



# Dolphin Insight

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## 18<sup>th</sup> Annual Fest-2020: celebrated in the Institute with full gaiety

- Celebration of Annual week – “Srijan” followed with Annual Day – “Udaan”
- Students won loads of prizes for their excellent performances in curricular and extra-curricular activities



Guests, Chairman, Officials and students during the program

18<sup>th</sup> Annual Fest was celebrated by students, faculty, staff and guests with great enthusiasm. Students were awarded trophies, cash prizes and certificates for their excellent performances in academics, cultural and sports activities during the current academic session. Certificates were also presented to 30 lady trainees on successful completion of vocational training courses conducted under the aegis of Dolphin Educational Society at Maa Balasundari Devi Training Centre.

Annual Day – “Udaan” was inaugurated with the lighting the ceremonial lamp before Goddess Saraswati by the Chief Guest Col. P. C. Naithani and Shri Arvind Gupta, Chairman of the institute along with other dignitaries. The programme commenced with Ganesh Vandana, welcome song and national anthem. Dr. Shailja Pant, Principal Dolphin Institute presented Annual Report highlighting the achievements and

progress of the institute. Other dignitaries present on this occasion were Dr. Sumit Vohra, MD of Vohra Nursing Home, Smt. Meenakshi Naithani, Shri Pramod Kalani, President Drug Manufacturing Association (DMA), Smt. Rekha Kalani, Dr. Shailja Pant, Principal, Dr. Arun Kumar, Director, Dean Student Welfare Shri Vipul Garg, Additional Director Shri V.K. Nagpal, Joint Director Shri Sunil Kaul, Sports Officer Shri N.K. Joshi, Administrative Officer Shri Sudhir Bharti, other faculty members and staff and their families, besides other honorable guests for the occasion.

A bonanza of cultural program followed. Some of the major attraction of the programme were group and solo performances by students including Classical Dance, Manipuri traditional dance, Kashmiri Dance, Western Solo Dance, Solo Song & Western group dance and finally the all time favorite fashion



Folk dance performance from Uttarakhand

show based on theme traditional dresses this year.

Some of the important competitions organised were essay writing on – “Seventy Years of Indian Constitution”, collage on “Journey of Dolphin Institute since beginning”, Poster presentation “Science has given power to the Master

of the Universe”, Painting, Cartoon, Group Discussion, Quiz, Rangoli, Mehendi, English Debate on “The Development of Artificial Intelligence is Biggest Threat to Human Existence”, Hindi Debate on – “गुणवत्तापूर्ण शिक्षा केवल सम्पन्न लोगों का विशेषाधिकार है”, Paper Art, Face Painting, Salad making,

Poetry, Beat Boxing, Duet Song, Interdepartmental Antakshari, Flower pot arrangement, War of Instruments, Solo Song, Mime Acting, Solo Dance (Indian Classical), Solo Dance (Western), Group Dance (Western), Nukkad Natak, Nazam-e- Quawaali, Skit and Drama, theme based Dances, etc.

## Felicitation of faculty, students and staff during Udaan

Dr. Deepak Kumar, department of Pharmaceutical Chemistry was felicitated as 'Star Faculty' of the year and was awarded cash prize of Rs. 21,000/- along with a certificate. Shri Dheeraj of Forestry Department and Ms. Anu of Principal Office were jointly declared as 'Star Staff' of the year. They were awarded cash prize of Rs. 5,000/- each and a certificate. Following faculty were also felicitated: Dr. Manisha Nanda, Department of Biotechnology for maximum number of publications, Ms. Deepti Gulati, Department of Biotechnology for quality study material, Dr. Shalini Singh, Department of Biotechnology for Best ERP Work, Er. Priyanka Nautiyal, Department of Physics for maximum attendance, while Dr. Deeptee Warikoo, Department of Physiotherapy was awarded for enhancing quality in cultural activities.



Felicitation of Star Staff of the year



Felicitating Dr. Deepak Kumar, Star Faculty of the year



Felicitation of Dr. Deeptee Warikoo, Dr. Shalini Singh, Dr. Deepti Gulati & Dr. Manisha Nanda

The College students participated in North Zone team events organized by the University between 6th to 8th march 2020. Shaurya was felicitated for Volleyball (Boys category), Karan

Ram and Abhay Singh in Kabaddi (Boys category), while Sakshi Bhatt, Hemlata and Nikita (Girls category) were awarded for Kabaddi and were presented cash prize of Rs. 5,000/- each as a token of appreciation. Abhinav Panwar, M. Com was given a

cash prize of Rs. 21,000/- as a token of appreciation for his participation in National Volleyball team for the year 2019-20.

Our Alumni who achieved success in their respective fields were also felicitated in the programme, namely Kuldeep Giri, Amandeep Singh, Inderpal Mutneja, Mohit Kumar, Dushyant Kumar, Muzaffar Ahmad Mir & Showkat Hussain Sheikh were honored specially.

## Mayank Pandey Best Boy and Hemlata Best Girl of the Year



Felicitation of best Boy & Girl

One of the most exciting moment of the annual day celebration is always the announcement of "Best Boy" and "Best Girl" of the year. The criteria's for choosing best boy and best girl are achievements in academics, attendance, discipline, cultural and co-curricular activities, sports and participation in social activities. This year Mayank Pandey of Physiotherapy Department was selected the 'Best Boy', while Hemlata from Zoology

Department was chosen as the 'Best Girl'. They were presented a trophy, Sony Blue Tooth Music System and merit certificates by the Chief Guest. Dr. Sumit Vohra, MD of Vohra Hospital felicitated best boy and best girl of the year with a cash prize of Rs. 11,000/- each on behalf of his father. He announced that now onwards Vohra Nursing Home will felicitate the best boy and girl every year.



## From Chairman's Desk...

### Preparing for exams in the middle of the pandemic...



Our country has been in virtual nationwide lockdown for students across the board for almost four months now due to onslaught of covid-19, which has been declared as pandemic by World Health Organization, creating a sense of fear and panic all around the globe.

All Schools, Colleges, Universities, etc have been shut till further notice to protect the students from Covid-19 pandemic. With educational institutions closed billions of students are confined to homes and there is hardly a boundary between the bed room and the class room now creating a huge void in their daily life. Though on-line classes, e-learning

platforms, virtual classes on social media have become in things to provide continual teaching learning process to students in comfort and safety of their homes. The College and University students also have to appear for their final exams shortly. It's a crucial time.

Hence, the students need to change their at-home activities so that they can get into the habit of taking online classes or using books and learning apps since preparing for exams from home and home learning is usually not an easy task to do.

At the same time I am concerned that are you feeling stress, fear and anxiety amid the COVID-19 pandemic? If so, you're not alone. The recommendations for social distancing affect nearly every part of our lives, including finances, relationships, transportation, jobs and healthcare. Some common causes of stress during the coronavirus pandemic are uncertainty, lack of routine and reduced social support.

As humans, we don't like uncertainty and tend to thrive in routines, say social scientists. Routines are essential because they create a sense of normalcy and control in our lives. This sense of control then allows us to manage the challenges that come our way.

When we don't have a routine, much of our time is spent trying to establish one. "Without a routine, we often pay attention to the things that are most 'flashy.' When big news happens, we tend to focus on it more."

Stress management is essential for good physical and mental health, and it's especially important right now as our world addresses the COVID-19 pandemic.

While short-term pressures and stress are normal and can help us change in positive ways, chronic stress causes a huge deterioration in our quality of life on a physical level. When we are more pessimistic, depressed or anxious, our immune system goes down and produces more stress hormones, reducing our immunity and increasing inflammation. Stress can also put a strain on your mental health, relationships and productivity.

Many guidelines including frequent hand-washing, social distancing, practicing respiratory etiquette and cleaning commonly used surfaces are in practice.

But I am talking to you about mental health guidelines like create a morning routine. When you're stuck at home, it can be tempting to let go of basic routines, but a morning routine can help you feel more productive and positive. Consider waking up at the same time each day, exercising, showering, meditating, journaling, tidying your home or having a healthy breakfast as part of your morning ritual. Then have a fixed routine for your studies besides the on-line classes etc. At the same time check in with loved ones regularly. While social distancing is essential to slow the spread of the virus, you can still check in with family and friends by phone, video chat, text or email. Meditation can help restore your sense of control as you focus on your breath or a positive word or phrase.

Encourage others. "Often, when we are scared, it can be tempting to repeat negative messages, but actively encouraging family and friends is really important," say human psychologists. "Chances are, someone is having a harder time than you are. Your words matter and people will respond accordingly. It's important to realize we are not victims; we are helping to create our environment and change it for the better. By sending positive messages out into the world, you'll not only affect those around you, but those words will come back to you."

It's important to remember that this will pass sooner or later. The world has gone through many different challenges, like disease outbreaks, war and uncertain times. For better or worse, these times always pass. That doesn't mean this time isn't significantly challenging, but if we focus on what we can control and do things that are good for our health and the health of those around us, we will come out of this in perhaps a more whole state and with a renewed perspective. It's important to look toward the future and begin building for that future. You can always have hope. Hope never leaves us.

With these words of advice I wish you grand success in exams and look forward to welcome you back in the next session very soon. In the mean time "Stay home, Stay Safe".

## Guest of honour Dr. Sumit Vohra shared the tips for success with students

Dr. Sumit Vohra emphasized on following tips for success to the students in their profession, namely to reduce the use of social media, to adopt healthy diet and proper rest and cultivate a habit of daily exercise. He added that if the students will follow the habit of self-study on regular basis then they can achieve their dream goals easily.



Dr. Sumit Vohra sharing tips for success

## Best Players of the year



Felicitation of best players of the year

The interdepartmental sports and games in boys and girls categories included Volleyball, Cricket, Football, Kho-Kho, Athletics, track events, Chess, Table Tennis, Badminton, Tug of war, etc. Forestry department won the sports trophy and Agriculture department was declared runner-up. Every department actively participation in track and field events during the Annual Week.

Abhishek Lopchan of Forestry department and Hemlata of Zoology were adjudged as best players of the year in boys and girls categories.

## Best Athletes of the year



Felicitation of best athletes of the year

Hemlata was again adjudged best athlete (girls) while best athlete boys was awarded to Arambam Shaklemba Singh of Forestry department.

## Department of Forestry winner of the overall 'Champion's trophy - 2020'

There is always a very keen but healthy competition between different departments to win the overall champions trophy to establish their supremacy in co- and extracurricular activities. The winner is chosen on the sum of the marks scored in different

cultural activities, debates, quiz's, posters, collages etc and of course in games and athletics.

This year Forestry department was declared overall champion on the basis of its excellent performance in the inter-departmental cultural and sports activities during the annual



Winner overall Championship trophy - Department of Forestry

week. Though the department of Horticulture scored maximum points in many cultural activities, it was taken over by Forestry department due to their outstanding performance in sports and was therefore adjudged Champion on the basis of their overall performance. Department of

Horticulture scored 32 points in sports activities but was overtaken by Forestry department with 48 points. In spite of their best efforts in number of cultural and sports activities department of Horticulture has to console with runner up trophy. We wish them better luck next year.

## Scholarships to the toppers

Scholarships worth Rs. 1,10,000/- were distributed to the topper students. Total 22 scholarships of Rs. 5,000/- each were given to toppers of respective programmes, of which 12 students of UG and 10 of PG programmes were felicitated.



## Glimpses : Udaan-2020



Welcoming the Chief Guest



Welcoming the Guest of honor



Lamp lighting by the Chief Guest



Principal presenting Annual Report of the College



Felicitating alumni



Alumni Dushyant Kumar performing Mayurasana



Traditional dance performance



A Naga Dance performance



Classical dance performance



Traditional dance performance



Certificate presentation to trainees - Maa Bala Sundari Training Centre



Traditional dance performance



Fashion Show



Horticulture department with runner up trophy



Felicitation of NCC Cadet



Memento Presentation to the Guest of Honor



Memento Presentation to the Chief Guest



## Celebrating Annual Week : Srijan-2020

The College organised its 18th Annual Week 'Srijan-2020' with pomp and show. Interdepartmental annual sports, cultural, curricular and extra-curricular activities were conducted from 24th February to 27th February, 2020.



Appreciating the rangoli

Shri Arvind Gupta Chairman of the institute declared the fest open after inspecting the March-Past in which all the houses of the college along with Scout & Guide Unit and NCC cadets of the College also participated in the



Lamp lighting by the Principal

march past in an orderly manner. In his inaugural the Chairman emphasized that the students have lots of talent and SRIJAN provides a

platform to students to show their talents. He added that education means overall development of an individual and besides study, sports and extracurricular activities play an important role in the holistic development of students. It was followed by some inspiring cultural performances depicting the diversity of our country. Cultural activities started with Ganesh Vandana by Sadhana Sharma, followed by the folk dance performances by Nepali, Uttarakhandi, Sikkim, Tamil, Gujarati, Bengali, Manipuri, Tripura, Punjabi, and Rajsthani dance groups by the students of the institute. Bouquet of coloured balloons was released to symbolize SRIJAN-2020.

Annual Week- SRIJAN is organised under the aegis of Dolphin Students Welfare Committee. The DSWC volunteer students along with faculty and officials coordinated the activities very well and conducted the overall programme for one week.

Following are the results of interdepartmental sports, games, curricular, cultural & extra curricular activities during 'SRIJAN 2020'.



Releasing balloons to symbolize the starting of SRIJAN-2020



Members Sports Committee



Cultural activities



Cultural activities

### Results: Interdepartmental Cultural events...

**Essay Competition-** I- Paras Bhatt- Forestry, II- Suman Rana- Mix, III- Nazira Ashraf Bhatt- Horticulture



Essay Competition

**Cartoon-** I- Shikha- Microbiology, II- Shejal- Physiotherapy, III- Anushka Saha- Agriculture



Cartoon designing

**Painting-** I- Nishu Singh- Physiotherapy, II- Subhash- Microbiology, III- Manashi Thounaojam- Horticulture



Painting activity

**Collage Competition-** I- Anshika & Abhilash- Microbiology, II- Himanshi Bansal & Shradha- Agriculture, III- Kritika & Barsa- Microbiology



College making

**GD-** I- Cherukuri Suresh & Ishwerjot Singh- Horticulture, II- Akshat S. Chauhan & Shejal- Physiotherapy, III- Gaurav Baluni & Shreya Chauhan- Agriculture

**Quiz-** I- Ayush & Nazira- Horticulture, II- Kriti Chhetri & Sparsh- Agriculture, III- Rajesh Bisht & Riya Rathore- Mix



Quiz activity

**Poster Presentation-** I- Aditi & Shalu- Physiotherapy, II- Tabayanam & Ibapynsuk- Horticulture, III- Sharanpreet Kaur & Aranya- Pathology



Poster presentation

**Rangoli Competition-** I- Deepak & Mayank Pandey- Physiotherapy, II- Sina & Dipesh- Pathology, III- (a) Sovan- Forestry & (b) Parkriti Singh & Sakshi Gairola- Horticulture



Rangoli view

**Mehandi Competition-** I- Shabra & Divya- Mix, II- Rashi & Banina- Microbiology, III- (a) Nishu & Nidhi Singh- Physiotherapy & (b) Sudhanshi & Suvarna- Physiotherapy



Mehndi participants

**Debate English-** I- Nazira Ashaf- Horticulture, II- Anjali- Mix, III- Techanshim Konsawa- Horticulture



English Debate

**Debate Hindi-** I- Gaurav Bisht- Mix, II- Akshat Singh Chauhan- Physiotherapy, III- Ayush Singh- Horticulture



Hindi Debate

**Paper Art-** I- Smriti & Deepika- Microbiology, II- Kipa Yana & Charu Mama- Horticulture, III- (a) Shikha & Ashmita- Microbiology, (b) Vaishnavi & Vaishali- Microbiology



Paper Art

**Salad Making-** I- Gebiete & Tanvi Tamut- Horticulture, II- Sushma Kunwar & Anjula Rawat- Agriculture, III- Usha & Simrat- Pathology



Salad making

**Face Painting-** I- Taba Yanam & TseringYangchin- Horticulture, II- Himadri & Amir Soheli- Agriculture, III- Ketan & Ashwini Tomar- Mix



Face Painting

**Poetry-** I- (a) Mritunjay- Pathology & (b) Shreya- Agriculture, Akshat Singh Chauhan- Physiotherapy, III- Manami- Biotechnology



Poetry participant

**Beat Boxing-** I- Sovan- Forestry, II- Tarh Abotang- Horticulture, III- Telen Adwin Kom- Agriculture

**Antakshari-** I- Anurag & Sahil Sharma, II- Pawan & Siraj- Microbiology, III- Poonam & Suman- Biotechnology



Antakshari competition

**Flower Pot Arrangement-** I- Reshmi & Nikki- Horticulture, II- Bablu Kumar & Sachitanand- Pathology, III- (a) Bullo Rimi & Niuli Yephtha- Forestry & (b) Riya & Nikita- Microbiology



Cut Flower arrangements being judged





**War of Instruments- I-** Rildom- Microbiology, II- Ashwin- Forestry, III- Shanu- Physiotherapy



War of instruments

**Solo Song Competition-** I- Anchal Sharma- Microbiology, II- Osheen- Microbiology, III- Kejang- Agriculture



Solo Song presentation

**Duet Song Competition-** I- Dorjee Drema & Kechanguly Zumvu- Agriculture, II- Rup Manlin & Tilling Tubing- Horticulture, III- Osheen & Anchal- Microbiology

**Mime Acting-** I- Anandhu & Group- Forestry, II- Soncy Hankar & Group- Horticulture, III- (a) Tushar & Group- Mix & (b) Mamta & Group- Biotechnology



Mime competition

**Dance Competition Solo (Western)- I-** Akash- Physiotherapy, II- (a) Rahit Khersa- Forestry & (b) Aditya- Microbiology, III- Alice Verma- Pathology

**Dance Competition Group (Western)- I-** Aditya & Group- Microbiology, II- Yani & Group- Forestry, III- Suman & Group- Biotechnology

**Nukkad Natak-** I- Nared & Group- Pathology, II- Ranjana & Group- Horticulture, III- Gaurav & Group- Agriculture

**Dance Competition Solo (Classical)- I-** (a) Urvashi- Mix & (b) Sreejita- Microbiology, II- (a) Gayetri- Agriculture & (b) Sadhana- Forestry, III- (a) Nandhayan- Forestry & (b) Soumya- Physiotherapy



Solo Classical Dance

**Nazam E- Quawaali- I-** Vibha Dixit & Group- Physiotherapy, II- Swapnil & Group- Biotechnology, III- Toko & Group- Forestry



Quawali competition

**Skit & Drama-** I- Mrityunjay & group- Pathology



Skit & Drama performance

**Dance Competition (DSWC Theme) - I-** Raudra Ras- Forestry, II- Bhayanak Ras- Physiotherapy, III- Shringar Ras- Agriculture



Theme based dance performance

**Dance Competition Indian (Departmental Choice) - I-** Ria & Group- Forestry, II- Neyang & Group- Horticulture, III- Sushma & Group- Agriculture



Traditional Dance performance

**Results: Interdepartmental Sports Activities- 1**

**Basket Ball Boys-** Winner- Akash Rai & team, Department of Forestry, Runner Up- Vanlalitluanga & team, Department of Horticulture



Basket Ball Match-Boys

**Basket Ball Girls- Winner-** Aitidoris Marshra & team, Department of Forestry, Runner Up- Harshita Panwar & team, Department of Agriculture



Basket Ball Match-Girls

**Cricket Boys-** Winner- Amitabh & team, Department of Medical Lab Technology, Runner Up- Abhay & team, Department of Agriculture

**Football Boys-** Winner- Leiki Tshering & team, Department of Forestry, Runner Up- Gumte Natung & team, Department of Agriculture

**Kho- Kho Boys- Winner-** Rupendra Mishra & team, Department of Agriculture, Runner Up- Alfred Jemy & team, Department of Forestry



Kho-Kho -Boys

**Kho-Kho Girls- Winner-** Sakshi Gairola & team, Department of Horticulture, Runner Up- Swati Sharma & team, Mix Department



Kho-Kho -Girls

**Volley Ball Boys- Winner-** Abhinav Panwar & team, Mix Department, Runner Up- Vikram Rawat & team, Department of Biotechnology

**Volley Ball Girls- Winner-** Biri Chamu & team, Department of Horticulture, Runner Up- Deepika Rawat & team, Mix Department

**Kabaddi Boys- Winner-** Rahul Kumar & team, Department of Agriculture, Runner Up- Gaurav & team, Mix Department

**Kabaddi Girls- Winner-** Sarita & team, Mix Department, Runner Up- Rinchin Chamu & team, Department of Horticulture

**March Past- Winner-** Tshering W. Bhutia & team, Department of Forestry, Runner Up- Karan Ram & team, Department of Agriculture



March Past

**Tug of War Boys- Winner-** Vezhato Venuh & team, Department of Agriculture, Runner Up- Mohit & team, Department of Microbiology

**Tug of War Girls- Winner-** Saloni & team, Physiotherapy Department, Runner Up- Kamio Pura & team, Department of Forestry

**Results: Interdepartmental Sports & Athletics- 2**

**Badminton Boys (Single)- I-** Kabang Pazing, Department of Forestry, II- Lima Sundep Aier, Mix Department, III- Dhanjit, Department of Physiotherapy



Badminton Match- Boys

**Badminton Girls (Single)- I-** Kamna Oli, Department of Medical Lab Technology, II- Saloni, Department of Physiotherapy, III- Sakshi, Department of Microbiology



Badminton Match-Girls

**Badminton Boys (Doubles)- I-** Abhishek & Kabang Pazing, Department of Forestry, II- Premjit & Kholen, Department of Agriculture, III- Dhanjit Das & Sarthak, Department of Physiotherapy

**Badminton Girls (Doubles)- I-** Nukshilila & Hemlata, Mix Department, II- Techii Nimin & Soncy Hankar, Department of Horticulture, III- Kranti Bisht & Shalu Dhiman, Department of Microbiology

**Table Tennis Boys (Single)- I-** Ayush, Department of Agriculture, II- Anmol, Department of Forestry, III- Geken Riba, Department of Horticulture

**Table Tennis Girls (Single)- I-** Perna, Department of Physiotherapy, II- Babita, Department of Agriculture, III- Udlena Bhutia, Department of Forestry

**Table Tennis Boys (Doubles)- I-** Anmol & Akash, Department of Forestry, II- Phurpa & Gken, Department of Horticulture, III- Ishwar & Pankaj, Department of Biotechnology

**Table Tennis Girls (Doubles)- I-** Perna & Manjio, Department of Physiotherapy, II- Lobsang & Birichanu, Department of Horticulture, III- Babita & Pooja, Department of Agriculture

**Chess Boys-I-** Vishal Kaushal, Department of Horticultur, II- Dewal Rana, Department of

Medical Lab Technology, III- Mukul Kothiyal, Department of Agriculture



Chess Match Boys

**Chess Girls- I-** Prashamsa Aryal, Department of Physiotherapy, II- Shreesha Acharya, Department of Agriculture, III- Aditi Gupta, Department of Biotechnology



Chess Match Girls

**50 Meter Race Girls-I-** Shilpa, Department of Physiotherapy, II- Nukshilila, Mix Department, III- Manisha, Department of Microbiology

**70 Meter Race Boys-I-** Arabam Saklemba Leiki, Department of Forestry, II- Ishwar Singh Bhakuni, Department of Biotechnology, III- Anirbam, Department of Microbiology



Race - Boys

**4×50 Meter Race Girls- I-** RiyaSharma, Nukshilila, Baror & Hemlata, Mix Department, II- Rupda, Nikita, Vernika and Sharmila, Department of Medical Lab Technology, III- Manisha, Priyanka, Kranti and Roma, Department of Microbiology



Race - Girls

**4×80 Meter Race Boys- I-** Arabam Saklemba Leiki, Bam Bahadur and Abhishek Lopchen, Department of Forestry, II- Sajal Sarkar, Karan Ram, Talu Laching and Abhay Singh, Department of Agriculture, III- Paras, Binay, Deval and Abid, Department of Medical Lab Technology

**800 Meter Race Girls- I-** Nikita, Department of Medical Lab Technology, II- Roma, Department of Microbiology, III- Riya Sharma, Mix Department

**1500 Meter Race Boys- I-** Rohit Thakur, Department of Microbiology, II-Abhishek Negi, Department of Physiotherapy, III- Jagmohan Thakur, Department of Horticulture



Marathon in progress

**Discus Throw Girls- I-** Hemlata, Mix Department, II- Yangkeela Bhutia, Department of Forestry, III- Summana, Department of Forestry

**Discus Throw Boys- I-** Dash Rath, Department of Forestry, II- Priyam, Department of Biotechnology, III- Abid, Department of Medical Lab Technology



**Long Jump Boys- I-** Ishwar Singh Bhakuni, Department of Biotechnology, II- Anirbhan, Department of Microbiology, III- Muzamil, Department of Physiotherapy



Long Jump

**Long Jump Girls- I-** Hemlata, Mix Department, II- Shilpa, Department of Physiotherapy, III- Sushma, Department of Agriculture

**Shot Put Boys- I-** Samden, Department of Forestry, II- Abhishek Lopchan, Department of Forestry, III- Deshraj Singh, Department of Biotechnology



Shot put competition

**Shot put Girls- I-** Hemlata, Mix Department, II- Shahnaj, Department of Physiotherapy, III- Summana, Department of Forestry

**Tug of War Boys- I-** Department of Agriculture, II- Department of Microbiology, III- Mix Department

**Tug of War Girls- I-** Department of Physiotherapy, II- Department of Forestry, III- Department of Agriculture

#### Sports Activities: Best Players

**Basket Ball- Best Player (Boys)-** Akash Rai, Department of Forestry, Best Player (Girl)- Yangkeela Bhutia, Department of Forestry

**Kho-Kho-Best Player (Boys)-** Ekha Tamo, Department of Forestry, Best Player (Girl)- Jesek Yanggi

**Volley Ball-Best Player (Boys)-** Abhinav Panwar, Mix Department, Best Player (Girl)- Lobsang Youton, Department of Horticulture

**Kabaddi- Best Player (Boys)-** Abhay Singh, Department of Agriculture, Best Player (Girl)- Hemlata, Mix Department

**Cricket- Best Player (Boys)-** Abid Hasan, Department of Medical Lab Technology, Best Player (Girl)- did not participate

**Football- Best Player (Boys)-** Arambam Shaklemba, Department of Forestry, Best Player (Girl)- did not participate

*Abhishek Lopchan (Boy's category) from Forestry department and Hemlata (Girl's category) from Zoology were declared as best players of the year.*

The award for best athlete (Girl's) was given to Hemlata from Zoology department and best athlete (Boy's) was given to Arambam Shaklemba Singh of Forestry department.

Prizes for I, II & III categories in sports, games, athletics, Cultural, curricular and extra curricular activities were distributed on Annual Day-UDAN-2020. Sports Captain of different houses, Sports executive members along with the DSWC team members were also felicitated for their contributions during the Annual fest and Annual Day by the Hon'ble Chief Guest and other dignitaries on the dais.

## The College's journey towards 2nd cycle of NAAC Accreditation in spite of the Covid-19 Lock-downs

**'Every college in India aspires for a NAAC grade because getting that coveted gold star is the pathway to greater grants, educational status and pull'** says Prof. S.C. Sharma, Director, NAAC.

When the room in your college that has a board proclaiming that it's the 'Internal Quality Assessment Cell' is abuzz with unusually high activity, it probably means that winter is coming or an all important accreditation by the National Assessment and Accreditation Council (NAAC) is nearby. An autonomous body set up by the National Policy on Education and the Programme of Action, NAAC began its journey of giving Indian colleges a rating in 1994.

India has one of the largest and diverse education systems in the world. Privatization, widespread expansion, increased autonomy and introduction of Programmes in new and emerging areas have improved access to higher education. At the same time, it has also led to widespread concern on the quality and relevance of the higher education. Consequently, the National Assessment and Accreditation Council was established in 1994. The mandate of NAAC as reflected in its vision statement is in making 'quality assurance an integral part of the functioning of Higher Education Institutions (HEIs)'. The vision of NAAC is: *To make quality the defining element of higher education in India through a combination of self and external quality evaluation, promotion and sustenance initiatives.*

Our institute is reputed for academic excellence and the choice of the study programs offered. A stimulating academic atmosphere under the

guidance of a young and energetic faculty and the overall vision of amply experienced senior faculty provides a dynamic combination of youth and expert skill. A team of more than 97 highly qualified and dedicated faculty members edify the strength of over 2500 students in the campus. *The emphasis is on developing strong Curricular Aspects and Teaching-Learning Process. The institute also pays full attention on Infrastructure and Learning Resources.*

The college was successfully Accredited by NAAC as B+ institution with CGPA of 2.81 on the scale of 4 in the year 2011 in the 1<sup>st</sup> cycle. Though our journey towards 2<sup>nd</sup> cycle has been delayed due to reasons beyond our control, the College authorities are committed to submit the Self Study Report of the College to NAAC within 2020. We have made substantial progress in this direction by having the IIQA of the college approved by NAAC on 4<sup>th</sup> June 2020 due to truly dedicated efforts by concerned authorities even during lock-downs. We are full heartedly in the process of compiling the academic and related data for preceding 5 years to submit the College's Self Study Report as soon as the normal academic activities of the College are declared open by the Government and the affiliating University. With the support of our faculty, staff and students we hope to achieve still higher grading this time to become one of the 1<sup>st</sup> self financed College in the State to reach this goal.

## DSWC News

### Institute awarded HNBGU Cultural and Academic runner up trophy

Dolphinites participated in HNB Garhwal Central University Inter-Collegiate Cultural and Academic Competition at Srinagar from 7th to 9th March 2020. The team Dolphin won the overall Runner-Up Trophy in cultural events. Our students, namely, Sovan Dakua won first prize in Mimicry, Shina won first prize in Rangoli, Qawwali team ke Sang & Group secured second position, Gaurav Baluni and Group won second prize in Loknritya, Sohani Saha won second prize in Sugam Sangeet, Anandu & Group won second prize in Mime, Nishu won third prize in Painting Competition and Mrityunjay won third prize in poetry competition. Management, faculty and students of

#### Some performances by Dolphinite's



Qawwali



Classical singing



Uttarakhandi Folk Song



Drama

### Dolphinites co-organized 'Sainik Samman Samaroh' at Rajbhawan

Arpit Foundation in association with DSWC organized a felicitation programme at Rajbhawan, Dehradun on 27th February 2020 for the families of martyrs who lost their lives for the country during Pulwama attack. The SDRF team was also felicitated in the programme. Smt. Baby Rani Maurya, Honourable Governor of Uttarakhand and Shri Prem Chand Agarwal, Speaker Uttarakhand Vidhan Sabha felicitated the families.

DSWC members and students of the institute were present in the programme.



Honourable Governor of Uttarakhand felicitating family members of Martyrs

### Young leadership conclave 2020

Shri Vipul Garg, DSW along with students team comprising Ms. Ankita Belwal, Ms Jigyaa Dubey, Gaurav Bisht, Akshat Singh Chauhan and Ms Kanika Panwar, participated in 2 day Uttarakhand Young Leaders Conclave 2020 organized by Department of Higher Education, Government of Uttarakhand on 11<sup>th</sup> & 12<sup>th</sup> January 2020. Chief Minister Shri Trivendra Singh Rawat was the Chief Guest of the programme.



DSWC with Students



DSWC team at the Conclave

Dr. Dhan Singh Rawat, Minister Higher Education and Dr. Chinmay Pandya were also present in the program.

The theme of the conclave was "Sewa Samvad Sankalp for Uttkrishit

Uttarakhand". The delegates had brainstorming sessions on environment, IT, HRD and Infrastructure. 15 NCC Cadets of the Institute along with ANO Lt. Rohit Maithani provided voluntary services on the occasion.



## Faculty Development Programme



Shri Mukul Sharma taking the session

DSWC organized one day FDP on "Rediscovering Positive Attitude for effective Teaching and Learning" for the faculty of the institute on 17th January 2020. Clinical Psychologist and Career Counsellor Dr. Mukul Sharma was the guest speaker. Almost 50 faculty members from various departments participated in the programme.

## De-addiction programme

Shri Vipul Garg, DSW attended a meeting on de-addiction programme organized by Samaj Kalyan Vibhag on 29th January 2020 at Doon University. District Magistrate of Dehradun advised the educational institutions to conduct various programmes for students to make them aware about de-addiction activities.

## Motivational Lecture



Dr. Ajeet Chauhan addressing the gathering

A motivational lecture was organized by DSWC on 24<sup>th</sup> January 2020 in the premises of the institute on 'Technique P3Y' which was very enlightening for confidence building, goal setting, and stress management. The Guest speaker Dr. Ajeet Chauhan, MBBS, MS, DGO is a renowned surgeon from Surat, Gujarat. He has performed more than 12000 surgeries in his profession. He has taken about 3000 classes in over 500 sites. Shri Arvind Gupta, Chairman of the institute felicitated the guest speaker with a memento as a token of appreciation. More than 200 students from various departments of the institute attended the programme.

## Celebrating 156<sup>th</sup> Birthday of Swami Vivekananda



To honour many contributions of Swami Vivekananda to the country, the government of India, in the year 1984, declared his birthday (12th January) as National Youth Day. On this day, the country's youth is expected to rise to the values, principles and beliefs that the great monk lived by.

The theme of International Youth Day 2020, "Youth Engagement for Global Action" seeks to highlight the ways in which the engagement of young people at the local, national and global levels is enriching national and multilateral institutions and processes. The students, faculty and staff paid their tributes to Swami Vivekananda on his 157th Birth anniversary on 12th January 2020 and took oath to follow the path shown by him. The students also undertook cleanliness drive in the nearby areas of the institute. The NSS unit of college organized a debate competition on this day.

## Talk Session: Junk Food Se Jung

DSWC organized a talk session on 'Junk Food se Jung' in association with Dainik Jagran News daily and CIPLA Pharma Company in its premises on 11th February 2020. Students



Subject experts addressing the students



A student asking question

from various departments of the College expressed their views on the topic. Dr. Hans Vaishya, MD Paediatrics and Ms. Ruchi Kukreti, Dietician from Doon Medical College also interacted with students and addressed their queries.

## Participation in National Level Essay Competition

DSWC organised participation of 12 students of the institute in national level essay competition conducted by UGC on 27th January 2020. The programme was held under one year

long celebrations of 70th Anniversary of Indian Constitution to create awareness about our Fundamental Rights and Duties which the constitution of India has guaranteed to us.

## Health/Medical camp for the Handicapped geriatrics

The Institute participated in a health/medical camp on 20<sup>th</sup> January 2020 for handicapped and geriatrics organized by Dr. Joshi Health Care Centre, Bhauwala. Wheel chairs, sticks, spectacles, hearing aids, callipers, and



Felicitation of Divyang Jan



Felicitation of Divyang Jan

tricycles were distributed by the centre after free check up of the patients. Our College provided free medicines, Physiotherapy consultation services and pathology tests to the patients. Shri Arvind Gupta, Chairman, interacted with the patients and assured them of further assistance for their welfare.

## Free Medical consultations and medicines

A free medical camp was organized by Asahaya Jankalyan Sewa Samiti, Dehradun at Doon Global School, Selaqui on 19 January 2020. Our College sponsored free consultation from qualified doctors, free medicines and



Dr. R.K. Srivastava, Sr. M.O. providing consultation

pathology tests for approximately 250 patients.



Medicine distribution



Sample collection

## Neta Ji Subhash Chandra Bose Jayanti

Dolphin Students welfare committee along with faculty, staff and Students of the institute celebrated the 123rd birthday of Neta Ji Subhash Chandra Bose on 23rd January 2020. A programme was organized to pay homage to the great freedom fighter and to recollect the contributions of Neta Ji in Indian freedom struggle. Dr. Arun Kumar, Director of the Institute paid warm tributes to Neta Ji and told that Shri Subhash Chandra Bose is one of the most renowned freedom fighter of India. He added that Bose had a charismatic influencer on the youth and earned the nickname 'Netaji' on

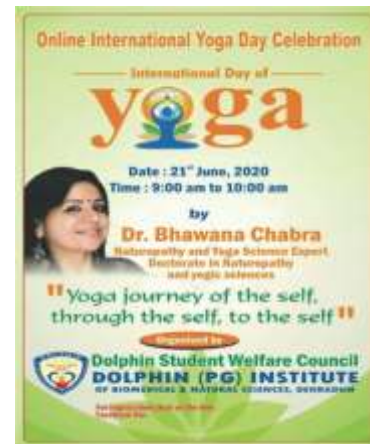


Officials &amp; students paying tribute of Neta Ji

establishing and leading the Indian National Army (INA) against Britishers during India's struggle for independence. Dean DSW Shri Vipul Garg spoke about his sudden disappearance in 1945 which led to surfacing of various theories concerning the possibilities of his survival in a miraculous escape from the air crash.

## International Yoga Day

Dolphin Students' Welfare Council organised an online Yoga session on 21st June 2020 to commemorate the International Yoga Day. The online Yoga session was conducted by Dr. Bhawna Chhabra, Naturopathy and Yoga Science Expert. Dr. Chhabra gave tips to enhance immunity through yoga and many other Yogasans. The programme was streamed live on facebook page of the institute. A total of 4200 viewers attended the programme. Faculty and students of the institute also attended the online Yoga session. Dr. Arun Kumar delivered the vote of thanks to Dr. Bhawna Chhabra and participants



on behalf of institute while Ms. Prerana Bahuguna coordinated the online session.

## Celebrating Vasant Panchami

Vasant Panchami is a festival that marks the beginning of preparations for the king of all seasons, spring. It is celebrated by people in various ways depending on the region. Vasant Panchami also marks the start of preparation for Holi which occurs forty days later.



Students and officials celebrating Vasant Panchami

DSWC organized Vasant Panchami and Worshipped Devi Sarswati in the

## SPIC MACAY rendered memorable performance of Kathak Dance during Srijan

Kathak dance performance was rendered by SPIC Macay in the premises of the institute on 26th February 2020. Renowned Kathak dancer Gauri Diwakar's elegant, graceful moves, striking facial expressions, along with her powerful presence on the stage, left the audiences spellbound.



Gauri Diwakar performing Kathak Dance

A Kathak dancer par excellence, Gauri has been recipient of many prestigious awards. In 2008 she was awarded 'Ustad Bismillah Khan Yuva Puraskar'

institute campus on 30th January 2020. HODs, Faculties and students of various department of the institute also worshipped Goddess Saraswati and took Prasad on the occasion

by the Sangeet Natak Akademi- India's national academy for music, dance and drama. Other awards include Jaydev Pratibha Puraskar" (2015) and Sringar Mani award (2002).

## Field Visits/Educational Tours

1. Students of M. Sc Biochemistry visited Indian Institute of Petroleum, CSIR Lab on 3rd February 2020. Students were exposed to analytical and Biotechnology laboratories and learnt about GC Mass Spectroscopy, FTIR and Fermentation.



Faculty &amp; Students at IIP, CSIR Lab

2. B.Sc. Agriculture 6th Semester students visited Rajeshwari Nursery on 5th March, 2020 along with Dr. Shiva Jauhari.

3. Students of B.Sc. Horticulture VI Semester along with their faculty

member visited Rajeshwari Nursery, Dehradun on 17th Feb. 2020. Students learnt about various



Faculty &amp; Students at Rajeshwari Nursery

ornamental and fruit plants and protected cultivation of flowering plants in polyhouses. They also learnt about nursery management techniques and practices for horticultural plants. The students saw various types of flower pots, germination trays, plug trays, Germination trays etc.

## Holi Milan Samaroh

Management, Faculty and Staff celebrated Holi function in the premises of the institute on 7th March 2020. Every one played colors with each other and exchanged good wishes for a happy and safe Holi. Delicious Sweets and food items were served to all by the management of the institute.





## Editor's Column...

### Online Teaching and Learning: A New Paradigm

The COVID-19 pandemic has changed education forever. It has resulted in schools, Colleges, Universities shut all across the world. Globally, over 1.2 billion school children in 186 countries are out of the classrooms. As a result, education has changed dramatically, with the distinctive rise of e-learning, whereby teaching is undertaken remotely and on digital platforms.

With this sudden shift away from the classroom in many parts of the globe, some are wondering whether the adoption of online learning will continue to persist post-pandemic, and how such a shift would impact the worldwide education market.

Even before COVID-19, there was already high growth and adoption in education technology, with global edtech investments reaching US\$18.66 billion in 2019 and the overall market for online education projected to reach \$350 Billion by 2025. Whether it is language apps, virtual tutoring, video conferencing tools, or online learning software, there has been a significant surge in usage since COVID-19.

In response to significant demand, many online learning platforms are offering free access to their services, including platforms like 'BYJU'S', a Bangalore-based educational technology and online tutoring firm founded in 2011, currently the world's most highly valued edtech company. Since announcing free live classes on its Think and Learn app, BYJU'S has seen a 200% increase in the number of new students using its product.

While some believe that the unplanned and rapid move to online learning – with no training, insufficient bandwidth, and little preparation – will result in a poor user experience that is un conducive to sustained growth, others believe that a new hybrid model of education will emerge, with significant benefits. "I believe that the integration of information technology in education will be further accelerated and that online education will eventually become an integral component of school and College education".

There have already been successful transitions amongst many universities. For example, Zhejiang University managed to get more than 5,000 courses online just in two weeks. The Imperial College London started offering a course on the science of coronavirus, which is now the most enrolled class launched in 2020 on Coursera. University of Cambridge has cancelled all face-to-face lectures for 2020-2021 academic year and announced that all lectures will be held virtually and streamed online until summer 2021.

There are, however, challenges to overcome. Some students without reliable internet access and/or technology struggle to participate in digital learning; this gap is seen across countries and between income brackets within countries. For example, whilst 95% of students in Switzerland, Norway, and Austria have a computer to use for their schoolwork, only 34% in Indonesia do.

For those who do have access to the right technology, there is evidence that learning online can be more effective in a number of ways. Some research shows that on average, students retain 25-60% more material when learning online compared to only 8-10% in a classroom. This is mostly due to the students being able to learn faster online; e-learning requires 40-60% less time to learn than in a traditional classroom setting because students can learn at their own pace, going back and re-reading, skipping, or accelerating through concepts as they choose.

In our country though UGC has been making efforts to strengthened virtual engagement with the students before pandemic by starting online modules for providing quality education to students in colleges/ universities through UGC e-pathshala/ MOOCs courses, they were not so popular till COVID 19 pandemic. As despite so much advancement in technology we still thought that our old school blackboard teaching is the only efficient method. However, pandemic changed our thought process, leading us to teach and conduct lectures using various modes such as Google Class Room, Moodle, and other video-conferencing platforms across entire education hierarchy.

Many are already touting the benefits: Dr Amjad, a Professor at The University of Jordan who has been using Lark to teach his students says, "It has changed the way of teaching. It enables me to reach out to my students more efficiently and effectively through chat groups, video meetings, voting and also document sharing, especially during this pandemic. My students also find it is easier to communicate on Lark. I will stick to Lark even after corona virus; I believe traditional offline learning and e-learning can go hand by hand."

We at Dolphin Institute have also made very dedicated and sincere effort to adapt to on-line teaching and learning process and so far results have been very encouraging both from students and teachers point of view. A good omen indeed!

## 71<sup>th</sup> Republic Day

Dolphinites celebrated 71<sup>th</sup> Republic Day in its premises. Management, staff, faculty and students were present on the occasion. Shri Arvind Gupta, Chairman, hoisted the National Flag. He addressed the gathering and emphasized that we should always remember the sacrifices of our freedom fighters and makers of our constitution. He further said that the constitution of India came in to existence on 26th January 1950 and is the supreme law for our country.



Chairman hoisting National Flag

constitution. Manish Pathak of Physiotherapy department sung a patriotic song, while Gaurav Baluni & Ankita Belwal of Agriculture department expressed their views to respect the day under

the national flag.

Faculty, staff & students paid tribute to the freedom fighters. Overall management of the program was looked after by NCC cadets of the College. Students also presented selected group and solo dances, group songs, etc. All were distributed sweets and refreshments after the programme.



Students being felicitated for their performance



Chairman addressing the gathering

He told that the documents of constitution lays down the framework demarcating fundamental political code, structure, procedures, powers and duties of government institutions and sets out fundamental rights, directive principles, and duties of citizens. Therefore it's imperative on every ones part to defend the

## Workshops/Conferences organised

### Gender Equality, Sensitization and Human Rights

Department of Zoology organised one day National Workshop on 'Gender Equality, Sensitization and Human Rights: An Approach towards making Empowered Nation' on 3rd March 2020. Smt. Vijaya Barthwal, Chairperson, State Commission for Women, Uttarakhand was the Chief Guest and Smt. Kamini Gupta, Member Secretary, State Commission for Women, Uttarakhand was the Guest of Honour for the day. Dr. Madhu Thapliyal, Head, Govt. PG College, Raipur was felicitated by Smt. Vijay Bhartwal and Dr. Shailja Pant with 'Uttarakhand Women Pride Award' for her excellent contribution in academics, biodiversity conservation and societal work.

Participants were sensitized on Gender Equality. Prof. Anjan Chakrabarti, UGC Human Resource Development Centre, Burdwan, W.B. delivered the Key Note Address on 'Gender and Society: A Journey through Time and Space'. In technical session Prof Raj K. Dhar, Department of Humanities and



Guests on dais

Social sciences gave a lecture on 'Gender Equality under Laws and Women Empowerment'. A large number of students attended the Workshop.

## Workshop on "Data analytics using statistical learning with hands-on in MATLAB and Python"

The Physics Department of the College and Research Development and Services Cell, Ramanujan College, Delhi University jointly organized a National Workshop on "Data Analytics using Statistical Learning with Hands-on in KNIME, MATLAB & PYTHON" from 18-20 February 2020. 30 participants from various organisations attended the workshop.

Dr. Nikhil Rajput, Chief resource Person, Dr Vikas Sharma, Dr. Raman Nautiyal and Dr. Saket provided the mix of theory and practical knowledge of MATLAB, PYTHON & KNIME Data analytics tools. The workshop began with lamp lighting ceremony. Dr. S.P.S.Rawat, ADG, ICFRE, Scientist G and Chief Guest while addressing participants stressed on the importance of Artificial Intelligence in present times. He mentioned how its use has made data analysis in any field so easy. However, he also cautioned that our excessive dependence on machinery and technology might take us away from the society.

Following are the details of the workshop achievements in three days:

#### DAY 1: 18<sup>th</sup> Feb 2020:



Principal welcoming Dr. S.P.S. Rawat

Working of MATLAB and KNIME statistical tools were taught by Dr. Nikhil Rajput and each participant performed the given task on their own computer system. The following topics were covered.

1. What are MATLAB and KNIME.
2. Applications of MATLAB and



Guests on dais

KNIME (web applications, web frameworks, GUI based desktop applications, etc.)

3. Data types in MATLAB and KNIME.
4. Exercise over the raw data and analysis using MATLAB and KNIME software packages



Director welcoming Dr. Nikhil Rajput

#### DAY 2: 19<sup>th</sup> Feb 2020:

Second day of the workshop started with talk on Data analysis and its importance by Dr. Raman Nautiyal. Thereafter participants were given hands on training in solving problems at MATLAB; entire session was very interactive and the students were demonstrated various programs related to data analysis. The tutorial session was created for those who were interested in learning this software and they were given an

assignment that comprised set of creative questions for continuous learning process.

#### DAY 3: 20<sup>th</sup> Feb 2020:

Dr. Vikas Sharma delivered the first lecture of day 3 on use of artificial intelligence in material science. Thereafter following topics on PYTHON were covered by Dr. Saket

1. String manipulation.
2. Lists in python with program.
3. Tuples.
4. Dictionaries in python with program.
5. Sets in python.
6. Range, Functions, Variables in python.
7. Modules in python.
8. Introduction to data analytics.
9. Applications of data analytics.

Workshop was concluded with feedback session from the participants. All of them expressed their interest and willingness in attending the next workshop in this series. Certificates were distributed to the participants.

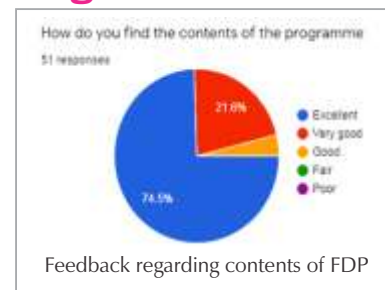


Faculty &amp; Guests with participants

## Faculty development programme on "Normalization of online Teaching and Learning system for New Normal-with hands-on -online class management and co-creating MOOCs"

In order to address the changing paradigm in teaching and learning process in view of the prevailing COVID-19 pandemic and considering the immense benefits and reach of online courses in the present academic set-up, The Physics Department of the College and Research Development and Services Cell, Ramanujan College, Delhi University jointly organized the above two-week long faculty development programme. 50 participants from various colleges, Universities and Research Institutions from number of states attended the FDP with full enthusiasm. Following topics were covered during the FDP:

- Development of deeper understanding of the dynamics of e-content creation and the underlying technology and proficiency.
- Use of open source tools for creation of e-content including generic video creation software's for recording and minor editing, screen capturing.
- Assistance in Online Course Instructional Design & Best Practices.
- Awareness on Open Educational Resources (OER) and MOOCs.
- Design and develop a MOOC course based on the four-quadrant model.



- Preparation of online assignments & quizzes.
- Grading and evaluation.
- Build a platform for transacting the online course and managing it.

Feedback was taken from participants through the Google forms and it was excellent.



## Guest Lectures Organized

### Department of Physics

**3rd February 2020:** A guest lecture was arranged by Dr. Darshana Joshi, Physicist & CEO VIGYANshala International. She is a native of



Principal welcoming Dr. Darshana Joshi

Uttarakhand. She apprised our students with those interdisciplinary science based life skills which help in attaining not just a job but a meaningful career. She explained that for chasing your dreams and to understand your voice explicitly all it takes is close observation. She



Dr. Darshana Joshi performing activity with students

mentioned several experiences and success stories of ordinary yet successful persons and also surmised her journey from an ordinary school to University of Cambridge. It was a well rounded conversation which provided opportunity to student's to learn how to take their career in the right direction. Dr. S. P. S. Rawat, Sr. Scientist, ICFRE who chaired the session also interacted with our students and faculty members on the discourse of interdisciplinary scientific approach.

### Departments of Chemistry and Pharmaceutical Chemistry



Felicitating Guest speaker

**29th January 2020:** A guest lecture was delivered by Dr. Om Prakash, Prof. Department of Chemistry, G.B.Pantnagar University, Pantnagar on 'Mass Spectrometry Basic Principle, Instrumentation and Applications'. The lecture was very informative covering all aspects of mass spectroscopy, a fundamental



Students with guest speaker and faculty

tool used for wide variety of applications in almost all streams of science. Basic and advance instrumentation techniques were also discussed in depth. Students from the departments of Chemistry, Pharmaceutical Chemistry, Biochemistry, Biotechnology, Microbiology and Zoology attended the lecture.



A scene of guest lecture

### Department of Pathology

Dr. Manish Raturi, MD (Immunohematology & Blood Transfusion), Head of Transfusion Medicine, Himalayan

Institute of Medical Sciences delivered a guest lecture on "Harvesting and Trans-fusing of Hematopoietic Stem



Felicitation of Guest speaker

Cells in Cancer Therapy" organized by Pathology department on 21st January 2020.



A scene of guest lecture

## Guest Lectures Delivered

### Department of Forestry

1. Prof. Sas. Biswas, Department of Forestry delivered Inaugural presentation on "Changing Environment & World of Wildlife under Lockdown (COVID-19)" in the online Lecture Series organized by School of Agriculture Planning, Gargia University, Greater NOIDA on 16<sup>th</sup> May 2020.

2. Prof. Sas. Biswas, Department of Forestry made an online presentation on "Ecosystem Services" in 6th International Conference organised by Swami Lakshman Das Avdoot spiritual organization, Rishikesh/Delhi on 26<sup>th</sup>-27<sup>th</sup> May 2020.

3. Prof. Sas. Biswas Department of Forestry made a presentation on "Impact of Covid-19 on Rural Livelihood Opportunities for sustainable development in context to Reverse Migration" in a Webinar organised by the University School of Environment Management, Guru Gobind Singh Indraprastha University, New Delhi on 27<sup>th</sup> May 2020.

4. Prof. Sas. Biswas, Department of Forestry, delivered online lecture on 5<sup>th</sup> June on "Plants in Relation to Environment" in a Webinar organized by Dev Bhoomi Group of Institutions, Dehradun on the occasion of World Environment Day-2020.

### Department of Pharmachemistry



Dr. Versha Percha & others releasing lecture series booklet

1. Dr. Versha Parcha, HOD Pharmachemistry Dept delivered lectures from 2<sup>nd</sup> to 6<sup>th</sup> March 2020 on 'Principles of Drug Discovery' under Lecture Series at Faculty of Pharmaceutical Sciences –Uttarakhand Technical University.

2. Dr. Versha Parcha delivered a talk on 07<sup>th</sup> March, 2020 on 'Natural Sources as Potential Leads for Diabetes' in National Conference and the Award Ceremony on "Towards New Horizons in Multidisciplinary Research & Development" organized by Genson of Educational Impressions, Roorkee.

### Department of Agriculture

1. Dr. P.K. Mishra, Associate Professor Department of Agriculture delivered an invited lecture on 'Seed Production Technology' to MANAGE students on 5<sup>th</sup> January 2020 at Krishi Van Kendra, Dehradun, Uttarakhand.

2. Dr. M. K. Bansala, Assistant Professor Department of Agriculture delivered an invited lecture on 'Poultry Management' for RAW students on 23<sup>rd</sup> January 2020 at TaqGene Training and Research Institute, Dehradun.

### Department of Physics

1. Dr. Asheesh Raturi, Head, Dept. of Physics delivered a talk on 'Lockdown: Human Isolation for Nature and Environment Conservation' at Inter-national Webinar on Climate Change in COVID-19, organised by H.N.B. Garhwal Central University, Srinagar, Uttarakhand on 2<sup>nd</sup> & 3<sup>rd</sup> May 2020.

### Department of Zoology

1. Dr. Deepali Rana presented a paper in the International Webinar on Covid – 19: A Global Issue. R.R.P.G. College, Amethi, U.P. 23rd & 24th May, 2020

## NPTEL & agMOOCs Online Courses completed

### Students and faculty who have successfully completed NPTEL online courses between January and April 2020

1. Dr. Pankaj Kumar, Faculty of Microbiology has completed online course which was certified for Applied Environmental Microbiology from IIT ROORKEE
2. Dr. Shalini Anand, Faculty of Zoology has completed online course which was certified for Biochemistry from IIT KHARAGPUR
3. Dr. Vikaspal Singh, Faculty of Forestry has completed online course which was certified for Forests and their management from IIT KANPUR
4. Dr. Sandhya Goswami, Faculty of Forestry has completed online course which was certified for Forests and their management from IIT KANPUR
5. Dr. Beena Joshi Bhatt, Faculty of Zoology has completed online course which was certified for Biochemistry from IIT KHARAGPUR
6. Kusagra Raunak, Student of Agriculture has completed online course which was certified for Bioenergetics of Life Processes from IIT KANPUR
7. Ms. Mouli Paul, Student of Agriculture has completed online course which was certified for Bioenergetics of Life Processes from IIT KANPUR
8. Dr. Deepali Rana faculty of Zoology completed on-line course on Solid and Hazardous Waste management which was certified by Central University of Punjab, Bhatinda.

### Students and faculty members who have successfully completed agMOOCS online courses between January and June 2020

1. Kushagra Raunak, Student B.Sc. (Ag) Sem.II has successfully completed agMOOCS online courses of Six weeks on February 13, 2020. He completed the course with distinction for Life Skills for Engineers (Level 1)
2. Kushagra Raunak, Student B.Sc. (Ag) Sem.II has successfully completed agMOOCS online courses of Six weeks on April 13, 2020. He completed the course with distinction for Life Skills for Engineers (Level 2)
3. Kushagra Raunak, Student B.Sc. (Ag) Sem.II has successfully completed agMOOCS online courses of Six weeks on March 31, 2020. He completed the course with distinction for Diagnosis of Crop and Stored Grain Pests and their Management.
4. Kushagra Raunak, Student B.Sc. (Ag) Sem.II has successfully completed agMOOCS online courses of Six weeks on March 31, 2020. He completed the course with distinction for Conservation Agriculture-based Sustainable Intensification.
5. Pratik Ghimire, Student B.Sc. (Ag) Sem.II has successfully completed agMOOCS online courses of Six weeks on March 31, 2020. He completed the course with distinction for Conservation Agriculture-based Sustainable Intensification
6. Pratik Ghimire, Student B.Sc. (Ag) Sem.II has successfully completed agMOOCS online courses of Six weeks on March 31, 2020. He completed the course with distinction for Diagnosis of Crop and Stored grain Pests and their Management.
7. Mantu Ram Chaudhary, Student B.Sc. (Ag) Sem.VI has successfully completed agMOOCS online courses of Six weeks on March 31, 2020. He completed the course successfully for Conservation Agriculture-based Sustainable.
8. Pradeep Saud, Student B.Sc. (Ag) Sem.VI has successfully completed agMOOCS online courses of Six weeks on March 31, 2020. He completed the course successfully for Diagnosis of Crop and Stored grain Pests and their Management.
9. Sparsh Tiwari, Student B.Sc. (Ag) Sem.VI has successfully completed agMOOCS online courses of Six weeks on March 31, 2020. He completed the course with distinction for Conservation Agriculture-based Sustainable Intensification (CASI)
10. Sparsh Tiwari, Student B.Sc. (Ag) Sem.VI has successfully completed agMOOCS online courses of Six weeks on March 31, 2020. He completed the course with distinction for Diagnosis of Crop and Stored grain Pests and their Management.
11. Dr. Manoj K. Bansala successfully completed agMOOCS six-week online course on Conservation Agriculture-based Sustainable Intensification on 31st March 2020.
12. Dr. Manoj K. Bansala successfully completed agMOOCS six-week online course on Employment Generation among Rural Youth through Agripreneurship on 14th June 2020.
13. Dr. Manoj K. Bansala successfully completed agMOOCS eight-week online course on Fundamentals of Agricultural Extension on 30th June 2020.

## NPTEL Local Chapter Outreach programme

Under the outreach programme of Physics Department of the College, a one day workshop was facilitated at MPG College, Mussoorie on 4th March 2020. The faculty from the department and NPTEL local chapter addressed UG students to update them with the rapidly changing

dynamics and need to upgrade themselves accordingly. Students were emphasized on the need to make themselves versatile and well equipped with the knowhow as per the current demand. They were made to understand that in present time it's a level play field for every student

regardless of any barriers, what a student sitting in IIT is getting from a highly qualified faculty can also be availed by the students at their respective locations. All it takes is the enrolment via online mode with SWAYAM-NPTEL. Dr.Raturi talked in length about NPTEL Local chapter

along with all the courses which DIBNS offer. The entire team was thankful to Dr. Ganga Ram, Head, Department of Physics, and other faculty members of MPG College, Mussoorie for providing this opportunity of interaction with their students.



## Indian Nobel laureates 1989 Nobel Peace Prize

**The XIV<sup>th</sup> Dalai Lama (Tenzin Gyatso)**  
His Holiness the XIV<sup>th</sup> Dalai Lama, Tenzin Gyatso, is the spiritual and temporal leader of the Tibetan people. Dalai Lama means Ocean of Wisdom.

### Background

**Born:** 6 July 1935, Taktser, Tibet (now People's Republic of China). Residence at the time of the award: India. A Buddhist Advocate for Peace and Freedom, from his exile in India, the religious and political leader the Dalai Lama has since 1959 stood at the head of the nonviolent opposition to China's occupation of Tibet.

**Prize motivation:** "his Buddhist



Dalai Lama (Tenzin Gyatso)

peace philosophy on reverence for all living things and the idea of a universal responsibility that embraces both man and nature". It weighed heavily in the

Tibetan leader's favor that he had showed willingness to compromise and seeks reconciliation despite brutal violations.

**Work:** The award of the Peace Prize gave the Dalai Lama the opportunity to present a plan for the restoration of peace and human rights in Tibet. In the plan he recommended that the country be turned into an ecologically stable and demilitarized zone that might serve as a buffer between major Asian powers. The object was to set in motion serious negotiations on the future status of Tibet, but this was rejected by the Chinese government.

## Achievements by faculty

1. Dr. Aasheesh Raturi, Head Department of Physics was awarded 1st prize in the state level digital science poem competition organised on World Biodiversity Day 2020 by Uttarakhand State Council for Science & Technology (UCOST) on 22nd May 2020. The title of his poem was "Anant aivam Suksham ka Yudh".



2. Prof. Versha Parcha, Prof. & Head, Departments of Chemistry & Pharmaceutical Chemistry was conferred with award for 'Excellence in Research and Innovation' on March 07, 2020 during National Conference on "Towards New Horizons in Multidisciplinary Research &

Development" organized by Genson of Educational Impressions, Roorkee.

4. Ms. Deepti Gulati, Associate Professor, Department of Biotechnology received Certificate of Excellence in reviewing by *Journal of Advances in Microbiology*.

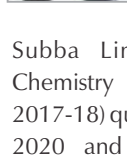
5. Shri Shivsharan Singh, Asst. Prof. Dept. of Biochemistry, received 'Young Scientist' award in research by Social Talks conference organised by Fox Asia Health Education & IPR, New Delhi on 1st February 2020.

6. Shri Vipul Garg awarded appreciation certificate for conducting ELearning programme through IIRS ISRO Outreach programme as a coordinator of Network Institute and promoting Geospatial Technology and its Applications in the Institute.

## Achievements by students



1. Ms. Komal, M. Sc. Botany (2017-2019) batch qualified CSIR NET JRF held in December 2020.



2. Parbat Subba Limbu, M.Sc. Chemistry (Passed out-2017-18) qualified Gate-2020 and JRF (NET)-CSIR-2019.



## Research projects sanctioned

An amount of Rupees Five lac (Rs 500,000.00) has been sanctioned by Uttarakhand Science Education & Research Centre (USERC) to Prof. Versha Parcha, P.I. and Dr. Deepak Kumar, Co-P.I., Department of Chemistry & Pharmaceutical Chemistry to investigate the project entitled 'Value addition in Processing and Marketing of Essential Oils extracted from Wild Aromatic Plant Species of Uttarakhand Himalayas - Approach towards Sustainable Development of State'. The duration of the project is three years, i.e., 2019-20 to 2021-22.

## Papers presented by students in workshops

1. Maunaza Mushtaq of M. Sc. Chemistry 4<sup>th</sup> Semester presented a paper: *On evaluation of different brands Of packaged drinking water available In Indian Market*. National Conference and the Award Ceremony on March 07, 2020 on the theme "Towards New Horizons in Multidisciplinary Research & Development". Organized by Genson of Educational Impressions, Roorkee.

2. Medha Sharma of M. Sc. Chemistry 4<sup>th</sup> Semester presented a paper entitled: *Phytochemical screening and antimicrobial potential of fruit extract of Sapindus mukorossi*. National Conference and the Award Ceremony on March 07, 2020 on the theme "Towards New Horizons in Multidisciplinary Research & Development". Organized by Genson of Educational Impressions, Roorkee.

## NCC Activities

● NCC unit Dolphin was asked to be the part of organizing team for 'Uttarakhand Young Leadership Conclave' organized by the department of Higher Education Uttarakhand on 11th and 12th January 2020. Our Cadets efficiently managed various onstage and offstage activities. Hon'ble Chief Minister Shri Trivendra Singh Rawat graced the Conclave as Chief Guest.



NCC Cadets in Young Leadership Conclave

● NCC cadets of our Institute gave a highly disciplined and motivated display of drill and parade in the honor of national flag on the occasion of 71st Republic Day celebrations in the College. The cadets enacted the Legendary Regimental song of Assam



Cadets performing 'Badlu Ram ka Badla'



A NCC group photograph

Rifles' "Tagra Raho: Badluram" with full 'Josh' under the leadership of ANO Lt. Rohit Maithani.

● All 20 cadets of NCC 2nd year in the College appeared in first B certificate examination on 17th February 2020. The moment of joy came in June comes when all cadets passed the exam with flying grades.



Cadets at Jaspal Rana firing range

● First year cadets of (SD / SW) accompanied by ANO Lt Rohit Maithani went to Jaspal Rana Firing Range for their first shooting practices with rifle on 25th and 26th February 2020.

● The College NCC cadets actively contributed in management and coordination of Annual week and Annual day programmes. Cadet ensured proper discipline while events were carried out.

● NCC cadets with Lt Rohit Maithani participated in one day workshop on Cyber Security and Traffic Management at the office of the UK29 BN NCC on 3rd March 2020.

● Our NCC cadets participated in various training programs of government of India i.e., Diksha COVID 19 training for NCC Cadets by Department of Personnel and Training (DOPT) in the month of April 2020.

● During May 2020 our NCC cadets participated in The CADET Diaries – Webinar Series - Comprehensive All-Round Development and Employability Training Program powered by EXPA.

● NCC cadets Participated in quiz on "General awareness and roles and responsibility of cadets during COVID 19" at Gurukul Kangri Vishwavidyalaya Haridwar on 3rd June 2020

● NCC cadets also participated in online International day of yoga programme by Ministry of Ayush, Government of India on 21st June 2020.

## Dolphin Students Welfare Committee felicitated during Udaan



Felicitation of DSW team

- The college has an active "Dolphin Students Welfare Committee" elected by students themselves every academic year. It is headed by the Dean Student's Welfare and other faculty members. Its main objective is to look after the welfare of the students and to promote and coordinate the Human Values and Community Outreach activities through student's participation.
- The DSWC organizes sports and cultural events and competitions and conducts many Human Values Community Outreach activities in collaboration with local NGOs, Gram Panchyats, Police Department and News Daily's in

which contribution given by the students is noteworthy, e.g. providing stationary, books, uniforms, etc to the under privileged school children of adjoining villages and celebrating festivals like Deepawali with the children in orphanage.

- DSWC plays the pivotal role in organizing the Srijan & Udan every year.

The faculty and student members of the DSWC were felicitated by the Chief Guest and the Chairman for their dedicated services for the welfare of students and HVCO activities during the academic session.

## Resource Persons

1. Dr. Arun Kumar, Director of the Institute was nominated as External Subject Expert to conduct interviews for selection of research personnel at the Wildlife Institute of India, Dehra Dun from 9-12<sup>th</sup> June 2019.
2. Dr. Sanjay Kumar Agarwal, Head Department of Statistics acted as Coordinator for Rural Technology and Science popularization session in 14<sup>th</sup> Uttarakhand State Science Congress organised by UCOST (27<sup>th</sup> to 29<sup>th</sup> February 2020).
3. Dr. Sanjay Kumar Agarwal, Head Department in Statistics acted as Panellist of the Brain Storming session on 'Challenges in Mathematics Education in 14<sup>th</sup> Uttarakhand State Science Congress organised by UCOST (27<sup>th</sup> to 29<sup>th</sup> February 2020).
4. Dr. Sanjay Kumar Agarwal, Head Department of Statistics acted as External expert to BoS, Dept. of Mathematics, Devsanskriti University, Haridwar and held on 17th January 2020.
5. Ms. Deepti Gulati, Assistant Professor, Department of

Biotechnology acted as Reviewer for research articles published in *South Asian Journal of Research in Microbiology* and *International Journal of Pharma and Biosciences*.

6. Ms. Deepti Gulati, Associate Professor, Department of Biotechnology acted as Member Editorial Board of *AS Biotechnology Journal*.
7. Dr. Kanika Issar, Assistant Professor, Department of Horticulture acted as Reviewer for research article published in *Asian Food Science Journal* (2020).
8. Dr. Aasheesh Raturi, Head Department of Physics was invited by Karnataka Central University for teaching language, culture and heritage of Uttarakhand to their students under the aegis of "Ek Bharat Shreshtha Bharat" mission of Ministry of Human Resources, Government of India. The Uttarakhand Language Learning programme was organized under the paired collaboration by Karnataka Central University and HNB Garhwal Central University.

## NSS Activities



Faculty & students at Asan Wetland

### Safai Abhiyan

NSS Unit of Dolphin (PG) Institute, Dehradun conducted 'Safai Abhiyan' on 7th February 2020 at Asan Wetland on the occasion of World Wetland's Day. The programme was organised by department of Zoology. Ms. Perna Bahuguna, Program officer NSS Unit gave insight into the need for cleanliness of the wetland. The students actively took part in "Swachhta Hi Sewa" programme, a cleanliness drive around the wetland. The students also enjoyed bird watching.

### National AIDS Day

NSS Unit of the institute organised an Essay competition on 'AIDS- Myth &

Truth' under the aegis of Red Ribbon Club to celebrate the National AIDS Day on 19.02.2020. Mumung Tayeng of M. Sc. Forestry secured 1st position, Smriti Bhardwaj of M. Sc. Microbiology secured 2nd position and Aijaj Ahmad of B. Sc. MLT secured 3rd position. Winners were awarded cash prize of INR 351, 251 and 151 respectively. The programme was sponsored by N.S.S.HNBGU, Srinagar (Garhwal).

### National Youth Day

NSS Unit of the institute organised a debate competition on the topic "Are youth being influenced by media/social media?" under Red Ribbon Club activity. The programme was conducted on 12th January 2020 to celebrate the National Youth Day. Ayush Singh of B. Sc. Horticulture secured 1st position, Paras Bahatt of B. Sc. Forestry secured 2nd position and Mauli Paul of B. Sc. Agriculture-II year secured 3rd position. Winners were given cash prize of INR 351, 251 and 151 respectively. The programme was sponsored by N.S.S., HNBGU, Srinagar (Garhwal).



## T & P Cell Activities Campus Interview

T & P Cell of the institute arranged a campus interview by Cynet Health (A US MNC) on 5th February 2020. Altogether 82 students applied of which 37 students were shortlisted for 2nd round. After 2nd round 18 were shortlisted for 3rd round comprising interview by MNC on the same day.



Campus interview by experts from Cynet Health

Finally 8 students were selected after completion of all formalities by 7th

February 2020. The list of selected students is mentioned below.

S. No.	Student	Programme
1	Mehvish Mustaq Bandy	B. Sc. Horticulture- Final Year
2	Uzma Gulzar	B. Sc. Horticulture- Final Year
3	Desmaidi Kemprai	M. Sc. Microbiology- Final Year
4	Bullo Rimi	B. Sc. Forestry- Final Year
5	Mamum Tayeng	M. Sc. Forestry- Final Year
6	HT Ruza	B. Sc. Agriculture- Final Year
7	Palash Sharma	M. Sc. Forestry- 2019 Batch
8	Suhail Shameen Malik	M. Sc. Biotechnology- 2019 Batch

### Pool Campus Drive

A Pool Campus Drive was held at our Institute, by Nectar Life Sciences Ltd. Derabassi (Punjab) on 13th March 2020. The following students were selected from Dolphin (PG) Institute:



Campus interview by Nectarlife Sciences Ltd.

1. Dilip Kumar Jaiswal- M. Sc. Pharmaceutical Chemistry- Final Year- QC department.
2. Rajat Kumar- M Sc Chemistry- Final Year- Production department.
3. Pawan Kumar- M Sc Microbiology- Final Year- QC. Micro department.
4. Jit Ghosh- M. Sc. Microbiology- Final Year- QA department.

03 students were selected from Swami Ram Himalayan University, Dehradun, 02 from Prithvi Raj College Haridwar, 01 from Uttaranchal University, Dehradun, 01 from SGRR ITS Dehradun & 01 from DBIT Dehradun.

### Off Campus Selections

The College T & P Cell arranged off campus interview for:

1. Nectar Life Sciences Ltd., Derabassi (Punjab) on 3rd January 2020. Imtiyaz Ahmad Ahanger of M. Sc. Biotechnology- 2019 batch, Ab. Majeed Ganie of M. Sc. Biochemistry- 2018 batch, and Israr Ahmad Mir of M. Sc. Biochemistry- 2018 batch were selected for Q.C. department.
2. Themis Medicare Ltd., Haridwar on 16th January 2020. Govind Kumar Sao

of M. Sc. Pharmaceutical Chemistry- Final Year was selected for Q.C department and Nileah Bahadur Singh of M. Sc. Micro-biology- Final Year was selected for Q.A. department. Both joined the company on 20th Jan. 2020.

3. Themis Medicare Ltd., Haridwar on 28th Jan. 2020. Ajay Kumar of M. Sc. Pharmaceutical Chemistry- Final Year was selected for Q.C. department. He joined the company on 3rd Feb. 2020.

### Faculty Development Programme

Training and Placement Cell of the institute organized a workshop under Faculty Development Program (FDP) with TIMES Group on 15th February 2020. The key highlights of the 1st session were - Teaching & Learning, Serving students, Teaching

effectiveness, content knowledge. The second session included activity based learning as bonding, peer learning, rejuvenating, Soft skills and experience sharing. 50 faculty members of the institute attended the programme.

### Faculty Development Programme

Faculty Development Program (FDP) of 15 days duration was undertaken from 13th to 27th January 2020 in association with the National Institute for Entrepreneurship & Small Business Development (NIESBUD), Govt. of India. The programme was sponsored by The National Science & Technology Entrepreneurship Development Board, Govt. of India.



A Scene of FDP



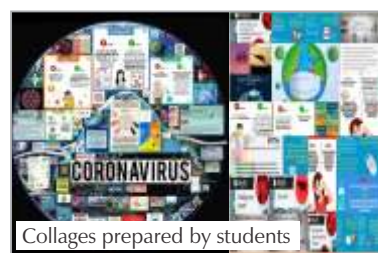
Expert delivering talk

The program was designed for 20 faculties of University, College, ITIs, Polytechnics, EDP Cells and Trainers from NGOs. During the 15-days program, field visits were organized at local Agri-preneurship areas on 18th January 2020. Dr P D Juyal, VC, Nanaji Deshmukh Veterinary Science University was invited to deliver a lecture on Agri-preneurship.

## Intradepartmental Activities

### Department of Physiotherapy

Department of Physiotherapy conducted Intradepartmental e-collage competition on 4<sup>th</sup> June 2020. The chosen topic was 'Novel Corona virus: Myth vs Truth'. Around 25 amazing e-collages were presented by students which were adjudged by Dr. Shruti Sharma, Mrs Malti Sawhney and Dr. Keerty Mathur. Ananya of BPT 3<sup>rd</sup> year was declared 1st, Sneha and Sunakshi of BPT 1<sup>st</sup> year and Akshat and Chetna of BPT 2<sup>nd</sup> year were jointly declared 2<sup>nd</sup>, and Rajiv and Sheena Grover of BPT 4<sup>th</sup> year were jointly declared 3<sup>rd</sup>. The winners were awarded with e-certificates.



Collages prepared by students

### Department of Microbiology

Department of Microbiology organized 'Make your own mask' competition for students. Using easily available cloth materials, lot of



students showed their creativity skills. Organised an interdepartmental contest on 'Make your own Mask' on 30<sup>th</sup> June 2020. The contestant were asked to design homemade mask, upload a video of the mask preparation and share a selfie wearing the prepared mask and win a prize. Tina Rajput (B.Sc Medical Laboratory Technology), Jesek Yanggi (B. Sc Horticulture), Babina Pandey (B.Sc Medical Microbiology) and Sumpi Siram (B. Sc. Horticulture) were the winners.

### Dolphin Students Welfare Committee

DSWC organized an online poster competition on 14th of May, 2020 on the topic "Post Covid19: Challenges for Education System in India".

Following four were shortlisted as the Best posters:

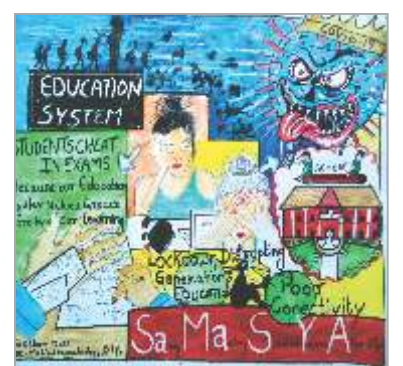
Tanuja, M.Sc. Micro; Saksham Das B.Sc. MM; Somana Suman, B.Sc. Agri

and Gaura Devi M.Sc. Zoology.









These were displayed on the social media accounts of the College. The winner of the competition will be felicitated later.

### Department of Horticulture

Poster Presentation Competition was also organized by the department of Horticulture on the "Life before and after COVID-19". The students from various departments participated in the event. The 1st prize was awarded to Miss Sohani Saha, B.Sc Horticulture IV semester, 2nd prize to Miss Debapriya Raha, B.Sc Agriculture IV semester and Miss Shikha, M.Sc Microbiology II semester. Jesek Yanggi, B.Sc Horticulture VIII semester stood 3rd. Winners were felicitated with the attractive cash prizes.



## Academic Achievements (College Toppers)

B.Sc. Agriculture- 2nd Semester	B.Sc. Agriculture- 4th Semester	B.Sc. Agriculture- 6th Semester	M. Sc. Agronomy- III & IV Semester	M. Com.- 1st & 2nd Semester
				
<b>Mouli Paul</b> 83.50%	<b>Ramesh Kumar Batala</b> 84.33%	<b>Ankita Belwal</b> 85.33%	<b>Sudip Pathak</b> 8.01 CGPA	<b>Habung Angkha</b> 7.92 CGPA
M. Sc. Agronomy- 1st & 2nd Semester	M.Sc. Botany- 1st & 2nd Semester	M.Sc. Chemistry- 1st & 2nd Semester	M.Sc. Forestry- 1st & 2nd Semester	M.Sc. Microbiology- 1st & 2nd Semester
				
<b>Sumana Satapathi</b> 8.03 CGPA	<b>Nesha Subba</b> 8.5 CGPA	<b>Anchal Rathor</b> 8.17 CGPA	<b>Yangkeela Bhutia</b> 7.42 CGPA	<b>Arpita Bhabani</b> 8.45 CGPA
M.Sc. Physics- 1st & 2nd Semester	M.Sc. Zoology- 1st & 2nd Semester	B.Sc. Forestry- 1st & 2nd Semester	B. Ed.- 1st & 2nd Semester	B.Sc. Horticulture- 1st & 2nd Semester
				
<b>Anjali Hembrom</b> 8.17 CGPA	<b>Shalini Sharma</b> 8.58 CGPA	<b>M. Jayaram Sheshathri</b> 8.73 CGPA	<b>Jyoti Danu</b> 8.3 CGPA	<b>Nazira Ashraf</b> 8.23 CGPA
B. Ed.- 3rd & 4th Semester	B. Ed.- 3rd & 4th Semester	B. Ed.- 3rd & 4th Semester	B.Sc. Forestry- 3rd & 4th Semester	
				
<b>Mansi Saini</b> 8.00 CGPA	<b>Priyanka</b> 8.00 CGPA	<b>Paras Bhatt</b> 7.98 CGPA		

## Distinguished Alumni

### Ms. Kezang Wangmo

**Year of graduation :** 2013, B. Sc. Forestry

**Country:** Bhutan

After completing her B. Sc. Forestry in June 2013 from Dolphin Institute, Kezang cleared Preliminary Examination of Bhutan competing with more than 1000 graduates, thereafter she appeared for Royal Civil Service Examination during October 2013 and ranked 11th in Technical



and joined IGNTA, Dehra Dun and LBSNA, Mussoorie in India for

category. She joined her 1st posting on 1st January 2014 in Zhemgang Territorial Forest Division. She was selected for IFS quota of her country

training. She rejoined as Officer in Bhutan Forest Services in 2018 and since then has been looking after the Forest Resource Management Section. She has special interest in studying butterflies and has compiled a list of 224 species of butterflies and 103 species of moths of Bhutan and has authored a book on "Butterflies and moths of Zhemgang Forest Division, the winged beauties of Central Bhutan". It will be launched during World Ranger's Day celebrations on 31<sup>st</sup> July 2020.



## Observing Important Days

### World Wetlands Day : Department of Zoology and NSS

The Department of Zoology and College NSS Unit organised a Seminar, Field visit and awareness programme on the occasion of World Wetlands Day on 6th & 7th February 2020. Dr. Arun Kumar, Director of the Institute presented a pictorial lecture on Asan Wetland Conservation Reserve and its Birds on 6th February as a precursor to their field visit to the wetland. Students of M.Sc. 2nd & 4th Sem along with faculty undertook a field visit to the Asan CR on 7th February, where in they were given on

site exposure to various issues by faculty. Dr. Beena Joshi Bhatt spoke about the history and importance of Asan Wetland. Dr. D. K. Bhardwaj, Dr. Shalini Anand and Dr. Deepali Rana gave information about the problems arising due to the anthropogenic activities at the Wetland. Ms. Purna Bahuguna, Program officer NSS Unit gave insight into cleanliness of the wetland.



Faculty & Students at Asan Wetland

Students undertook extensive bird watching of migratory and resident wetland birds and also took part in "Swachhta Hi Sewa" programme, a cleanliness drive around the wetland.

### International Day for Biological Diversity

Department of Forestry collaborated with Forest Restoration and Meliorations Department, National University of Life and Environmental Science (NULES), Kiev, Ukraine to organize an International Webinar to commemorate International Day for Biological Diversity on 22<sup>nd</sup> May 2020. Multinational panellists, educationists, biodiversity experts and students participated in the Webinar aimed at developing strategies for newer trends in biodiversity education, research and extension under New Normal amidst and post COVID-19.

Dr. Ganna Lobchenko from NULES, Ukraine spoke on "Shelterbelts of life focused on biodiversity research and impact assessment", while Prof. Sas Biswas, presented his views on "Risk



Webinar

assessment of biodiversity education, research and extension amidst & post COVID-19 pandemic". Two hrs Webinar with 67 participants got imbibed with new technology, methodology and aspects of education. Dr. Sas. Biswas laid particular stress on SWOT analysis for Strength, Weakness, Opportunity and Threat on post COVID-19 on aspects of biodiversity research, education, extension, infrastructure, guidelines and strict protocols for lab and field

inventory. Q & A from participants to experts to participants (P-E-P) was lively with brainstormed views to ponder and consider.

Panellists representing different educational institutions and Forestry organisations of Canada (Dr. Abhishek M Tripathi), Germany (Dr Ernst Kuersten), Malaysia (Dr. Ainuddin Nuruddin), United Nations University, Japan (Dr. Dr. Ernst Kuersten Nidhi Naganhatla) and India (Dr. Sharangouda J Patil and Dr. Aditi Sharma) presented their considered views and innovative approaches for the post COVID-19 era.



Carla Montesi, Director, DG DEVC

### Earth Day

#### Departments of Forestry and Botany jointly celebrated 50<sup>th</sup> Anniversary of Earth Day

Following e-Activities/ Events were conducted

- Post a pic "Lockdown World through Balcony & Window" [Age 15 and above]: Open for all.
- Post a pic of computer designed or hand-drawn Poster/Short Poem/Inspirational Slogan on 'Freedom of Earth from the clutches of COVID-19' [Age 15- 25]: Open for UG & PG students of Dolphin Institute, Dehradun.
- e-Essay (500 words) on topic "Changes on Earth [Post COVID-19]: Boon or Bane for man, climate and wildlife" [Age 20 and above]
- Webinar: talk by Prof. Sas. Biswas on "Lock Down and World around" on 22<sup>nd</sup> April.

Overall around 100 participants children, students and veterans from India, Singapore, Australia, New Zealand, United Kingdom and Pakistan participated in various e-activities and Webinar "Lockdown and World Around" by Prof.Sas.Biswas. 11 learned judges, namely, Mrs. Manjari Biswas, Mr. Philip Bond & Ms. Gail (UK), Ms. Vee Haddy (New Zealand),

Ms. Roshni Shah & Mrs. Bangara (Mumbai), Mrs C Prabha, Mrs Aarti Gupta, Ms. Sunita Rekhi and Dr. Shailja Pant (Dehradun) and Dr. Ruchi Badola (WII, Dehradun), evaluated the entries of various events. Mr. Amitava Sarkar (Singapore), Drs. Tripti Malik Ahuja, KP Tripathi and Sandhya Goswami from Dolphin institute acted as rapporteur on WEBINAR session.

Following are the results of various e-competitions:

- Photography Veteran category: Ms Noela Roberts [Mandurah, W. Australia], Dr Abdul Wahab Khan [Hazara University, Pakistan] and Ms Richa Raturi [Visakhapatnam, India] won I, II & III places respectively.
- Students Category : Madhurjya Pratim Swabarna, M. Sc. Biotech 2nd Semester stood 1<sup>st</sup>, Sunakshi Gautam (B.P.T. 1<sup>st</sup>Yr) got 2<sup>nd</sup> and Arzoo Khan (M.Sc. Biotech 2<sup>nd</sup> Sem) got 3<sup>rd</sup> place.
- In Short Poem category Anisha Pradhan (B.Sc. Forestry 6<sup>th</sup>sem),



e-activities

Aditi Gupta (B.B.T. 4<sup>th</sup> year) and Mahmoda Sultana, B. Sc. Forestry 2<sup>nd</sup> sem stood 1, 2 & 3.

- Mouli Paul (B.Sc. Ag 4<sup>th</sup> Sem), Tenzin Choeki Lachungpa (M.Sc. Forestry 2<sup>nd</sup> Sem) & Manami Chakraborti (M.Sc. Biotech 2<sup>nd</sup> Sem) stood 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> in e-essay category.
- In e-Poster/Short Poem/ Slogan event, Madhurjya Pratim Swabarna (M.Sc. Biotechnology 2nd Sem), Mouli Paul (B.Sc. Ag 4<sup>th</sup> Sem) and Saksham Das (B Sc. MM 2<sup>nd</sup> year) got 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> position.
- In children category event, Miss Anoushka Pant (Brightlands School Dehradun), Master Chaitanya Giri (Ann Mary School Dehradun) and Master Akshaj Ahuja (Ann Mary School Dehradun) placed 1<sup>st</sup>, 2<sup>nd</sup> & 3<sup>rd</sup> respectively.

### WED Activities by Cultural Committee

Cultural committee of the institute organized an online painting competition on "United against Corona: Expressed through Art" to celebrate World Environment Day 2020. Students from all departments participated in competition. The event was judged by Shri Arvind Gupta, Chairman, Dr. Shailja Pant, Principal and Smt. Arti Gupta, OSD. The 1st position was won by Saloni Dung Dung, BPT 3 year, 2nd position was shared by Priyanka

Srivastava, M.Sc. Pharmaceutical Chemistry IV Semester and Dharatee Singha, BPT III year; 3rd position was again shared between Mauli Paul, B.Sc. Ag IV Semester and Kushagra Raunak, B. Sc. Agriculture II Semester. Certificates of appreciation were given to Shikha Thakur M. Sc. Microbiology II Semester and Shalu Megha, BPT I year. Students were felicitated with e certificates and best wishes for future.

### World Environment Day (WED)

WED is celebrated all over the world on 5th June. It is United Nation (UN) prime vehicle since 1974 for encouraging awareness and action to protect our environment by raising environmental issues ranging from marine pollution, global warming, sustainable use and biodiversity conservation. It is celebrated through activities such as campaign, clarification, sensitizing the locals about the growing environmental conditions and suggestive ways to prevent them; organizing plays, quizzes, tree plantations, lectures and

kids posters competition etc.

This year the College celebrated WED under various platforms to spread maximum awareness among the students who were confined to their homes rather than within the College campus as always. The range of activities included Webinars, online poster presentations, painting competition, slogans, poems and gardening, etc. all focusing on environment and biodiversity conservation under the impact of Covid-19.

### WED Activities by Department of Botany



Posters prepared by students

The department organized a Webinar on Biodiversity conservation and Protected Areas in India, and online slogans and posters competition on 5<sup>th</sup> June. The Guest speaker was Dr. K.S. Dogra, Scientist-D, Botanical Survey of India, Solan. The speaker focused on relevance and scope of biodiversity conservation in protected areas in India. 95 participants joined the event from different parts of the country. Simultaneously department also organised three online competitions, namely Slogan, Poster and Essay writing.

- 25 participants submitted online slogans on the Theme 'Novel Corona Virus Disease Covid-19 and Biological Diversity'. Dr. Arun Joshi, CSIR Pool Officer, Department of Botany, SGRR-PG College, Dehradun stood 1<sup>st</sup>; 2<sup>nd</sup> prize went to Ms. Dimre N. Arengh, M.Sc. Botany IV Sem, Dolphin Institute, while Abadht Dey, MVSC Scholar, University of Animal and Fishery Science, Kolkata stood 3<sup>rd</sup>. Consolation prize was awarded to Ms. Kanak Aggrawal, B.Sc. Biotechnology II Sem of our College.
- 20 participants from different Schools and Colleges participated in poster competition on 'Impact of

Covid-19 on Nature'. 1<sup>st</sup> prize was won by Kushagra Raunak, B.Sc. Ag. 2<sup>nd</sup> Sem from our College, 2<sup>nd</sup> prize went to Ms. Amisha Mehmi, and the 3<sup>rd</sup> prize was awarded to Harjinder Singh, both students of class XII, DRV DAV Centenary Public School, Phillaur, Punjab; consolation prize went to Dolphinite Ms. Anushka Saha, B.Sc.Agriculture 6<sup>th</sup> Sem.

3. 45 participants took part in essay competition on 'Lockdown amidst Covid-19 and Healing of Planet Earth' on 19<sup>th</sup> June 2020.

Winners:

1<sup>st</sup>: Ms. Reena Shah, Assistant Professor, Department of Botany, Government Degree College, Satpuli, Pauri.

2<sup>nd</sup> : Dolphinite Ms. Kashmira Pradhan, M.Sc. Zoology IV Semester.

3<sup>rd</sup> : Ms Vaishnavi Sharma, B. Sc. II Year, SSDPC Girls Degree College, Roorkee, & Sartaj Singh, B.A. III Year, Markanda National College, Sahabad Markanda, Haryana

Certificate of Appreciation

S. Subha Nadar, Aditya Birla Health Insurance, Thane, Maharashtra, Mr. Hampan G.M. Phom, M. Sc. Biochemistry II Semester, Dolphin (PG) Institute of Biomedical and Natural Sciences, Dehradun.

### Department of Biotechnology

Though our opportunities to engage with nature may be fewer during the pandemic but there are still a number of things we can do to stay connected with nature, look after our wellbeing, and keep safe.

Therefore becoming green-fingered was one such activity students were asked to indulge to commemorate the WED 2020. Simple tasks such as mowing the lawn and watering plants are ideal for getting that much needed fresh air. Students



Students Lock-down activities

during lockdown. Students involved themselves in gardening as they renovated the lawns by de-weeding, trimming and pruning and included their little caring efforts towards protection of nature. Justifying that in this time of great uncertainty, finding a way to connect with the

living world seems more important than ever.

\*Stay Green, Stay Safe, and Stay Healthy\*



## Faculty Corner POST PANDEMIC teaching and learning - a new beginning at our institute

Year 2020 started with a bitter note as the whole world was shaken with the outbreak of Corona Virus or Covid-19. Each and every country is struggling to cope up with the so called Novel Corona Virus Pandemic as it is spreading at an alarming rate. There are no other options left for the countries other than to implement Lock-down norms as the virus is highly communicable. The lock-down has affected each and every individual as every small and big business organization, educational institutions, offices, malls, hotels, restaurants etc were closed except the essential commodities.

The educational system has been drastically affected due to lock downs and the age old conventional method of teaching is not possible to be carried out at this stage. The old proverb "necessity is the mother of invention" stood well again and necessitated online methodology of teaching and learning across the Globe. Like umpteenth number of educational institutions our College Management Committee also decided to adopt online teaching since our students have gone back home to every nook and corner of the country. Though we have initiated the introduction of an Learning Management System in the College last year the implementation got little delayed as the faculty was hesitant initially to adapt to this new mode of teaching as some of them were not used to

the technology. Gradually everyone involved in the teaching understood the need of the hour and started adapting to this new way of providing e-classes.

Under the patronage of the College Management Committee the IT Cell of the college started working on a suitable teaching and learning platform both for the students and teachers. After working on this for quite some time the team finally decided to implement the well known Open Source Platform "Moodle LMS". Once the platform was decided, IT team was readily engaged to set up the software infrastructure and to train the students and teachers. As a result of this initial training and deep involvement with its workings, the IT team deeply understood the nitty-gritty of the workings of the software platform both from users and implementation perspective.

Since this software platform was already established within the campus and as result of work going on it, we DOLPHINITES did not have to take a second thought under the dismal conditions of the lock-down. We did not have to think a bit about what to do and how to manage our ongoing academic session during the lock down since we were already having a suitable alternative.

With the positive attitude of our faculty and support from IQAC coordinator, the IT Cell could train the teaching staff and students as

well for working on the digital platform remotely. It was within a short span of time that every end user gradually got acquainted with major aspect of online mode of teaching by using the features available in the Moodle LMS platform. Thus, using this platform we could conduct regular interactive classes as per the timetable, giving class assignments, tests and quizzes, etc, to our students which help to engage them throughout the day just like normal class room contact lectures. Besides, college also conducted 23 Webinars between April and June 2020. It's a proud and happy moment for the DOLPHINITES that we are able to run this e-teaching and learning in a smooth way and for sure there won't be any difficulty to follow the same in the upcoming session 2020-21 onwards as we have achieved the optimal. Encouraged by results so far we are moving ahead to integrate the MOODLE LMS with the College ERP system. Finally the most encouraging has been the positive response from the students, our 1st and major stake holders. A review of the students feedback is quite satisfying which makes one feel that everything went on smoothly and it will definitely encourage us to take the work flow to the next level.

KUDOS to all!

- SUJITH

In-charge, IT Cell

## FDP, Workshops, Conferences and Trainings Programmes attended

1. Dr. C. S. Pandey, Associate Professor and Dr. Shalini Agrawal, Assistant Professor Department of Agriculture, Shri Vipul Garg, Associate Professor, Department of Computers and Biostatistics, Mrs. Rama Garg, Assistant Professor, Department of Commerce attended 15 days Faculty Development Programme (FDP) conducted by The National Institute for Entrepreneurship and Small Business Development from 13th to 27th January 2020 at Dehradun.

2. Shri Vipul Garg, Associate Professor, Department of Computers and Biostatistics attended two days IIRS Industries Academia Meet (IAM)-2020 on March 02nd & 03rd '2020 at IIRS Dehradun.

3. Dr. Narendra Kumar, Assistant Professor, Department of Agriculture attended training on "Fundamentals of Drone Technology for Precision Agriculture" from 25th -30th April, 2020. Organized by the Centre for Advanced Agricultural Science and Technology (CAAST) for Climate Smart Agriculture and Water Management (CSAWM), M. P. Krishi Vidhyapeeth, Ahmednagar (Maharashtra) under the National Higher Education Project (NAHEP) of ICAR, New Delhi.

4. Dr. Narendra Kumar, Assistant Professor, Department of Agriculture

attended online training from 01st to 05th June, 2020 on 'Pesticide Application Techniques and Safety Measures' organized by National Institute of Plant Health Management, Hyderabad.

5. Dr. Narendra Kumar, Assistant Professor, Department of Agriculture attended International online training programme from 04th to 08th June, 2020 on "Advance Digital and Biotechnological Tools in Modern Agriculture" organized by Vilasrao Deshmukh College of Agriculture Biotechnology and ICAR- NAHEP, CAAST-DFSARDA, Vasantrao Naik Marathwada Krushi Vidyapeeth, Parbhani (Maharashtra).

6. Drs. Mandeep Kaur, Assoc. Professor, Dept of Forestry, Narendra Kumar and Veerendra, Assistant Professors, Department of Agriculture, Ms. Abhilasha and Priyanka Nautiyal, Department of Physics and Ms. Prerna Bahuguna, Department of Botany attended Faculty Development Programme on "Normalization of online Teaching and Learning System for New Normal" jointly organized by Dolphin (P.G.) Institute of Biomedical & Natural Sciences, Dehradun (UK) and Research Development and Service Cell, Ramanujan College, Delhi University from 22nd May to 04th June, 2020.

7. Shri Shivsharan Singh, Asst. Prof., Dept. of Biochemistry attended 3rd National Conference on "Innovations in Bioscience and Technology" organised by Faculty of Life Sciences, Multani Mal Modi College, Patiala on 7th March, 2020.

8. M. Sc Biochemistry students visited All India Institute of Medical Sciences (AIIMS), Rishikesh on 23rd February 2020 and attended the one day workshop on "Gastric Biochemistry" organized by department of Biochemistry, AIIMS, Rishikesh.

9. 7 students and one faculty of Forestry Department namely Dr. Vikaspal Singh, Ajing Rang, Denial Liak, Anil Taku, Anandhu P, Adikartik Shankar, Serlyn and Masmidi Kemprai attended a workshop on "Wildlife monitoring, community outreach and awareness" conducted by Wildlife Preservation Society, Dehradun in collaboration of WWF, India on 14th & 15th March 2020.

### 1010 IIRS outreach programme

Students and faculty of the College namely Mouli Paul, Sushma Kanwar, Nabin Bhatta, Riya Laik and Arnab Khanda, successfully completed 1010 IIRS outreach programme on Machine learning for Remote Sensing Data Classification held on 1st June 2020.

## Research Publications

### Department of Biotechnology

1. Arora, N., Jaiswal, K.K., Kumar, V., Vlaskin, M.S., Nanda, M., Pruthi, V. & P.K. Chauhan (2020) Small-scale phyco-mitigation of raw urban wastewater integrated with biodiesel production and its utilization for aquaculture. *Bioresource Technology.*, **297**, 122489, <https://doi.org/10.1016/j.biortech.2019.122489> (IF **6.6**).

2. Kumar, V., Kumar, S., Chauhan, P. K., Verma, M., Bahuguna, V., Joshi, V., Ahmad, W., Negi, P., Sharma, N., Ramola, B., Rautela, I., Nanda, M. & Mikhail S. Vlaskin (2020) Low-temperature catalyst based hydrothermal liquefaction of harmful macroalgal blooms, and aqueous phase nutrient recycling by microalgae. *Scientific Reports-Nature Publication* (2019) **9**:11384 <https://doi.org/10.1038/s41598-019-47664-w> (IF **4.01**).

### Book Chapter

1. Vinod Kumar, Manisha Nanda, Vikas Pruthi, Nishesh Sharma, M.S. Vlaskin, Mahipal Singh Tomar (2020) Integration of wastewater valorization with microalgae for biofuel production. In: Krishnaraj (Ed) Biovalorisation of Wastes to Renewable Chemicals and Biofuels. Elsevier Inc.. 2019 ISBN: 9780128179512. <https://doi.org/10.1016/B978-0-12-817951-2.00018-3>

### Department of Zoology

1. Bhatt, B.J. (2020) Study on the satellite based assessment of malaria mosquitogenic conditions in and around Dehradun. *International Journal of Mosquito Research*, **7**(1): 8-15.

2. Rana, D., Gupta, S. K. and Rana, R. (2020) Fish Diversity in relation to water quality of Doon Valley, Dehradun, Uttarakhand, India. *Environment and Ecology*, **38** (2): 236—248, ISSN 0970-0420.

### Department of Statistics

1. Vaquar, M. & S.K. Agarwal (2020) High Energy Efficient Trustable Routing Protocol for Wireless Sensor Network. *International Journal of Innovative Technology and Exploring Engineering*, **9** (3): 1034-1042. ISSN: 2278-3075

2. Vaquar, M. & S.K. Agarwal (2020) Target Object Tracking with Portable

Sensors in Wireless Sensor Network. *International Journal of Engineering and Advanced Technology*, **9**(2): 2505-2510. 2ISSN: 2249—8958.

### Department of Chemistry and Pharmaceutical Chemistry

1. Sarangi, M.K., Bhanaji Rao, M.E., Parcha, V. & Aadesh Upadhyay (2020) Tailoring of Colon Targeting with Sodium Alginate-Assam Bora Rice Starch Based Multi Particulate System Containing Naproxen. *Starch*. <https://doi.org/10.1002/star.201900307>, 2020 WILEY-VCH Verlag GmbH & Co. KGaA, Weinheim.

2. Parcha, V., Sati, A. & Shivani Dyani (2020) Study on Phytoconstituents and Antimicrobial potential of *Sapindus mukorossi* fruit extract. *Universities Journal of Phytochemistry and Ayurvedic Heights*, **1**(28):12-19. ISSN No. 0973-3507.

3. Parcha, V. & Deepak Kumar (2020) Antihyperlipidemic Flavonoid Glycoside From *Salvadora oleoides* (Decne.). *Journal of Biologically Active Products from Nature*, **9**(5): 364-371. Scopus.

4. Parcha, V., Dobhal, Y. & D.C Dashmana (2019) Isolation, characterization and cardioprotective potential of Gratissinol from Chloroform extract of *Ocimum gratissimum* (Linn.) leaves. *Journal of Biologically Active Products from Nature* **9**(4):260-268. Scopus.

5. Parcha, V., Singh, D.J. & Deepak Kumar (2019) Isolation, characterization, synthetic modification and evaluation of antioxidant potential of Berberine from roots of *Berberis*. *Universities Journal of Phytochemistry and Ayurvedic Heights*, **2**(26):53-60. 3ISSN No. 0973-3507.

6. Bhardwaj, S., Rashmi & Versha Parcha (2019) Effect of seasonal variation on chemical composition and physicochemical properties of *Hedychium spicatum* Rhizomes Essential Oil. *Journal of Essential Oil Bearing Plants*. DOI: 10.1080/0972060X.2019.1703828 I.F.688

### Department of Biochemistry

1. Singh, S., Verma, S.K & S.K. Singh (2020) In vitro investigation of anti-cancer potential of *Spilanthes acmella*. *Journal of Pharmaceutical Sciences & Research*, **12**(1): 124-128.

## Student's Corner

### Hope in despair

Of ignorance, the city lights beautifying by stars,  
Suddenly turned into darkness with full of scars!  
The corona virus created chaos and uncertainty  
Still by the poetry I am decorating my sleeping city!  
Everyday the news is full of grief which saps the mind,  
But more than the virus, the conflicts of religion killing the mankind!  
There is no misery behind the closure of schools, shopping malls and religious places,  
But somehow, blinking twice, I recognized the daily workers face!  
Can you listen to the voice of the poor's whose doors of earning is shut?  
Everyday from the balcony, I see the dreadful scenario still peaceful but!  
Because I feel the sweetness of home and glow of the sultry evening,  
I feel the melancholy tune of the nature where birds keep dancing!  
Wait, do you remember the soldiers, the doctors fighting till the pandemic ends,  
I never know how to applaud them\_  
All I wish if they find their way back to home to their children and parents!  
Anyway I remember\_  
We all once said, we aren't afraid to die,  
But when reality strike, it seems somewhere we all lie!  
Just look at us, the death is haunting with a simple cough,  
Suddenly, we realized life without materialistic things is not that much tough!  
And here again, I found a ray of light,  
Like a full moon in midsummer night!  
I barely feel the agony of solitary day,  
Because every evening in the blue sky, with the kites my lost heart too finds a way!  
With the scenic beauty my soul feel the sweet aroma of the garlands where roses blossoms,  
And within the darkness, I enjoy the beauty of nature which is awesome!

**Penned by:**

**Mahmoda Sultana (Mahi)**  
B.Sc. Forestry 3rd Semester



## Webinars organised by the Institute between April to June 2020

● 23<sup>rd</sup> May 2020: organised by department of Horticulture on "Soil Fertility evaluation". Guest speaker: Dr D C Kala, Assistant Professor, CCS University, Meerut. 36 participants attended.



● 23<sup>rd</sup> May 2020: organised by department of Biotechnology on "Adopting and Adapting New Skills for Teaching in Digital and Post Covid Phase Biotechnology" Guest speaker: Dr. Pratima Khandelwal, Founder, 'FlyHigh' and Prof. & Head, Teaching - Learning Centre, Global Academy of Technology, Bengaluru. 60 participants attended.



● 23<sup>rd</sup> May 2020: organised by department of Physics on "Amid pandemic, the strong foundation for disruptive technologies can potentially boost India's GDP to \$10 trillions". Guest speaker: Dr. Bhagwati Prasad (Joshi, Principal Scientist at Western Digital USA). 150 participants attended.



● 23<sup>rd</sup> May 2020: organised by department of Physiotherapy on "Musculoskeletal Injuries, Management and Prevention in Sport Issues and Challenges for Physiotherapists". Guest speaker: Dr. Zafar Azeem, Associate Professor at Dr. D Y Patil College of Physiotherapy, Dr. D Y Patil University, Pune. 77 participants attended.



● 3<sup>rd</sup> June 2020: organised by department of Chemistry and Pharmaceutical Chemistry on "Role of Phytomedicines in Covid -19". Guest speaker: Dr S.Farooq, President, The Himalayan Drug Company, Dehradun. 60 participants attended.



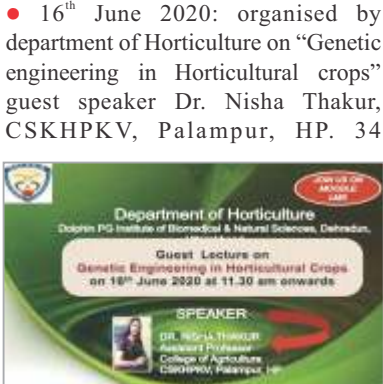
● 10<sup>th</sup> June 2020: organised by department of Capacity Building and Skill Development Cell on "Financial empowerment through financial education and investor awareness". Guest speaker Shri Suryakant Sharma, Senior Consultant, North Region AMFI. 60 participants attended.



● 11<sup>th</sup> June 2020: organised by department of Physiotherapy on "Understanding Core- Introduction to Pilates Physiotherapy". Guest speaker Dr. Aditi Singh, Co-founder and Managing Partner at REVIVE Multi-speciality Physical Health & Wellness, India and Founder and Master Trainer at FitMomPilates Studios. 110 participants attended.



● 13<sup>th</sup> June 2020: organised by department of Physics on "Long term vision for Science Education during and Post pandemic landscape". Eminent speaker Prof. Gautam R Desiraju, IISc, Bengaluru. 500 participants attended.



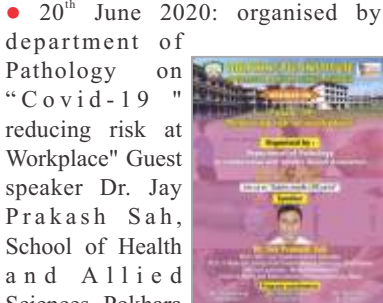
● 16<sup>th</sup> June 2020: organised by department of Horticulture on "Genetic engineering in Horticultural crops" guest speaker Dr. Nisha Thakur, CSKHPKV, Palampur, HP. 34 participants attended.



● 16<sup>th</sup> June 2020: organised by department of Commerce on "Atamirbhar Bharat: Way to building Self-reliant India". Guest speaker Dr. Tejender Sharma, Professor, Department of Commerce, Kurukshetra University, Kurukshetra. 65 participants attended.



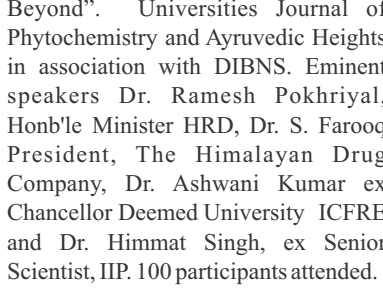
● 19<sup>th</sup> June 2020: organised by department of Agriculture on "Soil Science : An Overview". Guest speaker Dr. Trisha Roy, Scientist, ICAR-IISWC. 682 participants attended.



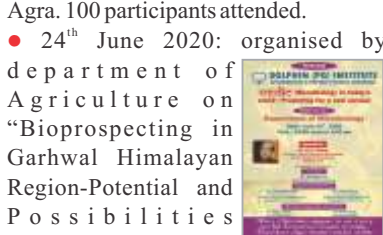
● 20<sup>th</sup> June 2020: organised by department of Pathology on "Covid-19 " reducing risk at Workplace" Guest speaker Dr. Jay Prakash Sah, School of Health and Allied Sciences, Pokhara University, Nepal. 93 participants attended.



● 20<sup>th</sup> June 2020: organised by department of Chemistry and Pharmaceutical Chemistry on "Herbal Research: Opportunities, Challenges and Beyond". Universities Journal of Phytochemistry and Ayurvedic Heights in association with DIBNS. Eminent speakers Dr. Ramesh Pokhriyal, Hon'ble Minister HRD, Dr. S. Farooq President, The Himalayan Drug Company, Dr. Ashwani Kumar ex Chancellor Deemed University ICFRE and Dr. Himmat Singh, ex Senior Scientist, IIP. 100 participants attended.



● 22<sup>nd</sup> June 2020: organised by department of Agriculture on "Techniques of Seed Production in Oil Seed Crops". Guest speaker Dr. A. K. Chaudhary, Professor and Head, Department of Genetics and Plant Breeding, Dr. B. R. A. University, Agra. 100 participants attended.



● 24<sup>th</sup> June 2020: organised by department of Agriculture on "Bioprospecting in Garhwal Himalayan Region-Potential and Possibilities Agriculture" guest speaker Dr. Arun Bhatt, Department of Biotechnology, GBPIET, Ghurdauri-Pauri Garhwal, Uttarakhand. 308 participants attended.



● 26<sup>th</sup> June 2020: organised by department of Microbiology on "Vedic Microbiology in today's world: Preparing for a new normal Microbiology" Guest speaker Prof. R. C. Dubey, Head, Department of Botany and Microbiology, Gurukula Kangri Vishwavidyalaya, Haridwar. > 700 participants attended.



Department of Agriculture has initiated Krishi Samvad providing unique platform for direct and effective solutions for the problems faced by neighbourhood farmers. Following activities were organized:

1. Drs. C.S.Pandey, Pradeep Mishra and Sanjay Kr. Agarwal of the institute interacted with the farmers about mushroom cultivation, formation of SHG, information about Bank loan facility at Aduwala Badripur, Dharmawala, Dehradun on 5th January 2020. 50 farmers from adjoining areas participated.

2. Drs. Pradeep Mishra, Sanjay Kr. Agarwal and Manoj Kr. Bansala interacted with the farmers about mushroom cultivation, formation of SHG, information about Bank loan



Farmers attending the programme

## Dolphinites adapting to online teaching-learning during Covid-19 Lockdowns

The educational system has been drastically affected due to lock downs and the age old conventional method of teaching is not possible to be carried out at this stage. Like other creative educational institutions our College also decided to adopt online teaching since our students have gone back home to every nook and corner of the country.

The College decided to implement the well known Open Source Platform "Moodle LMS". Our IT team was readily engaged to set up the software infrastructure and to train the students and teachers. Thereafter College conducted regular online classes as per the original timetable, giving class assignments, tests and quizzes, etc, to the students which help to engage them

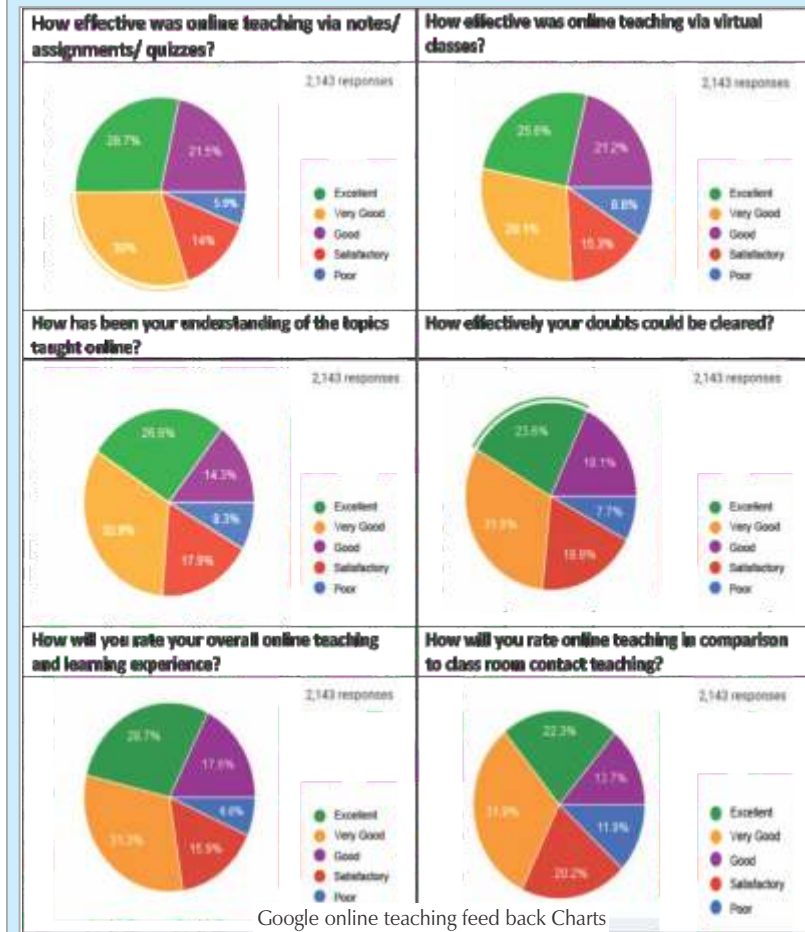
throughout the day just like normal class room contact lectures. Besides, college also conducted 22 Webinars between April and June 2020.

Positive response from the students, our 1st and major stake holders has been most encouraging. The feedback from the students was collected using Google form.

Questionnaires were designed in the Google form and link was shared with all students, who filled the information as per their satisfaction and submitted back the form. Altogether 2143 students responded to the queries in the feedback form in response to six criteria as indicated in Pie charts.

The summary was compiled logically by Google itself as per the standard procedure and is presented herewith for every one's perusal.

Analysis of student's feedback on Online teaching-learning during lockdown period between April and June 2020.



## Krishi Samvad

facility on 7th & 8th January 2020 at Vikas Khand, Herbertpur. 65 farmers from adjoining areas participated.

3. Drs. Sanjay Kr. Agarwal, C.S. Pandey and Shailendra Tiwari informed the farmers about Seed Production Techniques, NADEP, Bank loan facility on 11th January, 2020 at Village Baroti Wala, Vikas Nagar, Dehradun. 53 farmers from adjoining areas participated.

5. Drs. Sanjay Kr. Agarwal, C.S. Pandey and Shailendra Tiwari informed the farmers about Vermicomposting, Bank loan facility, S H G formation and Orchard establishment on 19th January 2020 at Village-Jamnipur,



Faculty members from the institute in the programme

Selaqui, Dehradun. 48 farmers from adjoining areas participated.

6. Drs. C.S.Pandey, Dr. Pradeep Mishra, Anuj Gupta and J.K.Meena informed the farmers about mushroom cultivation, SHG formation, vermicomposting on 23rd January, 2020 at Aduwala, Herbatpur, Dehradun. 45 farmers from adjoining areas participated.

7. Drs. Dr.C.S.Pandey, Vidit Tyagi and Pallavi Chaudhary informed the farmers about watershed management, protected cultivation, vermicomposting on 3rd February, 2020. Farmers from Empower Society, Nehru Colony visited Dolphin (PG) Institute.



## Covid-19 Lock-down

# विकट आपदा के समय डॉल्फिन इन्स्टिट्यूट ने आगे आकर की जरूरतमंदों की सहायता

डॉल्फिन (पी0जी0) इन्स्टिट्यूट देहरादून सदैव सामाजिक जिम्मेदारियों के निर्वहन में सजग व तत्पर रहता है। कोरोना वैश्विक महामारी के चलते भारत सरकार को दिनांक-24 मार्च, 2020 से सम्पूर्ण देश में लॉकडाउन करना पड़ा। ऐसे में नौकरी पेशा व्यक्ति, विद्यार्थी, रोज कमाने वाले मजदूर और रेहड़ी-ठेली लगाकर आजीविका चलाने वाले छोटे कामगार, गरीब सभी गम्भीर संकट में आ गये। संस्थान ने आगे आकर उत्तराखण्ड शासन व पुलिस के सहयोग से ऐसे अधिकांश लोगों के भोजन, पानी व आवास की व्यवस्था की जिम्मेदारी उठायी। जरूरतमंद लोगों तक कच्चा राशन पैकेट, पका हुआ पैकड फूड पहुँचाया गया तथा काम बंद हो जाने से अपने घरों की ओर पैदल ही पलायन कर रहे लोगों के रहने की व्यवस्था की गयी। बाद में सभी लोगों को पुलिस प्रशासन के सहयोग से बसों व रेलगाड़ियों से उनके घरों तक भिजवाना सुनिश्चित करवाया गया। संस्थान द्वारा विकट आपदा की इस घड़ी में किये गये सामाजिक जिम्मेदारी के इन कार्यों का संक्षिप्त विवरण निम्नवत् है-

- दिनांक- 28 मार्च, 2020 से दिनांक- 4-5 मई, 2020 तक लगभग 40 दिनों तक 25 अग्रवासी कामगारों के रहने, खाने की व्यवस्था संस्थान के स्याल हॉस्टल, नंदा की चौकी, प्रेमनगर, देहरादून में की गयी। ये लोग काम बंद होने के चलते पैदल ही अपने घरों (औरंगाबाद, अयोध्या आदि) की ओर लौट रहे थे और पुलिस प्रशासन के अनुरोध पर इनके रहने, खाने, चाय-पानी की व्यवस्था की गयी। बाद में इन्हें पुलिस प्रशासन के सहयोग से बसों तथा रेलगाड़ियों से इनके घर भिजवाया गया।
- पुलिस प्रशासन के अनुरोध पर दिनांक- 28 मार्च, 2020 से 10 जून, 2020 तक संस्थान के स्याल हॉस्टल में भोजन तैयार करके और पैक करके दिन में 2 बार, प्रत्येक दिन लगभग 800 से 1000 जरूरतमंद लोगों तक भोजन पहुँचाया गया। इसमें झाझरा, धूलकोट, नन्दा की चौकी,

माण्डूवाला, सुद्धोवाला और प्रेमनगर थाना तथा झाझरा पुलिस चौकी के अन्तर्गत किराये में रहने वाले छात्रों, दैनिक कामगार मजदूरों, गरीब बस्ती में रहने वाले लोगों व अन्य जरूरतमंद लोगों तक खाना पहुँचाया गया। संस्थान के स्याल हॉस्टल में दिन-रात भोजन तैयार कर पैक किया गया। जिसमें लॉकडाउन वारियर के रूप में श्री यासीन खान ने फूड कॉऑर्डिनेटर का कार्य किया और कुक श्री गिरीश, श्री राजीव व उनकी टीम ने भोजन में दाल-चावल, रोटी-सब्जी तथा आलू-पूरी आदि बनाकर पैक किया। और संस्थान के श्री पंकज गुसाई ने पुलिस प्रशासन की मदद से लोगों तक खाना पहुँचाया। इसमें बिल्डिंग ड्रीम्स फाउंडेशन की मदद से भी खाना पहुँचाया गया।

- लॉकडाउन अवधि में संस्थान ने कच्चा राशन (तैयार पैकेट) भी वितरित किया। इस पैकेट में 10 किलो आटा, 5 किलो चावल, 1 किलो चना, 1 किलो दाल, 1 किलो चीनी, 1 पैकेट चायपत्ती, 1 पैकेट दूध पाउडर, 2 बोतल सरसों का तेल, 2 पैकेट हल्दी, 2 पैकेट मिर्च, 2 पैकेट धनिया और 2 पैकेट नमक शामिल था। तैयार कच्चे राशन के पैकेट विभिन्न माध्यमों से जरूरतमंदों तक पहुँचाये गये, जिनका विवरण इस प्रकार है-
- झाझरा पुलिस चौकी, देहरादून 600 पैकेट
- विभिन्न सामाजिक एवं सांस्कृतिक संगठन, देहरादून 500 पैकेट
- श्री कीर्ति अग्रवाल, समाजसेवी, दे.दून 315 पैकेट
- श्री मोनू गुप्ता, पार्षद, एफ0आर0आई0, देहरादून 30 पैकेट
- एस0पी0 ट्रैफिक, देहरादून 125 पैकेट
- सिनर्जी हॉस्पिटल, देहरादून 50 पैकेट
- दैनिक जागरण कार्यालय, देहरादून 50 पैकेट
- ग्राम प्रधान माण्डूवाला, देहरादून 70 पैकेट
- डॉल्फिन हॉस्टल स्टाफ, देहरादून 70 पैकेट

- डॉल्फिन हाउस कीपिंग स्टाफ, दे.दून 25 पैकेट
- डॉल्फिन गार्ड स्टाफ, देहरादून 20 पैकेट
- डॉल्फिन लैब स्टाफ, देहरादून 45 पैकेट
- डॉल्फिन कैन्टीन स्टाफ, देहरादून 30 पैकेट
- ठाकुरपुर, देहरादून 150 पैकेट
- आई.एस.बी.टी., देहरादून 170 पैकेट
- माजरा, देहरादून 80 पैकेट
- कांवली रोड, देहरादून 250 पैकेट
- सेलाकुई, देहरादून 250 पैकेट
- प्रेमनगर, देहरादून 300 पैकेट
- राजावाला, देहरादून 50 पैकेट
- कांसवाली, देहरादून 50 पैकेट
- बड़ोवाला, देहरादून 50 पैकेट

संस्थान के द्वारा भोजन एवं राशन का वितरण



## SCIENTIFIC ADVANCEMENTS

### Humming birds see diverse colors Humans can only Imagine



While humans have three color cones in the retina sensitive to red, green and blue light, birds have a fourth color cone that can detect ultraviolet light. A research team at Rocky Mountain Biological Laboratory (RMBL) in Gothic, Colorado trained wild hummingbirds to perform a series of experiments that revealed that the tiny birds also see combination colors like ultraviolet+green, ultraviolet+redultraviolet+yellow and ultraviolet+purple ([https:// earthsky.org/earth/wild-hummingbirds-see-colors-humans-can-only-imagine](https://earthsky.org/earth/wild-hummingbirds-see-colors-humans-can-only-imagine)).

### Study Focuses on Driving Bacteria to Produce Potential Antibiotic, Antiparasitic Compounds

Researchers at the University of Illinois have developed a method to spur the production of new antibiotic or antiparasitic compounds hiding in the genomes of actinobacteria, which are the source of the drugs actinomycin and streptomycin and are known to harbor other untapped chemical riches. The researchers wanted to overcome a decades-old problem

### Blue-Green Algae Produce Methane

Cyanobacteria, also known as blue-green algae, are among the most common organisms on Earth. They are found in almost all aquatic and terrestrial environments on Earth and, through photosynthesis, supply a large portion of the planet's oxygen. A research team has now shown for the first time that Cyanobacteria produce relevant amounts of methane in oceans, inland waters and on land. Due to climate change, "Cyanobacteria blooms" increase in frequency and extent, amplifying the release of methane from inland waters and



oceans to the atmosphere. Until recently, the biological production of methane was thought to be performed only by microbes called archaea and only in environments free of oxygen (<https://www.the-scientist.com/news-opinion/blue-green-algae-produce-methane-66971>).

### Unexpected Discovery: Cyanobacteria Produce Oil

Cyanobacteria-colloquially also called blue-green algae - can produce oil from water and carbon dioxide with the help of light. This is shown by a recent study by the University of Bonn. The result is unexpected: Until now, it was believed that this ability was reserved for plants. It is possible that blue-green algae will now also become interesting as suppliers of feed or fuel, especially since they do not require arable land. The scientists searched the genomes of various cyanobacteria for a gene that is

similar to the genetic make-up of the enzyme involved in plant oil synthesis. With success they found a gene for the enzyme acyltransferase in the blue-green algae; the plant enzyme also belongs to this group. Further tests showed that cyanobacteria do actually produce oil with this enzyme, even if only in small quantities (<https://www.newsbreak.com/news/1521263604749/unexpected-discovery-blue-green-algae-produce-oil>).

exposing their bacteria to the right hormone or combination of hormones, the researchers spurred the microbes to produce new compounds that are medically useful (<https://www.aninews.in/news/science/study-focuses-on-driving-bacteria-to-produce-potential-antibiotic-antiparasitic-compounds-20200626191817/>).

## Covid-19 Lock-down Warriors: Dolphin Institute

Present pandemic has changed education forever. It has resulted in schools, Colleges, Universities shut all across the world. Globally, over 1.2 billion school children in 186 countries are out of the classroom. As a result, education has changed dramatically, with the distinctive rise of e-learning, whereby teaching is undertaken remotely and on digital platforms. Like other creative educational institutions our College also decided to adopt online teaching since our students have gone back home to every nook and corner of the country. Though the implementation was little delayed initially but gradually everyone involved in the teaching understood the need of the hour and started adapting to this new way of providing e-classes thanks to Sujith, T.K., In-charge-IT Cell and his team were engaged 24x7 to set up the software infrastructure and to train the students and teachers enabling College to conduct regular online classes as per the original timetable and complete the curriculum on schedule.



Sujith TK



Pankaj Gusain

COVID-19 pandemic have faced multiple hardships due to shut down of factories, workplace and Millions of them had to deal with the loss of income, food shortages and uncertainty about their future. Following this, many along with families went hungry. Thousands of them then began walking back home, with no means of transport due to the lockdown. In response, the Central and State Governments took various measures to help them. As a socially conscious organization Dolphin Institute also took on itself to support the needy population in its own little way by providing food and accommodation throughout the lockdown period. Shri Pankaj Gusain, PRO and his team from the College played an stellar role in carrying out the social responsibilities on behalf of the College by arranging distribution of groceries and arranging boarding and lodging for the migrant workers to dissuade them from migrating them from Dehra Dun. We have therefore chosen Pankaj Gusain as the second Lockdown warrior of our College.