



# DAV NEWS

## 2020-21



### STAR COLLEGE SCHEME

Conferred by DBT, Ministry of Science & Technology, Govt. of India

# DAV COLLEGE, BATHINDA

Re-Accredited with B<sup>++</sup> Grade 2.97 CGPA by NAAC, Bangalore

A Co-educational Multi-Faculty Post Graduate Institution

Affiliated to Punjabi University Patiala

(Managed by DAV College Managing Committee, New Delhi)

# TORCHBEARERS

## DAV COLLEGE MANAGING COMMITTEE NEW DELHI



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(IAS Retd.) Director Higher Education



## FROM THE PRINCIPAL'S DESK

It gives me immense pleasure to have completed one year as the Officiating Principal of this premier institution. It is with the grace of the Almighty, guidance of the assiduous members of the DAV Managing Committee and the cooperation of staff members of the college which helped me shoulder the administrative responsibilities to the best of my ability.

The unfortunate demise of Dr. Sanjeev Sharma, former Principal of DAV Bathinda, left the whole DAV fraternity shattered. I had been handed over the charge of this institution by Dr. Sharma, on May 28, 2020 and will always be indebted to him for his wise counsel and constant support.

Ever since the outbreak of the pandemic, DAV College Bathinda has been striving to address the needs of the students and all the stakeholders. Dealing with the precarious pandemic times, many initiatives have been undertaken, like, signing of MOAS with Maharaja Ranjit Singh Technical University to facilitate collaborative efforts of both the prestigious institutions, setting up an Innovation Hub to groom the youth in accordance with the globally changing education scenario, revamping of library reading hall for a conducive reading environment, leveling of the college sports ground to provide a 400 metre running track for the physical fitness of the students and the staff, online fee payment to encourage contactless transactions and hosting a grand reception for the 'Victory Flame' to pay homage to the war widows and war martyrs. Many DBT webinars and virtual tours have also been organized, to reach out to the students and expand their horizons. Faculty too has been working hard to devise innovative online pedagogical techniques, so that the students learn and develop skills from the confines of their homes.

Believing in the dictum, "be the reason someone smiles", DAV Bathinda has been working constantly during these challenging times to blaze the beacon of happiness and smiles. I would therefore take this opportunity to thank one and all for reposing faith in us and encouraging us to achieve new milestones and set new benchmarks. I also appreciate the efforts put in by the editorial committee for bringing out this issue of the newsletter.

I thus conclude by praying to God to "eradicate all the misery in the world, that understanding triumph over ignorance, that generosity triumph over contempt, and that truth triumph over falsehood."

*Parveen Kumar Garg*

(Parveen Kumar Garg)

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## NEWSLETTER COMMITTEE

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**Dr. Neha Jindal**

**Prof. Heena Bindal**

*"Only a moment you stayed, but what an imprint your footprints have left in our hearts." – Dorothy Ferguson*

# DR. SANJEEV SHARMA: A TRIBUTE

*"He came, he saw, he conquered."*

The man, the exemplary figure Dr. Sanjeev Sharma, known for his "Midas Touch" not only emerged as a winner on the professional front but also conquered each and every heart he was known to. Little did anybody imagine that a man from Jalandhar, stepping onto the portals of DAV College Bathinda on October 28, 2015 would not only raise DAV Bathinda to an educational institution par excellence, but also touch the deepest chords of every being's heart. From a humble background, he rose to prominence through his sheer hard work, dedication and a vision of a bright future for all those associated with him.

Dr. Sanjeev Sharma was the "Energy Station". His whole being resonated with perseverance, commitment, integrity and above all compassion. His diligence and encouraging words motivated everyone around him and knew for sure that the task would be accomplished. Through

his sheer hard work, he made himself indispensable on all fronts of DAV fraternity. His brief but incredible journey made people from all sections, be it the higher officials, his friends, the teaching and the administrative staff in the college, the students in the classrooms or the multitasking staff on the campus rely on him for championing their causes, giving effective solutions, acknowledging each one's help and making the other feel special and valued. His compassion, warmth and care was limited not only to the people he worked with, but extended even to their family members.

His unfortunate demise shattered everyone and not a single soul was spared who did not shed a tear for him. Little can be done to match his sacrifices and hard work which transformed DAV Bathinda. A virtual prayer meeting was organized to condole his death. The "Botanical Garden and the Girls Common Room" in the college has been named after Dr. Sanjeev Sharma, a tribute to a man, always on the run, running for the benefit of the institution, its members and for the society at large.

He was a lamp lighting the darkness in the abyss and a harbor providing a haven for the troubled souls. Deeply affected by Dr. Sharma's death, DAV Bathinda has numerous reasons to feel proud of this awe inspiring personality- when he sat down with the faculty members in protest against the demolition drive by Municipal Corporation, when he with his herculean efforts gave a total facelift to the college, accomplished the mammoth task of acquiring impressive NAAC grade for the college or raising his voice for his contractual staff on social media, the instances are many..... The loss is too great to be expressed in words!!

You are admired beyond words and will be missed beyond measure Sir!! We bow to you in salute.  
Rest in Peace. Amen.



# NEW VENTURES

## D.A.V. COLLEGE BATHINDA AND M.R.S. PUNJAB TECHNICAL UNIVERSITY SIGN MEMORANDUM OF ACADEMIC SUPPORT

*“That's the beauty of starting lines: Until you begin a new venture, you never know what awaits you.”*

*- Amby Burfoot*

On March 16, 2021, DAV College, Bathinda signed a Memorandum of Academic Support (MoAS) with Maharaja Ranjit Singh Punjab Technical University, Bathinda (MRSPTU). The MoAS complies with one of the DBT Star Scheme's objectives to link with neighbouring institution, thus promoting cooperation between the institutions in the field of education, research, and development.



The MoAS was signed by a committee comprising of Dr. Gurinderpal Singh Brar, Registrar MRSPTU, Bathinda, Dr. Savina Bansal, Dean Academic Affairs, MRSPTU, Bathinda, Sh. Parveen Kumar Garg, Principal (Offg.), DAV College Bathinda, and Dr. K. K. Nohria, Chairman, LMC, DAV College Bathinda.

This linkage aims to promote innovation, research, and quality teaching in varied disciplines; enhance academic interchange between the two institutions like sharing facilities of library/labs as per the concerned institute's norms. The faculty and research scholars of both the institutions will be jointly able to organize seminars, conferences, workshops, thereby acquaint themselves with the recent research domains. The committee opined that it would also improve the admission scenario and the young stakeholders would benefit from the expert guidance to pursue higher studies and quality research.

The Officiating Principal, Sh. Parveen Kumar Garg appreciated the cooperation of Prof. (Dr.) Buta Singh Sidhu, Vice-Chancellor, Dr. Savina Bansal, and Dr. Sandeep Kansal, Director IQAC, MRSPTU, for their constructive role in making this a successful venture. He stated that MRSPTU, Bathinda being a premier technical institute of the Govt. of Punjab, has been set up to address the spontaneous upswing in demand for quality of technical education. He further added that this cooperation would broaden students' horizons and ameliorate knowledge repository of the faculty of these institutions.

## INAUGURATION OF INNOVATION HUB



Aspiring to provide the best of facilities and infrastructure under one roof, an Innovation Hub has been set up in the Department of Physics under the DBT STAR College scheme. The honourable guests present on the inauguration ceremony were the Chief Guest Dr. Buta Singh Sidhu, Vice Chancellor Maharaja Ranjit Singh Punjab Technical University, Bathinda, Guest of Honour Dr. Surjit Singh, Principal Govt. Rajindra College, Bathinda, the Chairperson, Local Managing Committee, Dr. K.K.Nohria and DAV School

Principal Sh. Parmod Khusrija. The Members of Retired Teachers' Association also graced the occasion with their presence.



The Officiating Principal Prof. Parveen Kumar Garg stated that innovation hub, which is the first of its kind in the region has been materialized due to the tireless efforts of the faculty of the Science Departments who left no stone unturned in fetching the DBT Star College Scheme and this inauguration is the fruition of their efforts.

The Chief Guest Dr. Buta Singh lauded the efforts of Dr. Kulwinder Singh Mann and his entire team for setting up the state-of-the-art innovation hub. He said that we are living in an era, wherein our youth need to be groomed in

accordance with globally changing education scenario. Innovation Hub is thus a step taken in this direction which will undoubtedly ignite passion amongst the students towards science.

Dr. Kulwinder Singh Mann, Coordinator, DBT Star College Scheme dwelt on the 25 experiments set up in the innovation hub, which are interesting and dynamic in nature. He said it is very important to teach young students that physics is an integral part of our lives. Therefore the gap between learning and applying it in our daily lives ought to be bridged.

## REVAMPING OF LIBRARY READING HALL

Addressing the need of the students of a positive learning environment, the college library reading hall has been revamped by installing air conditioners. The modernized look of the library reading hall creates a prolific ambience, thus providing a comfortable zone for the students and the faculty to study. This project has been materialised with the support of the Revenue Minister Sh. G.S. Kangad for extending a generous sum of ₹ 5 lac.



## RUNNING TRACK



ਮਾਂ ਖੇਡ ਕਬੱਡੀ ਨੂੰ ਸਮਰਪਿਤ  
ਕਬੱਡੀ ਕੋਚ ਕੁਲਦੀਪ ਸਿੰਘ (ਜੱਟ)  
ਮੈਮੋਰੀਅਲ ਖੇਡ ਮੈਦਾਨ  
ਡੀ.ਏ.ਵੀ. ਕਾਲਜ ਬਠਿੰਡਾ

“Health is Wealth.” The core truth of this dictum has been understood by every soul during these pandemic times. Thus paying utmost attention towards the health of the students and the staff, the college sports ground has been leveled and a 400 metre running track has been made ready. DAV College has the only 400 meter running track in this area.

## ONLINE FEE PAYMENT



With the incessant efforts of more than four months, the college has fulfilled the long pending demand of the students to initiate the fee payment by online mode. For this purpose the college has entered into a collaboration with Axis Bank. Students can now pay the fee via UPI, PhonePe, Paytm, GPay, QRcode, etc. They can also deposit the fee in any branch of Axis Bank of India.



## RESTART OF DAV CRICKET ACADEMY



Cricket Academy ,which was closed for a while due to the pandemic, has been restarted under the guidance of Mr. Mohanty, BCCI, level one coach. Demonstrating a keen interest in the sport, the students come in the evening for cricket training.



# DBT STAR COLLEGE SCHEME

*"A dream becomes a goal when action is taken towards its achievement." – Bo Bennett*



Department  
Bio Technology,  
Government  
of India

सत्यमेव जयते

## INNOVATION HUB

An innovation-hub, under the DBT STAR College scheme, with 25 interesting experiments was set up at the Department of Physics, DAV College Bathinda on December 23, 2020. All the experiments have been designed with an aim to inculcate greater interest in practical physics and to make it easier for students to grasp various important concepts.

The experiments were setup and demonstrated by Prof. Y.K. Vijay (Professor (Retd.), University of Rajasthan, Jaipur) and his team. The live demonstration was attended by the Officiating Principal, Shri Parveen Kumar Garg, faculty members of all science departments and class representatives of B.Sc. classes. This initiative of creating low cost experiments to demonstrate various complex physics concepts was taken by Late Prof. Babu Lal Saraf (Professor, University of Rajasthan, Jaipur). Having worked under his guidance and inspired by him, Prof. Y.K. Vijay carries forward this legacy of making teaching and learning of Physics a fun experience. All the experiments are interactive and dynamic in nature.

Prof. Vijay emphasised on learning while playing. He said it is very important to teach young students that Physics is everywhere around us in our daily lives. They must keep learning Physics from their surroundings and think practically. Such an approach of teaching and learning beyond books is even more relevant today, as a significant decline has been observed in students' interest in basic sciences.

Efforts of the Physics Department in setting up this innovation hub, first one of its kind in the region, were lauded by the college administration and all the faculty members.



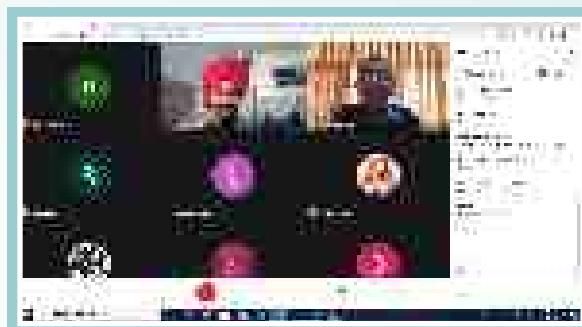
# WEBINARS ORGANISED UNDER DBT

## DBT STAR COLLEGE SCHEME

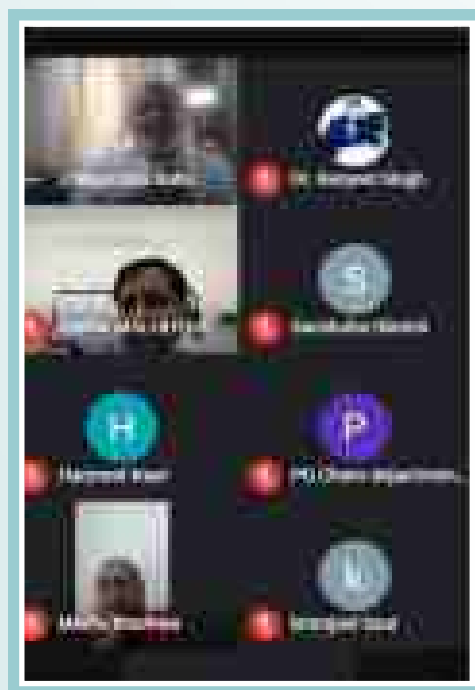
The resource person of the webinar was Dr. Rajiv Khosla (Head, Department of Biotechnology, Coordinator, Star College Status Scheme and a member of the Advisory Committee of DBT Star College Scheme). Dr. Rajiv Khosla shared his experiences and expertise of DBT Star Scheme for its effective implementation in the college. Deftly answering various queries of the faculty regarding utilization of funds, organizing extension activities and outreach programmes, he elucidated on how to use DBT grant under various heads efficiently and in a fool proof manner. Dr. Khosla also discussed about the on-line teaching learning techniques during the COVID-19 pandemic.

## TWO DAYS WEBINAR ON SPREADSHEETS AND VIRTUAL LABS

The resource persons Dr. P.K. Ahluwalia, Prof. (Retd.), Himachal Pradesh University, Shimla and Dr. Sapna Sharma, Assoc. Prof., St. Bede's College, Shimla delivered lectures on "Teaching With Virtual Labs And Enhancing Computational Skills Using Spreadsheets". The experts highlighted the importance of Information, Communication and Technology (ICT) in teaching and learning, especially during the times of pandemic. They also encouraged the students to pursue various online courses available on platforms like MOOCs, edX, Udemy, Coursera, etc. Experts were of the view that though virtual labs are very useful in demonstrating important concepts, they cannot replace traditional labs. The webinar was attended by around 80 participants.



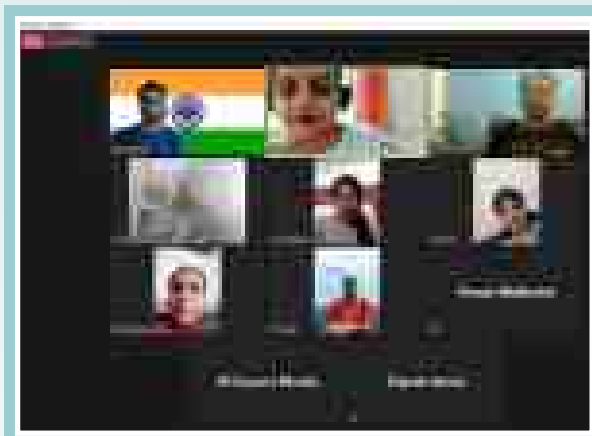
## WORKING TOWARDS IMPROVING AIR QUALITY INDEX



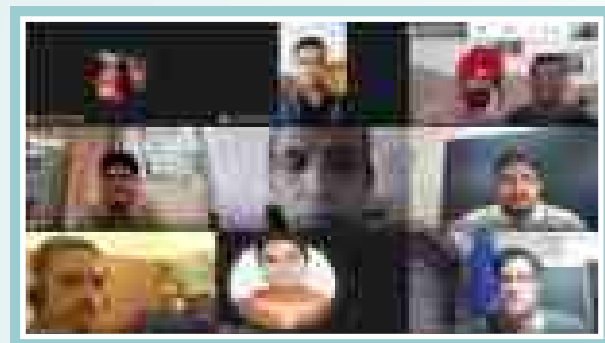
The Post Graduate Department of Chemistry, organised a Webinar on "Semi-Volatile Organic Compounds in Ambient Atmosphere". The resource person Dr. J. Nagendra Babu (Centre for Chemical Sciences, School of Basic and Applied Sciences, Central University of Punjab) sensitized the young minds towards the various volatile compounds which are the cause behind the deteriorating air quality. He also suggested some remedial measures which can be used to control the pollution levels. He inspired the students towards the need of further research in related studies in order to analyse and improve Air Quality Index (AQI). As many as 113 participants, including the faculty and the students, attended the webinar.

## BIOINFORMATICS AND COVID-19

The Department of Physics in collaboration with the Botany department organised a one day webinar on “Bioinformatics : An Ocean of Opportunities to Leverage During Lockdown”. Dr. Felix Bast (Associate Professor, Central University of Punjab, Bathinda) was the resource person on the occasion. Dr. Felix Bast expounded upon Bioinformatics and Corona virus. He also talked about the modern vaccine, phylogenetic trees and bar coding. He explained how by using data tool and gene sequencing in bioinformatics field we can generate vaccine. He also made the participants aware on how masks and social distancing can avert corona dangers. As many as 74 participants attended the webinar.



## RADIATION EXPOSURE AND HEALTH EFFECTS

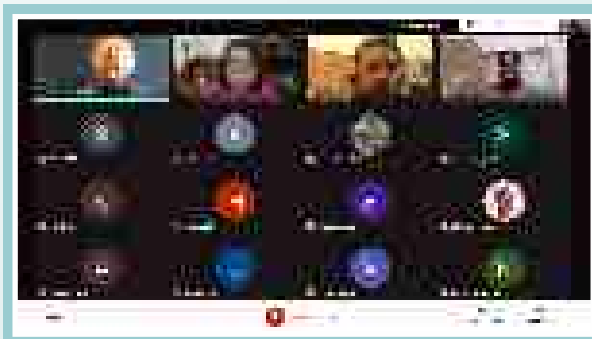


The Department of Physics organized a webinar on “Radiation Exposure and Health Effects”. The resource person on the occasion was Dr. Sandeep Kansal (Associate Professor, MRSPTU, Bathinda) who is also the mentor for DAV College under STAR College Scheme. Dr. Kansal delivered an interesting lecture on radiation exposure received from our surroundings. A number of misconceptions were addressed regarding radiation exposure during various diagnostic scans

such as PET scan for cancer treatment, CT scan, X-Ray scan etc. and medical treatments such as chemotherapy. The audience was astounded by the fact that we are more exposed to certain type of radiations indoors rather than in open environment. Most of the building materials emit radiations, resulting in higher concentrations in a closed environment. Dr. Kansal also motivated students to pursue career in medical physics and suggested various career options after graduation. The webinar was attended by around 110 participants.

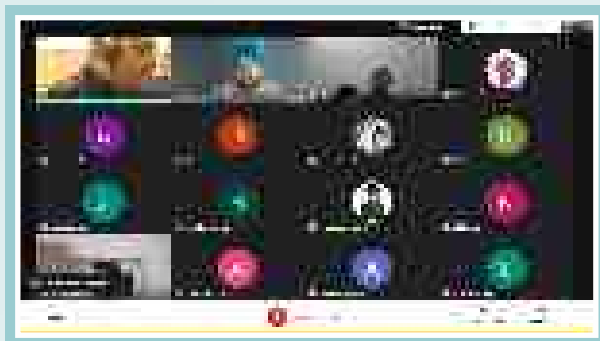
## CONSTRUCTIVISM AND LEARN BY DOING PRACTICALS

The Department of Physics organised a webinar on “Constructivism and Learn By Doing Practicals” for UG students. The resource person on the occasion was Ms. Sarmistha Sahu (Coordinator AMMANI-IAPT Anveshika, Associate Professor (Retd.), Department of Physics, MLAC, Bengaluru, Karnataka). She demonstrated various basic concepts in Physics with very simple experiments and emphasised on learning through experiments and practice



and discouraged cramming from textbooks. Students actively participated in the lecture and simultaneously performed the experiments as directed by the demonstrator. Ms. Sahu was delighted to see great enthusiasm among students to learn. The webinar was attended by 60 participants.

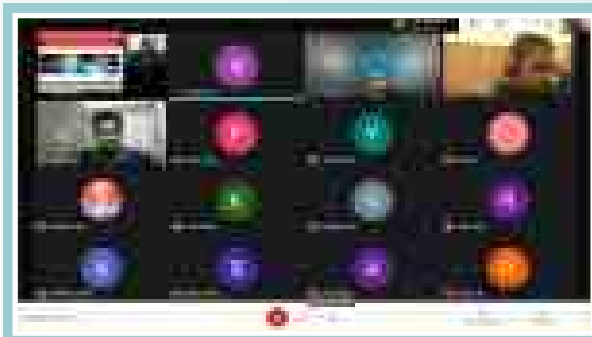
## SEMICONDUCTOR DEVICES: INNOVATIONS, CURRENT TRENDS AND CHALLENGES



The Department of Physics organized a webinar on “Semiconductor Devices: Innovations, Current Trends and Challenges”. The resource person Dr. Harsupreet Kaur (Assistant Professor, Department of Electronic Science, University of Delhi) demonstrated various basic concepts in electronics. She emphasised on applicability of electronics in our day to day lives. She also introduced to the students, vast research avenues in the field of electronics. The webinar was attended by 52 participants.

## INTRODUCTION TO RESEARCH JOURNALS

The Physics Journal's Club organized a one day interdisciplinary webinar on “An Introduction to Research Journals for Undergraduate Science Students”. The resource person Dr.Sushil Kumar (Associate Professor, Department of Physics, Editor of Journal of Nuclear Physics, Material Sciences, Radiation And Applications, Chitkara University, Chandigarh) elucidated on the basic structure of research articles, journals, blogging and academic search engines. He also explained the importance of keywords, plagiarism check and advised to be wary of paraphrasing. He mentioned various resources to search relevant open access journals. When asked about downloading full research papers for free, he explained that majority of quality research articles are available on indiarxiv.org. The webinar was attended by 63 participants.



## AN INTRODUCTION TO RESEARCH TOOLS FOR UG SCIENCE STUDENTS



Department of Physics organized an interdepartmental webinar introducing research tools useful for UG science students to enhance their technical and analytical skills.

The resource person Dr. Rudra Rameshwar (T.I.E.T., Patiala) started his presentation by introducing many prospective careers in fields like Business Intelligence, Advanced Analytics, Data Integration, Data Engineering, and Data Science. He dwelt upon the basic structure of a Research Article and threw light on the importance of each section. He further elaborated on

many useful academic research tools to enhance the learning skills of students, viz. Google Scholar, Grammarly, DOAJ, Cite Seer X, Web of Science, BioOne, Research Gate, DataElixir, MiniTab, Open Office, Inflibnet, Shoudhganga, OriginPro, Mendely, etc. He emphasized that research scholars should use only authentic

plagiarism check software like Turnitin, Urkund, etc., and avoid the freely available plagiarism check software which might copy their research data. While answering the participants' queries, Dr. Rudra gave relevant information about finding a funding agency and a research supervisor. A live demonstration of many of the research tools was provided. A total of 182 participants joined the webinar.

## SURFACE INTERACTIONS FROM MOLECULES TO MATERIAL

On the occasion of National Science Day, the Post Graduate Department of Chemistry, invited Dr. J. NagendraBabu (Central University of Punjab, Bathinda) as the Guest of Honour. He interacted with the students and gave a talk on the topic "SURFACE INTERACTIONS FROM MOLECULES TO MATERIAL". In his lecture he emphasized on the practical implications of surface interactions and how they can be explored for the removal of toxic metals present in water. He gave significant tips on how chemistry can be used for the advancement of technology even at undergraduate level.

## SCHOLARSHIPS FOR HIGHER STUDIES IN SCIENCES

The Department of Physics organized a webinar on "Scholarships for Pursuing Higher Studies In Sciences." The resource person on the occasion was Prof. (Dr.) Sandeep Kansal, Director, IQAC, MRS Punjab Technical University, Bathinda. He is also the mentor of the Physics Department of DAV College under the DBT STAR College Scheme. During the webinar, Prof.Kansal discussed various scholarship programs of the Government of India and other scholarships for higher studies in basic sciences. Students greatly benefitted from the session as they learnt about the many options available globally for pursuing higher studies in the sciences.

A mentor meeting with the staff was followed by the webinar. Prof Kansal visited the college premises to attend the mentor's meeting with the DBT-team of the Department of Physics. He was delighted to see the Innovation Hub set up in the department and stated the importance of learning basic concepts of Physics through low-cost and straightforward experiments. He also suggested upgrading of other labs on the lines of the innovation hub. He gave his positive feedback after discussing various experimental demonstrations in the innovation hub. He showed how to display various parts of equipment and apparatuses to be readily utilized. While reviewing the activity-register and a list of activities organized recently, he congratulated the DBT-Team for carrying out a range of activities, even in the times of pandemic. He suggested organizing a workshop on academic writing with MS Word and innovation festival cum exhibition. He offered to arrange a laboratory excursion followed by an interactive session between the UG students and research scholars of the MRSPTU, Bathinda.



# ACTIVITIES/WORKSHOPS/VIRTUAL TOURS ORGANISED

## ONLINE ALL INDIA POSTER MAKING CONTEST

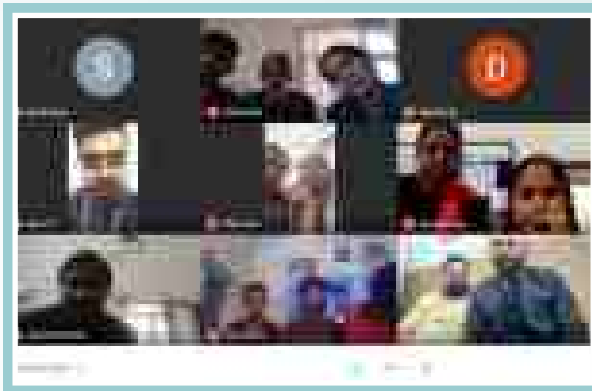
The Department of Physics, organised an online poster making contest to commemorate the 89th birth anniversary of the “Missile Man of India” Dr. APJ Abdul Kalam. The theme of the contest was “India's Nuclear and Space Program”. The aim of the activity was to acquaint students with the contributions of Dr. Kalam made towards India's achievements in the fields of nuclear and space technology. A total of 87 registrations were received from across the country. Out of all the competitive entries the best three were selected for a cash prize of Rs. 500 each. The three posters selected were made by Priyanka Sharma (HMV Sr. Sec. School Jalandhar), Yojana Sharma (DAV College Bathinda) and Misha (HMV Sr. Sec. School Jalandhar). E- Certificates were awarded to all the participants, who made valid entries to the contest.

## ONLINE INTERSCHOOL “SCIENCE QUIZ”

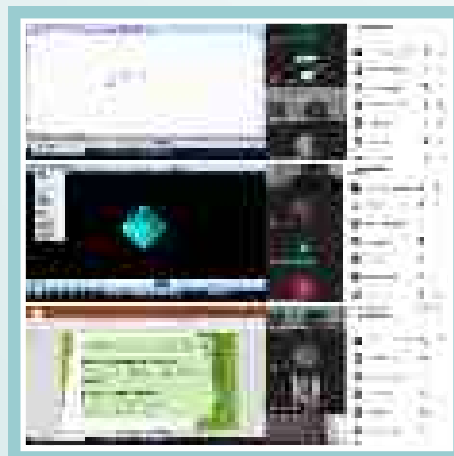
The Post Graduate Department of Chemistry organized an Online Interschool “Science Quiz” competition for 11th& 12th classes. A total of 18 teams were registered for this competition from Bathinda and its adjoining areas. An online screening test was also conducted to shortlist the top five teams.

The event had a total of five rounds, viz. general round, visual Round, subject specific, buzzer round and rapid fire round. Malwa School (Gidderbaha) secured first position, Baba Farid

Sen. Sec. School (Deon) secured second & Institute of Agriculture (Bathinda) secured the third position. The GSSS Bahadaur Boys (Barnala) & St. Kabir Convent Senior Secondary School (Bhucho) were the runners-up.



## ONE DAY WORKSHOP ON 'CHEM-SKETCH'



The Post Graduate Department of Chemistry organized a One Day Workshop on 'Chem-Sketch'. Dr. Bhupinder Kaur, Assistant Professor, Department of Chemistry, Akal Degree College, Mastuana Sahib and Dr. Paramjeet Kaur, Assistant Professor, Department of Chemistry, DAV College, Bathinda, were the resource persons. They interacted with the students on the topic 'Chem-Sketch'. Dr. Bhupinder Kaur along with Dr. Paramjeet Kaur enumerated on how to operate the software “Chem-Sketch” with greater efficacy which is beneficial not only for the students but the teachers as well in promoting innovative teaching-learning methods. They also familiarized the students with the software by citing examples and answered their queries. As many as 40 participants were

registered for the event which included the faculty and the students.

## ONE WEEK WORKSHOP ON “MICROSOFT EXCEL, TOOL FOR ENHANCING MATHEMATICAL AND COMPUTATIONAL SKILLS”

Department of Physics organized a One Week interdepartmental workshop on “MS-Excel/Spreadsheets, a tool for enhancing mathematical and computational skills”. During the workshop students were given training on optimal use of spreadsheets in dealing with various kinds of problems of computational sciences. Prof. (Dr.) P.K. Ahluwalia (Retd.) Professor, Himachal Pradesh University, Shimla delivered a very informative lecture on developing mathematical and computational thinking in science students. Other resource persons in the workshop were Dr. Sapna Sharma, Associate Professor, St. Bede's College, Shimla and Dr. Sarmistha Sahu, Coordinator AMMANNI-IAPT Anveshika, Associate Professor (Retd.), Department of Physics, MLAC, Bengaluru, Karnataka. Students participated in the workshop enthusiastically and acquired skills to solve problems and study graphs using spreadsheets. Of the 79 registrations received, 52 participants including faculty from neighbouring institutions attended it completely.



## TWO DAYS WORKSHOP “ON ELEMENTS OF SURPRISE”



The Post Graduate Department of Chemistry organized a two days workshop on the topic 'Elements of Surprise' for undergraduate students. Dr. J. Nagendra Babu, Central University of Punjab, Bathinda, was the Chief Guest on the occasion. On the first day of the workshop, around 30 students were given hands on training on various topics which included food adulteration, chemicals in fireworks (sugar snake), pH sensitization, qualitative analysis of biomolecules and various gases by Dr. Parveen Bala and Dr. Paramjeet Kaur. The second day of the workshop included a demonstration series by the students based on the training imparted to them on the first day of the workshop. The demonstrations were

conducted under the supervision of Prof. Aman Malhotra and Dr. Neha Jindal.

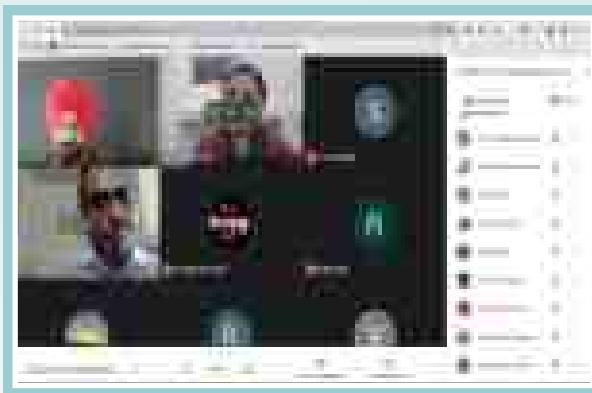
Dr. Nagendra Babu, Mentor for Post Graduate Department of Chemistry under DBT Star College Scheme appreciated the theme and topics covered in this event. He also gave pertinent tips on the various technicalities of the sophisticated instruments during the workshop.

## ONE DAY TRAINING PROGRAM FOR LABORATORY STAFF

The Department of Physics, organized a one day training program for the laboratory staff for maintenance and upkeep of equipments like diodes, transistors, rectifiers, and power supply etc. The resource person Mr. Sukhvinder Singh (Coordinator, NIERT, Patiala) gave hands on practical training to all laboratory staff members of Physics, Chemistry, Zoology, Botany and Computer departments on how to fix common problems with electronic equipments used in the labs. He elaborated on the various technical skills to the lab staff for checking and rectifying the problems in the circuits of these equipment. During this program, the basic soldering techniques were also taught to the lab staff. He also mentioned various tricks and ways in which the shelf life of electronic equipment can be increased. This training was much needed as a lot of old equipment/apparatus in the labs required frequent checks for their maintenance and not generally viable to repair.

## VIRTUAL TOUR OF OPTICS LAB, TIFR, MUMBAI

The Department Of Physics organized a Virtual tour of Optics Lab at Tata Institute of Fundamental Research (TIFR), Mumbai. The tour was facilitated by Dr. Venu Gopal Achanta, Professor, Department of Condensed Matter Physics and Material Science, TIFR, Mumbai. Dr. Gopal discussed basic concepts of optics and associated laboratory equipment. He then gave a tour of fully equipped optics lab at his institution. He also explained in detail about the applicability of various equipments in optics experiments. The tour was attended by 153 participants.



## VIRTUAL TOUR TO SAIF/CIL/UCIM LABS AT PU CHANDIGARH



The Department of Physics organized a virtual tour to Sophisticated Analytical Instrumentation Facility at Panjab University, Chandigarh on 11th December. The tour was facilitated by Dr. Ganga Ram Chaudhary, Honorary Director, SAIF/CIF/UCIM, PU Chandigarh. Dr. Choudhary gave a brief overview of various facilities available in their department and described how innovative ventures are undertaken by their faculty and students which has made the SAIF as one of the best among 16 such facilities in India. All the instruments are very costly and require a highly trained staff for operation. Mr. Tejbir Singh efficiently managed the tour. Ms. Anitha MB, Electron Microscopist at the department explained in detail the functioning of a Scanning Electron Microscope and its various applications. Dr. Rajendra Singh, Senior Scientific Assistant explained the latest technology of High Resolution Transmission Electron Microscope. Dr. Gopal discussed basic concepts of optics and associated laboratory equipment. Details about how one can get their scientific samples analyzed at this facility, were also described. The tour was attended by 189 participants.

## INDUSTRIAL EXCURSION

An industrial visit to P.P. Industries and Aggarwal Corrucrafts Pvt. Ltd, Bathinda was organized for students of all B.Sc. classes. P.P. Industries is a pioneer in devising transformers of all types. Students had the opportunity to witness manufacturing of commercial transformers, which they had only studied in the books. They were enthralled to learn that how much labour goes into manufacturing of each component of a transformer. The trip to the transform manufacturing unit was an exhaustive one, as students learnt rationale behind various specifications of a transformer. Mr. Sardool Singh, an instructor with 25 years' experience had demonstrated and described all the sections of the industry.



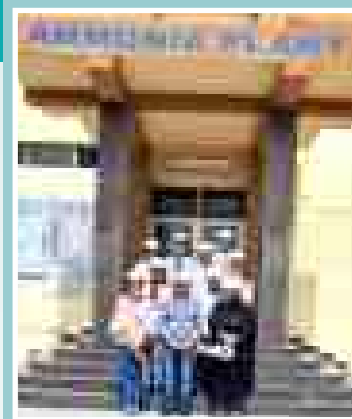
The second industry visited by the students was Aggarwal Corrucrafts Pvt. Ltd. It is a corrugated box factory. Students were excited to learn that how a single sheet of paper can be built into a box of much greater strength.



The production manager acquainted the students with career opportunities in packaging industry after B.Sc. He described that IIP (Indian Institute of Packaging) offers two years' diploma in packaging to science graduates. The excursion was thoroughly enjoyed by 52 students.

## NATIONAL FERTILIZER LIMITED PLANT

An industrial visit was organized by the Department of Chemistry on 19th March, 2021. Eight students visited the National Fertilizer Limited plant accompanied by 2 faculty members. The HR member of NFL Mr. Mayank, accompanied the students to the five major sections of the plant who were acquainted with the various processes involved from preparation, storing and bagging of urea through ammonia.



# INTERNAL QUALITY ASSURANCE CELL

## *Online Capacity Building Programme*

The Internal Quality Assurance Cell organized an online one day Capacity Building Programme on "Online Teaching Learning Techniques" (12/08/2020). The distinguished resource person Dr. Akanksha Jain (Department of Commerce, PGDAV College, New Delhi) was welcomed by the Principal Prof. Parveen Kumar Garg and the then IQAC Coordinator Dr. Kusum Gupta.

Prof. Parveen Kumar Garg in his welcome note stated that Dr. Akanksha is well versed with the success mantra which requires the attributes like strategic human resource management, role of collaboration and various other motivational factors. He said that during these trying times of the pandemic, DAV fraternity is proud and fortunate to have erudite resource person who will expound on the most relevant and sought after issue, that is, the prudent use of technology in our teaching-learning process. He also thanked Dr. Kusum Gupta for understanding the dire need of the situation and organizing a capacity building programme on online teaching learning tools.

Dr. Akanksha during the capacity building programme expounded on various tools for effective teaching learning process. She elaborated on diverse online tools like Google Meet which has many useful features like Meet Attendance, Share Site, People Icon, Chat, Record Meeting and many more. She also discussed at length on the Chrome extensions, like Meet Attendance, Nod Reactions, Highlighter, Jamboard, etc. She discussed the practicality of these features by sharing her experiences of the Delhi University Faculty with regard to online teaching and stated that online teaching has paved way for one to connect with learners and teachers regardless of their geographical location.

The faculty of the college raised many queries regarding these online teaching learning tools and made the session interactive and interesting.

The Vote of Thanks was proposed by Dr. Kusum Gupta. She thanked Dr. Akanksha profusely for enlightening the faculty and the students about the online teaching techniques. She said that online teaching requires different methods from the traditional classroom, therefore, this programme will surely help the faculty adapt and develop their skills to the online teaching learning environment and make their teaching effective and engaging for learners.

# CAREER COUNSELLING AND PLACEMENT CELL

*"The mode by which the inevitable comes to pass is effort." – Oliver Wendell Holmes, Jr.*

*(DEAN CAREER COUNSELLING AND PLACEMENT CELL: DR. PARVEEN BALA)*



The Career Counselling and Placement Cell in collaboration with the Department of Chemistry, organised a Placement Drive by Vivachem Intermediates Private Limited Chemicals. A total of 13 students of B.SC Medical and Non-Medical were shortlisted for the interview. Out of these shortlisted students, 08 students have been offered placement by the leading company. The selected students are Deepak Garg, Kuldeep Singh, Karan Bansal, Arun Sharma, Vikas, Diwanshu, Jashanpreet and Harshit Garg.

# DEPARTMENT OF PHYSICAL EDUCATION

*"Win If You Can, Lose If You Must, But NEVER QUIT!"-Cameron Trammell*

*(HEAD, DEPARTMENT OF PHYSICAL EDUCATION: PROF. KULDEEP SINGH)*

## SANDEEP SINGH WINS GOLD IN NATIONAL WRESTLING CHAMPIONSHIP

Sandeep Singh brought laurels to the college by winning a gold medal in the 74 kg weight category at the 65th Men's Freestyle Senior National Championship at Noida. He clinched this medal by defeating Narsingh Yadav, Jitendra Kumar, Amit Dhankad, Praveen Rana and Gaurav Baliyan.



## GURJOT ARORA SETS NEW JUNIOR NATIONAL RECORD IN NATIONAL POWERLIFTING CHAMPIONSHIP



Gurjot Arora (M.Com II) won a gold medal in the Junior National Powerlifting Championship 2021, held at Gazipur, from March 17-21, 2021. He won a gold by competing in the 74 kg weight category, and set a new junior national record.

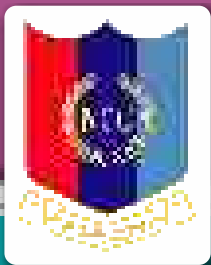
## JOTIKA KALSI WINS SILVER IN ALL INDIA UNIVERSITY GAMES, CHENNAI

Jotika Kalsi, won a silver medal in the women hockey in the All India University Games, held at Chennai. Presently she is a proud team member of Indian Junior Women's Hockey Team.



## BALJEET KAUR PLAYS FOR JUNIOR WOMEN'S HOCKEY TEAM

It was a proud moment for Baljeet Kaur of DAV College Bathinda to be included in the Indian Junior Women's Hockey Team and play in the test series against Chile (08/01/2021- 26/01/2021) at Santiago.



## NCC

*"Motivation gets you going but discipline keeps you growing"*  
(NCC OFFICER: PROF. MUNISH JINDAL)

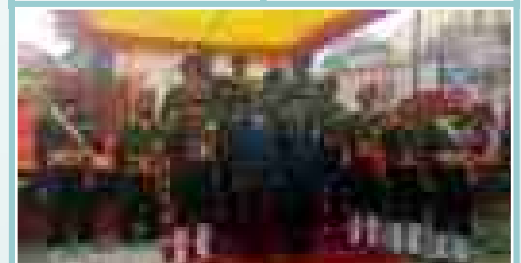
## CELEBRATION OF GOLDEN JUBILEE OF 1971 WAR

To commemorate 50 years of the 1971 war and mark 2021 as 'Swarnim Vijay Varsh' (golden victory year), the "Victory Flame" traversing the country as part of the golden jubilee celebrations of the 1971 Indo-Pak war victory, was brought to DAV College Bathinda by the Indian Army in collaboration with the district administration.

A grand reception was organised and the Guard of Honour was accorded to the 'Victory Flame' on its arrival at the venue.

The Officiating Principal Prof. Parveen Kumar Garg welcomed on the college precincts, GOC Lt. General M.K.Mago YSM SM, under whose supervision the ceremonial event was organized, Indian Army Brigadier Raju Batra, Sh. Rajdeep Singh and Sh. Paramvir Singh (ADCs from District Administration), war veterans and the war widows.

Patriotic songs were sung to commemorate the occasion. Homage was paid to the soldiers who had made a supreme sacrifice for the nation. The war veterans and the war widows were honoured with mementoes and shawls.



## NCC CADETS PARTICIPATE IN THE REPUBLIC DAY PARADE

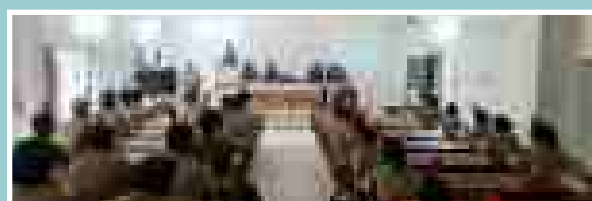
The NCC cadets of the college participated in the Republic Day parade at Govt. Rajendra College, Bathinda. 10 NCC cadets of the college, namely, Harsimran Kaur, Jasmine Kaur, Kiranjeet Kaur, Mehakpal Singh, Rishav, Chetanya Singla, Aniket Doi, Manminder Singh, Ankit Kumar and Gurvinder Singh displayed extraordinary aptitude under the able guidance of Col. Jeyvendera Singh, Commanding Officer, 20 PbBn, NCC Bathinda, Subedar Ashwani Upadhyay and NCC Officer Prof. Munish Kumar.



## 5 DAYS ATC NCC CAMP

Under the aegis of 20 PbBN NCC Bathinda, five days 98th ATC inter college camp was organized at the college.

**Day 1:** The Officiating Principal Prof. Parveen Kumar Garg inaugurated the camp and elaborated on the significance of the camp. Addressing the cadets, he said that NCC is the best training ground for those who want to join army. He further added that discipline in life helps one to lead a healthier emotional life that promotes the development of self-motivation, self-control, personality, and decision-making process.



Subedar Rajesh Kumar Yadav of 20PbBN and GCI Mohini delivered a lecture on defence to the cadets. Hawaldar Mukesh and CHM Sushil Kumar gave pertinent information about the use of weapons to the cadets. The cadets enriched their trajectory of knowledge and evinced a lot of enthusiasm in the camp.

71 cadets of DAV College Bathinda, DAV College Gidderbaha and TDP College Rampuraphool participated in the camp.

**Day 2:** The 2nd day of NCC ATC camp witnessed the presence of Naval CO Mr. A.K.Pawar . He visited the camp to inspect and motivate the cadets. Addressing the cadets, he said that unity and discipline should be the key words of everyone's life which will lead us and our country to noble heights. The PI Staff imparted the cadets drill and weapon training.



**Day 3:** Motivational lectures on APJ Abdul Kalam, and lectures related to environment, drug abuse and stress management were delivered by the faculty members. ANO Munish Jindal and the faculty members namely, Dr. Amar Santosh, Dr. Amandeep Kaur and Dr. Neetu Purohit delivered the lectures.



**Day 4:** CO Col. K.S.Dudi, 20 PB BN inspected the functioning of the camp. His words, “How's the Josh”, infused vigour and enthusiasm amongst the cadets. They were also taught about the basic tenets of NCC which makes one a disciplined and responsible citizen.



### **Day 5: Concluding Ceremony of NCC ATC Camp**

The five days 98th ATC inter college camp organized under the aegis of 20 PbBN NCC Bathinda concluded on 26.02.2021. The Officiating Principal Prof. Sandeep Bhatia distributed the certificates to the NCC cadets. He in his address to the cadets talked about the significance of NCC in one's life. The ANOs of other colleges of Bathinda were also present on the occasion and delivered enriching lectures to the cadets. ANO Munish Jindal conducted the valedictory session. He thanked the 20PVBN for organizing this ATC camp and choosing DAV College Bathinda as its venue.



## **PARTICIPATION IN THE CLEANLINESS DRIVE OF SHAHID NAND SINGH STATUE**

Observing “Salute The War Heroes”, the NCC cadets under the supervision of 20 PbBn CO Col. K.S. Dudi, participated in the cleanliness drive of Shaheed Nand Singh's statue at FaujiChowk, Bathinda. The cadets talked about the glorious life of ShahidNand Singh, who was born in the village Bahadar Singh Wala. In March 1933, he joined Indian Army. In 1944 he won a gallantry award in the II World war and was bestowed with Paramveer Chakra in 1947 in the India-Pakistan War. They paid homage to the great martyr who had devoted his whole life to the service of the nation.



# NSS/STUDENT SUPPORT COMMITTEE

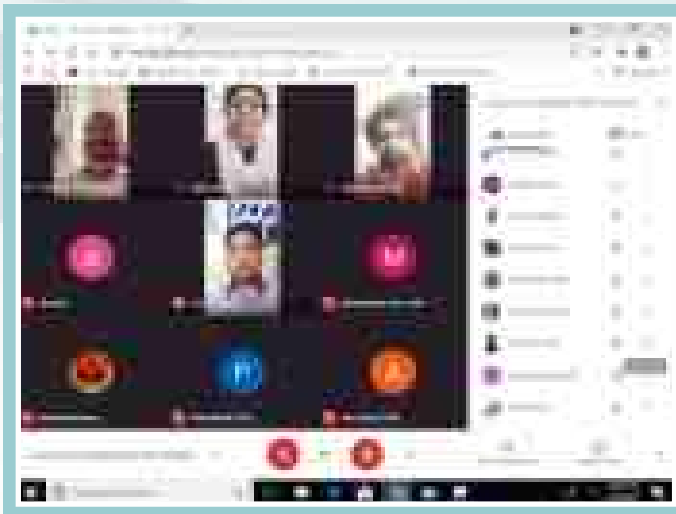
*"Give your hands to serve, and your hearts to love." - Mother Teresa*

(PROGRAMME OFFICERS: PROF. SATISH GROVER, PROF. KULDEEP SINGH, DR. SURINDER SINGLA)



## ONLINE LECTURE ON "HEALTHY DIET FOR WOMEN AND CHILDREN" BY DR. MANPARVESH SINGH CHAHAL

An online awareness lecture on "Healthy Diet for Women and Children" was delivered by Dr. Manparvesh Singh Chahal (Consultant Dietician, Care Hospital, Bathinda). Dr. Manparvesh Singh Chahal is a renowned dietician who provides services in various hospitals of Bathinda. He discussed in detail about the eating patterns and the health of women and children. Balanced diet, he stated is that which gives our body the nutrients we need, to function efficiently. It comprises of the right amount of proteins, vitamins, carbohydrates and minerals. He talked on various issues like weight loss, correct eating patterns, menopause health care, etc. The effective remedy for various health issues, he stated, is to avoid the habit of munching junk food and urged to introduce short meals in our daily routine.



## DR. AVNINDER SINGH'S LECTURE ON GURU TEG BAHADUR JI'S BIRTH ANNIVERSARY



To commemorate Guru Teg Bahadur Ji's 400th birth anniversary, the Student Support Committee and the NSS unit organised an extension lecture by Dr. Avninder Singh, Director General, Guru Gobind Singh Study Circle, Bathinda. Also present on the occasion were Dr. Romana and S. Balwant Singh Mann from Guru Gobind Singh Study Circle.

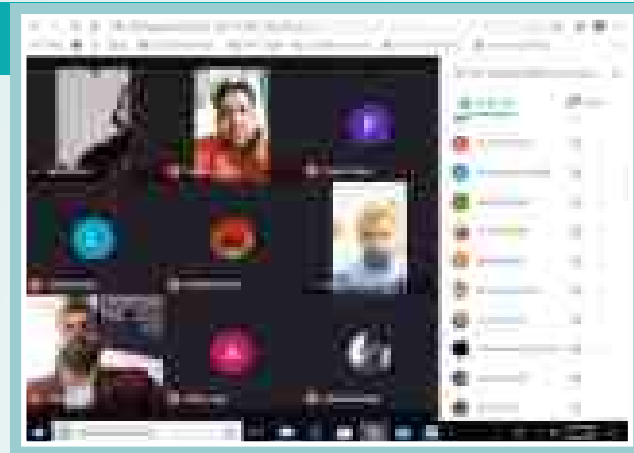
Dr. Avninder delivered an enlightening lecture on "Blissful Living and Mission Humanity". Citing examples of sacrifice from Guru Teg Bahadur Ji's life and his ideology of "Accept, Respect and Protect", he advised the students to follow into his footsteps and uphold the

ideals of righteousness and truth. He also exhorted one and all to raise their standard of giving rather than living.

Dr. Avninder distributed certificates to the participants of Youth Festival, organised by Guru Gobind Singh Circle on February 24, 2021 and boosted their morale.

## AWARENESS RALLY ON POLIO ERADICATION DRIVE

The NSS Department and the Students Welfare Committee organized an Awareness Rally on Polio Eradication Drive. Around 50 student volunteers along with their teachers took out a rally to create awareness on polio and the importance of administering polio vaccine to the children aged below five years. The rally was carried on the directives of the Department of Health and Family Welfare in a bid to raise alertness about polio immunization campaign for the next phase of pulse polio drive.



## WORLD AIDS DAY

The NSS Department observed World Aids Day in a virtual manner. An online lecture was delivered by Dr. Manparvesh Singh Chahal (Consultant Dietician, Care Hospital, Bathinda). Dr. Chahal in his lecture talked about how awareness can be created amongst people regarding HIV and AIDS and what measures should be taken to prevent its transmission. The lecture was attended by around 90 NSS volunteers.

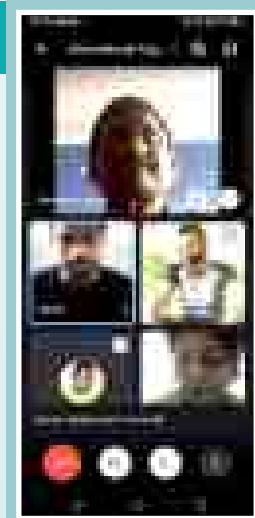
## ONLINE POEM WRITING COMPETITION DEDICATED TO THE 400TH BIRTH ANNIVERSARY OF SRI GURU TEGH BAHADUR JI

The NSS unit organised an online Poem Writing Competition observing the 400th birth anniversary of Sri Guru Tegh Bahadur Ji.

The students participated in large numbers to pay a tribute to the unparalleled and supreme sacrifice of Guru Ji for upholding the tenets of righteousness and truth. The students penned poems which brought to fore the various facets of the life and teachings of Sri Guru Tegh Bahadur Ji like “Jazba Teg Bahadur Ji Da”, “Guru Tegh Bahadur Ji” and many others. The first, second and third prizes were won by Lakshita, Navjot and Anamika respectively.

## VIRTUAL CELEBRATIONS ON INTERNATIONAL DAY OF YOGA

The Departments of NSS, Student Welfare and Physical Education celebrated the International Day of Yoga virtually in its true spirit and a befitting manner. Mr. Harsh Sharma (Masters in Yoga) made the students and the staff perform different yoga asanas which made every soul feel the fresh wave of energy and vigor radiate his whole being. Around 60 NSS volunteers and 20 faculty members participated with utmost zeal and vigour. Terming Yoga as “The union of the soul with God”, Mr. Harsh addressed the gathering on the issue of health and well-being and talked about the wider dissemination of information about the benefits of practicing Yoga all across the globe.



# ARYA SAMAJ COMMITTEE

(Coordinators: Dr.Monika Ghulla, Prof. Satish Grover)

## VIRTUAL CELEBRATIONS ON THE OCCASION OF HINDI DIWAS

Following the tradition of celebrating Hindi Diwas with much enthusiasm, the Department of Hindi in collaboration with the Arya Samaj Committee organized virtual celebrations on this occasion. As a part of these celebrations, a webinar was organized and a tribute to Mahatma Virajanand was also paid on his death anniversary.

The lecture was delivered by Dr. Hardeep Singh (Retd. S.C.D. Govt. College, Ludhiana). He delivered a lecture on the “Relevance of Hindi in the 21st century”. Expounding upon the relevance of Hindi Language in the 21st century, he stated that Hindi is recognized globally today and elaborated on the various fields where Hindi has made itself indispensable like translation, mass media and communication. He further stated that Hindi teaching has been made accessible even during COVID-19, with the emergence of various innovative pedagogical techniques. This has led to not only restricting Hindi to books but also relating it to technological skills. He also expressed his views on Swami Virjanand's contribution to Arya Samaj. Paying homage to Swami Virjanand, he stated that his contribution is considered immense as he was the Guru, the celebrated teacher of Swami Dayanand Saraswati. He was instrumental in leading Dayanand Ji towards fighting against superstitious beliefs and motivated him to work towards the revival of Vedic traditions, which led to the laying down of the foundation of Arya Samaj.

A poem recitation competition was organized, which brought to fore the creative rendition of the students. Ritika (BA II), Shiv (BA III) and Aranjot (BA II) secured first, second and third positions respectively, while Ashutosh Garg (BA I) received the consolation prize.

## BIDDING FAREWELL

### FELICITATION CUM FAREWELL TO DR. H.S. ARORA ON BEING APPOINTED AS THE PRINCIPAL, DAV COLLEGE GIDDERBAHA

It was a proud moment for one and all to witness the Head, Department of English Dr. H.S. Arora being appointed as the Principal of DAV College Gidderbaha. Due to the pandemic COVID-19, a small get together was hosted in the honour of Dr. Arora's farewell.

The Principal (Officiating) Prof. Parveen Kumar Garg expressed immense pleasure over his colleague and friend Dr. Arora being appointed on





this responsible position of the Principal. Articulating immense faith in his capabilities, Prof. Parveen stated that the attributes like those of patience, tenacity, perseverance and humility have enabled Dr. Arora to attain this respectable and responsible position. He congratulated Dr. Arora and extended best wishes on his donning the new mantle of the Principal, DAV College Gidderbaha.

The Staff Secretary Dr. Shishpal Jindal enumerated upon the long and the rewarding journey of Dr. H.S.Arora of more than 18 years at DAV College Bathinda. Dr. Arora served various important offices like Secretary Staff Council, Teacher Representative of the Local Managing Committee, Post-Graduate Studies Committee, College Development Council, Academic Council Committee, Editor-in-Chief College Magazine, Dean Research, Deputy Coordinator IGNOU Study Centre, Trained NSS Programme-Officer from Punjabi University, Patiala, Convener Press and Media Committee, Convener Time-Table Committee and many more. Dr. Jindal further added that Dr. Arora has always stood for a noble cause, radiated constructive and positive approach towards the establishment, performing all the duties faithfully and sincerely. He on behalf of the college staff wished Dr. Arora luck and best wishes for the promising journey ahead.

Dr. H.S. Arora in a heavy tone addressed his colleagues and thanked one and all for extending their wholehearted support and goodwill. He said, "The memories treasured in the precincts of DAV will provide me the fortitude and strength to execute my bigger responsibilities." He wished luck to all members old and new in their future endeavours and assured them of his support at all junctures of life.

Dr. H.S. Arora in a ceremonious manner handed over the charge of the Head, Department of English to Prof. Satish Grover. He wished her luck and stated that she would carry out her responsibilities with equal dignity and grace as she had done in past, be it, being Member Local Managing Committee, Assistant Coordinator IGNOU, Dean Examinations, Time Table Committee and Student Welfare, Chief Editor SANDEEP Magazine, "Editor Philomath" Journal, NSS Coordinator and many other responsibilities entrusted to her.

The Principal and the staff present on the occasion extended felicitations to both Dr. Arora and Prof. Satish Grover for assuming new responsibilities and expressed faith in their immense talent.

## EMOTIONAL SEND-OFF TO PROF. MAHESHINDER SINGH



It was an overwhelming occasion for the staff of the college when Prof. Maheshinder Singh, Department of Library Sciences retired on January 31, 2021. The college hosted a retirement party in honour of Prof. Maheshinder Singh and his family. The occasion was graced by the presence of his father S. Nachhattar Singh Tiwana, father-in-law S. Bilkar Singh Brar, mother-in-law Amarjit Kaur, brother S. Virdavinder Singh Tiwana and his wife Smt. Sukhjot Kaur and Prof. Maheshinder Singh's betterhalf Smt.

Rattandeep. The esteemed guests were accorded a floral welcome by the Officiating Principal Prof. Parveen Kumar Garg, Registrar Dr. Kusum Gupta, Staff Secretary Prof. Pawan Kumar and the faculty members.

Prof. Maheshinder Singh earned his degrees in B.Lib.Sc. and M.Lib.Sc. from Punjabi University, Patiala. He joined DAV College Bathinda on August 1, 1992 and dedicated 28 valuable years of his life to this institution. His talent,

superior intelligence and amiable nature procured him the honour of being the Staff Secretary for two terms, Youth Coordinator for three terms and General Secretary of PCCTU (Local Unit).

The Registrar Dr. Kusum Gupta read the welcome address and addressed him as a wonderful colleague who by the virtue of his wisdom and generosity has carved a niche for himself in everyone's heart.

The Officiating Principal Prof. Parveen Kumar Garg in an overwhelming manner talked about his dedication and integrity and his stellar achievements. He stated, "Prof. Maheshinder Singh is an institution in himself and he will be remembered for his guidance as a teacher, benevolence as a person and genuineness as a friend. He is a man of versatile genius."

It was a rare moment of joy and honour when the retired faculty members, namely, Prof. Varesh Gupta and Prof. Madan Lal spoke in honour of their dear friend and colleague Prof. Maheshinder Singh. Endearingly known as "Lali", Prof. Maheshinder Singh's domain of knowledge and virtues were expounded upon by the faculty members of the institution.

Prof. Satish Grover, Head, Department of English presented the Roll of Honour to Prof. Maheshinder Singh and dwelt upon his stellar performance as a teacher and as a colleague.

The Staff Secretary Prof. Pawan Kumar extended the Vote of Thanks and wished him a healthy, happy and a contented retired life.

The stage was conducted meticulously by Dr. Sukhdeep Kaur who made the entire gathering regale by narrating some hilarious and light hearted moments spent in the company of Prof. Maheshinder Singh.

The programme concluded with lunch laid out for the entire gathering.

## COLLEGE BUZZ

*"Give your dreams all you've got and you'll be amazed at the energy that comes out of you." – William James*

### PROF. PARVEEN KUMAR GARG COMPLETES ONE YEAR AS THE OFFICIATING PRINCIPAL

Prof. Parveen Kumar Garg, completed one year of his term as the Officiating Principal of DAV College Bathinda. He was handed over this charge on May 28, 2020 on the transfer of the Principal Dr. Sanjeev Sharma to DAV Institute of Management, Faridabad. Since his appointment in 1990 as lecturer in the Department of Commerce, Prof. Parveen Kumar has been working steadfastly and his sincerity and commitment has seen him rise to the honourable positions of HoD, Registrar, Vice Principal and the Officiating Principal. Since his joining as the Officiating Principal, he has been working committedly to address the demands of the students and the various stakeholders of the college. At the



successful completion of one year, Prof. Parveen Kumar Garg expressed sincere thanks to DAV Managing Committee for extending wholehearted support and constant guidance. He also thanked the faculty, staff and students for their unflinching cooperation. The staff congratulated the Officiating Principal on this momentous occasion by presenting a bouquet to him and wished him success in every sphere of life.

## MATRIBHASHADIWAS

The Post Graduate Department of Punjabi celebrated MatribhashaDiwas by organizing a Speech Competition. The students in their speeches dwelt upon the importance of the mother tongue. The Head, Department of Punjabi welcomed the gathering on the occasion and talked about the need of greater use of mother tongue for the development and progress of nation. He said that the innermost feelings of any person can be best conveyed in one's mother tongue.

Dr. Sukhdeep Kaur encouraged the students to gain proficiency in speaking and writing in their mother tongue. The students expressed their views profusely in their “matribasha” and enthralled the audience with their power of expression.



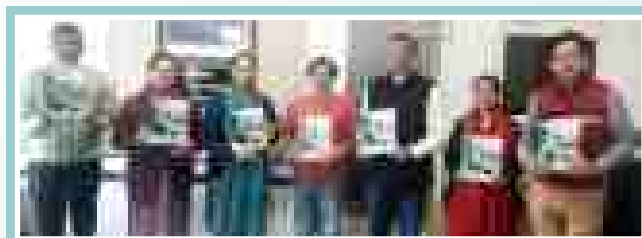
## LOHRI CELEBRATION



An atmosphere of piousness and jubilation pervaded the precincts of the college on the occasion of Lohri. On this auspicious occasion a bonfire was lit and the offering of peanuts, popcorns and rewari was made. Prof. Maheshinder Singh and Dr. Sukhdeep Kaur conducted the programme. The faculty members and a few students presented boliyan, sithniyan, sufi and folk songs which permeated every being with abundant joy.

## RELEASE OF DAV NEWSLETTER 2019-2020

The DAV Newsletter 2019-2020 was released showcasing the multifarious activities of the college, new initiatives undertaken, infrastructural strides and the achievements of the students and the staff of the college in the session 2019-20. The Newsletter was released by the Officiating Principal Sh. Parveen Kumar Garg, Registrar Dr. Kusum Gupta, Staff Secretary Dr. Shishpal Jindal and the Newsletter Committee members, comprising of Prof. Vikas Katia, Dr. Vandana Jindal, Prof. Aman Malhotra and Dr. Neetu Purohit.



## TREE PLANTATION DRIVE



A tree plantation drive was organized at the college adhering to Covid-19 protocol. Sardar Harmander Singh Sidhu, Deputy Mayor, Nagar Nigam Bathinda was the Chief Guest on the occasion and Sh. Yash Bosh Mittal, social worker was the Guest of Honour. A floral welcome was extended to the distinguished guests by the Officiating Principal Prof. Parveen Kumar Garg and the Staff Secretary Prof. Pawan Kumar.

On the first day of the drive, 25 saplings were planted. 100 more saplings will be planted in the forthcoming days.

Sardar Harmander Singh congratulated Prof. Parveen Kumar

Garg on initiating this plantation drive. He stated that during these pandemic times, shortage in oxygen has been witnessed and the plantation of trees and environment conservation has become the need of the hour, which makes the drive organized by the college commendable. He expressed immense happiness over observing many educational institutions undertaking this noble venture of planting trees to create environment consciousness amongst the youth. He assured that if this institution keeps working towards the welfare of the society, Municipal Corporation, Bathinda will extend all possible help.

## STORY WRITING COMPETITION



Palak, a student of M.A. English, made the college proud by participating in the "Story Writing Competition", organised by Dev Samaj College for Women, Ferozepur. Her creativity knew no bounds and made her win first position in the genre of folk and fairy tales.



## HAWAN YAJNA SOLEMNISED IN THE MEMORY OF LATE DR. SANJEEV SHARMA

A hawan yajna was solemnized on the occasion of naming the Botanical Garden and the Girls Common Room in the memory of Late Dr. Sanjeev Sharma as "Dr. Sanjeev Sharma Memorial Botanical Garden and Girls Common Room". The honourable guests present on the occasion were Dr. K.K.Nohria (Chairman, Local Managing Committee) and Dr. H.S. Arora (Principal, Gidderbaha College). Offerings were made in the hawan yajna and everyone present on the occasion prayed for the departed soul to rest in peace and solace.

Dr. K.K.Nohria in an earnest eulogy to Dr. Sanjeev Sharma addressed him as a man who always worked incessantly for the growth of the institution and motivated everyone never to give up. He further added that Dr. Sharma's name will be imprinted in the annals of DAV institution.

Reminiscing his close association with Dr. Sanjeev Sharma, Dr. H.S.Arora in an overwhelming manner recounted the various incidents which resonated with the perseverance, dedication, integrity and compassion of the remarkable person with an amazing aura. He stated that under Dr. Sharma's leadership, the college touched great heights and carved a niche for itself in the academic fraternity. Dr. Arora appreciated Prof. Parveen Kumar Garg for undertaking this noble venture of naming the Botanical Garden and Girls Common Room after Dr. Sanjeev Sharma.

The Officiating Principal Prof. Parveen Kumar Garg extended a heartfelt tribute to Dr. Sanjeev Sharma and said that he will always reside in our hearts and continue to inspire us. Addressing Dr. Sanjeev Sharma as an exemplary figure, he stated that the college has risen to great heights due to the various administrative, academic and philanthropic ventures undertaken by Dr. Sanjeev Sharma. He thanked Dr. K.K.Nohria and Dr. H.S. Arora for gracing the occasion with their benign presence.





**B.Sc. Students Trip to Manali, Kasol and Solang**

# PUBLICATIONS

## DEPARTMENT OF BOTANY



**Dr. KRITI GUPTA (ASSISTANT PROFESSOR)**

- Awarded summer research fellowship by Indian Academy of Sciences Bengaluru under the mentorship of Prof. Ashwani Pareek, JNU, New Delhi.



**Dr. RANJEET SINGH (ASSISTANT PROFESSOR)**

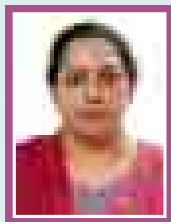
**Paper Published**

- “Valorization of Ganoderma Species: Chemical Characterization and Antidepressant-Like Activity” Waste and Biomass Valorization 12 (2021) 2025-2036

**Paper Presented in Conferences**

- “Assessment of elements in some Ganoderma species and their potential contribution to dietary intakes” Virtual National Conference on Biodiversity and Biotechnology of Fungi and 47th Annual Meeting of Mycological Society of India organized by Department of Botany, Punjabi University, Patiala, 22-24 February 2021

# DEPARTMENT OF CHEMISTRY



## Ms. MEETU S WADHWA (ASSISTANT PROFESSOR)

### Orientation/FDPs/Workshops/Short Term Course Attended

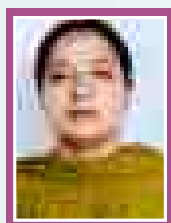
- Online short term Course on 'Analytical techniques in the realm of molecules & Materials' organised by Department of Chemistry, SLIET, Longowal, Sangrur, 26-30 June 2020.
- AICTE Teaching and Learning Academy Online FDP on "Molecular Manufacturing" at Central University of Punjab from 23-27 November 2020.
- Two Day Faculty Development Programme on "Teaching and Learning Management during COVID-19 Crisis", Guru Kashi University, Talwandi Sabo, 28-29 April 2020.
- Three day lecture workshop "ZeroWaste", DAV College, Bathinda in association with Central University of Punjab, Bathinda and Indian National Young Academy Of Sciences, New Delhi, 16-19 June, 2020.



## Mr. AMAN MALHOTRA (ASSISTANT PROFESSOR)

### Orientation/FDPs/Workshops/Short Term Course Attended

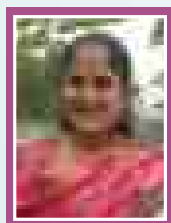
- Online short Term Course on 'Analytical techniques in the realm of molecules & Materials' organized by Department of Chemistry, SLIET, Longowal, Sangrur, 26-30 June 2020.
- AICTE Teaching and Learning Academy Online FDP on "Molecular Manufacturing" at Central University of Punjab from 23-27 November 2020.
- Three day lecture workshop "ZeroWaste" DAV College, Bathinda in association with Central University of Punjab, Bathinda and Indian National Young Academy Of Sciences, New Delhi, June 16-19, 2020.



## Dr. PARVEEN BALA (ASSISTANT PROFESSOR)

### Orientation/FDPs/Workshops/Short Term Course Attended

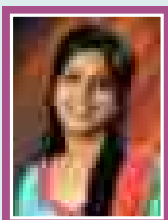
- AICTE Teaching and Learning Academy Online FDP on "Molecular Manufacturing" at Central University of Punjab from 23-27 November 2020.
- Three day lecture workshop "ZeroWaste" June 16-19, 2020, DAV College, Bathinda in association with Central University of Punjab, Bathinda and Indian National Young Academy Of Sciences, New Delhi



## Dr. PARAMJEET KAUR (ASSISTANT PROFESSOR)

### Papers Published

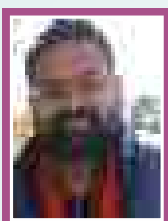
- Adsorption Behaviour of Quinalphos and Its Leaching Potential in Different Agricultural Soils, Soil and Sediment Contamination: An International Journal, 03 Mar 2021 DOI: 10.1080/15320383.2021.1890691
- Toxicity, Natural And Induced Degradation Of Chlorpyrifos, 2020, Journal of the Chilean Chemical Society, 65 (2) 4807-4816
- Orientation/FDPs/Workshops/Short Term Course Attended
- One week FDP on Recent trends in Material Science and Engineering organized by Department of Physics, School of Basics Science and Research, Sharda University, Greater Noida, UP, May 25-31, 2020
- 4-Week Induction/Orientation Programme For "Faculty In Universities/ Colleges/ Institutes Of Higher Education" Teaching Learning Centre, Ramanujan College University Of Delhi Under The Aegis Of Ministry Of Human Resource Development Pandit Madan Mohan Malaviya National Mission On Teachers And Teaching From June 04 - July 01, 2020
- Two Week Faculty Development Programme On "Managing Online Classes And Co-Creating Moocs 3.0" Teaching Learning Centre, Ramanujan College University of Delhi Under The Aegis Of Ministry Of Human Resource Development Pandit Madan Mohan Malaviya National Mission On Teachers And Teaching from July 25 - August 10, 2020
- AICTE Teaching and Learning Academy Online FDP on "Molecular Manufacturing" at Central University of Punjab from 23-11-2020 to 27-11-2020.



### **Dr. NEHA JINDAL (ASSISTANT PROFESSOR)**

#### **Orientation/FDPs/Workshops/Short Term Course Attended**

- 4-Week Induction/Orientation Programme For "Faculty In Universities/ Colleges/ Institutes Of Higher Education" Teaching Learning Centre, Ramanujan College University Of Delhi Under The Aegis Of Ministry Of Human Resource Development Pandit Madan Mohan Malaviya National Mission On Teachers And Teaching From June 04 - July 01, 2020
- Two Week Faculty Development Programme On "Managing Online Classes And Co-Creating Moocs 3.0" Teaching Learning Centre, Ramanujan College University of Delhi Under The Aegis Of Ministry Of Human Resource Development Pandit Madan Mohan Malaviya National Mission On Teachers And Teaching from July 25 - August 10, 2020
- EDUCATION 4.0 - National Level Online Workshop on ICT enabled Teaching & Learning - Opportunities and Challenges organized, Rajagiri School of Engineering & Technology, Kochi from 6 July 2020 to 12 July 2020.
- Five Days Virtual Faculty Development Programme on "Vital Visionary Approach for Researchers -Recent Chemistry Perspective" organized by Department of Chemistry, Kongu Engineering College, Tamilnadu, India from 20.07.2020 to 24.07.2020



### **Dr. LALIT S. MITTAL (ASSISTANT PROFESSOR)**

#### **Papers Published**

- Perylene diimides: will they flourish as reaction-based probes?, Analytical Methods 2020,12, 3560-3574



### **Mr. AMRINDER SINGH (ASSISTANT PROFESSOR)**

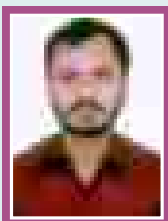
#### **Orientation/FDPs/Workshops/Short Term Course Attended**

- Online FDP on "Molecular Manufacturing" from 23-27 November 2020 organized by Central University of Punjab, Bathinda.
- Online FDP on "Research Methodology" from 7-11 December 2020 organized by IIIT Dharwad.
- One-Week Online Workshop from 27 January to 1 Feb. 2021 on "Microsoft's Excel/Spreadsheet-A Tool for Enhancing Mathematical and Computational Skills" organized by Physics Department under the DBT SCS.
- Online FDP on "Sensors Technology" from 22-26 February 2021 organized by Maharaja Ranjit Punjab Technical University Bathinda.

#### **Short Terms Courses Attended**

- "Health Systems Strengthening" organized by the University Of Melbourne, The Nossal Institute for Global Health and Unicef, 6th April 2020.
- "The Science of Medicines" organized by Monash University, 22nd April 2020
- "How To Teach Online: Providing Continuity for Students" organized by Future learn, 10th May 2020.
- "Managing Mental Health and Stress" organized by Coventry University, 18th May 2020.
- "Emerging Respiratory Viruses, Including Covid-19: Methods For Detection, Prevention, Response And Control" By WHO, 25th May 2020.
- "Solving Inequality in Education" by Samsung, 3rd January 2021.

## **DEPARTMENT OF COMMERCE AND MANAGEMENT**

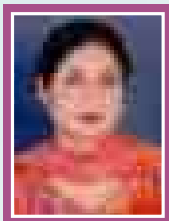


### **Mr. AMIT KUMAR SINGLA (ASSISTANT PROFESSOR)**

#### **Orientation/FDPs/Workshops/Short Term Course Attended**

- Four week Induction / Orientation programme organized by Teaching Learning Centre, University of Delhi, Sponsored by Ministry of Human Resource Development, Pandit Madan Mohan Malviya National Mission of Teachers and Teaching from June 4-July 1, 2020.

- Faculty Development Programme, Organised by Teaching Learning Centre, University of Delhi, Sponsored by Ministry of Human Resource Development, Pandit Madan Mohan Malviya National Mission of Teachers and Teaching, July 25- August 10, 2020.
- Interdisciplinary Refresher Course/ Faculty Development programme, Organised by Teaching Learning Centre, University of Delhi, Sponsored by Ministry of Human Resource Development, Pandit Madan Mohan Malviya National Mission of Teachers and Teaching, January 30- February 14, 2021



### **MS. MONIKA BHATIA (ASSISTANT PROFESSOR)**

#### **Orientation/FDPs/Workshops/Short Term Course Attended**

- Four weeks Induction/ orientation programme from June 26th to July 24th 2020 organised by Ramanujan College, University of Delhi.
- Two weeks Faculty Development programme on “Managing online and co-creating MOOC and 3.0” from July 25th to August 10th 2020 organised by Ramanujan College, University of Delhi.
- Three days DAVC B-CUPB INYAS Workshop on “Zero Waste” at DAV College Bathinda from 16th June to 18th June 2020.



### **Ms. SEEMA RANI (ASSISTANT PROFESSOR)**

#### **Orientation/FDPs/Workshops/Short Term Course Attended**

- Online International 5 days Faculty Development Program on “Advanced English for Academic Delivery in Specific Stream” from Amity University Patna from 8th June to 12th June 2020.
- One week Online Faculty Development Program on “Entrepreneurship, incubation and innovation” from June 23 to June 29th 2020 organized by Teaching learning Centre, Ramanujan College, University of Delhi.(Ministry of HRD).
- 3 Days DAVCB-CUPB-INYAS Workshop on “Zero waste” organized by DAV College Bathinda in association with Central University of Punjab, Bathinda and Indian National Young Academy of Sciences, New Delhi, from 16th June to 18th June, 2020.
- Four week Induction / Orientation programme from 26th June to 24th July 2020 organized by Ramanujan College, University of Delhi.
- Attended two week Faculty Development Program on “Managing Online and co-creating MOOC and 3.0” from 25th July to 10th August 2020 organized by Ramanujan College and University of Delhi.
- Three day Faculty Development Programme from 17th December to 19th December, 2020 conducted by GL Bajaj group of institutions, Mathura.
- Five days online Faculty Development Program on “Statistical Applications using SPSS Software coordinated” by G.L. Education Foundation, Bengaluru from 15th to 19th January 2021.
- One day International Workshop 'The Joy of Research' conducted by IQAC of Nirmala Memorial foundation college of Commerce and science, Kandiwali, Mumbai on 20 January 2021.
- Two week Refresher/ FDP for “Advanced Research methodology Tools and Techniques.” from 30th January 2021 to 14th February, 2021 conducted by Teaching Learning Centre, Ramanujan College, University of Delhi.



### **Ms. NEHA GARG (ASSISTANT PROFESSOR)**

#### **Orientation/FDPs/Workshops/Short Term Course Attended**

- 3 Days DAVCB-CUPB-INYAS Workshop on “Zero waste” organized by DAV College Bathinda in association with Central University of Punjab, Bathinda and Indian National Young Academy of Sciences, New Delhi, from 16th June to 18th June, 2020.
- One week Online Faculty Development Program on “Entrepreneurship, incubation and innovation” from June 23 to June 29th 2020 organized by Teaching learning Centre, Ramanujan College, University of Delhi Sponsored by Ministry of Human Resource Development, Pandit Madan Mohan Malviya National Mission of Teachers and Teaching
- Four week Induction / Orientation programme from 26th June to 24th July 2020 organized by Ramanujan



College, University of Delhi

- One week International Faculty Development Programme, Organised by Punjab Commerce and Management Association (PCMA), Ludhiana on “ Innovative Methods for Virtual Classrooms: A Road to MOOCs” July 10 - July 16, 2020
- Two week Faculty Development Program on “Managing Online and co-creating MOOC and 3.0” from 25th July to 10th August 2020 organized by Ramanujan College and University of Delhi
- Two week Interdisciplinary Refresher Course for “Advanced Research methodology Tools and Techniques.” from 30th January 2021 to 14th February, 2021 conducted by Teaching Learning Centre, Ramanujan College, University of Delhi.

## DEPARTMENT OF COMPUTER SCIENCE



### DR. VANDANA JINDAL

#### Papers published in Refereed Journals:

- Ekta Dixit, Vandana Jindal, “An Effective Energy and Robust Routing Methods for Air Pollution Data Monitoring in WSN”, International Journal of Recent Technology and Engineering (IJRTE), Volume-8, Issue-5, Jan 2020, pp. 1682-1689, (ISSN: 2277-3878 (Online)) (Scopus Indexed) (IF: 5.92) DOI:10.35940/ijrte.E6234.018520

#### Papers published in International Conference Proceedings

- Vandana Jindal, E. Dixit “Survey on Recent Cluster Originated Energy Efficiency Routing Protocols For Air Pollution Monitoring Using WSN”, IEEE Sixth International Conference on Parallel, Distributed and Grid Computing (PDGC), Wagnaghat, Solan, India, 06-08 Nov., 2020, pp. 160-166.

#### Papers Presented

- “The Comparison Analysis of Cluster and Non- Cluster Based Routing Protocols for WAPMS (Wireless Air Pollution Monitoring System)”, 4th International Conference on Intelligent Sustainable Systems (ICISS 2021), Organised by SCAD College of Engineering and Technology, Tirunelveli, India, February 26-27, 2021.



### Mr. PAWAN K MADHU (ASSOCIATE PROFESSOR)

#### Papers Published

- “A Secure n-Secret Based Client Authentication Protocol for 802.11 WLANs” Telecommunication Systems (Springer), 3 (2020) 259-272



### Dr. SHISHPAL JINDAL (ASSOCIATE PROFESSOR)

#### Book Chapter

- “Specific Conduct in Book-Research and Publication Ethics” published by Goyal and Batra, page no. 15

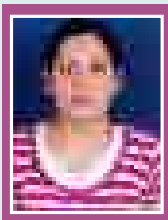
## DEPARTMENT OF ECONOMICS



### Dr. SURINDER KUMAR (ASSISTANT PROFESSOR)

#### INDUCTION/ORIENTATION PROGRAMME

- Teaching Learning Centre, Ramanujan College, University of Delhi. MHRD PMMMMNMTT. June 26- July 24, 2020.



### **FACULTY DEVELOPMENT PROGRAMME**

- Managing Online Classes and Co-Creating MOOCS 3.0'. MHRD PMMMNMTT. July 25- August 10, 2020.
- Advance Research Methodology Tools and Techniques. MHRD PMMMNMTT. 30 Jan – 14 Feb, 2021.

### **Dr. PRABHJOT KAUR (ASSISTANT PROFESSOR)**

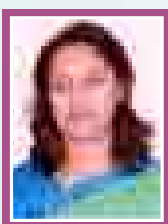
#### **Papers Presented in Conferences/Seminars:**

- “Testing the Convergence Hypothesis for Income across Indian States: Before and After the Economic Liberalization”, in the International e- Conference on 'Globalisation, Inequality and Exclusion: Plan for Development or Path to Marginalisation', organized by Department of Economics and Planning Commission Chair Punjabi University, Patiala, June 19, 2020.

#### **Orientation/FDPs/Workshops/Short Term Course Attended**

- Participated in 4-week Induction/Orientation Programme for “ Faculty in Universities/Colleges/Institutes of Higher Education” organized by Teaching Learning Centre Ramanujan College, University of Delhi (sponsored by 'Ministry Of Human Resource Development, Pandit Madan Mohan Malaviya, National Mission on Teachers and Teaching'), June 04-July 1, 2020.
- Participated in DAVCB-CUPB-INYAS lecture Workshop on “Zero Waste” organized by DAV College, Bathinda, Central University of Punjab, Bathinda and Indian National Young Academy of Sciences, New Delhi, June 16-18, 2020.
- Participated in Five Days FDP on “Innovative Teaching Learning Methodologies” (Under PMMMNMTT, Department of Higher Education, MHRD, GOI) conducted by Coimbatore Institute of Technology, July 6-10, 2020.
- Participated in Seven Days National Faculty Development Programme on “Time Series and Panel Data Analysis” organized by Teaching Learning Centre Ramanujan College, University of Delhi (sponsored by 'Ministry Of Human Resource Development, Pandit Madan Mohan Malaviya, National Mission on Teachers and Teaching'), July 20-26, 2020.

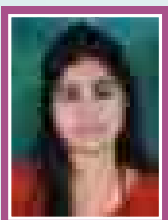
## **DEPARTMENT OF ENGLISH**



### **Dr. NEETU PUROHIT (ASSISTANT PROFESSOR)**

#### **Orientation/FDPs/Workshops/Short Term Course Attended**

- An International Seven day E-learning Workshop, “Spring Up” organised by English and Cultural Studies, Panjab University, Chandigarh from May 15, 2020- May 21, 2020
- An International 5 Day E-learning Workshop organised by English and Cultural Studies, Panjab University, Chandigarh from June 6- June 10, 2020.
- Four week Induction / Orientation programme organized by Teaching Learning Centre, University of Delhi, Sponsored by Ministry of Human Resource Development, Pandit Madan Mohan Malviya National Mission of Teachers and Teaching from June 4-July 1, 2020.
- 3 Days DAVCB-CUPB-INYAS lecture workshop on “Zero Waste” organised by DAV College Bathinda in association with Central University of Punjab, Bathinda and Indian National Young Academy of Sciences, New Delhi, June 16-18, 2020.
- Two week Faculty Development Programme organized by Teaching Learning Centre, University of Delhi, Sponsored by Ministry of Human Resource Development, Pandit Madan Mohan Malviya National Mission of Teachers and Teaching from July 2- July 17, 2020.



### **Ms. NEHA SHARMA (ASSISTANT PROFESSOR)**

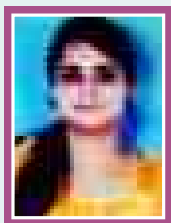
#### **Orientation/FDPs/Workshops/Short Term Course Attended**

- Four week Induction / Orientation programme from 4th June to 1st July 2020 organized by Ramanujan College, University of Delhi.

- Online International Faculty Development Program on “Advanced English for Academic Delivery in Specific Stream” organized by: Amity University, Patna in collaboration with IIT, Patna and ELT@I from June 8, 2020 to June 12, 2020
- Faculty Development Program on “Learn, Unlearn And Relearn Literature-Teaching with Contemporary Approaches” organized by Amity University, Uttar Pradesh from June 15, 2020 to June 17, 2020
- Short Course on “SOC1.practx.Prediction X: Omens Oracles and Prophecies” organized by Harvard X, an online learning initiative of Harvard University, July 8, 2020
- 6 Day National Level Online Chatinar Series “English Evenings With Indian Perspectives-A Tete-A-Tete” organized by Government First Grade College, Bengaluru from 24-29 June, 2020

### Ms. HEENA BINDAL (ASSISTANT PROFESSOR)

#### Orientation/FDPs/Workshops/Short Term Course Attended



- An International Seven day E-learning Workshop, “Research in the time of Pandemic” organised by English and Cultural Studies, Panjab University, Chandigarh, April 21, 2020- April 27, 2020
- An International Seven day E-learning Workshop, “Spring Up” organised by English and Cultural Studies, Panjab University, Chandigarh from May 15, 2020- May 21, 2020
- Four week Induction / Orientation programme organized by Teaching Learning Centre, University of Delhi, Sponsored by Ministry of Human Resource Development, Pandit Madan Mohan Malviya National Mission of Teachers and Teaching from June 4-July 1, 2020.
- An International five day E-Learning workshop, 'In-Depth' organised by Department of English and Cultural Studies, Panjab University, Chandigarh from June 6 to June 10, 2020.
- Participated in DAVCB-CUPB-INYAS lecture Workshop on “Zero Waste” organized by DAV College, Bathinda, Central University of Punjab, Bathinda and Indian National Young Academy of Sciences, New Delhi, June 16-18, 2020.

### Mr. GURDEEP SINGH (ASSISTANT PROFESSOR)



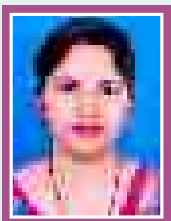
#### Orientation/FDPs/Workshops/Short Term Course Attended

- An International Seven day E-learning Workshop, “Spring Up” organised by English and Cultural Studies, Panjab University, Chandigarh from May 15, 2020- May 21, 2020.
- An International five day E-Learning workshop, 'In-Depth' organised by Department of English and Cultural Studies, Panjab University, Chandigarh from June 6 to June 10, 2020.

#### Awards or Honors Received

- Qualified UGC-NET for 5th time and JRF for 3rd time in English on Dec 01, 2020.

## DEPARTMENT OF HINDI



### Dr. MONIKA GHULLA (ASSISTANT PROFESSOR)

#### Orientation/FDPs/Workshops/Short Term Course Attended

- Attended four week Induction / Orientation programme from 26th June to 24th July 2020 organized by Teaching Learning Centre Ramanujan College, University of Delhi, MHRD PMMMMNTT.
- Attended two week Faculty Development Program on “Managing Online and co-creating MOOC and 3.0” from 25th July to 10th August 2020 organized by Ramanujan College and University of Delhi.
- Attended one week Faculty Development Program organized by Teaching Learning Centre Ramanujan College, University of Delhi, And Shyama Parsad Mukhreja College for women, University Of Delhi from 13th - 19th July 2020

# DEPARTMENT OF MATHEMATICS



## Mr. ATUL SINGLA (ASSISTANT PROFESSOR)

### INDUCTION/ ORIENTATION PROGRAMME

- Teaching Learning Centre, Ramanujan College, University of Delhi. MHRD PMMMMNMTT. June 26- July24, 2020.

### FACULTY DEVELOPMENT PROGRAMME

- Managing Online Classes and Co-Creating MOOCS 3.0'. MHRD PMMMMNMTT. July 25- August 10, 2020.
- Advance research methodology tools and techniques. MHRD PMMMMNMTT. 30 Jan – 14 Feb, 2021.
- Matrix Analysis and Its Applications'. NIT Jalandhar. Sept 23- Sept 27, 2020.

### REFRESHER COURSE

- Two Weeks Refresher course in Mathematics'. MHRD PMMMMNMTT. March 16- March 30, 2021.



## Mr. MUNISH KUMAR (ASSISTANT PROFESSOR)

### INDUCTION/ ORIENTATION PROGRAMME

- Teaching Learning Centre, Ramanujan College, University of Delhi. MHRD PMMMMNMTT. June 26- July24, 2020.

### FACULTY DEVELOPMENT PROGRAMME

- Managing Online Classes and Co-Creating MOOCS 3.0'. MHRD PMMMMNMTT. July 25- August 10, 2020.
- Advance research methodology tools and techniques. MHRD PMMMMNMTT. 30 Jan – 14 Feb, 2021.
- Matrix Analysis and Its Applications'. NIT Jalandhar. Sept 23- Sept 27, 2020.

### REFRESHER COURSE

- Two Weeks Refresher course in Mathematics'. MHRD PMMMMNMTT. March 16- March 30, 2021.

# DEPARTMENT OF PHYSICS



## Dr. GURPREET SINGH (ASSOCIATE PROFESSOR)

### Orientation/FDPs/Workshops/Short Term Course Attended

- One-week Online Faculty Development program on “Recent trends in Material science and Engineering” organized by department of Physics, School of basic science and research, Sharda university, Greater Noida, Uttar Pradesh
- Five day online short term course on “Analytical Techniques in the realm of Molecules & Materials” (ATRMM-2020) organized by Department of Chemistry, Sant Longowal Institute of Engineering & Technology (Deemed to be University) Longowal, Distt, Sangrur (Punjab)
- 3-day DAVCB-CUPB-INYAS Lecture Workshop on “Zero Waste” encompassing 9 lectures organized by DAV College, Bathinda, Central University of Punjab, Bathinda and Indian National Young Academy of Sciences, New Delhi



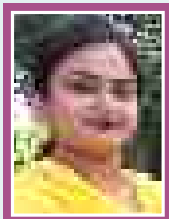
## Dr. KULWINDER SINGH MANN (ASSISTANT PROFESSOR)

- Kumar, S., Mann, K. S., Singh, T., Singh, S. (2021). Investigations on the gamma-ray shielding performance of green concrete using theoretical, experimental and simulation techniques, Progress in Nuclear Energy, (ELSEVIER Publications), 134, 103654
- Mann, K.S. and Mann, S. S. (2021). Py-MLBUF: Development of an online-platform for gamma-ray shielding calculations and investigations, Annals of Nuclear Energy, United States (ELSEVIER Publications), 150, 107845
- Mann, K. S., (2021). Innovation Hub- Physics behind experiments, IAPT Bulletin a Monthly Journal of Education in Physics & Related Areas,13 (2) 62-63

- Mann, K. S., (2021). Online workshop on MS-Spreadsheets and Monte-Carlo Simulations, IAPT Bulletin a Monthly Journal of Education in Physics & Related Areas,13 (3) 98
- Mann, K. S., (2021). Electronics Workshop on Making of Projects, IAPT Bulletin a Monthly Journal of Education in Physics & Related Areas, 13 (4) 126

#### **Orientation/FDPs/Workshops/Short Term Course Attended**

- Participated in seven-days' Faculty Development Program on 'Recent Trends in Materials Science and Engineering', Organized by Department of Physics, School of Basic Sciences & Research, Sharda University, Greater Noida, Uttar-Pradesh, during 25-31 May 2020.
- 3-day DAVCB-CUPB-INYAS Lecture Workshop on “ZeroWaste” encompassing 9 lectures organized by DAV College, Bathinda, Central University of Punjab, Bathinda and Indian National Young Academy of Sciences, New Delhi



#### **Ms. HARPREET KAUR BRAR (ASSISTANT PROFESSOR)**

##### **Editorial Published**

- "Building blocks" on 10 November 2020 in Millennium Post
- Orientation/FDPs/Workshops/Short Term Course Attended
- 4-Week Induction/Orientation Programme for "Faculty in Universities/Colleges/Institutes of Higher Education" conducted by Teaching Learning Centre, Ramanujan College, University of Delhi from June 26 – July 24, 2020
- Successfully completed 4- week online course on “Structural analysis of nanomaterials” conducted by NPTEL-IIT Roorkee on Swayam platform September- October 2020



#### **Dr. VIKAS DUGGAL (ASSISTANT PROFESSOR)**

##### **Papers Published**

- Vikas Duggal. “Age-dependent dose assessment of uranium intake from bottled water in Punjab state, India.” Water Supply 2020 20 (7) 2794-2803.
- Vikas Duggal, Samriti Sharma, Amandeep Singh, 2021 “Risk assessment of uranium in drinking water in Hisar district of Haryana, India. Water Supply” 21(1) 249–261.
- Vikas Duggal, Samriti Sharma, Amandeep Singh, 2021 “Toxicological risk and age-dependent radiation dose assessment of uranium in drinking water in southwest-central districts of Haryana State, India” Groundwater for Sustainable Development, 13, 100577.
- Paper presented in Conferences/Seminars:
- Vikas Duggal (2021). “Toxicological risk assessment of uranium in drinking water of Central Haryana, India.” Third National Conference on Radiation Awareness and Detection in Natural Environment (RADNET-III) organized by Department of Physics, Govt. P.G. College, New Tehri, Tehri Garhwal & Department of Physics, H.N.B. Garhwal University, Badshahi Thaul Campus, Tehri Garhwal in Collaboration with National Radon Network Society on March 18-20, 2021. (Oral Presentation)

##### **Awards or Honors received**

- Young Researcher Award for the year 2020 by InSc Awards, Bengaluru, Karnataka, India Accredited by UASL
- Best Researcher Award for the year 2020 by VDGGOOD Professional Association, Villupuram, Tamil Nadu, India

## **DEPARTMENT OF POLITICAL SCIENCE**

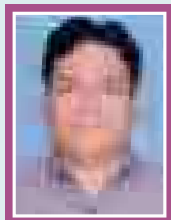


#### **Mr. PAWANPREET SINGH (ASSISTANT PROFESSOR)**

##### **Orientation/FDPs/Workshops/Short Term Course Attended**

- Two Week Online Interdisciplinary Refresher Course for Advanced Research Methodology Tools and Techniques from 30 Jan 2021 to 14 Feb 2021 organized by Ramanujan College, University of Delhi.

## DEPARTMENT OF PUNJABI



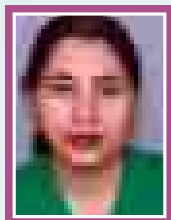
### Dr. RAVI NAGPAL

#### Books Published

- "Guru Nanak Chintan Te Vichardhaara (Ed)" by Gracious Books, Patiala ISBN: 978-93-87176-54-3, Year 2020.

#### Orientation/FDPs/Workshops/Short Term Course Attended

- 3-day DAVCB-CUPB-INYAS Lecture Workshop on "ZeroWaste" encompassing 9 lectures organized by DAV College, Bathinda, Central University of Punjab, Bathinda and Indian National Young Academy of Sciences, New Delhi.



### Ms. VEERPAL KAUR (ASSISTANT PROFESSOR)

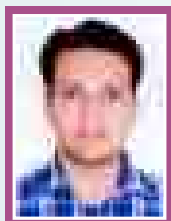
#### Papers in National/International Proceeding

- ਪੰਜਾਬੀਅਤ ਵਰਤਮਾਨ ਤੇ ਭਵਿੱਖ on the Topic "ਸਭਿਆਚਾਰ ਅਤੇ ਲੋਕਧਾਰਾ ਦਾ ਵਰਤਮਾਨ ਤੇ ਭਵਿੱਖ SBN-978-81-939780-2-3
- ਗੁਰੂ ਨਾਨਕ ਚਿੰਤਨ ਅਤੇ ਵਿਚਾਰਧਾਰਾ on the Topic "ਗੁਰੂ ਨਾਨਕ ਬਾਣੀ ਵਿੱਚ ਕਿਰਤ ਦਾ ਸੰਕਲਪ" ISBN-978-93-87276-54-3
- ਗੁਰੂ ਨਾਨਕ ਬਾਣੀ ਚਿੰਤਨ ਤੇ ਵਿਹਾਰ on the Topic "ਗੁਰੂ ਨਾਨਕ ਬਾਣੀ ਵਿੱਚ ਗੁਰੂ ਦਾ ਸੰਕਲਪ" ISBN-978-9387276-89-5

#### Orientation/FDPs/Workshops/Short Term Course Attended

- Attended 2 days workshop on "Microsoft Excel/word" organized by SD College Barnala 12th&19th July 2020
- 3-day DAVCB-CUPB-INYAS Lecture Workshop on "ZeroWaste" encompassing 9 lectures organized by DAV College, Bathinda, Central University of Punjab, Bathinda and Indian National Young Academy of Sciences, New Delhi.
- \*Participate in workshop on "ਗੁਰੂ ਤੇਗ ਬਹਾਦਰ ਜੀ ਦੀ ਬਾਣੀ: ਟੀਕਾਕਾਰੀ ਅਤੇ ਕੋਸ਼ਕਾਰੀ" organized by Guru Govind Singh Department of Religious Studies & Guru Gobind Singh Chair Punjabi University Patiala 1Oct-5 Oct 2020

## DEPARTMENT OF ZOOLOGY



### Dr. AMAR SANTOSH SINGH

#### Orientation/FDPs/Workshops/Short Term Course Attended

- Attended four week Induction / Orientation programme from 26th June to 24th July 2020 organized by Teaching Learning Centre Ramanujan College, University of Delhi, MHRD PMMMMNMTT.
- Attended two week Faculty Development Program on "Managing Online and co-creating MOOC and 3.0" from 25th July to 10th August 2020 organized by Ramanujan College and University of Delhi.
- Attended Two week Refresher/ FDP for "Advanced Research methodology Tools and Techniques." from 30th January 2021 to 14th February, 2021 conducted by Teaching Learning Centre, Ramanujan College, University of Delhi.



### Dr. AMANDEEP KAUR

#### Papers Published

- "Allergenic co-inhabitants of house dust." Journal of Scientific research 2020 64 (2) 66-74
- Sensitivity in allergic asthmatic subjects towards house dust mite allergens. Systematic and applied acarology. 2021 26 (1) 75-84

#### Orientation/FDPs/Workshops/Short Term Course Attended

- Attended four week Induction / Orientation programme from 26th June to 24th July 2020 organized by Teaching Learning Centre Ramanujan College, University of Delhi, MHRD PMMMMNMTT.

# MEDIA COVERAGE

The collage displays a variety of media coverage from different newspapers. The top row includes 'Jagan Marg' with a headline about a meeting, 'Panch Disha' with a headline about a meeting, 'Panchajanya' with a headline about a meeting, and 'Daily Jagran' with a headline about a meeting. The middle row features 'Jagan Marg' with a headline about a meeting, 'Panchajanya' with a headline about a meeting, and 'Daily Jagran' with a headline about a meeting. The bottom row includes 'Daily Jagran' with a headline about a meeting, 'Panchajanya' with a headline about a meeting, and 'Daily Jagran' with a headline about a meeting. Each clipping includes a small photograph and several columns of text.

# MEDIA COVERAGE

The collage displays a variety of media coverage for the Jagan Marg project. Key elements include:

- Headlines:** "जग मार्ग" (Jagan Marg), "दैनिक भास्कर" (Dainik Bhaskar), "दैनिक जागरण" (Dainik Jagran), "धनश्री भावट" (Dhanashree Bhavt), "अमर उजाला" (Amar Ujala), "धरमश्री भावट" (Dharmashree Bhavt), "जग मार्ग" (Jagan Marg), "10 किलोमीटर पैदल मार्ग 'पति' (10 km walking path 'Pati')
- Images:** Numerous photographs showing the construction progress, groups of people, and officials involved in the project.
- Text Snippets:** Partial headlines and introductory paragraphs in Hindi, such as "मुरोजात में पावन लिफ्टम में जैतन चकरी" (Murojot in Pawan Liftm in Jaitan Chakri) and "मुरोजात में पावन लिफ्टम में जैतन चकरी" (Murojot in Pawan Liftm in Jaitan Chakri).

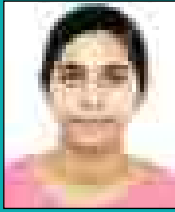




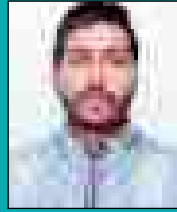


# ACADEMIC ACHIEVERS

" Discipline is the bridge between goals and accomplishment."



**NIKITA BANGA**  
B.SC. SEM-VI UNIVERSITY  
MERIT 6TH POSITION



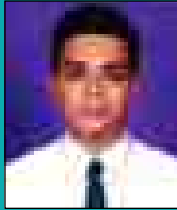
**LOVEKESH**  
MSC CH-II SEM-IV 10 SGPA



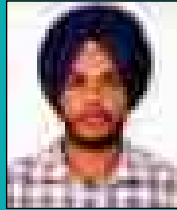
**HARPREET KAUR**  
MSC CH-II SEM-IV 10 SGPA



**ARSHDEEP SINGH DHILLON**  
BBA-III SEM-VI 94%



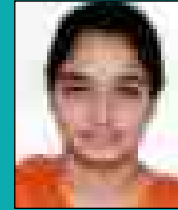
**ASHISH GARG**  
BBA-III SEM-VI 93.2%



**BARJINDER SINGH**  
MA HIST-I SEM-II 9 CGPA



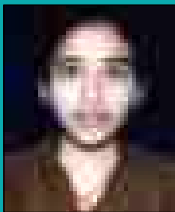
**BHAVIKA GARGI**  
BBA-III SEM-VI 90.8%



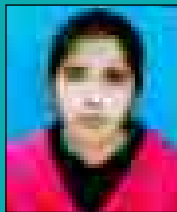
**GURLEEN KAUR**  
MA POL SC-II SEM-IV 9 CGPA



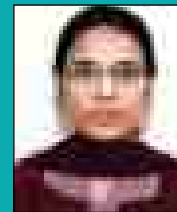
**JATINDER KUMAR**  
MA HIST-II SEM-IV 9 CGPA



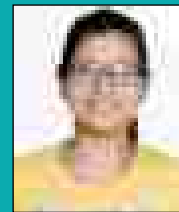
**KAMALJEET KAUR**  
MA POL SC-II SEM-IV 9 CGPA



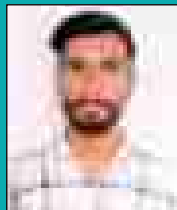
**KARAMJEET KAUR**  
MSC MATH-II SEM-IV 9.8 CGPA



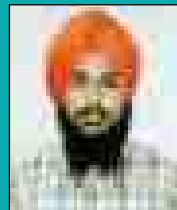
**KIRANJEET KAUR**  
MA HIST-II SEM-IV 9 CGPA



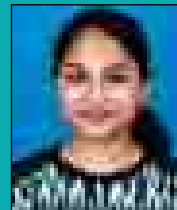
**KRIKA**  
BCOM H-II SEM-IV 90%



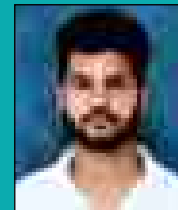
**MANDEEP SINGH**  
MA POL SC-I SEM-II 9 CGPA



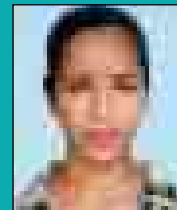
**MANSHINDER SINGH**  
MA HIST-I SEM-II 9 CGPA



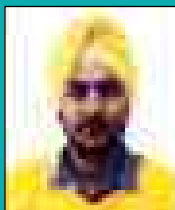
**MIKSHA**  
MCOM-I SEM-II 9.43 CGPA



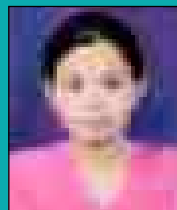
**NAVDEEP MEHRA**  
BBA-III SEM-VI 90%



**PRIVANSHU**  
MSC MATH-I SEM-II 9 CGPA



**RAJPREET SINGH**  
BBA-III SEM-VI 91.2%



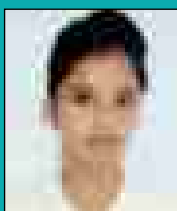
**RITIKA**  
MCOM-I SEM-II 9.13 CGPA



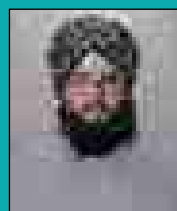
**RITIKSHA**  
MCOM-I SEM-II 9.13 CGPA



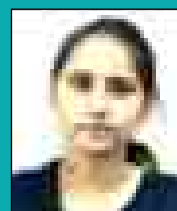
**SAHIL KUMAR**  
BBA-III SEM-VI 95.2%



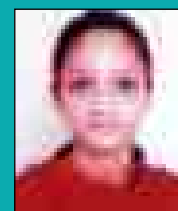
**SHIVANI RANI**  
MCOM-I SEM-II 9.13 CGPA



**SUKHPINDER SINGH**  
MA PBHI SEM-IV 9 CGPA



**SUMANPREET KAUR**  
BBA-III SEM-VI 90.4%



**SWATI**  
MSC CH-I SEM-II 9.18 CGPA



**VAIBHAV PRATAP SINGH**  
MA POL SC-I SEM-II 9 CGPA




## TEN PRINCIPLES OF ARYA SAMAJ

- God is the efficient cause of all true knowledge and all that is known through knowledge.
- God Is existent, intelligent and blissful. He is formless, omniscient just, merciful, unborn, endless, unchangeable, beginning-less, unequalled, the support of all, the master of all, omnipresent, immanent, un-aging, immortal, fearless, eternal and holy, and the maker of all. He alone is worthy of being worshipped.
- The Vedas are the scriptures of all true knowledge. It is the paramount duty of all Aryas to read them, teach them, recite them and to hear them being read.
- One should always be ready to accept truth and to renounce untruth.
- All acts should be performed in accordance with Dharma, that is, after deliberating what is right and wrong.
- The prime object of the Arya Samaj is to do good to the world, that is, to promote physical, spiritual and social good of everyone.
- Our conduct towards all should be guided by love, righteousness and justice.
- We should dispel Avidya (ignorance) and promote Vidya (knowledge).
- No one should be content with prompting his/her good only, on the contrary, one should look for his/her good in promoting the good of all.
- One should regard oneself under restriction to follow the rules of society calculated to promote the well being of all, while in following the rules of individual welfare, all should be free.

## DAV COLLEGE, BATHINDA

 Dayanand Nagar, Bibi Wala Road, BATHINDA.

 0164- 2214555, 2970206

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