

Session 2021-23

S.D. College, Barnala
Department of Mathematics
Report on Workshop
"MATLAB Software Workshop"
(5 Feb. to 12 Feb., 2022)

Department of Mathematics, S D College, Barnala organized a 7 day long "MATLAB Software Workshop" from 5 February, 2022 to 12 February, 2022. During the workshop, the department provided contents of different sessions and arranged lectures, besides hands on activity on the "MATLAB" software. The Workshop enhanced the knowledge of the participating faculty members on "MATLAB" Software and made them aware of newer computational techniques for making plots and graphs. **20 faculty members** participated in the workshop.



Glimpses of "MATLAB Software Workshop" (5th Feb. to 12th Feb., 2022)

S.D. College, Barnala
Department of Physics
Report on Guest Lecture
"Electronics and Communication"
(26th April, 2022)

Keeping in mind the resonance of the above-mentioned words, Department of Physics and Mathematics in collaboration with all Science Departments jointly organised "Science Fair" on 25th and 26th April 2022 under DBT star college scheme. In this Science fair, a guest lecture on topic "**Electronics and Communication**" was also organised on **26th April, 2022**. Key speaker was Sh. Rakesh Kumar, (State Awardee) Principal, Govt. Sen. Sec. School Kattu, Barnala. In his lecture, Sh Rakesh Kumar highlighted the role and importance of semiconductor physics in ICT technology. He narrated some amazing electrical properties of semiconductors and their applications in different parts of hardware/software components of communication system. The speaker further explained fabrication and classification of different electronic devices like Diodes, Transistors, Integrated Circuits (ICs), Very Large-Scale Integration (VLSI) etc. He also briefly discussed the role of electromagnetic waves like radio waves, microwaves in transmission of information through TVs, radios and RADAR system etc. Around **105 students** attended this lecture.






Some photographs and News Cutting of the lecture “Intellectual Property Rights-A Tool for Protection of Innovations” and “Genetically modified Foods” (26th April, 2022)

**S.D. College, Barnala
Department of Zoology
Report on Guest Lectures**


**“Intellectual Property Rights-A Tool for Protection of Innovations” and “Genetically modified Foods”
(26 May, 2022)**

Under Star College Scheme, Deptt. of Zoology, S.D. College Barnala organized two ‘Guest Lectures’ on 26 May, 2022. For the first lecture on ‘Intellectual Property Rights-A Tool for Protection of Innovations’ the resource person was Dr. Balwinder Singh Sooch, Head Department of Biotechnology

and Deputy Coordinator (IPR and technology Transfer cell) Punjabi University Patiala, Punjab. Dr. Sooch explained various intellectual property rights including copyright, patent, and trademark etc. with examples from day to day life. For the second lecture on ‘**Genetically modified Foods**’ the resource person was Dr. R.S. Singh, Associate Dean, Chandigarh University, Gharuan, Punjab. Dr. Singh, who has been granted 2 Indian patents, has H-index 44 and more than 7000 citations explained various types of GM foods; various ways to develop them, their benefits, impact on environment, labeling issues etc. This event was attended by over **180 participants**: faculty as well as students from S.D. College of B. Pharmacy, S.D. College of D. Pharmacy, Dr. Raghubir Prakash Senior Secondary School, Barnala apart from the host College. Both the lectures were informative for students as well as for teachers from all streams.



DBT
Sponsored
Guest Lectures
(26th May, 2022)



Resource Person	Topic	Time
Dr. Ram Swaroop Singh <small>Associate Dean, Chandigarh University, Gharuan, Punjab</small>	Genetically Modified Foods	10:00 am
Dr. Balwinder Singh Sooch, <small>Head, Dept. of Biotechnology & Deputy Coordinator (IPR), Panjabi University, Patiala</small>	Intellectual Property Rights: A tool for Protection of Innovations	11:30 am

Departmental Co-ordinator
Dr. Renu Bala, HOD

Organized by
Department of Zoology
S.D. College, Barnala-148101

Brochure of the Event





Some photographs and News Cutting of the lectures (26 May, 2022)

- a) Intellectual Property Rights-A Tool for Protection of Innovations**
- b) Genetically modified Foods”**

S.D. College, Barnala
Department of Chemistry
Report on Workshop
Chemistry Software “ChemSketch”
(June 2, 2022)

A workshop on Chemistry software “ChemSketch” was organized by Department of Chemistry, S.D. College Barnala on **June 2, 2022** under DBT Star College Scheme. Dr. Bhupinder, Assistant Professor, Akal Degree College Mastuana Sahib was the resource person. This workshop was conducted in two sessions. In the first session resource person narrated that ChemSketch used by millions of scientists worldwide, is molecular modelling program used to create and modify images of chemical structures. She further highlighted that this software allows molecules and molecular models to display in two and three dimensions, to understand

the structures of chemical bonds and the nature of functional groups. She explained that the free version of ChemSketch intended for academic and personal use, has been accessible for more than two decades to students, academics and scientists to communicate research and create teaching materials. Users can also generate names for small molecules, calculate molecular properties, create professional reports, presentation, publication ready figures and search web based databases with the help of ChemSketch. In second session students did hands on training of the ChemSketch software with the help of resource person in software development lab. Students learnt to draw chemical structures and reactions, predict molecular properties, viewing molecules in 2D and 3D. About **140 participants**, including students from other institutions and teachers from various.



Some photographs of the workshop “ChemSketch” (June 2, 2022)

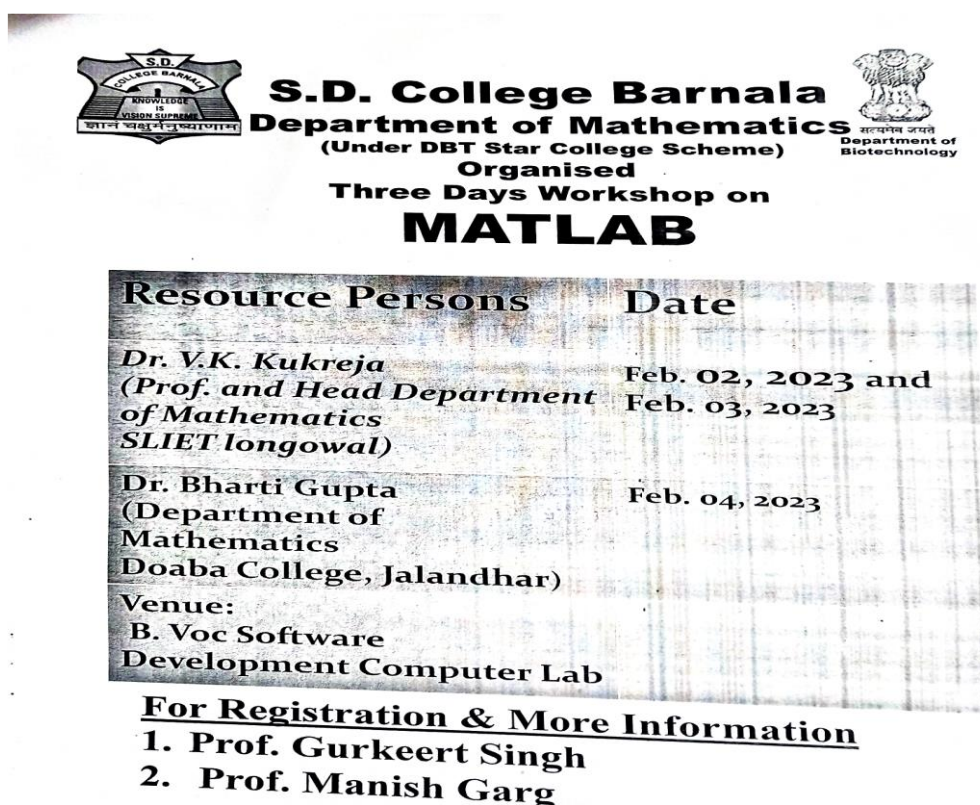
Session 2022-23

**S.D. College, Barnala
Department Of Mathematics
Report on Workshop**

“MATLAB”

(2nd Feb. to 4th Feb. 2023)

Under DBT Star College Scheme, Department of Mathematics organized three days workshop on software ‘MATLAB’ from **2nd February to 4th February 2023** to enhance the knowledge of students about MATLAB. In this workshop Dr. V.K. Kukreja, Professor and Head, Department of Mathematics, SLIET, Longowal and Dr. Bharti Gupta, Assistant Prof. Department of Mathematics, Doaba College, Jalandhar graced the occasion as resource persons. The students were given hands on training in this workshop. The workshop was concluded with Quiz Competition and Group Assignment Competition on MATLAB. About **30 students** participated in the workshop.



The brochure features the S.D. College Barnala logo on the left, which includes the motto 'KNOWLEDGE IS VISION SUPREMACY'. On the right is the logo of the Department of Biotechnology, Government of India. The central text reads: 'S.D. College Barnala Department of Mathematics (Under DBT Star College Scheme) Organised Three Days Workshop on MATLAB'. Below this is a table with two columns: 'Resource Persons' and 'Date'. The first row lists Dr. V.K. Kukreja (Prof. and Head Department of Mathematics, SLIET longowal) for Feb. 02, 2023 and Feb. 03, 2023. The second row lists Dr. Bharti Gupta (Department of Mathematics, Doaba College, Jalandhar) for Feb. 04, 2023. Below the table, the venue is specified as 'B. Voc Software Development Computer Lab'. At the bottom, it provides contact information for registration and more information, listing Prof. Gurkeert Singh and Prof. Manish Garg.

Resource Persons	Date
Dr. V.K. Kukreja (Prof. and Head Department of Mathematics SLIET longowal)	Feb. 02, 2023 and Feb. 03, 2023
Dr. Bharti Gupta (Department of Mathematics Doaba College, Jalandhar)	Feb. 04, 2023

Venue:
B. Voc Software
Development Computer Lab

For Registration & More Information
1. Prof. Gurkeert Singh
2. Prof. Manish Garg

Brochure of the Event



Photographs of the workshop on software 'MATLAB' from 2nd Feb. to 4th Feb. 2023

**S.D. College, Barnala
Department Of Chemistry
Report on Workshop
“Lab Safety Measures”
(13th Feb. 2023)**

A one-day workshop was organized on 'Lab Safety Measures' by Chemistry Department, SD College, Barnala. Dr. Kuldeep Kaur, Assistant Professor, Dept. of Chemistry, Mata Gujri College, Fatehgarh Sahib conducted the first two sessions where she elaborated about the Identification of Chemical Hazards and Risks and lab safety practices The third session was conducted by Sh. Vijay Sharma, Training Supervisor, Red Cross Society, Barnala, where he imparted training regarding artificial respiration, burning incidents, handling fractures and fire safety guidelines About **150 participants** including students from nearby colleges participated in the workshop.


S.D. College Barnala


Department of Chemistry

Organises

WORKSHOP ON

LAB SAFETY MEASURES

(Under DBT-Star College Scheme)
Date: Feb. 13, 2023

Particulars	Resource Person	Time & Venue
Session I – Identification of Chemical Hazards and Risks	Dr. Kuldeep Kaur, Dept. of Chemistry, Mata Gujri College, Fatehgarh Sahib	10:00 am to 11:30 am, Room No. I
Session II – Lab Safety Practices	Dr. Kuldeep Kaur, Dept. of Chemistry, Mata Gujri College, Fatehgarh Sahib	11:30 am to 01:00 pm, Room No. I
Session III – First Aid Training	Sh. Vijay Sharma, Dist. Training Supervisor, Red Cross Society Barnala	01:30 pm to 03:00 pm, Physics Lab

Brochure of the Event



Photographs of the workshop “Lab Safety Measures” (13th Feb. 2023)

S.D. College, Barnala
Department of Chemistry
Report on Workshop/Training
“Hydro-Distillation and Spectroscopic Techniques”
(21-22 March, 2023)

Chemistry Department, SD College, Barnala organized a two-day Hands-on Training Program on **Hydro-Distillation and Spectroscopic Techniques** on **21-22 March, 2023**. About **104 participants** of BSc Medical and Non-Medical participated in this programme. On the first day students learned about various methods of distillation from Dr. Rakesh Garg, Vice principal, SD College of Pharmacy. He also demonstrated the technique of Hydro-Distillation for extracting essential oils. After that, students performed the experiment for extracting oils from cloves and fennel seeds. On second day students were given training regarding UV Visible Spectrophotometer by Mrs. Anu Goyal, Assistant Professor, SD College of Pharmacy. She explained the students regarding various parts of spectrophotometer and technique to calibrate the instrument. Students also run the spectrum of organic compounds.

 **Department of Chemistry** 
S.D. College Barnala
In Collaboration with S.D.College of Pharmacy Barnala
Organises
Two Days Hands on Training Program
“Hydro-Distillation and Spectroscopic Techniques”
(Under DBT-Star College Scheme)
Date: March 21-22, 2023

Particulars	Resource Person	Time & Venue
Day-1 (21-3-2023) Extraction of Volatile Oils by Hydrodistillation	Dr. Rakesh Kumar Garg Vice Principal S.D. College of Pharmacy Barnala	11:00am to 4:00pm Pharmacognosy Lab
Day-2 (22-3-2023) Calibration and use of UV visible spectrophotometer	Anu Goyal Associate Professor, S.D. College of Pharmacy Barnala	11:00am to 4:00pm Instrumentation Lab

Brochure of the Event




Photographs of the training program “Hydro-Distillation and Spectroscopic Techniques” (21-22 March, 2023)


**S.D. College, Barnala
Department of Zoology
Report on Workshop**

“Insect Taxonomy: Collection, Preservation and Identification”
(26th November, 2022)

Department of Zoology organised one day workshop entitled **“Insect Taxonomy: Collection, Preservation and Identification”** on **26th November, 2022**. Dr. Abhinav Saxena, Assistant Professor, Akal University, Talwandi Sabo, Bathinda Punjab was the resource person for the event. During the workshop, the resource person makes the students learn how to collect insects with nets, hand picking etc. in the *ground (NSS park and B. Pharmacy ground)*. Students themselves collected the insects mainly butterflies and stored them in bottle/ container. After returning to Biology Lab., students were taught to stretch the insects, make boxes and then identify them. About **50 students** participated in the workshop.



**S.D. College, Barnala
Department of Zoology
Organizes**



**One Day Workshop
(Under DBT Star College Scheme)**

on

“Insect Taxonomy: Collection, Preservation and Identification”
(26th November, 2022; Time: 10 am)

Resource Person

**Dr. Abhinav Saxena,
Assistant Professor,
Akal University, Talwandi Sabo, Bathinda, Punjab**

**Departmental Co-ordinator
Dr. Renu Bala, HOD**

Brochure of the Event



Photographs of the workshop “Insect Taxonomy: Collection, Preservation and Identification” (26th November, 2022)

**S.D. College, Barnala
Department of Zoology
Report on Workshop**



“DNA Isolation, Electrophoresis and Immunological Techniques”
(6th Feb, 2023)

Department of Zoology organized one day workshop entitled **“DNA Isolation, Electrophoresis and Immunological Techniques”** on **6th Feb, 2023**. Dr. Ritu Pawan (Head) and Dr. Deepika Bhatia, (Assistant Professor), Department of Biotechnology and Medical Sciences, Baba Farid College, BFGI, Bathinda Punjab taught students regarding isolation of DNA from blood cells. Both the resource persons also explained immunoassays to the students. Students also learnt the technique of DNA electrophoresis. More than **50 students** participated in the workshop.

**S.D. College, Barnala
Department of Zoology
Report on Workshop**

**on
“Python Programming Language”
(28th March 2023)**

One Day Workshop on **Python programming Language** was organized by Computer Department on **28th March 2023**. Branch Manager of Solitaire Infosys Ltd. Mr. Jaspreet Singh guided the students about MNC’s requirements and placement procedure. Software Developer, Ms. Chahat explained about the key features of Python language in a very efficient way. Around **60 students and 12 faculty members** attended the workshop and gained knowledge about this language.

	<p>S.D. College, Barnala Department of Computer Applications Organizes</p> <p>One Day Workshop</p> <p>on</p> <p>“Python Programming Language” (28th March 2023)</p> <hr/> <p>Resource Person</p> <p>Ms. Chahat, Software Developer, Branch Solitaire Infosys Ltd</p> <hr/> <p>Coordinator Prof. Ashutosh Dharni, HOD</p>	
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ਐੱਸ ਡੀ ਕਾਲਜ ਦੇ ਕੰਪਿਊਟਰ ਵਿਭਾਗ ਵੱਲੋਂ ਵਰਕਸ਼ਾਪ ਦਾ ਆਯੋਜਨ

ਸ਼ਰਨਾਲਾ, (ਸ.ਮ. ਸਿਉਰ) - ਐੱਸ ਡੀ ਕਾਲਜ ਦੇ ਕੰਪਿਊਟਰ ਵਿਭਾਗ ਵੱਲੋਂ ਇੱਕ ਵਰਕਸ਼ਾਪ 'ਪਾਈਥਨ ਪ੍ਰੋਗਰਾਮਿੰਗ' ਵਿੱਚ 28 ਮਾਰਚ 2023 ਨੂੰ ਆਯੋਜਨ ਕੀਤਾ ਗਿਆ। ਇਸ ਵਿੱਚ ਸੋਲਿਟੇਰਿਅਸ ਇੰਫੋਸਿਸ ਕੰਪਨੀ ਦੇ ਬਰਾਂਚ ਮੈਨੇਜਰ ਜਸਪ੍ਰੀਤ ਸਿੰਘ ਨੇ ਆਈ. ਡੀ. ਸਿਕਰਟ ਲਈ ਲੋਕੀਓਰੀਆ ਸਕਿਲਜ਼ ਅਤੇ ਪਲਸਮੈਂਟ ਦੇ ਮੌਕਿਆਂ ਬਾਰੇ ਗੁਰੂ ਕਰਦੇ-ਗਿਆ। ਇਸ ਵਰਕਸ਼ਾਪ ਵਿੱਚ ਪ੍ਰਮੁੱਖ ਅਧਿਕਾਰੀ ਮਿਸ ਚਾਹਤ ਸ਼ਾਮਲ ਹੋਏ, ਜਿਹਨਾਂ ਨੇ ਪਾਈਥਨ ਪ੍ਰੋਗਰਾਮਿੰਗ ਬਾਰੇ ਵਿਸਥਾਰ ਵਿੱਚ ਜਾਣਕਾਰੀ ਦਿੱਤੀ। ਪ੍ਰੋ. ਅਸ਼ੁਟੋਸ਼ ਧਰਨੀ ਨੇ ਆਪਣੇ ਭੇਜੇ-ਅਭਿਨਾਨਾਂ ਦਾ ਸਵਾਗਤ ਕੀਤਾ। ਇਸ ਸਮੇਂ ਕੰਪਿਊਟਰ ਵਿਭਾਗ ਦੇ ਮੁਖੀ ਪ੍ਰੋ. ਆਸ਼ੁਟੋਸ਼ ਧਰਨੀ ਸਮੇਤ ਕੰਪਿਊਟਰ ਵਿਭਾਗ ਦੇ ਸਾਰੇ ਅਧਿਆਪਕ ਅਤੇ ਲਗਭਗ 60 ਦੇ ਕਰੀਬ ਵਿਦਿਆਰਥੀਆਂ ਨੇ ਹਿੱਸਾ ਲਿਆ ਅਤੇ ਵਿੱਚ ਪ੍ਰੋ. ਸਿਪਾਨੀ ਨੇ ਆਪਣੇ ਭੇਜੇ-ਅਭਿਨਾਨਾਂ ਅਤੇ ਪ੍ਰਿਸ਼ਿਲਤ ਡਾ. ਕਮਾ ਸ਼ਰਨਾ ਦਾ ਧੰਨਵਾਦ ਕੀਤਾ। ਐੱਸ ਡੀ ਕਾਲਜ ਪ੍ਰਬੰਧਕ ਕਮੇਟੀ ਦੇ ਪ੍ਰਧਾਨ ਡਾ. ਅਨੰਦ ਸਿੰਘ, ਪ੍ਰਿੰਸ ਪ੍ਰਧਾਨ ਸ੍ਰੀ ਨਰਿੰਦ ਸਿੰਘ, ਸਕੂਲ ਸਕੱਤਰ ਸ੍ਰੀ ਜਤਿੰਦਰ ਨਾਥ ਸ਼ਰਨਾ, ਡਾਇਰੈਕਟਰ ਸ੍ਰੀ ਹਰਿਅੰਸ ਸਿੰਘ ਔਰਤੀ, ਵਿੱਤ ਸਕੱਤਰ ਡਾ. ਮੁਕੇਂਦ ਲਾਲ ਸ਼ਰਨਾ ਨੇ ਵਰਕਸ਼ਾਪ ਨੂੰ ਸ਼ਰਧਾਂਜਲੀ ਪੇਸ਼ ਕਰਦੇ-ਗਿਆ ਅਤੇ ਕੰਪਿਊਟਰ ਵਿਭਾਗ ਨੂੰ ਵਧਾਈ ਦਿੱਤੀ।

ਸੰਪਾਦਕ : * ਸ਼ਰੀ ਸਿੰਘ ਜਗਦੇਵ ਡਾਕਟਰ ਤੇ ਪ੍ਰਭਾਸ਼ਕ : ਜਤਿੰਦਰ ਨਾਥ ਔਰ ਐੱਸ. ਡੀ. ਕਾਲਜ ਐਗ੍ਰੀਕਲਚਰਲ ਸ਼ਾਹਿਦੀ (ਬੀ.ਐੱਸ.) ਸ਼ਰਨਾਲਾ ਲਈ ਕਾਰਜਕਾਰੀ ਮਿਊਚਿਊ ਪ੍ਰੈੱਸ, ਨੰਬਰ 1867 ਭਰਿੰਗ ਸ਼ਰਨਾ ਤੋਂ ਡਾਕਟਰ ਐੱਸ. ਡੀ. ਕਾਲਜ, ਕੰ. ਸੀ. ਡੇ. 28, ਨਵਦੀਵੀ ਕਲੱਬ ਚੌਕ, ਸ਼ਰਨਾਲਾ ਤੋਂ ਪ੍ਰਕਾਸ਼ਿਤ ਕੀਤਾ। (ਆਰ.ਐਨ.ਆਈ. ਨੰ: PUN/PUN/2012/59006) (ਪੋਸਟਲ ਡਿਜੀਟ ਨੰ: PB/SRR/043) * ਪੀ ਐਚ ਡੀ. ਐਲਟ 1867 ਭਰਿੰਗ ਸ਼ਰਨਾ ਦੀ ਚੋਟ ਲਈ ਚਿੰਨ੍ਹਦਾਰ।

**Brochure and news cutting of the Workshop “Python Programming Language”
(28th March 2023)**

Principal
S.D. College Barnala