



University of Patanjali, Haridwar

Department of Allied & Applied Science

Activities of the Department of Allied & Applied Science, UOP-Haridwar

The Department of Allied & Applied Science of the University every year celebrates National Science Day, Earth Day, Water Day, Environment Day, etc. We also send our students to Patanjali Food & Herbal Park, Yoga-gram and Wellness centre for project and internship. The details are given below:

Title of Workshop: SUSTAINABILITY VIA BLOCK RADIANCE (MOBILE APP.)

Venue: UG-09, Science Block

Participants: 42 Students of B.Sc Hon. (Biological Science) 1st, 2nd and 3rd year

Teacher's Involved: Dr. V K Katiyar (Dean Academics), Dr. Om Narayan Tewari (Dean, Yoga Science), Dr. V K Singh, Dr. Laxmi Shankar Rath, Dr. Vinay Kumar Sharma, Dr. Romesh Kumar Sharma, Dr. Nivedita Sharma, Dr. Shilpa Dhania Dr. Dina Nath Gupta

Department: Allied and Applied Science Department

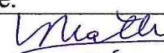
Date: 17/02/2023 **Timing:** 12.00am - 1.00 pm

Trainers: Mr. Bhaskaran S. Managing Director (Engineer), Invosystems Solution Pve. Ltd., Singapore

Member: Dr. Romesh Kumar Sharma, Asst. Professor (Environmental Science)

Training schedule for B.Sc. 1st, 2nd & 3rd Year (Biological Science), University of Patanjali, Haridwar

Time	Description	Remarks
12:00 AM – 10.00 AM	How to use mobile application {BLOCK RADIANCE (MOBILE APP.)} to record or calculate the consumption of energy, water, waste and carbon emission. All kind of financial and daily based analysis based on documentations, time table, attendance and health shall be record to generate future results or database. A total seventeen goals shall be maintain under this app.	Mr. Bhaskaran S. Managing Director was an engineer who is working as electronic engineer in Singapore. His motto to give back to the nature as much in connection to sustainability in form of energy, water, environment and health management.
Outputs	This app is having scope to analyse the consumption rate of electricity or energy and generating carbon through it, which helps to understand the energy management for low carbon emission to support environment and health.	The lecture was appreciated by each students and faculties sitting over there. Some questions were raised by the students and faculties after the presentation. For future collaboration with the presenter and his organisation a MOU shall be done. Last but not the least; Dean Academics appreciated the organisers of workshop namely Dr. Romesh Kumar Sharma and Dr. Nivedita Sharma for their informative & educational initiative.


(Dr. Laxmi Shankar Rath)
H.O.D/Coordinator
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University of Patanjali, Haridwar



Guest Speaker

Mr. Bhaskaran S. Managing Director,
Invosystems Solution Pve. Ltd., Singapore



Some glimpses of online workshops

Mue
CDR. Laxmi Shankar Pathy
H.O.D./Coordinator
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Celebration of National Science Day on 27th Feb, 2023

National Science Day was celebrated with great enthusiasm by the Department of Allied and Applied Science on 27th Feb, 2023 to mark the discovery of the Raman Effect in 1928 by the Indian Physicist Sir Chandra Shekhara Venkata Raman. Science day celebration started with the inaugural session with the lighting of lamp and paying homage to Sir C.V Raman by Dr. Laxmi Shankar Rath, Dr. Vinay Kumar Sharma, Dr. Nivedita Sharma, Dr. Romesh Sharma, Dr. Shilpa Dhania, Dr. Deenanath Gupta and Ms. Monika Panwar. Dr. Rath presided over the programme and gave his blessings to students by motivating and teaching them the importance of science since the time of Vedas. Dr. Nivedita Sharma urged to think out of the box and to focus on research which can serve mankind. The program was very well anchored by Anubhav Anand of B.Sc (Hons.)-6th Sem, Allied & Applied Science. Sapna Bisht (B.Sc-6th Sem) and Vibha Sharma (B.Sc-6th Sem) gave speech on the life history of Indian Scientists and their contribution. An essay writing and poster competition was conducted on the theme “Global Science for Global Wellbeing” The programme ended with the vote of thanks by the coordinator of the programme Dr. Nivedita Sharma.



Maath
Dr. Laxmi Shankar Rath
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Educational Tour To Forest Research Institute (FRI), Dehradun

Aim of the tour: Educational Tours for students provide them with an opportunity to collaborate with teachers, and integrate new perspectives with informal environments to enhance learning initiatives. Among the educational tour benefits, skill development and knowledge of the subject are the most important learning parameters for the students. This kind of exercise, motivate the students to involve in applied learning and research activities.

Participants: All the students of B.Sc Hon. 1st, 2nd and 3rd year (Biological Science)

Faculties & Staff Involved: Dr. L S Rath (HOD), Dr. Romesh Kumar Sharma (Asst. Prof.), Dr. Nivedita Sharma (Asst. Prof.), Dr. Shilpa Dhania (Asst. Prof.) and Mr. Ajay (Office Assistant)

Date of tour: 17/03/2022 **Timing:** 8.30am - 6.30 pm

Mode of travelling: University Bus

Learning outcomes: Survey covered various sections at FRI by the teachers and students in connection to observing and learning about various aspects of forest its resources, forestry, timber and non-timber products with the wood preservation techniques and forest diseases. Students understand about the concept by visiting various sections, note it down in their note book as knowledge resource material.



Some glimpses of the tour

M. S. Rath
(Dr. Laxmi Shankar Rath)
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Celebration of Earth Day '22 April 2023'

More than a billion people celebrate Earth Day to protect the planet from things like pollution and deforestation. By taking part in activities like picking up litter and planting trees, we're making our world a happier, healthier place to live. Earth Day is an annual celebration that honours the achievements of the environmental movement and raises awareness of the need to protect Earth's natural resources for future generations.

To understand the responsibility of ours, a **Department of Allied and Applied Science** celebrates **Earth Day on 22 April 2023** and organise Environmental awareness and management contest among the B.Sc Biological Science Students. Department organise all the events under the theme '**Our responsibility towards Nature**', which is impart and aware by **Dr. Romesh Kumar Sharma, Asst. Prof. Environmental Science through his detailed presentation.**


The event 'quiz competition' contest was organised under the supervision of Dr. Nivedita Sharma, Asst. Prof., in which students have given questions sheets with number of answers, students have to mention the true answers from it.

All the faculties, named Dr. L S Rath HOD, Dr. A K Singh, Dr. V K Sharma, Dr. Shilpa Dhanial & Dr. D N Gupta) of Allied and Applied Science Department including Yoga Department have shared their views on this important day, which was appreciated by each students and listens'. The event was celebrated under the supervision of departmental coordinator.

The contest result was declared after the screening and evaluation of quiz papers and the winner's got certificates and prizes as per performance are:-

- First prize winner: Ms. Sapna Bisht, B Sc 3rd year share with Shreyanshi of B Sc 3rd year
- Second Prize winner: Mr. Kushagra B Sc 3rd year share with Shena Gaur, B.Sc 1st year, Niharika, B.sc 3rd year, Anshu B.Sc 3rd Year and Isha Negi B.Sc 1st year
- Third Prize winner: Adesh, B.Sc 3rd year share with Mansi Chauchan B.sc 3rd year, Bhumika Dasila, B.Sc 1st year, Shubhi Rawat, B.Sc 1st year and Vibha Sharma, B.Sc 1st year

Rest of the student got consolation prize. Last but not the least, Dean Academics wish all the students a success in their career and noble mission.


(Dr. Laxmi Shankar Pathi)
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Some glimpses of the program

Maath
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Dr. Laxmi Shankar (Maath)
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DEPARTMENT OF ALLIED AND APPLIED SCIENCE

Ministry of Skill Development and Entrepreneurship (MSDE)

Kaushal Deekshant Samaroh

Aim: Annual Skill Convocation Ceremony (Online Virtual Event)

Venue: Allied and Applied Science

Participants: B.Sc Biological Science & PGDYA Students

Teacher's Involved: All Departmental Faculties (Dr. L S Rath, Dr. V. Sharma, Dr. R K Sharma, Dr. N. Sharma, Dr. S. Dhaniala & Dr. D N Gupta)

Date: 12nd October 2023

Timing: 11.00 am - 1.00 pm

Ministry of Skill Development and Entrepreneurship (MSDE) has announced the second-year celebrations of 'Kaushal Deekshant Samaroh' – Annual Skill Convocation Ceremony – on **12th October, 2023 at 11:00 AM**, where it will be felicitating it's all India toppers and high achievers across various skill initiatives of MSDE. The Hon'ble Prime Minister, Shri Narendra Modi, will be addressing the students at the ceremony. To celebrate this event within the educational environment to the students for the students is directed by University Grant Commission, New Delhi.

Photographs of the events



Muthu
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A REPORT ON A DAY INDUSTRIAL VISIT

Place of visit: Patanjali Food and Herbal Park Padartha, Haridwar. **Date:** 16th Aug 2023.

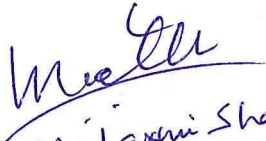
A B.Sc. Biological Science Honours and PGDYA students of the Department of Allied and Applied Science along with faculty Dr. Vinay Kumar, Dr. Deena Nath Gupta, and Dr. Bhavpreeta visited Patanjali Food and Herbal Park Padartha, Haridwar. This visit was mainly focused on understanding the procedures involved during production formulation, quality checking, and equipment used. Students visit the quality and control section and learn about the testing and different parameters of food products. After that, the student goes to visit the detergent section and explore how to make soap, shampoo, and detergent power and their packaging in different size packs automatically.

At lunchtime, all the students and teachers go for lunch in the Padartha admin canteen and have a healthy meal. After lunch, all students visit in printing areas which the very good and automated machines where lots of materials are used and printed in different sizes of the pack.

The admin department of each division also helps in discussing and exploring the ideas and knowledge of industries with students.

OUTCOME OF THE VISIT:

- The technology and the equipment used for the herbal medicine
- The various processes involved in the collection, separation, and storage of Herbal foods.
- Discussion on the difficulties faced and possible solutions to quality maintenance.


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DEPARTMENT OF ALLIED AND APPLIED SCIENCE

WILDLIFE WEEK CELEBRATION

Topic: Vultures Conservation in India and Patanjali House Sparrow Conservation Program

Participants: 14 Students of B.Sc Hon. 2nd year (Biological Science) and 60 students of BNYS

Resource Person: Dr. Romesh Kumar Sharma, Assistant Professor, Environmental Science

Department: Allied and Applied Science & Bachelor of Naturopathy & Yoga Science

Date: 07/10/2023


Timing: 9.00 am - 11.00 am

Wildlife Week: This week is commemorated to increase the awareness among the common mass regarding the role of wildlife in maintaining nature's equilibrium. The National Wildlife Week is celebrated from the 2nd to the 8th of October every year in India. This week aims at protecting and preserving India's flora and fauna.

The first Wildlife Week was commemorated in 1957 in India. The 67th Wildlife Week took place in 2021. The Indian Board of Wildlife established Wildlife Week in 1952 to increase awareness about the long-term aims of wildlife protection throughout India. Wildlife Day was first observed in 1955, but later in 1957, it was renamed Wildlife Week.

First lecture: Dr. Romesh Kumar Sharma, Faculty, Environmental Science, department of Allied and Applied Science acted as resource person for this celebration. The first lecturer on Vultures Conservation was delivered in class B.Sc 2nd year Biological Science students. In this presentation Dr. Sharma gave brief details regarding the Vultures classification in Indian subcontinent, aware about nesting, feeding and roosting behaviour of vultures with their status in Rajaji National Park, Uttarakhand. All the students enjoyed the lecture and discussed on various issues related to it.

Second Lecture: This lecture was held in the Department of Naturopathy and Yoga Science (BNYS) on the topic entitled 'Patanjali House Sparrow Bird Conservation Program'. The findings of this minor research project were shared with the students. The lecturer also contained about the ecological importance of bird, its nesting sites, its feeding and their present status in Patanjali campus. The lecture was enjoyed by the students followed by detailed discussion on the various issues with their solutions and management. A senior faculty member Dr. Sangeeta was the organiser of this event.


Dr. Laxmi Shankar Negi
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DEPARTMENT OF ALLIED AND APPLIED SCIENCE

Swachhta Bharat Mission

Aim: Swachhata Hi Seva (SHS)

Venue: Within 1 Km of University radius (Cleaning Drive)

Participants: B.Sc Biological Science & PGDYA Students

Teacher's Involved: All Departmental Faculties (Dr. L S Rath, Dr. V. Sharma, Dr. R K Sharma, Dr. N. Sharma, Dr. S. Dhynia & Dr. D N Gupta)

Department: Allied and Applied Science

Date: 2nd October 2023

Timing: 10.00 am - 11.00 pm

सार्वभौमिक स्वच्छता प्राप्त करने के लिए किए जा रहे प्रयासों में तेजी लाने के लिए और स्वच्छता पर ध्यान केंद्रित करने हेतु भारत के प्रधान मंत्री ने 2 अक्टूबर 2014 को स्वच्छ भारत मिशन का आरंभ किया था। स्वच्छ भारत मिशन (ग्रामीण) का उद्देश्य दिनांक 02 अक्टूबर, 2019 तक स्वच्छ एवं खुले में शौच मुक्त (ओडीएफ) भारत की प्राप्ति करना। स्वच्छता, साफ-सफाई तथा खुले में शौच के उन्मूलन को बढ़ावा देकर ग्रामीण क्षेत्रों में जीवन की सामान्य गुणवत्ता में सुधार लाना है।

Swachh Bharat Mission, Swachh Bharat Abhiyan, or Clean India Mission is a country-wide campaign initiated by the Government of India in 2nd October, 2014 to eliminate open defecation and improve solid waste management and to create Open Defecation Free (ODF) villages.

Picks of work done



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National Science Day, 2024

The National Science Day was observed in the university on 28 February 2024. It was started by chanting of Gayatri Mantra and lighting the lamp by the chief guest and other dignitaries. The Chief Guest of the event was Professor Pravinder Kumar Ji of the Department of Biosciences & Bioengineering of IIT-Roorkee. The theme of the event was “Indigenous technology for Vikshit Bharat”. It was attended by Professor Praveen Punia Ji, Registrar; Professor V K Katiyar Ji, Dean-Academic; Professor Manoj K Patariya Ji, Dean-Research; Dr Laxmi Shankar Rath Ji, HOD of the Department of Allied & Applied Science; Swami Paramarthadev Ji, Swami Arshdev Ji, Dr Vinaya Kumar Sharma Ji, Dr Nivedita Ji, Dr Romesh Ji, Dr Shilpa Ji, Dr Deenanath Ji and Pragma Ji.

Many students participated in the celebration. Professor Pravindra Ji gave a very informative talk on effects of plasticizers on health.

In the poster competition held Ms Vibha Sharma, a second year BSc Biological Science got first prize. Ms Nandini a first year BNYS student got second prize. Ms Sivangi a PGDYA student and Ms Ishika a BNYS student jointly got consolation prizes.

In Science Model Building competition Ms Nandini Arora a BNYS student got first prize. The second prize was distributed between Mr Dheeraj, Shreya and Yogita of BSc Biological Science. Ms Suceta, Ms Akansha, and Ms Henu got consolation prize along with Mr Vashudev & team of BA Yoga Science. These students got prizes from the chief guest of the event.

Finally the celebration was ended with mantra path.



Laxmi
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