resource person. Where they demonstrated various experiments of Botany to the students.



**DR. KHAPEKAR DEMONSTRATING EXPERIMENTS TO STUDENTS
AT CSIR NEERI**



**DR. HATE DEMONSTRATING EXPERIMENTS TO STUDENTS
AT CSIR NEERI**



FELICITATION OF DR. KHAPEKAR AT INDIAN WATER WORKS ASSOCIATION (IWWA) AT THE HANDS OF DR. LABHASETWAR – CHIEF SCIENTIST AND HEAD WATER TECHNOLOGY AND MANAGEMENT DIVISION CSIR-NEERI