



The Science Spin

An Annual Newsletter (Volume - 5 & 6)

2019-2021



Department of Sciences
KAMLA NEHRU COLLEGE FOR WOMEN

Re-accredited with Grade "A++" (3.55/4.00 CGPA) by NAAC, Bangalore
College with Potential for Excellence by UGC., New Delhi

Star College Status in Sciences by DBT, New Delhi

OUR VISION

To blossom as one of the
Leading and Most Preferred
Institutes with Earnest endeavors to
enhance its quality in imparting excellent
education-vocational & competitive
to the highest academic standards
with full devotion and dedication.

OUR MISSION

To Nurture, Nourish and Chisel
our girls into a host of Well-shaped
Individuals- Self –reliant,
Self–sufficient and Responsible Citizens,
leading to the upliftment of the society.



Smt. Kamala Nehru
(1899-1936)



It gives me immense pleasure to know that Department of Sciences, Kamla Nehru College for Women, Phagwara is bringing out the Science Newsletter “The Science Spin” for the sessions 2019-2021. I extend my heartiest congratulations to the Principal and entire team of the Department on this prime occasion. I am sure that they will be steadfast in their efforts and this newsletter will be a regular feature in the upcoming years as well.

Mr. Dhiraj Sardana
President



I am pleased that the Department of Sciences is releasing its annual newsletter “The Science Spin”. It is a praiseworthy step to initiate this newsletter as it will disseminate scientific knowledge among the faculty members as well as the students. I congratulate the entire team of the Department for bringing out the newsletter of sessions 2019-2021 and convey my best wishes for the forthcoming editions of the newsletter too.

Dr. Savinder Pal

Principal



I am extremely delighted to note that Department of Sciences, Kamla Nehru College for Women, Phagwara is releasing another issue of Annual newsletter "The Science Spin". Ever since its inception, this department has been rendering yeoman service in teaching as well as in research. Its huge contribution in meeting the objectives has coned it to be the foremost department in the district. In the extremely competitive era of present times, no institute can afford to rest on its laurels. On the contrary, it has to get its act together continuously to fulfill the goal of scaling newer heights. I congratulate the College Principal, Dr. Savinder Pal and entire faculty of Science Department for their consistent efforts and being equally dynamic to make its release a spontaneous feature. I hope this newsletter will go a long way to boost the students and ignite their interest in science subjects.

Dr. Yogesh Pakade
Senior Scientist
Cleaner Technology and Modeling Division
CSIR-National Environmental Engineering Research Institute
Nagpur



I am immensely delighted to learn that Department of Sciences, Kamla Nehru College for Women, Phagwara is keeping the word of bringing out another issue of its annual newsletter "The Science Spin". It is commendable to share that earlier issues of this magazine reflects the true glimpses of various activities such as academic, co-curricular and extracurricular ones being carried out by the Department of Science of Kamla Nehru College throughout the session.

Witnessing numerous changes in varied fields of Science and Technology in the present era, teaching fraternity certainly require to endeavor interminably to deliver prolific means to education and equip the students with such skills that provide them opportunities where they can fulfill their vision for future. As annual newsletter is a real refection to highlight the achievements to all students as well as faculty members, it will definitely boost them to achieve more and more. I heartily congratulate the Principal and entire team of science department and wish that they will push all the stops in the times to come to bring more laurels to the departments as well as the college.

Dr. Jatinder Kaur
Associate Professor
and Head,
Department of Botanical
& Environmental Sciences
Guru Nanak Dev University, Amritsar



I am glad to inform you that Department of Sciences of Kamla Nehru College for Women, Phagwara is releasing its annual newsletter "The Science Spin". This attempt by the Department is worth appreciating. I am thankful to all the faculty members of the Department for helping me in bringing out this unique newsletter. I am grateful to the Principal for her regular guidance and supervision while working on the news bulletin.

Ms. Priyanka
Head, Department of Sciences



I am glad to inform that Department of Sciences, Kamla Nehru College for Women, is releasing 5th & 6th Volume of News Bulletin "The Science Spin." It is prime attempt by the entire department and worth appreciating. I am thankful to all faculty members of the department for their sincere efforts and grateful to the Principal Mam for guidance and supervision.

Ms. Manvinder Kaur
Assistant Professor in Botany

“The important thing is to never stop questioning.”

DEPARTMENT OF SCIENCES

The Department of Sciences gained recognition in the year 2004 and since then it has been functioning as a significant part of the institute. Presently the department is offering bachelor courses in Medical, Non–Medical and Computer Science with an additional course in Biotechnology (Certificate, Diploma and Advance Diploma). With the passage of time, the department has grown itself not only in the field of academics but also in various research programs.

Different Courses offered by the Department

- B.Sc. in Medical
- B.Sc. in Non-Medical
- B.Sc. in Computer Science
- Add on course in Biotechnology (Certificate, Diploma and Advanced Diploma)

“STAR COLLEGE STATUS”

The department of sciences has the proud and rare honor to be under “Star College Scheme” by Department of Biotechnology (DBT), New Delhi and approaching remarkable milestones day by day into its credit.

The department has utilized this grant for the constructive missions like upliftment of basic infrastructure including:

- Smart Class Rooms
- Upgradation of Laboratories with sophisticated equipments
- Inclusion of new plant species in Botanical Garden
- Vermiculture Unit
- Reconstruction of Green House



Center: Dr. Savinder Pal (Principal)

Left to Right: Ms. Shreya Jain, Ms. Riya Verma, Ms. Manvinder Kaur, Ms. Priyanka, Ms. Priya Sharma, Ms. Pinky

FACULTY OF SCIENCE DEPARTMENT

MATHEMATICS

Name: Ms. Priyanka
Designation: Assistant Professor (Head of the Department)
Qualification: M.Sc. (Hons.), M.Phil, B.Ed
Area of Specialization: Differential equation, Algebra
Publications: 01 (International)
Seminars/Webinars/Conferences/Workshops Attended: 18
(01-International; 17-National)
Email: shanaya9may2014@gmail.com



- Name:** Ms. Shreya Jain
Designation: Assistant Professor
Qualification: M.Sc., (CSIR-UGC-NET) qualified
Area of Specialization: Analysis, Discrete Mathematics
Seminars/Webinars/Conferences/Workshops Attended: 13 (National)
Email: shreyaj672@gmail.com



- Name:** Ms. Eisha
Designation: Assistant Professor
Qualification: M.Sc.
Area of Specialization: Algebra, Vectors
Seminars/Webinars/Conferences/Workshops Attended: 05 (National)
Email: esharma149@gmail.com



CHEMISTRY

- Name:** Dr. Pratibha Paliwal
Designation: Assistant Professor
Qualification: M.Sc., Ph.D.
Area of Specialization: Organometallic Chemistry
Publications: 8 (6-International; 02-National)
Seminars/Webinars/Conferences/Workshops Attended: 11
(5-International; 6-National)
Email: pratibhasamreen@yahoo.co.in
- Name:** Ms. Anu Bangar
Designation: Assistant Professor
Qualification: M.Sc., B.Ed, (CSIR-UGC NET Qualified)
Area of Specialization: Spectroscopy
Publications: 1 (International)
Seminars/Webinars/Conferences/Workshops Attended: 4
(1-International; 3-National)
Email: anubangar16@gmail.com



Name: Ms. Pinky
Designation: Assistant Professor
Qualification: M.Sc., B.Ed
Area of Specialization: Organic Chemistry
Seminars/Webinars/Conferences/Workshops Attended: 11 (National)
Email: pinkysingh726@gmail.com



- **Name:** Ms. Preeti
Designation: Assistant Professor
Qualification: M.Sc., B.Ed
Area of Specialization: Organic Chemistry
Email: preetidutta70@gmail.com



BOTANY

- **Name:** Ms. Manvinder Kaur
Designation: Assistant Professor
Qualification: M.Sc., B.Ed.
Area of Specialization: Arid Zone Ecology
Publications: 01 (National)
Seminars/Webinars/Conferences/Workshops Attended: 16(01-International, 15-National)
Email: mkmanvinder123@yahoo.com

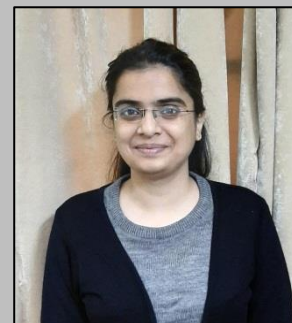


- **Name:** Dr. Vanita Chahal
Designation: Assistant Professor
Qualification: M.Sc. (Hons.), M.Phil, Ph.D.
Area of Specialization: Environmental Toxicity, Cytogenetics, Mutagenesis, Pesticide Residue Analysis and Heavy Metal Contamination
Publications: 28 (24-International; 02-National)
Books: 02
Awards and Honors: Young Scientist Award-2014, Emerging Scientist Award-2017
Seminars/Webinars/Conferences/Workshops Attended: 19 (15-International; 4-National)
Email: vanitachahal@gmail.com



ZOOLOGY

- **Name:** Ms. Riya Verma
Designation: Assistant Professor
Qualification: M.Sc.
Area of Specialization: Entomology
Seminars/Webinars/Conferences/Workshops Attended: 14
(01-International; 13-National)
Email: riaverma199010@gmail.com



- **Name:** Ms. Radhika
Designation: Assistant Professor
Qualification: M.Sc.
Area of Specialization: Parasitology
Email: radhikakashyap658@gmail.com

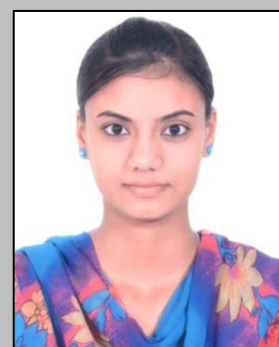


PHYSICS

- **Name:** Ms. Nirwinder Kaur
Designation: Assistant Professor
Qualification: M.Sc. (Hons.), B.Ed
Area of Specialization: Plasma Physics, Condensed Matter Physics
Publications: 04 (02-International, 02-national)
Seminars/Conferences/Workshops Attended: 07 (02-International; 04-National)
Email: nirwinder@gmail.com



- **Name:** Ms. Priya Sharma
Designation: Assistant Professor
Qualification: M.Sc., B.Ed.
Area of Specialization: Particle Physics, Condensed Matter Physics
Publications: 01 (International)
Seminars/Conferences/Workshops Attended: 16
(1-International, 15-National)
Email: priya.piu9@gmail.com



“A Scientist is not a person who gives the right answers; he is one who asks the right questions.”

INFRASTRUCTURE

Teaching science is not only confined to classroom teaching, but it is fully based on the exposure of the students that they can get outside the classroom. Keeping this in mind, the department has different Labs, Smart classrooms, Botanical garden, Vermiculture, Green house etc. where students of the department can get firsthand experience to enhance their knowledge.

(I) Laboratories

The Department consists of well established, fully equipped and modernized laboratories in the fields of Botany, Biotechnology (Tissue culture lab and Instrumentation lab), Zoology, Chemistry and Physics. Various sophisticated equipment include, UV-VIS spectrophotometer, potentiometer, laminar airflow, BOD incubator and seed germinator. The students make appropriate use of the same and grab unprecedented opportunities for interdisciplinary collaboration.



Botany Lab



Zoology Lab



Tissue Culture Lab



Physics lab



Chemistry Lab



Optics Lab

(II) SMART CLASS ROOMS

The Department also owns one smart class room promoting digital education to students. The staff makes use of this platform and uses all interactive modules like videos and power point presentations for students. These modules are eye catching, fast and effective. The students are also in return engrossed in digital training to harness heir potential and build confidence.



Smart Classroom

(III) BOTANICAL GARDEN

The practical knowledge of flora and fauna is imparted to the students through Botanical Garden and Green House.

Botanical garden of the department consists of different plant varieties along with some microorganisms. The setup is fully based on the Bentham and Hooker system of classification. It also contains a separate rose garden and cactus garden in which different species of rose and cacti are present. Along with this, it have aquatic pond for the growth of various aquatic plants i.e. hydrophytes and microorganisms. There are various parallel project plans running in the botanical garden:

- **Vermiculture unit** - In this unit, organic manure is prepared using earth worms, cow dung and various plant litters which are subsequently used in garden and campus lawns to ensure organic farming.
- **Vermiwash unit** - This unit has been successfully running where bio pesticides are generated and supplied to the plants as alternative to the inorganic fertilizers.
- **Preparation of potash alum from waste aluminium foil** - The waste aluminium foil of the campus is used to generate potash alum which is used as a toilet cleaner. This chemical is also used in chemistry lab for various experimental purposes.



Botanical Garden



Vermiculture Unit



Preparation of Potash Alum



Vermivash Unit

(IV) GREEN HOUSE:

The department also has a green house where plants which require particular climatic conditions are grown. Students are assigned to work and clean the green house and utilize it for the academic curriculum.



Various activities carried out by the department

➤ Co-Curricular activities of Department:

Taking into consideration of student's holistic development, the department also motivates the students to participate in inter-college as well as intra-college activities held time to time. All these activities help the students to enhance their knowledge and creativity.

➤ SESSION 2019-2020

1. EDUCATIONAL VISIT TO SCIENCE CITY

The department of Science organised an educational trip to Science City, Kapurthala on Sep 8, 2019. The students visited digital planetarium, flight simulator, earthquake simulator, laser show and dinosaur park and got knowledge about virtual satellites, space satellites etc.



2. OZONE DAY CELEBRATION

The department of Science organised rally on ‘The Depletion of Ozone Layer’ in the college campus on Sep 16, 2019 creating awareness about the problems faced due to ozone layer depletion. They also motivated other students to lessen the use of harmful components which are responsible for ozone depletion.



3. BEST OUT OF WASTE EXHIBITION

The department of Science organised an exhibition on Theme BEST OUT OF WASTE on Sep 30, 2019. The main motive of this exhibition was to create awareness among students on environment conservation and to inculcate habits of minimization of waste.



4. SPECIAL LECTURE ON COVID-19, A GLOBAL OUTBREAK

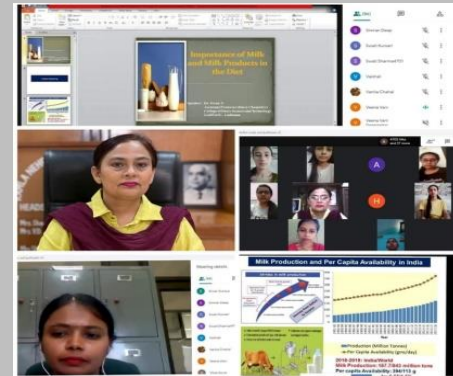
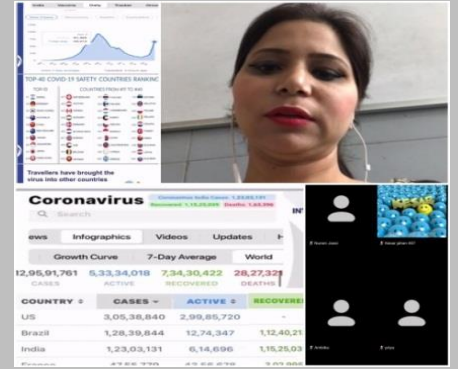
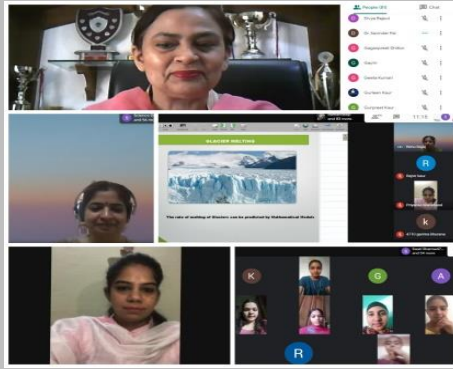
Department of Science organized a virtual special lecture on “**Corona Virus Disease 2019 (COVID-19) - A Global Outbreak**” on zoom app on June 9, 2020. In this online Lecture, Dr. Vanita Chahal, Assistant Professor of Botany acted as the Resource Person and explained very basics of this Pandemic disease. She also explained the symptoms and mode of multiplication.

Extension Lectures/Workshops Organized:

➤ SESSION 2020-2021

Apart from the heavy loaded curriculum, extra knowledge is provided to students in the form of various webinars held time to time by the experts of national or international repute.

| Sr. No | Topic | Organized By | Name of the expert | Designation |
|---------------|---|------------------------------------|---------------------------|--|
| 1. | Free electron theory of metal. | Physics Department | Dr. Sukhwinder Singh | Associate Professor, Department of Physics, Government College for Girls, Ludhiana |
| 2. | Importance of Milk and Milk Products in the diet. | Chemistry Department | Dr. Veena N | Assistant Professor of Chemistry, College of Dairy Science and Technology Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana |
| 3. | Mathematical Modelling with differential equations. | Mathematics Department | Dr. Renu Bajaj | Associate Professor, Department of Mathematics, Panjab University Chandigarh |
| 4. | Environmental Mutagens: Consequences and Remediation. | Botany Department | Dr. Jatinder Kaur | Associate Professor and Head, Department of Botanical and Environmental Sciences, G.N.D.U |
| 5. | Rodents as vectors for disease transmission and their management. | Zoology Department | Dr. Neena Singla | Associate Professor and Head, Department of Zoology, Punjab Agricultural University, Ludhiana |
| 6. | Re-emergence of COVID-19 (A Global Outbreak) | Science Department | Dr. Vanita Chahal | Assistant Professor, Kamla Nehru College For Women, Phagwara |
| 7. | How to write a Research Paper | Science Research Journal Committee | Dr. Vanita Chahal | Assistant Professor, Kamla Nehru College For Women, Phagwara |
| 8. | Guidelines for Research Journal | Science Research Journal Committee | Dr. Vanita Chahal | Assistant Professor, Kamla Nehru College For Women, Phagwara |



Intra-college competitions

❖ SESSION 2019-2020

1. NATIONAL SCIENCE DAY 2020

Department of Science celebrated *NATIONAL SCIENCE DAY* on Feb 28, 2020 under the theme-“*WOMEN IN SCIENCE*” in which students actively participated in various online events like *Visualize 2050 through still and working models*, *Collage making on the theme Women in Science*, *Kaun Banega Scientist (Quiz)*, *Wings through Canvas*, *Potted Plant Competition* and *Science Declamation*



❖ SESSION 2020-2021

1. WORLD HEALTH DAY:

Department of Science celebrated *WORLD HEALTH DAY* on April 7, 2021 in which students actively participated in various online events like *Poster Making*, *Slogan Writing* and *Video Clips* under the theme “*BUILDING A HEALTHIER AND FAIRER WORLD*”



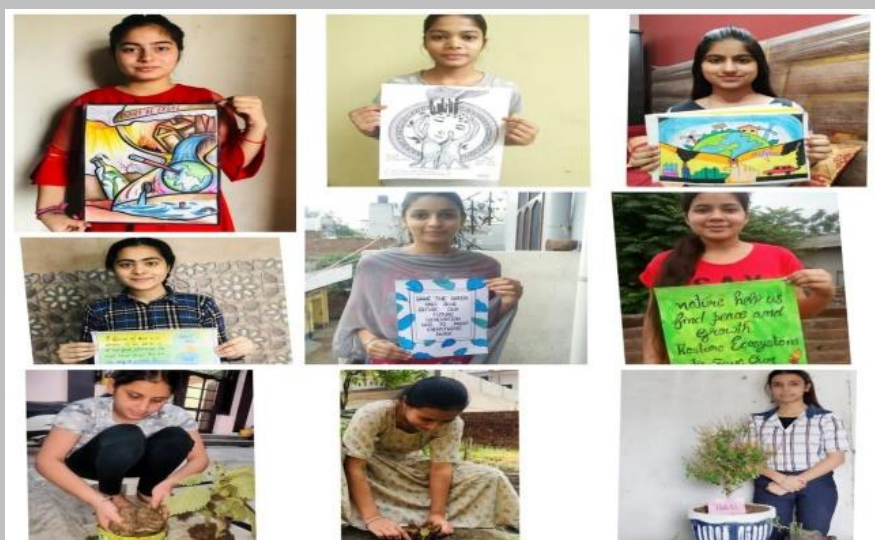
2. WORLD EARTH DAY:

Department of Science celebrated **WORLD'S EARTH DAY** on April 22, 2021 where Mr. Malkeet Singh Raghbotra, a renowned environment worker planted trees to celebrate this day. During this event, a power point presentation on "**MOTHER EARTH-A SOLITARY PLANET TO SUSTAIN LIFE**" was also delivered by Dr. Vanita Chahal, Assistant Professor of the same department.



3. WORLD ENVIRONMENT DAY:

Department of Science celebrated **WORLD'S ENVIRONMENT DAY** on June 05, 2021 in which students actively participated in various online events like Poster Making, Slogan Writing and Potted Plant Competition.



Inter- College Competitions

➤ SESSION 2019-2020

Mendeleev Society of Chemistry of Lyallpur Khalsa College, Jalandhar organized an inter college competition in which the students of Science Department of our college participated and won prizes.

| Sr. No | Name | Event | Prize |
|--------|----------------|-------------------------|-------------|
| 1. | Gurpreet Kaur | Card Making Competition | Second |
| 2. | Kamaljeet Kaur | Collage making | Consolation |



➤ SESSION 2020-2021

Online BFC Le-Science Competitions – 2021 organized by Science Club, Faculty of Sciences, Baba Farid College, Bathinda in which students of Science Department participated and won prizes.

| Sr. No | Name | Event | Prize |
|--------|--------|---------------|--------|
| 1. | Harman | Poster Making | Second |



GREEN SQUAD

Green Squad is a team of B.Sc (Medical) students who keeps regular check to botanical garden as well as to the lawns of college for the maintenance of plants. They not only preserve the old plants but also check the cleanliness of lawns and whole college campus. Moreover, ecofriendly plants have been planted like hyper accumulators and bioremediators.
Teacher Incharges: *Ms. Riya and Ms. Radhika*

THE TEAM “GREEN SQUAD”

➤ SESSION 2019-2020

| Sr. No. | Class | Name of Students |
|----------------|------------------------|-------------------------|
| 1. | B.Sc (Medical) Sem V | Amandeep Kaur |
| 2. | Do | Sukhwinder Kaur |
| 3. | Do | Vanshika Sharma |
| 4. | Do | Tunish Kaur |
| 5. | B.Sc (Medical) Sem III | Rajni Rani |
| 6. | Do | Gurpreet Kaur |
| 7. | Do | Ambika Saloni |
| 8. | Do | Krishita |



➤ **SESSION 2020-2021**

| Sr. No. | Class | Name of Students |
|---------|------------------------|--------------------|
| 1. | B.Sc (Medical) Sem V | Krishita |
| 2. | do | Gurpreet Kaur |
| 3. | do | Rajni Rani |
| 4. | do | Ambika Saloni |
| 5. | B.Sc (Medical) Sem III | Bhawna Sood |
| 6. | do | Gaganpreet Kaur |
| 7. | B.Sc (Medical) Sem I | Manroop Kaur |
| 8. | do | Gaganpreet Kaur |
| 9. | do | Jaskaranpreet Kaur |



ENERGY SQUAD:

Energy Squad is an another team of B.Sc. (Non-Medical) students who promotes the awareness of energy usage and also motivates others on energy wastage issues. The team makes regular visits to all college premises and ensures zero wastage of energy. A new project has been initiated by the “Energy Squad” team in support of conservation where drained water is collected and reused for secondary purposes and for watering the plants. The students also celebrate Earth Hour to spread awareness for the preservation of electrical energy.

Teacher Incharges: *Ms. Nirwinder Kaur, Ms. Priya Sharma*

THE TEAM "ENERGY SQUAD"

➤ SESSION 2019-2020

| Sr.No | Class | Name of Students |
|-------|----------------------------|------------------|
| 1. | B.Sc (Non- Med) Sem V | Amandeep Kaur |
| 2. | do | Sunaina |
| 3. | do | Gurpreet Kaur |
| 4. | do | Harman |
| 5. | do | Esha Sharma |
| 6. | do | Diksha |
| 7. | B.Sc (Non-Med) Sem III | Khushi |
| 8. | do | Rishmeen |
| 9. | do | Nainika |
| 10. | do | Arvinder |
| 11. | B.Sc (Comp. Science) Sem V | Harpreet Kaur |



➤ SESSION 2020-2021

| Sr.No. | Class | Name of Students |
|--------|----------------------------------|------------------|
| 1. | B.Sc (Non- Med) Sem V | Khushi |
| 2. | do | Rishmeen |
| 3. | do | Arvinder |
| 4. | do | Swati kumari |
| 5. | do | Divya |
| 6. | B.Sc (Computer Science) Sem V | Alisha |
| 7. | B.Sc (Computer Science) Sem III | Gursharan Kaur |
| 8. | do | Rajvir Kaur |
| 9. | B.Sc (Non-Medical) Sem III | Anjali |
| 10. | do | Manisha Ranga |



Students got Blood Bank Scholarships

➤ **SESSION 2019-2020**

| Sr. No. | Name | Class |
|---------|------------------|-------------------------|
| 1. | Anjali | B.Sc. (Non-Med) Sem I |
| 2. | Amanjot Kaur | do |
| 3. | Gaganpreet | B.Sc. (Med) Sem I |
| 4. | Monika | do |
| 5. | Jasmeen Kaur | do |
| 6. | Swati Kumari | B.Sc. (Non-Med) Sem III |
| 7. | Divya | do |
| 8. | Simranpreet Kaur | B.Sc. (Med) Sem V |
| 9. | Jasmine | B.Sc. (Non-Med) Sem V |
| 10. | Jaspreet | do |

Prides of the Department

➤ **SESSION 2019-2020**

| Sr. No. | Name | Class | Percentage |
|---------|---------------|-------------------------|------------|
| 1. | Muskaan | B.Sc. III (Non-Medical) | 76% |
| 2. | Anjali | B.Sc. III (Medical) | 74.58% |
| 3. | Amandeep | B.Sc. II (Non-Medical) | 80% |
| 4. | Jaspreet | B.Sc. II (Non-Medical) | 77.3% |
| 5. | Arvinder Kaur | B.Sc. I (Non-Medical) | 72.8% |
| 6. | Rishmeen | B.Sc. I (Non-Medical) | 72.5% |
| 7. | Ambika | B.Sc. I (Medical) | 72.3% |
| 8. | Gurpreet Kaur | B.Sc. I (Medical) | 71.5% |



➤ **SESSION 2020-2021**

| Sr. No. | Name | Class | Percentage |
|---------|---------------|-------------------------|------------|
| 1. | Amandeep Kaur | B.Sc. III(Non-Medical) | 87.75 |
| 2. | Gurleen Kaur | B.Sc. III(Non-Medical) | 85 |
| 3. | Sunaina | B.Sc. III(Non-Medical) | 83.25 |
| 4. | Vanshika | B.Sc. III(Medical) | 81.25 |
| 5. | Sukhwinder | B.Sc. III(Medical) | 79.5 |
| 6. | Jasmeen | B.Sc. III(Medical) | 79.25 |
| 7. | Saira Bano | B.Sc. III(Comp Science) | 76.25 |
| 8. | Navdeep | B.Sc. III(Comp Science) | 71.5 |
| 9. | Sunita Rani | B.Sc. III(Comp Science) | 71 |



Students Enrolled For Higher Studies

➤ SESSION 2019-2020

| Sr. No. | Name | Class | Institute |
|---------|-------------|-----------------|---|
| 1. | Simran Kaur | M.Sc. Botany | G.N.D.U |
| 2. | Vinita | M.Sc. Zoology | L.P.U |
| 3. | Pinky | M.Sc. Zoology | D.A.V. College, Jalandhar |
| 4. | Roshni | M.Sc. Zoology | D.A.V. College, Jalandhar |
| 5. | Deeksha | M.Sc. Botany | H.M.V. College, Jalandhar |
| 6. | Muskaan | M.Sc. Chemistry | D.A.V. College, Jalandhar |
| 7. | Bhawna | M.Sc. Chemistry | Lyallpur Khalsa College, Jalandhar |
| 8. | Isha | M.Sc. Physics | K.M.V. College, Jalandhar |
| 9. | Bhawna | M.Sc. Maths | Lyallpur Khalsa College, Jalandhar |
| 10. | Nandini | M.Sc. Maths | Lyallpur Khalsa College, Jalandhar |
| 11. | Simran | M.Sc. Chemistry | Lyallpur Khalsa College, Jalandhar |
| 12. | Anjali | B.Ed | Ramgarhia College of Education, Phagwara |
| 13. | Rohi | B.Ed | Ramgarhia College of Education, Phagwara |
| 14. | Sandheya | B.Ed | Ramgarhia College of Education, Phagwara |
| 15. | Jagriti | B.Ed | Ramgarhia College of Education, Phagwara |
| 16. | Gurpreet | B.Ed | Ramgarhia College of Education, Phagwara |
| 17. | Karishma | B.Ed | Ramgarhia College of Education, Phagwara |

➤ **SESSION 2020-2021**

| Sr. No. | Name | Class | Institute |
|---------|---------------|-----------------|---|
| 1. | Amandeep Kaur | M.Sc. Chemistry | Guru Nanak Dev University |
| 2. | Tunish | M.Sc. Zoology | D.A.V. College, Jalandhar |
| 3. | Jasdeep Kaur | M.Sc. Physics | Lyallpur Khalsa College, Jalandhar |
| 4. | Esha | M.Sc. Physics | Lyallpur Khalsa College, Jalandhar |
| 5. | Jagpreet | M.Sc. Physics | Lyallpur Khalsa College, Jalandhar |
| 6. | Sunaina | M.Sc. Chemistry | Lyallpur Khalsa College, Jalandhar |
| 7. | Diksha | M.Sc. Chemistry | Lyallpur Khalsa College, Jalandhar |
| 8. | Jaspreet | M.Sc. Maths | Lyallpur Khalsa College, Jalandhar |
| 9. | Gurpreet | M.Sc. Maths | Ramgarhia College of education, Phagwara |
| 10. | Jaskiran | M.Sc. Maths | Lyallpur Khalsa College, Jalandhar |
| 11. | Charvi | L.L.B. | Lyallpur Khalsa College, Jalandhar |
| 12. | Gurleen Kaur | B.Ed | Kamla Nehru College of Education for Women |
| 13. | Sunita | B.Ed | Kamla Nehru College of Education for Women |
| 14. | Monika | B.Ed | Kamla Nehru College of Education for Women |
| 15. | Navneet | B.Ed | Kamla Nehru College of Education for Women |
| 16. | Jasmine | B.Ed | Kamla Nehru College of Education for Women |
| 17. | Vanshika | B.Ed | Kamla Nehru College of Education for Women |

Placement

➤ **SESSION 2020-2021**

| Sr. No. | Name | Class | Company |
|---------|-------|------------------|---------|
| 1. | Divya | B.Sc Non-Medical | Infosys |



Workshops/Seminars/Webinars attended by Teachers

➤ SESSION 2019-2020

Faculty of Science, Dr. Pratibha Paliwal and Ms. Anu Bangar attended one day workshop (DBT Sponsored) on “GREEN CHEMISTRY: DESIGNING CHEMISTRY FOR HUMAN HEALTH AND ENVIRONMENT” organized by Department of Chemistry, D.A.V College Jalandhar.

➤ SESSION 2020-2021

| Sr. No. | Name | Number of Webinars/Workshops attended |
|---------|-------------------|---------------------------------------|
| 1. | Ms. Priyanka | 10 |
| 2. | Ms. Manvinder | 14 |
| 3. | Dr. Vanita Chahal | 16 |
| 4. | Ms. Shreya Jain | 13 |
| 5. | Ms. Riya Verma | 12 |
| 6. | Ms. Pinky | 11 |
| 7. | Ms. Priya Sharma | 10 |

Teacher's Publications

➤ SESSION 2019-2020

| Sr. No. | Name | Publications |
|---------|-------------------|--------------|
| 1. | Dr. Vanita Chahal | 03 |

Celebration of Important Days

- “Van Mahotsav” (July1-July7) by planting trees in and outside the college premises.
- “Breast Feeding Week” (Aug1-Aug7) by enlightening the students through informative talks by the team of esteemed experts.
- “Cancer Day” (4 Feb) by imparting informative talks and intra departmental competitions.
- “Science Day” (28 Feb) by hosting different scientific activities.
- “Ozone Day” (16 Sep) by fancy dress and poster making competitions.
- “Water Day” (22 March) by organizing rally and various competitions.
- “Health Day” (7 April) by arranging slogan writing competitions.
- “Earth Day” (22 April) by planting trees.

We are Unique.....

- Smart class room for effective teaching and training
- Extension lectures and Workshops by experts to enlighten our students
- Educational trips/ collection trips to universities and research institutes to provide hand on training to our students
- Research projects by the students to engross them in research
- Class seminars by students via power point presentations
- Regular tests/assignments throughout the course
- Well-equipped laboratories with modern facilities
- Add-on vocational courses
- Competitions for students to motivate them apart from academics

Miles to go.....

- Establishment of Zoological Museum
- Plant Herbarium
- Departmental Library
- Computer Lab

Phagwara: The department of physics of Kamla Nehru College of Women conducted a webinar on the topic "Free Electron Theory of Metal". Prof Sukhwinder Singh, Department of Physics, Government College for Girls, Ludhiana, was invited as the resource person. Dr Savinder Pal, college principal, greeted the resource person with a formal welcome. Piyanka, (HoD) Department of Science, introduced and welcomed Prof Sukhwinder Singh. The resource person discussed the concepts of free electron theory and its relationship in graphical form with other statistical theories. He focused on the concepts of density of states, free electron gas in three dimension and many more. Dr Savinder Pal, the college principal, emphasised that such webinar plays a significant role to understand the concepts of physics deeply. Piyanka, (HoD) Science Department, pronounced a vote of thanks. More than 100 participants

कमला नेहरू कॉलेज फॉर वूमैन में करवाया वैबिनार

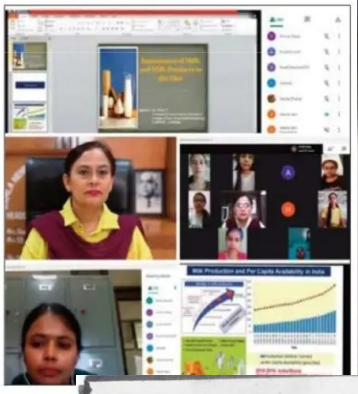


वैबिनार में शामिल प्राचार्य डॉ. सविन्दर पाल, डॉ. नीना सिंगला व अन्य।

कमला नेहरू कॉलेज फॉर वूमैन फगवाड़ा के भौतिक विज्ञान विभाग तथा आईक्यूएसी के सहयोग से "फ्री इलेक्ट्रॉन थ्यरी ऑफ मेटल" विषय पर वैबिनार करवाया गया। इसमें बतौर प्रोफेसर डॉ. सुखविंदर सिंह, प्रवक्ता फिजिक्स विभाग, गवर्नमेंट कॉलेज फार गर्ल्स को आमंत्रित किया गया। कॉलेज प्राचार्या डॉ. सविंदर पाल ने वक्ता का औपचारिक अभिनंदन किया जबकि साइंस विभाग की अध्यक्षा प्रियंका ने उनका परिचय पढ़ते हुए उनका स्वागत किया। डॉ. सुखविंदर सिंह ने संक्षेप में "फ्री इलेक्ट्रॉन थ्यरी पर चर्चा करते हुए उसकी तुलना दूसरी स्टैटिस्टिकल थ्यरी के साथ ग्राफ की मदद से समझाई। उन्होंने सेमीकंडक्टर डोपिंग का विशेष उल्लेख किया। उन्होंने फ्री-ई गैस इन थ्री डायमेंशनस तथा फ्री इलेक्ट्रॉनस इन मेटल प्रकाश डाला। प्राचार्या डॉ. पाल ने कहा कि ऐसे

कमला नेहरू कॉलेज में वैबिनार का आयोजन

फगवाड़ा, 27 मई (अमनदीप) : स्थानीय कमला नेहरू कॉलेज फॉर वूमैन फगवाड़ा के रसायनशास्त्र विभाग तथा आई.क्यू.ए.सी. के सांझा सहयोग से हफ्तेदूसरे तथा दूध परावर्ण के महत्वपूर्ण विषय पर वैबिनार का आयोजन किया गया, जिसमें बतौर स्रोत वक्ता डॉ. नीना एन. अविस्टेट प्रोफेसर डेवे केमिस्ट्री, गुरुअंध देव वैटनरी एंड एग्जिनल साइंस रूनिवर्सिटी, लुधियाना को सादर आमंत्रित किया गया। इस अवसर पर कॉलेज के साइंस विभाग की अध्यक्षा मैडम प्रियंका ने स्रोत वक्ता का परिचय प्रस्तुत किया तथा प्राचार्या डॉ. सविन्दर पाल ने उनका औपचारिक स्वागत किया। डॉ.नीना ने अपने संबोधन में भारत में दूध के उत्पादन में प्रति व्यंजन की उपलब्धता के बारे में जानकारी दी तथा ग्रामीण तथा शहरी क्षेत्रों में विवर के विभिन्न हिस्सों में दूध के उपयोग तथा प्रक्रिया का उल्लेख किया। स्रोत वक्ता ने दूध के अलग-अलग रूपों व उसके महत्व के बारे में भी जानकारी दी। उन्होंने दूध तथा दूध के परावर्ण के सेवन को मानव आहार के लिए आवश्यक बताते हुए कहा कि दूध के सेवन द्वारा हम शारीरिक व मानसिक शक्ति प्राप्त करते हुए कई सुखनीची संकल्पित बीमारियों से बचाव कर सकते हैं। डॉ. नीना ने अपने विषय को पीपीटी व स्टैटिस्टिकल डेटा के माध्यम से स्पष्ट किया। कॉलेज प्राचार्य डॉ. सविन्दर पाल ने डॉ. नीना का आभार व्यक्त करते हुए सभी छात्राओं को दूध और दूध परावर्ण के सेवन के लिए प्रेरित किया ताकि कोविड के इस कठिन दौर में हम शारीरिक तौर पर अपनी रोग प्रतिरोधक शक्ति को बढ़ा सकते हैं। उन्होंने वैबिनार के आयोजकों मैडम प्रियंका व उनकी टीम को बधाई देते हुए पर्यटन में भी ऐसे जानकारीयुक्त कार्यक्रम का प्रेरणा दी। वैबिनार के अंत में मैडम प्रियंका ने डॉ. नीना, प्रिंसिपल डॉ. सविन्दर पाल तथा 100 से भी अधिक वैबिनार प्रतिभागियों का धन्यवाद किया।



वैबिनार में शामिल सविन्दर पाल व

कमला नेहरू कॉलेज फगवाड़ा में वैबिनार का

फगवाड़ा, 13 मई (अमनदीप) : स्थानीय कमला नेहरू कॉलेज फॉर वूमैन, फगवाड़ा के भौतिक विज्ञान विभाग तथा आई.क्यू.ए.सी. के सांझा सहयोग से हफ्तेदूसरे इलेक्ट्रॉन थ्यरी ऑफ मेटल विषय पर वैबिनार करवाया गया, जिसमें बतौर स्रोतवक्ता प्रो. डॉ. सुखविंदर सिंह, प्रवक्ता फिजिक्स विभाग, गवर्नमेंट कॉलेज फॉर गर्ल्स को सादर आमंत्रित किया गया। इस अवसर पर कॉलेज प्राचार्या डॉ. सविन्दर पाल ने स्रोतवक्ता का औपचारिक अभिनंदन किया जबकि साइंस विभाग की अध्यक्षा मैडम प्रियंका ने उनका परिचय पढ़ते हुए उनका स्वागत किया। डॉ. सुखविंदर सिंह ने संक्षेप में हफ्तेदूसरे इलेक्ट्रॉन थ्यरी पर चर्चा करते हुए उसकी तुलना दूसरी स्टैटिस्टिकल थ्यरी के साथ ग्राफ की मदद से समझाई। उन्होंने



वैबिनार में शामिल प्रो. डॉ. प्राचार्या डॉ. सविन्दर पाल।

कमला नेहरू कॉलेज में वैबिनार करवाया

संवाद सहयोगी, फगवाड़ा : कमला नेहरू कॉलेज फॉर वूमैन में वनस्पति विज्ञान विभाग तथा आईक्यूएसी के संयुक्त सहयोग से प्रिंसिपल डॉ. सविंदर पाल के नेतृत्व में पर्यावरण परिवर्तन, प्रभाव तथा उपचार विषय पर वैबिनार करवाया गया। मुख्य वक्ता डॉ. जतिंदर कौर, अध्यक्ष वनस्पति व पर्यावरण विज्ञान विभाग, गुरु नानक देव विश्वविद्यालय ने पर्यावरण में आ रहे बदलाव तथा उनसे हो रहे प्रभावों की विस्तारपूर्वक जानकारी



कमला नेहरू कॉलेज में पर्यावरण परिवर्तन, प्रभाव तथा उपचार विषय पर करवाए गए में भाग लेती प्रिंसिपल डॉ. सविन्दर पाल व स्टाफ सदस्य • जागरण

उन्होंने बताया कि पर्यावरण के होने के कारण ही यह परिवर्तन आ रहे हैं। उन्होंने कहा कि हमें अधिक खेती को बढ़ावा देने की जरूरत खुले में कचरा फेंकने पर तथा पर्यावरण संरक्षण संबंधी का पालन करने की जरूरत है। सविंदर पाल ने डॉ. जतिन्दर कौर का धन्यवाद किया।



कमला नेहरू कॉलेज में पर्यावरण परिवर्तन, प्रभाव तथा उपचार विषय पर करवाए गए में भाग लेती प्रिंसिपल डॉ. सविन्दर पाल व स्टाफ सदस्य • जागरण

फगवाड़ा, 27 मई (अमनदीप) : स्थानीय कमला नेहरू कॉलेज फॉर वूमैन फगवाड़ा के रसायनशास्त्र विभाग तथा आई.क्यू.ए.सी. के सांझा सहयोग से हफ्तेदूसरे तथा दूध परावर्ण के महत्वपूर्ण विषय पर वैबिनार का आयोजन किया गया, जिसमें बतौर स्रोत वक्ता डॉ. नीना एन. अविस्टेट प्रोफेसर डेवे केमिस्ट्री, गुरुअंध देव वैटनरी एंड एग्जिनल साइंस रूनिवर्सिटी, लुधियाना को सादर आमंत्रित किया गया। इस अवसर पर कॉलेज के साइंस विभाग की अध्यक्षा मैडम प्रियंका ने स्रोत वक्ता का परिचय प्रस्तुत किया तथा प्राचार्या डॉ. सविन्दर पाल ने उनका औपचारिक स्वागत किया। डॉ.नीना ने अपने संबोधन में भारत में दूध के उत्पादन में प्रति व्यंजन की उपलब्धता के बारे में जानकारी दी तथा ग्रामीण तथा शहरी क्षेत्रों



वैबिनार में शामिल प्रो. डॉ. प्राचार्या डॉ. सविन्दर पाल।

कमला नेहरू कॉलेज फगवाड़ा में वैबिनार का

फगवाड़ा, 7 अप्रैल (अमनदीप) : स्थानीय कमला नेहरू कॉलेज फॉर वूमैन फगवाड़ा के भौतिक विज्ञान विभाग तथा आई.क्यू.ए.सी. के सांझा सहयोग से हफ्तेदूसरे इलेक्ट्रॉन थ्यरी ऑफ मेटल विषय पर वैबिनार करवाया गया, जिसमें बतौर स्रोतवक्ता प्रो. डॉ. सुखविंदर सिंह, प्रवक्ता फिजिक्स विभाग, गवर्नमेंट कॉलेज फॉर गर्ल्स को सादर आमंत्रित किया गया। इस अवसर पर कॉलेज प्राचार्या डॉ. सविन्दर पाल ने स्रोतवक्ता का औपचारिक अभिनंदन किया जबकि साइंस विभाग की अध्यक्षा मैडम प्रियंका ने उनका परिचय पढ़ते हुए उनका स्वागत किया। डॉ. सुखविंदर सिंह ने संक्षेप में हफ्तेदूसरे इलेक्ट्रॉन थ्यरी पर चर्चा करते हुए उसकी तुलना दूसरी स्टैटिस्टिकल थ्यरी के साथ ग्राफ की मदद से समझाई। उन्होंने

कमला नेहरू कॉलेज फगवाड़ा में वैबिनार का

संवाद सहयोगी, फगवाड़ा : कमला नेहरू कॉलेज फॉर वूमैन में वनस्पति विज्ञान विभाग तथा आईक्यूएसी के संयुक्त सहयोग से प्रिंसिपल डॉ. सविंदर पाल के नेतृत्व में पर्यावरण परिवर्तन, प्रभाव तथा उपचार विषय पर वैबिनार करवाया गया। मुख्य वक्ता डॉ. जतिंदर कौर, अध्यक्ष वनस्पति व पर्यावरण विज्ञान विभाग, गुरु नानक देव विश्वविद्यालय ने पर्यावरण में आ रहे बदलाव तथा उनसे हो रहे प्रभावों की विस्तारपूर्वक जानकारी

पौधारोपण कर छात्राओं को दिया पर्यावरण संरक्षण का संदेश



कालेज प्रांगण में पौधारोपण करते हुए लोग।

फगवाड़ा, 22 अप्रैल (अमनदीप) : कमला नेहरू कॉलेज फॉर वूमैन फगवाड़ा के साइंस विभाग द्वारा पृथ्वी दिवस मनाया गया, जिसमें बतौर मुख्यतिथि मलकीयत सिंह रघबीर ने शिरकत की। रघबीर ने इस विशेष दिवस पर कॉलेज प्रांगण में पौधारोपण किए तथा छात्राओं को संबोधन करते हुए कहा कि हम सभी को हर वर्ष कम से कम एक वृक्ष जरूर लगाना चाहिए तथा ये शुभ कार्य जीवन कर करते रहने का संकेत करना चाहिए। इस मौके डॉ. नीना, प्रवक्ता साइंस विभाग ने एक पीपीटी की प्रस्तुति दी जिसका विषय घरती या जीवन रक्षा का इकलौता पकड़ यह था। इस विशेष दिवस पर कॉलेज के प्राध्यापक वर्ग व छात्राओं द्वारा घरती व पर्यावरण को रक्षा करने के लिए तथा प्रदूषण के दूध का नाश करने के लिए सफ़ा महफ़ा की गई। कॉलेज प्राचार्या डॉ. सविन्दर पाल ने इस अवसर पर पौधारोपण भी किया तथा छात्राओं को पर्यावरण संरक्षण करने के लिए प्रेरित भी किया ताकि घरती माँ ही भरी व स्वच्छ रहे। उन्होंने प्राध्यापकों व छात्राओं को उत्सवमंद लोगों को युक्त में पौधे बांटने के लिए प्रेरित किया ताकि वे भी जागृतता को सुरक्षित रखने में अपना योगदान दे सकें।

कमला नेहरू कॉलेज फगवाड़ा में वैबिनार का

फगवाड़ा, 7 अप्रैल (अमनदीप) : स्थानीय कमला नेहरू कॉलेज फॉर वूमैन फगवाड़ा के भौतिक विज्ञान विभाग तथा आई.क्यू.ए.सी. के सांझा सहयोग से हफ्तेदूसरे इलेक्ट्रॉन थ्यरी ऑफ मेटल विषय पर वैबिनार करवाया गया, जिसमें बतौर स्रोतवक्ता प्रो. डॉ. सुखविंदर सिंह, प्रवक्ता फिजिक्स विभाग, गवर्नमेंट कॉलेज फॉर गर्ल्स को सादर आमंत्रित किया गया। इस अवसर पर कॉलेज प्राचार्या डॉ. सविन्दर पाल ने स्रोतवक्ता का औपचारिक अभिनंदन किया जबकि साइंस विभाग की अध्यक्षा मैडम प्रियंका ने उनका परिचय पढ़ते हुए उनका स्वागत किया। डॉ. सुखविंदर सिंह ने संक्षेप में हफ्तेदूसरे इलेक्ट्रॉन थ्यरी पर चर्चा करते हुए उसकी तुलना दूसरी स्टैटिस्टिकल थ्यरी के साथ ग्राफ की मदद से समझाई। उन्होंने

कमला नेहरू कॉलेज फगवाड़ा में वैबिनार का

फगवाड़ा, 22 अप्रैल (अमनदीप) : कमला नेहरू कॉलेज फॉर वूमैन फगवाड़ा के साइंस विभाग द्वारा पृथ्वी दिवस मनाया गया, जिसमें बतौर मुख्यतिथि मलकीयत सिंह रघबीर ने शिरकत की। रघबीर ने इस विशेष दिवस पर कॉलेज प्रांगण में पौधारोपण किए तथा छात्राओं को संबोधन करते हुए कहा कि हम सभी को हर वर्ष कम से कम एक वृक्ष जरूर लगाना चाहिए तथा ये शुभ कार्य जीवन कर करते रहने का संकेत करना चाहिए। इस मौके डॉ. नीना, प्रवक्ता साइंस विभाग ने एक पीपीटी की प्रस्तुति दी जिसका विषय घरती या जीवन रक्षा का इकलौता पकड़ यह था। इस विशेष दिवस पर कॉलेज के प्राध्यापक वर्ग व छात्राओं द्वारा घरती व पर्यावरण को रक्षा करने के लिए तथा प्रदूषण के दूध का नाश करने के लिए सफ़ा महफ़ा की गई। कॉलेज प्राचार्या डॉ. सविन्दर पाल ने इस अवसर पर पौधारोपण भी किया तथा छात्राओं को पर्यावरण संरक्षण करने के लिए प्रेरित भी किया ताकि घरती माँ ही भरी व स्वच्छ रहे। उन्होंने प्राध्यापकों व छात्राओं को उत्सवमंद लोगों को युक्त में पौधे बांटने के लिए प्रेरित किया ताकि वे भी जागृतता को सुरक्षित रखने में अपना योगदान दे सकें।

कमला नेहरू कॉलेज फार वूमन फगवाड़ा में वैबिनार

कमला नेहरू कॉलेज फॉर वूमन, फगवाड़ा के भौतिक विज्ञान विभाग तथा आईक्यूएसी के सहयोग से "फ्री इलेक्ट्रॉन थ्यरी ऑफ मेटल" विषय पर वैबिनार करवाया गया। इसमें बतौर प्रोफेसर डॉ. सुखविंदर सिंह, प्रवक्ता फिजिक्स विभाग, गवर्नमेंट कॉलेज फार गर्ल्स को आमंत्रित किया गया। कॉलेज प्राचार्या डॉ. सविंदर पाल ने वक्ता का औपचारिक अभिनंदन किया जबकि साइंस विभाग की अध्यक्षा प्रियंका ने उनका परिचय पढ़ते हुए उनका स्वागत किया। डॉ. सुखविंदर सिंह ने संक्षेप में "फ्री इलेक्ट्रॉन थ्यरी पर चर्चा करते हुए उसकी तुलना दूसरी स्टैटिस्टिकल थ्यरी के साथ ग्राफ की मदद से समझाई। उन्होंने सेमीकंडक्टर डोपिंग का विशेष उल्लेख किया। उन्होंने फ्री-ई गैस इन थ्री डायमेंशनस तथा फ्री इलेक्ट्रॉनस इन मेटल प्रकाश डाला। प्राचार्या डॉ. पाल ने कहा कि ऐसे

वैबिनार में छात्राओं को गणित को सरल बनाने के टिप्स दिए

कमला नेहरू कॉलेज की छात्राओं ने आयोजन में लिया हिस्सा



कमला नेहरू कॉलेज की ओर से करवाए गए वैबिनार में हिस्सा लेती छात्राएं • जागरण

संवाद सहयोगी, फगवाड़ा : कमला नेहरू कॉलेज फॉर वूमैन फगवाड़ा के गणित विभाग तथा आईक्यूएसी के सहयोग से वैबिनार करवाया गया विषय मैथेमेटिकल माडलिंग विद डिप्रेशियल इक्वैशनस था। वैबिनार में प्रवक्ता के तौर पर पंजाब विश्वविद्यालय चंडीगढ़ से प्रोफेसर डॉ. रेनु बजाज को आमंत्रित किया गया। प्रिंसिपल डॉ. सविंदर पाल ने मुख्य वक्ता का स्वागत किया। डॉ. रेनु ने कार्यशेखों में गणित के सही पैमाने और तथा महत्व पर प्रकाश डाला। उन्होंने गणित की प्रणाली को जीवंत के उदाहरण से जोड़ते हुए सरल ढंग से सीखने का सफल प्रयास किया। डॉ. सविंदर पाल ने कहा कि इस प्रकार के वैबिनार गणित के प्रति भी अधिक छात्राओं में भाग लिया।



पोस्टर मैकिंग प्रतियोगिता दौरान कॉलेज की छात्राओं द्वारा बनाए गए पोस्टर लड़ सके। कुल जिनमें विजेता पर तृतीय परस्कार प्राप्त किए। कॉलेज प्राचार्य डॉ. सविन्दर पाल ने विभाग के सभी प्राध्यापकों को बधाई देते हुए इस उद्देश्य को आम लोगों तक पहुंचाने के लिए उन्हें प्रेरित किया।