

DBT ACTIVITY REPORT(2023-24)

PG Department of Mathematics

Activity-1

Name of Activity: Summer Camp “Understanding the World with Maths”

Date: 05-10 June, 2023

Details of Resource Persons:

1. Ms. Satinderpal Kaur, Asstt. Prof. Mathematics, Guru Nanak College, Sri Muktsar Sahib.
2. Ms Navneet Rana, Asstt. Prof. Mathematics, Guru Nanak College, Sri Muktsar Sahib.
3. Ms Kamaljeet Kaur, Asstt. Prof. Mathematics, Guru Nanak College, Sri Muktsar Sahib.

Venue/Mode: Guru Nanak College, Sri Muktsar Sahib

Objective of activity:

1. To make students able to apply problem solving and logical skills.
2. To improve deeper understanding of mathematical theories in students.
3. To familiarise students with various subfields of mathematics.
4. To expose students to undergraduate research and internship opportunities.

Summary of the activity: PG Department of Mathematics organised short term course "Understanding the World with Math" under DBT Star College Scheme. During this course, Ms Satinderpal Kaur, Head, PG Department of Mathematics delivered lectures on Application areas on Differential Equations and sequences and series in day to day life. She explained that Differential equations are used to model the behavior of electrical circuits, such as those found in household appliances, computers, and mobile devices. She also explained that Sequences and series are used to calculate compound interest, which is essential in banking, finance, and investments. Understanding sequences and series helps individuals make informed decisions about savings, loans, and investments. While talking about applications in day to day life she described that Differential equations are used to analyze the trajectory of objects in sports such as baseball, soccer, and golf. This information helps coaches and athletes optimize their performance and strategy.

On next two days, Ms Kamaljeet Kaur, Assistant Professor in Mathematics explained about permutations and combinations and study of remainders. She discussed that Permutations refer to the arrangements of objects in a particular

order. When dealing with permutations, the order of selection matters, whereas Combinations refer to the selections of objects without considering the order in which they are selected. While elaborating on application area she explained that Permutations and combinations are extensively used in probability theory to calculate the likelihood of certain events occurring. She also put light on the fact that permutations and combinations play a role in designing games, puzzles, competitions and coding theory and cryptography. On the next day she discussed that Remainders are the integers left over after division, and they hold significance in various mathematical contexts. She explained that Remainder problems frequently appear in mathematical competitions and problem-solving scenarios. These problems often require creative thinking and application of number theory concepts to find solutions.

Ms Navneet Rana, Assistant Professor in Mathematics illuminated about Application of Mathematics in various fields along with exposing students to the use of Software Geogebra. She elaborated that GeoGebra is a mathematics software that combines geometry, algebra, calculus, and other mathematical areas into an interactive platform. It allows users to explore mathematical concepts visually through graphs, geometric constructions, and dynamic demonstrations. She explained that users can plot functions, equations, inequalities, and data sets on coordinate axes. GeoGebra provides tools for creating geometric constructions, such as points, lines, circles, polygons, and angles. Hands on training session on Geogebra is held to enhance geometrical knowledge of students.

Overall, STC enlighten the students with use of mathematics in daily life. Students from nearby region actively participated and learnt a lot of things from this STC.

Outcome of the activity: Participants enhanced their understanding and proficiency in various mathematical concepts, from basic arithmetic to more advanced topics like calculus or Differential Equations and softwares. Successfully solving math problems and engaging in mathematical activities increased participants' confidence in their mathematical abilities, encouraging them to pursue further studies or careers in Mathematics.

No. of Beneficiaries: 19



Media coverage Link:

<https://www.facebook.com/drtejinder.dhaliwal/posts/pfbid02toAtJkMwPxAWrKuXqd4dZdvhnjqFD75KFCrjDVNdB6rraJ6tm4MyLZBU1MFwsVfol>

Registration Link:

<https://forms.gle/XWtGCtZK9JtXfL547>

https://docs.google.com/forms/d/e/1FAIpQLSfH_gIR4POyAT5N17niDNItoLMABCfc3VuiK43UF9F19MAZyg/viewform?usp=send_form



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Tibbi Sahib Road, Sri Muktsar Sahib
Affiliated to Panjab University, Chandigarh Governed By: S.G.P.C. Sri Amritsar
Under Star College Scheme of DBT, Govt of India

Short Term Course

Understanding the World with Math

5-10 June 2023
10:00 am to 11:30 am

Organized by

P.G. Department of Mathematics

- Day 1- Application areas of differential equation
- Day 2- Application areas of series
- Day 3- Permutations and Combinations
- Day 4- Study of Remainders
- Day 5- Software Geogebra
- Day 6- Application of maths in various fields

Free of Cost

Eligibility +2

Click Here for Registration

<https://forms.gle/iqEQfMvR6DJT8afP9>

Contact us for more information

Ms. Satinderpal Kaur : 94630-22466

Ms. Navneet Rana: 98774-45366

Ms. Kamaljeet Kaur: 97807-32462

Dr. Tejinder Kaur Dhaliwal
Principal

Dhuria Printers
9888186100







| Date - 5 June 2023 Short Term Course - Understanding the World with Maths Day-1 Topic: Application area of differential Equations | | | | Time: 10 am Teacher In-charge - Ms. Satinder Pal Kaur | | | |
|---|------------------|--------------------|---------|--|-------------|-----------------|------------------|
| Sl. No. | Name | Father's name | class | Roll No. | Mobile No | Address | Sign |
| 1) | Manmeet Kaur | S. Harvinder Singh | +2 | 32 | 7707987843 | Bhatia Street | P |
| 2) | Rushali | Tajinder Singh | BA | 30 | 7657908000 | Bhatia Street | P |
| 3) | Jaskirat Singh | Tajinder Singh | BA | 31 | 7657908000 | Bhatia Street | Jaskirat |
| 4) | Ameet Singh | Huldeep Singh | B.VOC | 4 | 9878700025 | Bhagwan road | P |
| 5) | Gurjant Singh | Gurjant Singh | BA | 13 | 7009723168 | Gandhara | Gurjant |
| 6) | Gurleen Kaur | Dilbag Singh | BA | 15 | 9872720174 | 12-H road | Gurleen |
| 7) | Aashdeep Kaur | Manjot Singh | BA | 12 | 9478689916 | Ajit Nagar Road | Aashdeep |
| 8) | Navneet Kaur | Sukhdev Singh | B.A | 09 | 99143-37239 | Lakhanali | Navneet |
| 9) | Tania Narang | Satish Narang | MCA | 216 | 7718-50479 | Hukam | Tania Narang |
| 10) | Talita | Dinesh Kumar | B.Sc | 0000 | 98771-05583 | Mukta | Talita |
| 11) | Tarandeep Kaur | Chetan Singh | BA | 3091 | 87258-45830 | Thandavale | Tarandeep |
| 12) | Hareet Kaur | Sukhinder Singh | B.A | 24 | 7696241505 | Mohlan | Hareet Kaur |
| 13) | Tanya | Suninder Kumar | B.Sc | 19 | 6283872013 | MKS | Tanya |
| 14) | Margot Kaur Bedi | Mandeep Singh Bedi | +2 Pass | 103 | 7773792063 | MKS | Margot Kaur Bedi |
| 15) | Kamalpreet Kaur | Gurbind Singh | +2 Pass | 20 | 6280841310 | MKS | Kamalpreet Kaur |
| 16) | Manjot | Vikas Sidana | B.Sc | 1033 | 91816-50950 | Khanna Khanna | Manjot |
| 17) | Aashdeep Kaur | Bhupinder Singh | +2 Pass | 21 | 7717313822 | MKS | Aashdeep Kaur |
| 18) | Manjot Kaur | Bhupinder Singh | +2 Pass | 11 | 83603-78578 | MKS | Manjot Kaur |
| 19) | Manjot Kaur | Bhupinder Singh | +2 Pass | 22 | 82642-62493 | MKS | Manjot Kaur |
| 20) | Manjot Kaur | Bhupinder Singh | +2 Pass | 23 | 8199364002 | MKS | Manjot Kaur |
| 21) | Manjot Kaur | Bhupinder Singh | +2 Pass | 24 | 7760230156 | MKS | Manjot Kaur |

DBT ACTIVITY REPORT (2023-24)

PG Department of Mathematics

Activity 10

Name of Activity: International Mathematics Day

Date: 14th March, 2024

Details of Resource Persons:

1. Dr. Yashpreet Kaur, Assistant Professor, Department of Mathematics, Thapar Institute of Engineering & Technology, Patiala
2. Dr. Amrinderpal Singh, Assistant Professor, Department of Mathematics, Punjabi University, Patiala.

Venue/Mode: Seminar Hall, Guru Nanak College, Sri Muktsar Sahib

Objective of activity:

1. To generate enthusiasm and interest in mathematics among students, educators, and the general public.
2. To showcase the beauty, relevance, and practical applications of mathematics.
3. To provide an opportunity to engage the local community in mathematical activities and promote a positive image of mathematics.

Summary of the activity: The event commenced with an inaugural ceremony featuring speeches by highlighting the importance of mathematics education and its impact on society. During the event, two Extension lectures were organised for the students.

In the morning session, lecture on “Introduction to Counting Problems with Symmetries and Advances in Counting Problems with Symmetries” was delivered by Dr. Yashpreet Kaur. A brief introduction to group theory is provided, highlighting its role in formalizing the notion of symmetry. The lecture explains how group theory provides a systematic framework for analysing symmetries in counting problems. She demonstrated with the help of examples that how symmetry can be exploited to solve combinatorial problems more efficiently.

In the next session, lecture on “Mathematics and Bernoulli Numbers and Some recurrence problems in Discrete Mathematics” was delivered by Dr. Amrinderpal Singh. He explained the significance of Bernoulli numbers in various branches of mathematics, including number theory, combinatorics, and analysis. He elaborated about different types of recurrence problems, such as linear recurrence

relations and divide and conquer recurrences, and their solutions techniques. He elucidated upon applications of mathematical techniques and concepts to analyze and solve complex problems in discrete mathematics

After the lectures, students showcased their poster presentations and Powerpoint presentations. This provided a platform for young mathematicians to share their work and receive feedback from peers and experts. An exhibition featuring mathematical models and Rangoli was set up to illustrate the practical applications of mathematics in various fields, including science, engineering, finance, and art. Attendees had the opportunity to learn about the interdisciplinary nature of mathematics.

In conclusion, the Mathematics Day celebration was a testament to the enduring significance of mathematics as a discipline and its profound impact on society. By bringing together mathematicians, educators, students, and enthusiasts, the event served to inspire future generations of mathematicians and promote a deeper understanding of the subject.

Outcome of the Activity: The Mathematics Day celebration succeeded in achieving its objectives of promoting interest in mathematics and recognizing achievements in the field. Participants expressed enthusiasm for the event and indicated a renewed appreciation for the beauty and relevance of mathematics in their lives.

No. of Beneficiaries: 115

Media coverage Link:

<https://www.facebook.com/drtejinder.dhaliwal/posts/pfbid0Qr4uJSy46YzmV5J5XAfhkPeJtw7y1GrTCP7Fw1g5voGEdXiHHFzHmdHAS2HJYDuol>

Registration Link(if any):

https://docs.google.com/forms/d/e/1FAIpQLScAHVFUc7-NEQSMWcMyI6dAQcAQVNwg4O4CVb1VpLJcGtdzFg/viewform?usp=sf_link



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LET'S CELEBRATE

INTERNATIONAL MATHEMATICS DAY 

Sponsored by 'Star College scheme' of DBT, New Delhi

$$a = \frac{V_f - V_i}{t}$$

**14 MARCH,
2024**

$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$



**RANGOLI
MAKING**

**POSTER
MAKING**



**MODEL
MAKING**

$$y = mx + b$$

**POWERPOINT
PRESENTATION**



LECTURE SERIES BY

Dr. Yashpreet Kaur

ASSISTANT PROFESSOR
DEPARTMENT OF MATHEMATICS
THAPAR INSTITUTE OF ENGINEERING AND
TECHNOLOGY, PATIALA

CO-ORDINATOR

Dr. Satinderpal Kaur

Head Dept of mathematics, Gnc, Muktsar

PATRON

Dr. Rana Baljinder Kaur

Officiating Principal, Gnc, Muktsar

ORGANIZED BY

P. G. DEPT OF MATHEMATICS







March 14, 2024
International Day of Mathematics

| Sr. No | Name | Class | Roll No | Sign |
|--------|-------------------|------------------------------------|---------|------------------|
| 1 | Kushi | B.Sc(NM) 4 th Sem | 5714 | Kushi |
| 2 | Mehak Watts | B.Sc(NM) 4 th Sem | 5719 | Mehak Watts |
| 3 | Kashish | B.A (3rd year) 6 th Sem | 3055 | Kashish |
| 4 | Nancy Dimple | B.A - III | 3053 | Nancy |
| 5 | Divya Rani | B.A - III | 3073 | Divya Rani |
| 6 | Monika | B.A - III | 3022 | Monika |
| 7 | Manpreet | B.A - III | 3021 | Manpreet |
| 8 | Jashanpreet Kaur | B.A - III | 3005 | Jashanpreet |
| 9 | Simran | B.Sc (NM) 2nd sem | 5507 | Simran |
| 10 | Amreen Kaur | B.Sc (NM) 2nd sem | 5523 | Amreen |
| 11 | Anpan Kumar | B.Sc (NM) 2nd sem | 5589 | Anpan |
| 12 | Shivam | B.Sc (NM) 1 st year | 5540 | Shivam |
| 13 | Humanmeet Singh | B.Sc (NM) 1 st year | 5541 | Humanmeet |
| 14 | Harcharan Singh | B.Sc (NM) 1 st year | 5508 | Harcharan Singh |
| 15 | Robindeep Kaur | B.Sc (NM) 1 st year | 5543 | Robindeep Kaur |
| 16 | Rakha Rani | B.Sc (NM) 1 st year | 5522 | Rakha Rani |
| 17 | Sania | B.Sc (NM) 1 st year | 5524 | Sania |
| 18 | Manjinder Kaur | B.Sc (NM) 1 st year | 5509 | Manjinder Kaur |
| 19 | Musham | B.Sc (NM) 1 st year | 5502 | Musham |
| 20 | Jashpreet Kaur | B.Sc (NM) 1 st year | 5517 | Jashpreet |
| 21 | Payal Kaur | B.Sc (NM) 1 st year | 5512 | Payal |
| 22 | Chahat | B.Sc (NM) 1 st year | 5520 | Chahat |
| 23 | Karandeep Kaur | B.Sc (NM) 1 st year | 5506 | Karan |
| 24 | Payal | B.Sc (NM) 1 st year | 5511 | Payal |
| 25 | Farhana | B.Sc (NM) 1 st year | 5510 | Farhana |
| 26 | Jumanpreet Kaur | B.Sc (NM) 1 st year | 5519 | Jumanpreet |
| 27 | Wishpreet Kaur | B.Sc (NM) 1 st year | 5516 | Wishpreet |
| 28 | Harpreet Kaur | B.Sc (NM) 1 st year | 5531 | Harpreet |
| 29 | Anshdeep Kaur | B.Sc (NM) 1 st year | 5539 | Anshdeep |
| 30 | Anshdeep Singh | B.Sc (NM) 1 st year | 5513 | Anshdeep Singh |
| 31 | Jashanpreet Singh | B.Sc (NM) 1 st year | 5518 | Jashanpreet |
| 32 | Shiv Bajaj | B.Sc (NM) 1 st year | 5504 | Shiv Bajaj |
| 33 | Sahilpreet Singh | B.Sc (NM) 1 st year | 5527 | Sahilpreet Singh |
| 34 | Ratpreet Singh | B.Sc (NM) 1 st year | 5526 | Ratpreet Singh |
| 35 | Rachandeep Singh | B.Sc (NM) 1 st year | 5525 | Rachandeep Singh |

March 14, 2024
International Day of Mathematics

| Sl. No | Name | Class | Roll No | Sign |
|--------|------------------|--|---------|------------------|
| 36 | Khushteel Kaur | B.Sc(NM) 2 nd Sem | 5543 | Khushteel Kaur |
| 37 | Smiley | B.Sc(NM) 2 nd Sem | 5536 | Smiley |
| 38 | Ramandeep Kaur | B.Sc(N.M.) I-Sem II | 5521 | Ramandeep Kaur |
| 39 | Khushteel Kaur | B.Sc(N.M.) I Sem II | 5532 | Khushteel Kaur |
| 40 | Adarshmoor Kaur | B.Sc(N.M.) I Sem II | 5534 | Adarshmoor Kaur |
| 41 | Kanchan | B.S.C(N.M.) II nd Year | 5716 | Kanchan |
| 42 | Kashish | B.S.C(N.M.) II nd Year | 5715 | Kashish |
| 43 | Tamisha Bansal | B.S.C(N.M.) II nd Year | 5710 | Tamisha |
| 44 | Rupinder Kaur | B.S.C(N.M.) II nd Year | 5722 | Rupinder |
| 45 | Amitoz Kaur | B.S.C(N.M.) II nd Year | 5724 | Amitoz |
| 46 | Jashan | B.S.C(N.M.) II nd Year | 5780 | Jashan |
| 47 | Satwinder Kaur | B.S.C(N.M.) II nd Year | 5713 | Satwinder |
| 48 | Harsandeep Kaur | B.Sc(N.M.) II nd Year | 5703 | Harsandeep Kaur |
| 49 | Jashanpreet Kaur | B.Sc(N.M.) II nd Year | 5702 | Jashanpreet Kaur |
| 50 | Mehak | B.A II nd year (4 th Sem) | 2058 | Mehak |
| 51 | Komalpreet Kaur | B.Sc NM III rd year (6 th Sem) | 5926 | Komalpreet Kaur |
| 52 | Neha Kumari | B.Sc NM III rd year (6 th Sem) | 5938 | Neha Kumari |
| 53 | Ramandeep Kaur | B.Sc(NM) III rd year | 5925 | Ramandeep Kaur |
| 54 | Maninder Kaur | B.Sc(NM) III rd year | 5924 | Maninder Kaur |
| 55 | Ramandeep Kaur | B.Sc(N.M.) III rd year | 5907 | Ramandeep Kaur |
| 56 | Pappu | B.Sc(N.M.) III rd year | 5930 | Pappu |
| 57 | Sameer | B.Sc(N.M.) II nd year | 5709 | Sameer |
| 58 | Amman Singh | B.Sc(N.M.) II nd year | 5706 | Amman Singh |
| 59 | Harmanjeet Singh | B.Sc(N.M.) II nd year | 5723 | Harmanjeet Singh |
| 60 | Simranjeet Kaur | BSC(N.M.) I st year (II Sem) | 5533 | Simranjeet Kaur |
| 61 | Manjot Kaur | B.S.C(N.M.) I st year (II Sem) | 5515 | Manjot Kaur |
| 62 | Anmolpreet Kaur | B.S.C(N.M.) III rd year | 5906 | Anmolpreet Kaur |
| 63 | Manjot Kaur | B.Sc(N.M.) III rd year | 5907 | Manjot Kaur |
| 64 | Suma | BSC(N.M.) III rd year | 5911 | Suma |
| 65 | Karan Sharma | BSC(N.M.) III rd year | 5912 | Karan |
| 66 | Jashan Singh | BSC(N.M.) III rd year | 5935 | Jashan |
| 67 | Ramandeep Kaur | BSC(N.M.) III rd year | 5908 | Ram |
| 68 | Simranjeet Kaur | BSC(N.M.) III rd year | 5921 | Simran |
| 69 | Ranjit Singh | BSC(N.M.) III rd year | 5931 | Ranjit |
| 70 | Yashdeep Singh | BSC(N.M.) III rd year | 5937 | Yashdeep |

March 14, 2024

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| | | | |
|-----------------------|--------------------------|-------|-----------------|
| 71. Simranjeet Kaur | BSc-III (NM) | 5915 | Simranjeet |
| 72. Nirmalveer Kaur | BSc III (NM) | 5912 | Nirmalveer |
| 73. Sukhpreet Kaur | BSc III (NM) | 5918 | Sukhpreet |
| 74. Lovepreet Kaur | BSc III (NM) | 5917 | Lovepreet |
| 75. Navneet Kaur | BSc III (NM) | 5923 | Navneet |
| 76. Samanpreet Kaur | BSc-III (NM) | 5913 | Samanpreet |
| 77. Sadhna Kaur | BA II Sem | 1035 | Sadhna |
| 78. Pawanpreet Kaur | BA II Sem | 1021 | Pawanpreet |
| 79. Manpreet Kaur | BA II Sem | 1042 | Manpreet |
| 80. Kirti Yadav | BA II Sem | 1173 | Kirti |
| 81. Kshav Jain | BA II Sem | 1239 | Kshav |
| 82. Gurpreet Singh | BA II Sem | 1081 | Gurpreet |
| 83. Damanpreet Kaur | BA II Sem | 1280 | Damanpreet |
| 84. Amanshi Kaur | BA II Sem | 1097 | Amanshi |
| 85. Anshdeep Singh | BA II Sem | 1188 | Anshdeep Singh |
| 86. Pawan | BSC I st Year | 5501 | Pawan |
| 87. Lovepreet Singh | B.Sc Ist yr | 5638 | Lovepreet Singh |
| 88. Gurinder Singh | B.Sc Ist yr | 5503 | Gurinder Singh |
| 89. Sandeep Kaur | B.A. - I year | 1084 | Sandeep Kaur |
| 90. Seema Rani | B.A. - I year | 1197 | Seema Rani |
| 91. Poonam Rani | B.A. - I year | 1331 | Poonam Rani |
| 92. Amandeep Kaur | B.A. - I year | 1075 | Amandeep Kaur |
| 93. Sandeep Kaur | B.A. - I year | 1046 | Sandeep Kaur |
| 94. Shanti | M.Sc Maths (II) | 10302 | Shanti |
| 95. Poonam Kaur | B.A (II) | 4503 | Poonam |
| 96. Pawanpreet Kaur | BSc (III) (NM) | 5929 | Pawan |
| 97. Shubham | BSc (III) NM | 5931 | Shubham |
| 98. Gurwinder Kaur | " | 5901 | Gurwinder |
| 99. Subhawinder Singh | " | 5928 | Subhawinder |
| 100. Aarti | " | 5919 | Aarti |
| 101. Amisha | " | 5920 | Amisha |
| 102. Mitali | " | 5707 | Mitali |
| 103. Monika | " | 5711 | Monika |
| 104. Anmol | " | 5718 | Anmol |

March 14, 2024

International Day of Mathematics

| | | | | |
|-----|-------------------|-------------|------|-------------------|
| 105 | Sameer | BSC II (NM) | 5709 | Sameer |
| 106 | Sukhrajjeet Singh | BSc II (Nm) | 5727 | Sukhrajjeet Singh |
| 107 | Abhishek | BA III | 3075 | Abhishek |
| 108 | Gaganpreet Kaur | BSc II (Nm) | 5701 | Gaganpreet Kaur |
| 109 | Jashanpreet Kaur | BSc II (Nm) | 5705 | Jashanpreet Kaur |
| 110 | Jyoti Kaur | B.A. III | 3057 | Jyoti Kaur |
| 111 | Sushpreet Singh | B.A. III | 3056 | Sushpreet Singh |
| 112 | Gussimran Singh | B.A. III | 3011 | Gussimran Singh |
| 113 | Arshnoor Singh | B.A. III | 3136 | Arshnoor Singh |
| 114 | Shaminder Singh | BA III | 3082 | Shaminder Singh |
| 115 | Chetan | B.A. III | 3103 | Chetan |

Total No of Beneficiaries = 115

DBT ACTIVITY REPORT (2023-24)

PG Department of Mathematics

Activity 11

Name of Activity: Workshop on Hands on Training Program on MATLAB

Date: 14-16 March, 2024

Details of Resource Persons:

1. Dr. V.K. Kukreja, Department of Mathematics, Sliet, Longowal
2. Dr. Dilbag Singh, Assistant professor, Department of Mathematics, Panjab University, Chandigarh
3. Dr. Vikram Mutneja, Associate Professor, Department of Electronics & Communications Engineering, Shaheed Bhagat Singh State University, Ferozepur

Venue/Mode: Guru Nanak College, Sri Muktsar Sahib

Objective of activity:

1. to provide students with practical skills and knowledge to effectively utilize MATLAB for data analysis, modeling, and simulation.
2. To enable students to recognise surfaces of revolution of curves.
3. To improve clarity of graphs of various solid figures.

Summary of the activity: Day-1 The workshop began with a formal welcome and brief introduction of the resource person Dr. Dilbag Singh. Dr Singh started his talk with introduction to MATLAB, including its interface, basic commands, and programming environment. Participants were guided through the setup process and introduced to MATLAB's capabilities. Practical demonstrations were conducted on plotting and visualizing data using MATLAB's plotting functions. Participants learned how to create various types of plots, customize plot appearance, and add annotations.

Day-2: On 2nd day of workshop, the resource person Dr. Dilbag Singh continued with Hands-on training sessions covering numerical computing and analysis techniques in MATLAB, such as solving equations, performing matrix operations, and implementing numerical algorithms. Participants practiced Obtaining Surfaces of Revolution of Curves, Plotting of Solutions of differential equations using MATLAB's built-in functions for mathematical operations.

In the afternoon sessions, Dr Vikram Mutneja discussed about MATLAB in Mathematical Modelling and Interdisciplinary Applications of MATLAB.

Sessions were conducted on mathematical modelling techniques, including differential equations, optimization, probability, and statistics. Participants learned how to formulate mathematical models and implement them using MATLAB. Dr. Vikram also discussed MATLAB's applications in biological and life sciences, including bioinformatics, computational biology, and medical imaging.

Day-3: The 3rd day of workshop started with formal Basics of MATLAB, Logical Operators and Arithmetic Expressions, Different Loops for Computation, Application of MATLAB for solving simple Differential Equations

Outcome of the Activity: The participants gained practical skills and confidence in using MATLAB for data analysis, modeling, and simulation. They expressed satisfaction with the hands-on learning approach and highlighted the relevance of the workshop content to their academic pursuit. The workshop fostered a collaborative learning environment and provided valuable insights into MATLAB's capabilities and applications.

No. of Beneficiaries: 78

Media coverage Link:

<https://www.facebook.com/drtejinder.dhaliwal/posts/pfbid02AAzXdqRDt1B8wE3QkbRsy24MMFCu8FDfMKJQ6YXGndNrWHqRbqSKSWQCGFCCL3ogl>

Registration Link(if any):

https://docs.google.com/forms/d/1Ma0FML0-Nk8WqLbSRsIxH_NU6HLY7itHdQzZmc_TVN8/edit

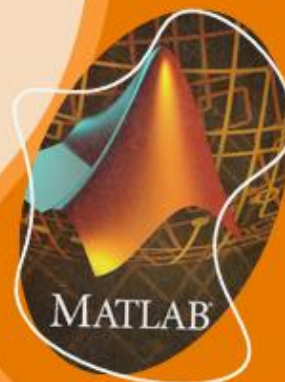


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Workshop on
HANDS ON TRAINING
Program on **MATLAB**



Sponsored by 'Star College scheme' of DBT,
New Delhi



**DR. VIJAY KUMAR
KUKREJA**

Professor and Head
Department of mathematics
Sant Longowal Institute of Engineering and
Technology Longowal (Punjab)

MAR 20
24
15-16

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**DR. DILBAG SINGH
KAHLON**

Assistant Professor
Department of mathematics
Panjab University Chandigarh



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P. G. DEPT OF MATHEMATICS

CO-ORDINATOR

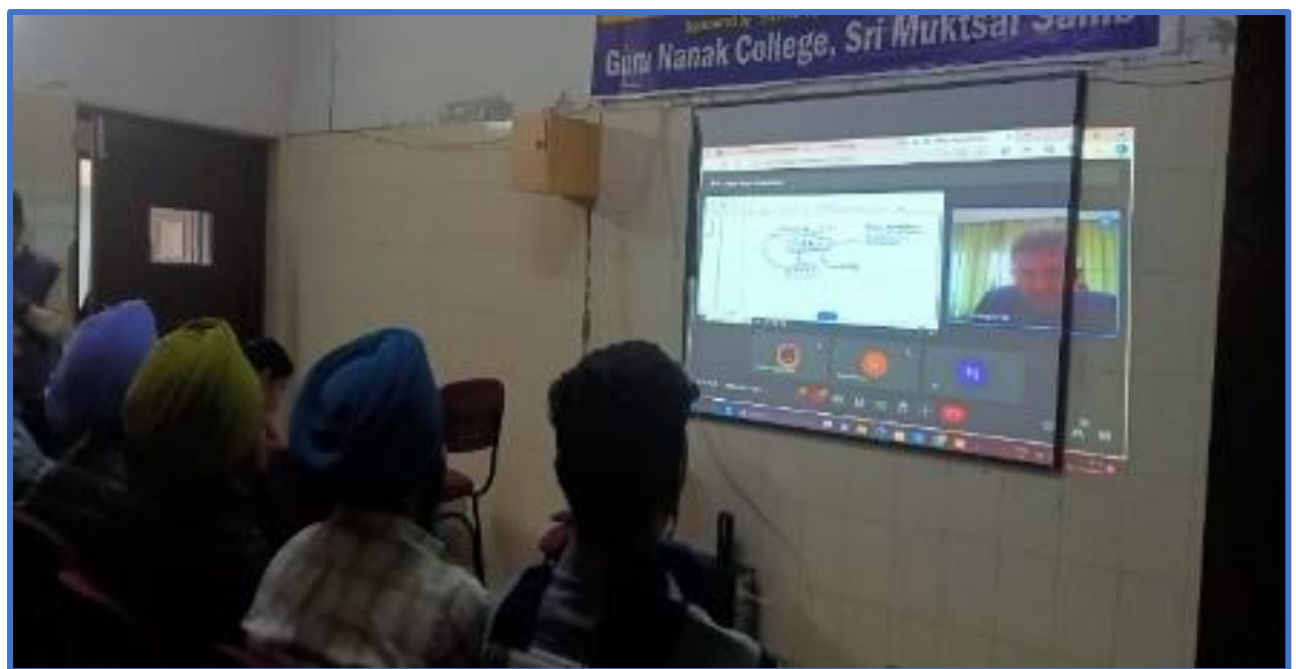
Dr. Satinderpal Kaur

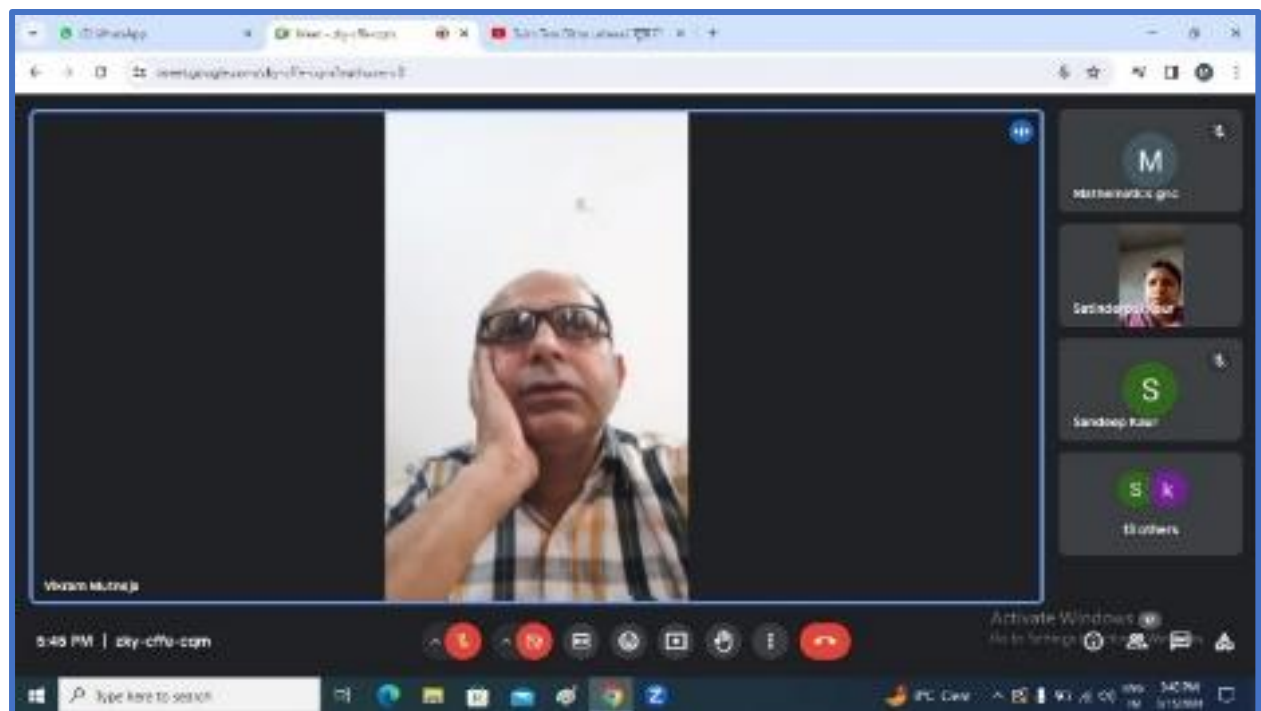
Head Dept of mathematics, Gnc, Muktsar

PATRON

Dr. Rana Baljinder Kaur

Officiating Principal, Gnc, Muktsar









| Attendance- Workshop on Hands on training program on MATLAB | | | | | |
|--|-----------------|-------------|-------------|----------------|---------------------------------------|
| Sr. No. | Name of Student | Class | Roll Number | Contact Number | Name of Institution |
| 1 | Manjot Kaur | BA/B.Sc-III | 5909 | 7814970640 | Guru Nanak College, Sri Muktsar Sahib |
| 2 | Navneet Kaur | BA/B.Sc-III | 5923 | 6283699027 | Guru Nanak College, Sri Muktsar Sahib |
| 3 | Akanksha | BA/B.Sc-III | 5902 | 9417514924 | Guru Nanak College, Sri Muktsar Sahib |
| 4 | Suneha | BA/B.Sc-III | 5911 | 8264660286 | Guru Nanak College, Sri Muktsar Sahib |
| 5 | Palak | BA/B.Sc-III | 5932 | 9914408996 | Guru Nanak College, Sri Muktsar Sahib |
| 6 | Jyoti kaur | BA/B.Sc-III | 3057 | 8054502450 | Guru Nanak College, Sri Muktsar Sahib |
| 7 | Priya doomra | BA/B.Sc-III | 3092 | 9878751882 | Guru Nanak College, Sri Muktsar Sahib |
| 8 | NOOR | BA/B.Sc-III | 5910 | 6284490061 | Guru Nanak College, Sri Muktsar Sahib |
| 9 | Karandeep Kaur | BA/B.Sc-I | 5506 | 8725939749 | Guru Nanak College, Sri Muktsar Sahib |
| 10 | Payal | BA/B.Sc-I | 5511 | 8847441306 | Guru Nanak College, Sri Muktsar Sahib |

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|----|------------------|-------------|------|-----------------|---------------------------------------|
| 11 | Sumanpreet kaur | BA/B.Sc-I | 5519 | 79864 20983 | Guru Nanak College, Sri Muktsar Sahib |
| 12 | Khushdeep kaur | BA/B.Sc-II | 5542 | 9041014143 | Guru Nanak College, Sri Muktsar Sahib |
| 13 | Sukhpreet Kaur | BA/B.Sc-III | 5918 | 8360125805 | Guru Nanak College, Sri Muktsar Sahib |
| 14 | Harmandeep kaur | BA/B.Sc-III | 5908 | 7009788993 | Guru Nanak College, Sri Muktsar Sahib |
| 15 | Deepka Rani | BA/B.Sc-III | 5916 | 6280256388 | Guru Nanak College, Sri Muktsar Sahib |
| 16 | Rajpreet Singh | BA/B.Sc-I | 5526 | 9056342209 | Guru Nanak College, Sri Muktsar Sahib |
| 17 | Gurwinder Kaur | BA/B.Sc-III | 5901 | 9988406169 | Guru Nanak College, Sri Muktsar Sahib |
| 18 | Chahat | BA/B.Sc-I | 5520 | 7696200330 | Guru Nanak College, Sri Muktsar Sahib |
| 19 | Rappu | BA/B.Sc-III | 5930 | 9781652628 | Guru Nanak College, Sri Muktsar Sahib |
| 20 | Simranjeet kaur | BA/B.Sc-I | 5533 | 8146306712 | Guru Nanak College, Sri Muktsar Sahib |
| 21 | Jashanpreet kaur | BA/B.Sc-I | 3005 | 6284988677 | Guru Nanak College, Sri Muktsar Sahib |
| 22 | Simran kaur | BA/B.Sc-I | 5530 | 7901837442 | Guru Nanak College, Sri Muktsar Sahib |
| 23 | Simranjeet kaur | BA/B.Sc-III | 5921 | 7973168378 | Guru Nanak College, Sri Muktsar Sahib |
| 24 | Komalpreet kaur | BA/B.Sc-III | 5903 | 99140 34202 | Guru Nanak College, Sri Muktsar Sahib |
| 25 | Ramandeep kaur | BA/B.Sc-I | 5521 | 7531800014 | Guru Nanak College, Sri Muktsar Sahib |
| 26 | Riya | BA/B.Sc-III | 5934 | 7889271491 | Guru Nanak College, Sri Muktsar Sahib |
| 27 | Khushi | BA/B.Sc-II | 5714 | 8427841821 | Guru Nanak College, Sri Muktsar Sahib |
| 28 | Mehak | BA/B.Sc-II | 2058 | 9781650950 | Guru Nanak College, Sri Muktsar Sahib |
| 29 | Gaganpreet Kaur | BA/B.Sc-II | 5701 | 97801- 07191 | Guru Nanak College, Sri Muktsar Sahib |
| 30 | Manpreet kaur | BA/B.Sc-I | 1042 | 9780527679 | Guru Nanak College, Sri Muktsar Sahib |
| 31 | Neha | BA/B.Sc-III | 5935 | 6280633817 | Guru Nanak College, Sri Muktsar Sahib |
| 32 | Kirti girdhar | BA/B.Sc-I | 1173 | 7657813795 | Guru Nanak College, Sri Muktsar Sahib |
| 33 | Seema rani | BA/B.Sc-I | 1197 | 6280001913 | Guru Nanak College, Sri Muktsar Sahib |
| 34 | Sukhwinder kaur | BA/B.Sc-I | 1217 | 9501755089 | Guru Nanak College, Sri Muktsar Sahib |

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|----|-------------------------|----------------|-------|-------------|---------------------------------------|
| 35 | Harmanjot Singh | BA/B.Sc-II | 5723 | 8360170751 | Guru Nanak College, Sri Muktsar Sahib |
| 36 | Rupinder Kaur | BA/B.Sc-II | 5722 | 98771 01821 | Guru Nanak College, Sri Muktsar Sahib |
| 37 | Rupinder Singh | BA/B.Sc-I | 1052 | 7717320190 | Guru Nanak College, Sri Muktsar Sahib |
| 38 | Amanjot kaur | BA/B.Sc-I | 1093 | 7973451108 | Guru Nanak College, Sri Muktsar Sahib |
| 39 | Jashanpreet kaur | BA/B.Sc-II | 5704 | 9815212416 | Guru Nanak College, Sri Muktsar Sahib |
| 40 | Keshav jain | BA/B.Sc-I | 1239 | 7717496784 | Guru Nanak College, Sri Muktsar Sahib |
| 41 | Harmandeep Kaur | BA/B.Sc-II | 2060 | 7973792063 | Guru Nanak College, Sri Muktsar Sahib |
| 42 | Amandeep kaur | BA/B.Sc-I | 1075 | 9815781852 | Guru Nanak College, Sri Muktsar Sahib |
| 43 | Sharan Deep kaur | M.Sc(Maths)-II | 10301 | 8968927022 | Guru Nanak College, Sri Muktsar Sahib |
| 44 | Sadhna kaur | BA/B.Sc-I | 1035 | 7657876470 | Guru Nanak College, Sri Muktsar Sahib |
| 45 | Arshpreet kaur | BA/B.Sc-I | 5516 | 7717365424 | Guru Nanak College, Sri Muktsar Sahib |
| 46 | Ramandeep kaur | BA/B.Sc-I | 5505 | 9878506635 | Guru Nanak College, Sri Muktsar Sahib |
| 47 | Gurpreet singh | BA/B.Sc-I | 1081 | 94175 10599 | Guru Nanak College, Sri Muktsar Sahib |
| 48 | Priyanka Rani | BA/B.Sc-II | 2034 | 7973951614 | Guru Nanak College, Sri Muktsar Sahib |
| 49 | Shiv Bajaj | BA/B.Sc-I | 5504 | 94634 57221 | Guru Nanak College, Sri Muktsar Sahib |
| 50 | Sahibjeet Singh Dhillon | BA/B.Sc-I | 5527 | 7347093627 | Guru Nanak College, Sri Muktsar Sahib |
| 51 | Tanishka Bansal | BA/B.Sc-II | 5710 | 9153600078 | Guru Nanak College, Sri Muktsar Sahib |
| 52 | Damanpreet kaur | BA/B.Sc-I | 1280 | 9855743677 | Guru Nanak College, Sri Muktsar Sahib |
| 53 | Robindeepkaur | BA/B.Sc-I | 5543 | 8437832632 | Guru Nanak College, Sri Muktsar Sahib |
| 54 | Mukta jain | BA/B.Sc-III | 3142 | 6239420421 | Guru Nanak College, Sri Muktsar Sahib |
| 55 | Sukhpreet Singh | BA/B.Sc-III | 3056 | 9914526367 | Guru Nanak College, Sri Muktsar Sahib |
| 56 | Sameer | BA/B.Sc-II | 5709 | 7973668052 | Guru Nanak College, Sri Muktsar Sahib |
| 57 | Sandeep kaur | BA/B.Sc-I | 1084 | 9779062769 | Guru Nanak College, Sri Muktsar Sahib |

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|----|-----------------|---------------|-------|---------------|---------------------------------------|
| 58 | Nancy Demra | BA/B.Sc-III | 3053 | 7888723953 | Guru Nanak College, Sri Muktsar Sahib |
| 59 | Nimerveer kaur | BA/B.Sc-III | 5912 | 9872761690 | Guru Nanak College, Sri Muktsar Sahib |
| 60 | Aarti | BA/B.Sc-III | 5519 | 7814308421 | Guru Nanak College, Sri Muktsar Sahib |
| 61 | Khushpreet kaur | BA/B.Sc-I | 5532 | 7340778006 | Guru Nanak College, Sri Muktsar Sahib |
| 62 | Armaan singh | BA/B.Sc-II | 5706 | 7087304706 | Guru Nanak College, Sri Muktsar Sahib |
| 63 | Tanu | BA/B.Sc-III | 5936 | 62807 - 42843 | Guru Nanak College, Sri Muktsar Sahib |
| 64 | Arshnoor singh | BA/B.Sc-III | 3136 | 7529002139 | Guru Nanak College, Sri Muktsar Sahib |
| 65 | Khushi | BA/B.Sc-III | 5904 | 9878216557 | Guru Nanak College, Sri Muktsar Sahib |
| 66 | Monika | BA/B.Sc-III | 3022 | 7009760402 | Guru Nanak College, Sri Muktsar Sahib |
| 67 | Gursimran Singh | BA/B.Sc-III | 3011 | 7814948751 | Guru Nanak College, Sri Muktsar Sahib |
| 68 | Simran | BA/B.Sc-I | 5507 | 6239014641 | Guru Nanak College, Sri Muktsar Sahib |
| 69 | Shaminder singh | BA/B.Sc-III | 3082 | 7889164392 | Guru Nanak College, Sri Muktsar Sahib |
| 70 | Kashish | BA/B.Sc-III | 3055 | 8146732338 | Guru Nanak College, Sri Muktsar Sahib |
| 71 | Arshdeep kaur | BA/B.Sc-I | 5539 | 7719658623 | Guru Nanak College, Sri Muktsar Sahib |
| 72 | Amritpal singh | BA/B.Sc-III | 3135 | 9464646112 | Guru Nanak College, Sri Muktsar Sahib |
| 73 | Lovepreet Kaur | BA/B.Sc-III | 5917 | 7009271303 | Guru Nanak College, Sri Muktsar Sahib |
| 74 | Ramandeep kaur | BA/B.Sc-III | 5925 | 7740030656 | Guru Nanak College, Sri Muktsar Sahib |
| 75 | Ruhani Babbar | M.Sc(Maths)-I | 10201 | 9914717416 | Guru Nanak College, Sri Muktsar Sahib |
| 76 | Jagtar Singh | M.Sc(Maths)-I | 36821 | 8528065981 | Guru Nanak College, Sri Muktsar Sahib |
| 77 | Shefali Batra | M.Sc(Maths)-I | 10202 | 9465221540 | Guru Nanak College, Sri Muktsar Sahib |
| 78 | Prabhjeet Singh | BA/B.Sc-I | 1111 | 8872415048 | Guru Nanak College, Sri Muktsar Sahib |

DBT ACTIVITY REPORT (2023-24)

PG Department of Mathematics

Activity 12

Name of Activity: Educational Visit to Panjab University, Chandigarh

Date: 22nd March, 2024

Details of Resource Persons: NA

Venue/Mode: Panjab University, Chandigarh

Objective of activity:

1. To help students explore potential career paths by visiting relevant workplaces or institutions.
2. To enhance the understanding of subject through real-world experiences.
3. To expose students to Library of Panajb University.

Summary of the activity: PG department of Mathematics arranged educational visit of students on 22/3/2024 to Punjab University Chandigarh. Students have explored the books and journals in the library of Punjab University Chandigarh. The visit provided students with firsthand experiences outside of the classroom, which complement and enrich their academic learning. It offered opportunities for students to deepen their understanding of subject by experiencing it in real-world contexts. The visit to Mathematics Department at PU provided opportunities for students to interact with their peers and teachers outside of the formal classroom setting. These experiences help develop social skills such as communication, cooperation, and teamwork, as students collaborate on tasks, engage in discussions, and navigate new environments together.

Outcome of the Activity: The visit helped to bridge the gap between theoretical knowledge acquired in the classroom and its practical applications in the real world. Visiting Library contributed to broaden students' worldview and deepen their appreciation for diversity.

No. of Beneficiaries: 43

Media coverage Link:

https://www.facebook.com/story.php?story_fbid=1616971152388010&id=100022254218839&mibextid=oFDknk&rdid=e45WruHYKS4emMPV

Registration Link: NA





| List of Students- Visit to PU Chandigarh | | | | |
|--|-------------|----------|------------------|------------|
| Sr No. | Class | Roll NO. | Name | Phone no. |
| 1 | BA Ist | 1053 | Diya Chabra | 9463624386 |
| 2 | B.Voc EDM | 7934 | Jashan Kathpal | 7009005563 |
| 3 | BSc1st N.M | 5514 | Gurvinder Singh | 8284028256 |
| 4 | BSc1st N.M | 5541 | Husanpreet singh | 9914314434 |
| 5 | BSc1st N.M | 5508 | Harcharan singh | 6239511735 |
| 6 | B.Voc EDM | 7942 | Karandeep Singh | 6283914184 |
| 7 | B.Voc EDM | Alumani | Harman Bajaj | 9463624386 |
| 8 | BSC 1st Med | 5211 | Sukhman | 7888457574 |
| 9 | B.Voc FST | 7006 | Anjali | 6239719300 |
| 10 | B.Voc FST | 7029 | Arsh Kaur | 8146775940 |
| 11 | BBA | 4313 | Reva | 9815999016 |
| 12 | BBA | 4306 | Harleen | 7973720023 |

| | | | | |
|----|----------------|---------|----------------------|------------|
| 13 | BA Final | 3011 | Gursimran Singh | 7814948751 |
| 14 | BA Final | 3136 | Arshnoor Singh | 7529002139 |
| 15 | BA Final | 3082 | Shaminder singh | 7889164392 |
| 16 | BA Final | 3103 | Chetandeep singh | 8198017082 |
| 17 | BA Final | 3043 | Jawinder singh | 8198894103 |
| 18 | BA Final | 3012 | Harmanpreet singh | 7625996253 |
| 19 | Bcom Fiinal | 4802 | Harsimran kaur | 9781385932 |
| 20 | BA Final | 3083 | Ishita | 9872427850 |
| 21 | BA Final | 3092 | Priya | 9878751882 |
| 22 | BA Final | 3021 | Manpreet Kaur | 9988848785 |
| 23 | BA Final | 3022 | Monika | 7009760402 |
| 24 | BA Final | 3005 | Jashanpreet kaur | 6284988677 |
| 25 | BA Final | 3142 | Mukta jain | 6239420421 |
| 26 | BA Final | 3057 | Jyoti kaur | 8054502450 |
| 27 | BSc 1st NM | 5507 | Simran | 6239014641 |
| 28 | BSc 1st NM | 5523 | Amreen kaur | 8264760415 |
| 29 | BSc 1st NM | 5502 | Muskan | 9877355113 |
| 30 | BA 1st | 1239 | Keshav | 7717496784 |
| 31 | BA 1st | 1081 | Gurpreet singh | 9417510599 |
| 32 | BA 1st | 1188 | Arshdeep | 6239866902 |
| 33 | BA 1st | 1190 | Ravinder | 6283697823 |
| 34 | BA 1st | Alumani | Inderjeet | |
| 35 | BA 1st | 1173 | kirti | 7657813795 |
| 36 | BA 2nd | 2119 | Jigar Kamboj | |
| 37 | BA Final | 3120 | Ramandeep singh | |
| 38 | BA 1st | 1143 | Aditi | 7973314846 |
| 39 | BA 1st | 1055 | vansh | 9056339134 |
| 40 | BA Final | 3027 | Mandeep | 9646376351 |
| 41 | BA Final | 3067 | Karmanveer brar | 7340948836 |
| 42 | BA Final | 3069 | kirandeep kaur | 7888614898 |
| 43 | BA 2nd | 2045 | Khushdeep kaur | 8544881600 |

DBT ACTIVITY REPORT (2023-24)

PG Department of Mathematics

Activity 13

Name of Activity: Workshop on Mathematical Modelling

Date: 22-23 March, 2024

Details of Resource Persons:

1. Dr. Ajay Mittal, Associate Professor, Aryabhatta Group of Institutes, Barnala

Venue/Mode: Hybrid

Objective of activity:

1. To introduce participants to the fundamentals of mathematical modelling.
2. To provide hands-on experience in applying mathematical modelling techniques to solve real-world problems.
3. To inspire participants to utilize mathematical modelling as a tool for innovation and decision-making.

Summary of the activity: The PG Department of Mathematics organized a Workshop on Mathematical Modelling under DBT Star College Scheme on March 22-23, 2024. In a very interactive session, Dr. Ajay Kumar Mittal, Associate Professor, Aryabhatta Group of Institute, Barnala, gave exposure to students about Mathematical Modelling. He discussed its various applications. Workshop on Mathematical Modelling was organized with the aim of enhancing participants' problem-solving skills through practical applications of mathematical concepts. The workshop began with an overview of mathematical modelling concepts, including problem formulation, model development, and validation techniques. Participants learned about the role of mathematical modelling in various fields such as engineering, economics, biology, and social sciences. Subsequent sessions covered a range of mathematical modelling techniques, including deterministic and stochastic models, optimization methods, simulation techniques, and statistical modelling approaches. Participants were introduced to software tools commonly used for mathematical modelling, such as MATLAB, R, and Python. Case studies and practical examples illustrating the application of mathematical modelling in diverse domains, including population dynamics, financial markets, epidemiology, environmental studies, and engineering systems were discussed by the resource person.

The workshop provided a platform for participants to learn various mathematical modelling techniques, apply them to real-world problems, and gain insights into the interdisciplinary nature of mathematical modelling. Participants engaged in hands-on exercises and group projects aimed at applying mathematical modelling techniques to specific problems. Dr. Mittal provided guidance and feedback as participants worked through the problem-solving process, emphasizing critical thinking, creativity, and collaboration.

Madam Principal Dr. Rana Baljinder Kaur appreciated the efforts of the department and congratulated the HOD, Dr. Satinder Pal Kaur and faculty for organizing such an interactive event.

Outcome of the Activity: Participants gained a deeper understanding of mathematical modelling concepts and techniques, as well as their relevance to real-world problem-solving. Participants learned how to apply mathematical modelling techniques to analyze complex systems, make predictions, and inform decision-making processes in various domains. The workshop inspired participants to explore further applications of mathematical modelling in their respective fields and pursue innovative solutions to real-world challenges.

No. of Beneficiaries: 67

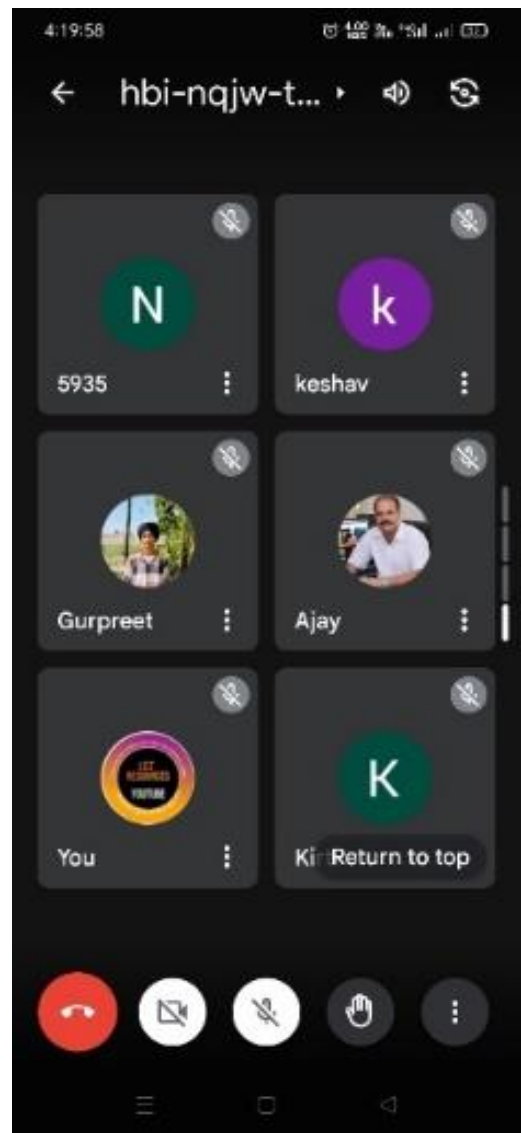
Media coverage Link:

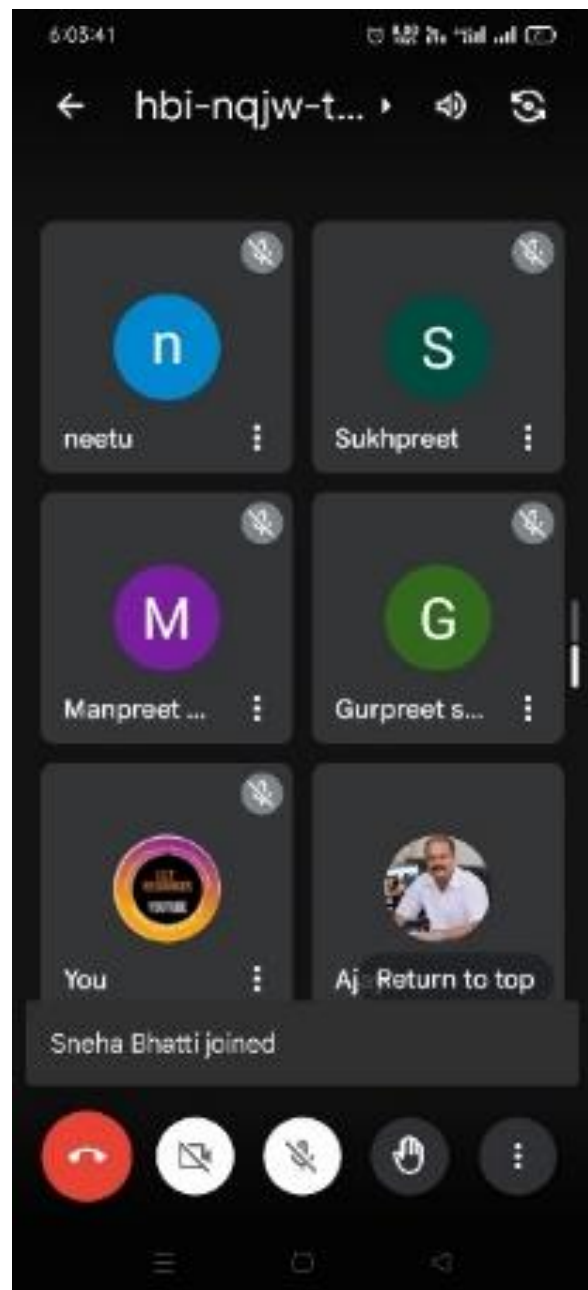
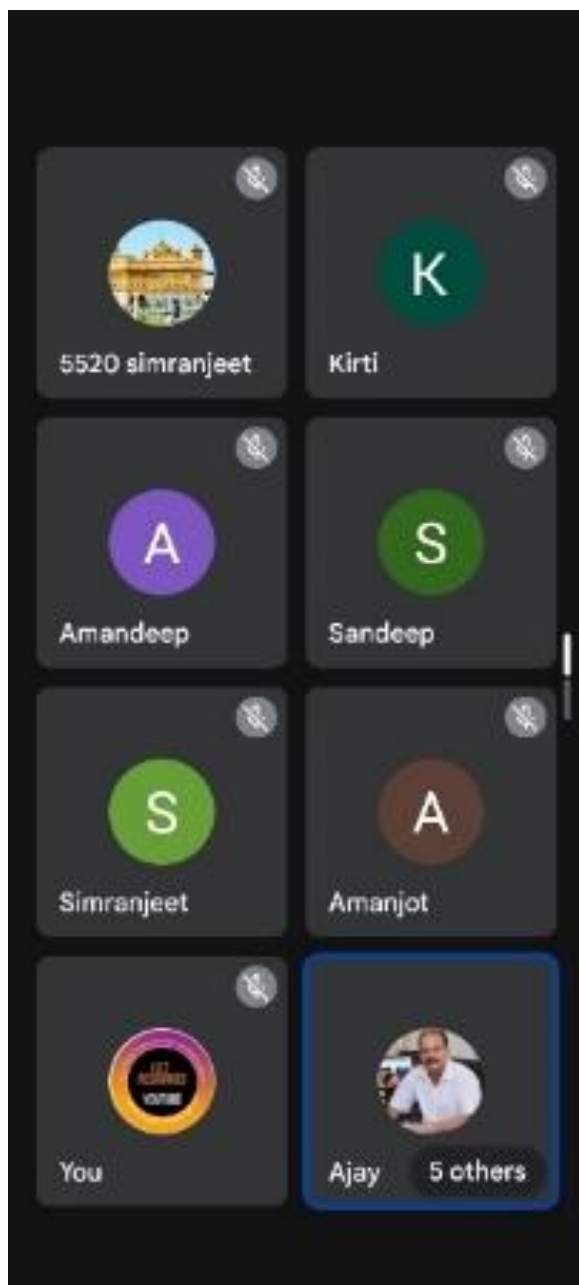
<https://www.facebook.com/drtejinder.dhaliwal/posts/pfbid0uBnjtoUxzDM8wv4pzfBTcURRGzMErdDWcCCiU63tQ4EVh1cqBrruhV6YTEVjHntbl>

Registration Link:

<https://docs.google.com/forms/d/1YQlIKU8C4Ncv9seVAFtJ16BdMF5EDCh3wkm0jyeNGsQ/edit>







| Attendance- Workshop on Mathematical Modelling | | | | | |
|--|------------------|---------------------------------|----------------|--------------|-------------|
| Sr No | Name of student | Email Id | Contact Number | Class | Roll Number |
| 1 | Jyoti kaur | jyoti1kaur3@gmail.com | 8054502450 | BA/B.Sc.-III | 3057 |
| 2 | Priya doomra | priyadoomra787@gmail.com | 9878751882 | BA/B.Sc.-III | 3092 |
| 3 | Karandeep Kaur | karandeepkaurk8@gmail.com | 8725939749 | BA/B.Sc.-I | 5506 |
| 4 | Payal | navitdhawan@gmail.com | 8847441306 | BA/B.Sc.-I | 5511 |
| 5 | Sumanpreet kaur | Officialpreet.kaur001@gmail.com | 7986420983 | BA/B.Sc.-I | 5519 |
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| 34 | Amandeep Kaur | amangabbi00032@gmail.com | 981578185 2 | BA/B.Sc.-I | 1075 |
| 35 | Sharan Deep kaur | sharandeepkaur387@gmail.com | 896892702 2 | M.Sc.(Maths)-II | 10301 |
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| 42 | Damanpreet kaur | vs466417@gmail.com | 985574367 7 | BA/B.Sc.-I | 1280 |
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| 53 | NOOR | noormiddha5@gmail.com | 6284490061 | BA/B.Sc.-III | 5910 |
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| 55 | Gursimran Singh | gursimranbuttar77@gmail.com | 7814948751 | BA/B.Sc.-III | 3011 |
| 56 | Simran | simran32128@gmail.com | 6239014641 | BA/B.Sc.-I | 5507 |
| 57 | Akanksha | akankshabeniwal48@gmail.com | 9417514924 | BA/B.Sc.-III | 5902 |
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| 59 | Shaminder singh | jbshami2003@gmail.com | 7889164392 | BA/B.Sc.-III | 3082 |
| 60 | Kashish | jasuja119@gmail.com | 8146732338 | BA/B.Sc.-III | 3055 |
| 61 | Amritpal singh | ramgarhiaamritpalsingh352@gmail.com | 9464646112 | BA/B.Sc.-III | 3135 |
| 62 | Palak | yashwadhera8@gmail.com | 9914408996 | BA/B.Sc.-III | 5932 |
| 63 | Suneha | suneha0286@gmail.com | 8264660286 | BA/B.Sc.-III | 5911 |
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DBT ACTIVITY REPORT (2023-24)

PG Department of Mathematics

Activity 14

Name of Activity: Online Lecture Series on Finite Fields

Date: 26th March, 2024

Details of Resource Persons:

1. Dr. Rohit Gupta, Assistant Professor, Birla Institute of Technology & Sciences, Pilani, Hyderabad Campus

Venue/Mode: Online

Objective of activity:

1. Introduce participants to the concept of finite fields, which are algebraic structures with a finite number of elements.
2. Explore methods for characterizing finite fields, such as prime power order or irreducible polynomial representations.
3. Provide concrete examples and applications of finite fields and polynomials, demonstrating how they are used in practical scenarios.

Summary of the activity: PG Department of Mathematics of Guru Nanak College Sri Muktsar Sahib organized “Online Lecture Series on Finite Fields” sponsored by DBT, New Delhi under Star College Scheme on 26.03.2023. The day started with formal welcome of resource person by Ms Kamaljeet Kaur. The session commenced with an overview of finite fields, including their definition, construction methods, and basic properties. Participants gained insights into the algebraic structure of finite fields and their significance in modern mathematics and applications. Subsequent sessions focused on the characterization of finite fields, emphasizing results such as the uniqueness of finite fields of a given order, the existence of primitive elements, and the structure of multiplicative groups. Participants explored various methods for characterizing finite fields, including polynomial-based approaches and algebraic techniques. The lecture delved into the theory of polynomials over finite fields, including properties such as irreducibility, factorization, and roots. Participants learned how polynomials over finite fields are used to construct finite field extensions and algebraic structures with applications in coding theory and cryptography.

In the concluding talk, he highlighted the applications of finite fields and polynomials in coding theory and cryptography. Participants learned how finite

fields are used to construct error-correcting codes, cryptographic primitives, and secure communication protocols. Case studies and examples demonstrated the practical relevance of finite fields in modern information security systems

Principal, Dr. Rana Baljinder Kaur congratulated Dr. Satinderpal Kaur, HOD and all the faculty members for organizing the event. At the end, Dr. Satinderpal Kaur, presented a vote of thanks to the resource person and all the organizing team members.

Outcome of Activity: The lecture provided a solid foundation in the algebraic aspects of finite fields, their characterization, and the importance of polynomials within this context. Participants learned about the practical applications of finite fields and polynomials in coding theory, cryptography, and related fields.

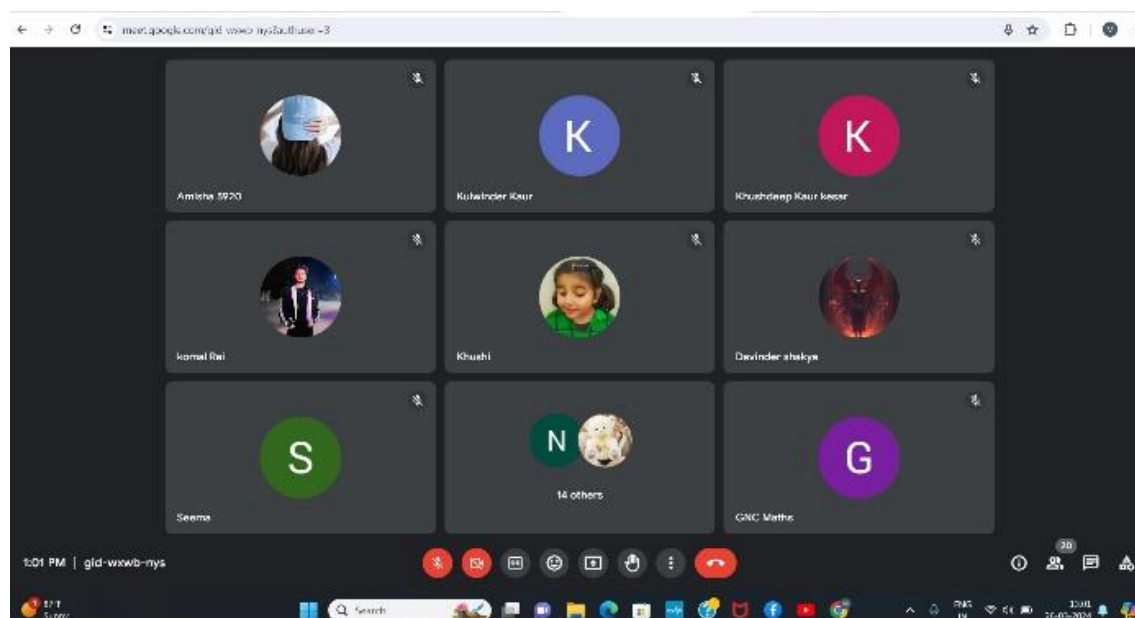
No. of Beneficiaries: Students 116, Faculty 6

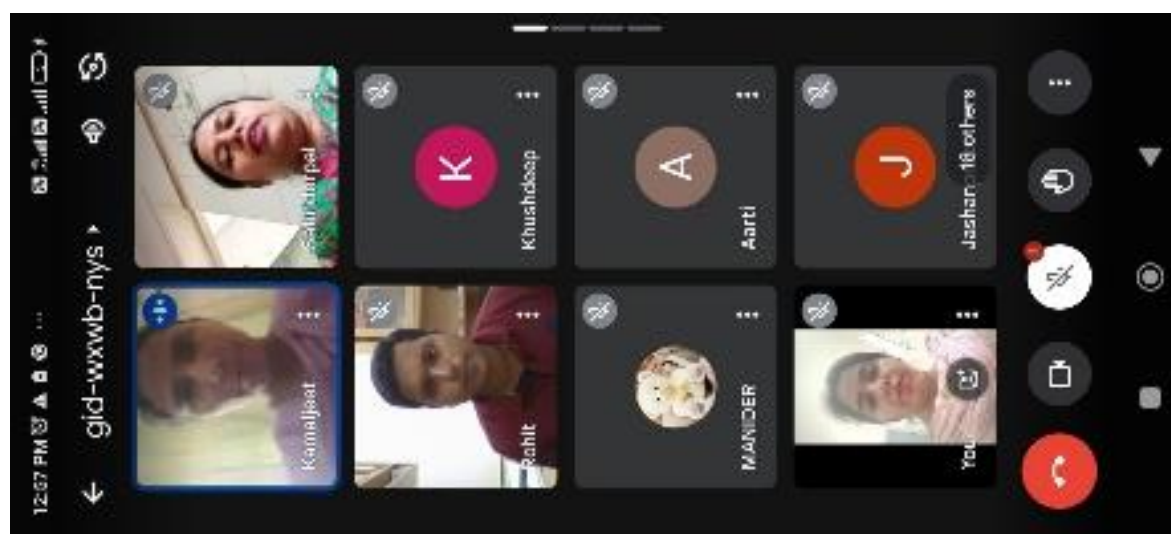
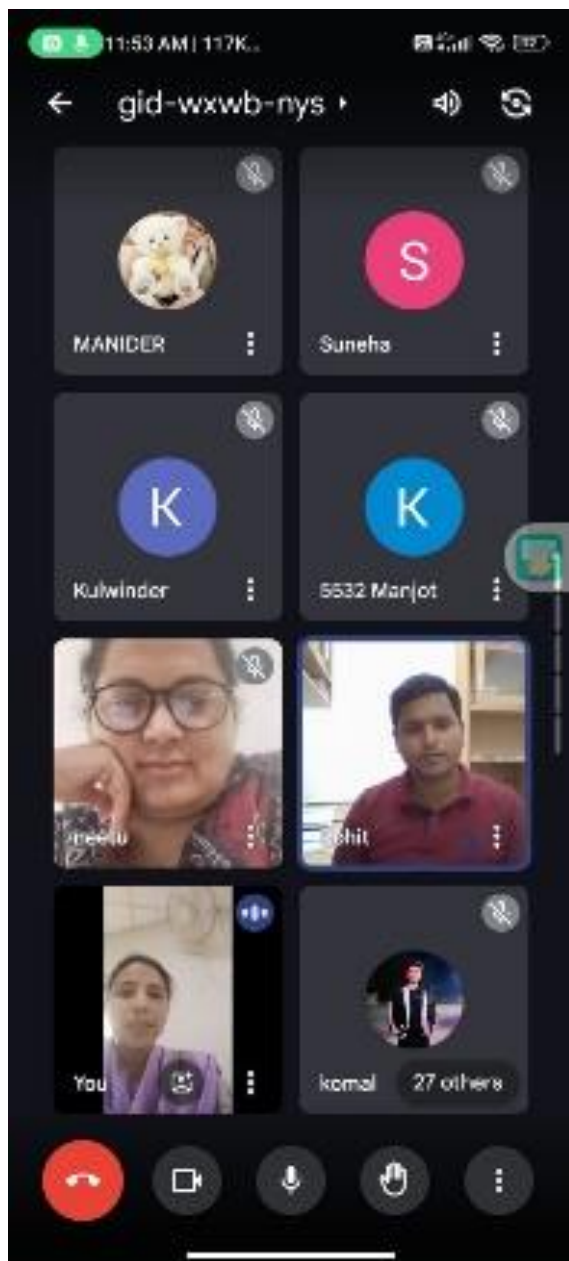
Media coverage Link:

<https://www.facebook.com/drtejinder.dhaliwal/posts/pfbid02M2U1dit3yiPCVG5HSQRsV7BaQYd53SLEeY8cZwvAAHk2CZfDDkzLKqa8jMXRCsL9I>

Registration Link(if any):

<https://docs.google.com/forms/d/10zpXLS09EXJXugBjw8W6Ulht3D5jYZCbQLvOZqs4ZPI/edit>





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DBT ACTIVITY REPORT (2023-24)

PG Department of Mathematics

Activity 15

Name of Activity: National Conference on Recent trends in Mathematics

Date: 27th March, 2024

Details of Resource Persons:

1. Dr. Rajneesh Kumar, Professor, Department of Mathematics, Kurukshetra University, Kurukshetra.
2. Dr. Vijay Kumar Kukreja, Professor and Head, Department of Mathematics, SLIET Longowal.
3. Dr. Jatinder Singh, Associate Professor, Department of Mathematics, Guru Nanak Dev University, Amritsar.
4. Dr. Tapas Chatterjee, Associate Professor, Department of Mathematics, IIT Ropar
5. Dr. Rohit Gupta, Assistant Professor, Department of Mathematics, BITS Pilani, Hyderabad Campus.
6. Dr. Sourav Sharma, Deputy of Industrial Engineering, University of Houston, USA.

Venue/Mode: Guru Nanak College, Sri Muktsar Sahib

Objective of activity:

1. Discuss recent advances and breakthroughs in various branches of mathematics.
2. Fostering collaboration and interdisciplinary exchanges between mathematicians from different institutions and backgrounds.
3. Provide a venue for researchers to present their work and potentially publish their findings in conference proceedings or affiliated journals.

Summary of the activity:

One-day National Conference on “Recent Trends in Mathematics” was organised by PG Department of Mathematics sponsored by DBT Star College Scheme New Delhi. The conference was started with College Shabad, after which the principal and the management committee formally welcome the guests by presenting them with bouquets. The chief guest of the conference, Dr. Rajneesh Kumar, Professor, Department of Mathematics, Kurukshetra University, Kurukshetra, gave detailed information about “Modeling and Plane Waves”. During the keynote speech of

the conference, various scholars expressed their views regarding the importance of mathematics in human life. Dr. Vijay Kumar Kukreja, Professor and Head, Department of Mathematics, SLIET Longowal told about “Numerical Solution of Chemical Engineering Problem”, Dr. Jatinder Singh, Associate Professor, Department of Mathematics, Guru Nanak Dev University, Amritsar, talked about “Round and Sleek Meterizable Spaces”, Dr. Sourav Sharma, Deputy of Industrial Engineering, University of Houston, USA, “Role of Optimization Modeling in Carbon Management”, Dr. Rohit Gupta, Assistant Professor, Department of Mathematics, BITS Pilani, Hyderabad Campus discussed the “Development of new method of Permutation Polynomials”, Dr. Tapas Chatterjee, Associate Professor, Department of Mathematics, IIT Ropar introduced concepts regarding the “Arithmetic Nature of Euler's Constant”.

Apart from this, the online paper presentation session was led by Dr. Sugandha Maheshwari, Assistant Professor, IIT Roorkee. Dr. Satinder Pal Kaur, HOD, PG Department of Mathematics said that professors, research scholars and students from various institutions of the country and abroad had presented research papers in the conference. It is remarkable that research papers from Algeria and Taiwan were presented during the conference along with various papers from Punjab, Goa, Haryana, HP, Manipur, UP, Gujarat, Telangan, Tamilnadu, Jharkhand, West Bengal, Maharashtra and Hyderabad were received.

On this occasion, the college principal Dr. Rana Baljinder Kaur congratulated HOD, PG Department of mathematics and the organizing committee of the conference. In her address, she emphasized that mathematics is a subject which is important for every person's life.

No. of Participants- 83

Media coverage Link:

<https://www.facebook.com/drtejinder.dhaliwal/posts/pfbid03278pEPEZK7B7UVziMc61CvUbGnvFDELvCs4shL1QnC7VnSAqkHUwUNR81Xni2ByUI>

Registration Link:

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For any queries contact us at

94620-22466, 98774-46366

97807-32462

Important Dates

Conference Date

March 27, 2024

Registration Deadline

March 25, 2024

Abstract Acceptance to Participation

March 26, 2024

Registration Fee

For Faculty : 400/-

For Students: 150/-

Registration fee will be taken electronically after acceptance of abstract

All the accepted papers will be published as a chapter in book with ISBN no. with extra fees (100/-). Selected papers will be published in journals as per journal norms

Abstract can be sent on the mail id: conference@maths48@gmail.com



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MARCH 27, 2024

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Guru Nanak College

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| Sr N o. | Name of the Participant | Designation | Name of the institute | Contact no (Preferably WhatsApp) | Email-ID | Title of the paper |
|---------|-------------------------|---------------------|---|----------------------------------|--------------------------------------|--|
| 1 | Dr. Nishant Juneja | Assistant Professor | Dev Samaj College for Women, Ferozpur | 8427752125 | rtmct2016@gmail.com | Severity of the Side Effects of Covid-19 Vaccination in Punjab- A Survey Based Analysis |
| 2 | Vivek | Research Scholar | Institute of Engineering and Technology, Lucknow | 8076011994 | 2100522007101@ietlucnknow.ac.in | Fibonacci wavelet and collocation points based efficient numerical algorithm to solve the nonlinear differential equations |
| 3 | Pooja | Research scholar | Maharishi markandeshwar university mullana | 8901761399 | Beniwalpooja@gmail.com | Basics of mathematical theory of elasticity |
| 4 | BHUVNESH WAR DUTT | PG STUDENT | BAHRA UNIVERSITY, WAKNAGHAT, DISTRICT SOLAN HIMACHAL PRADESH, INDIA, PIN:173234 | 70183315021, 9817113789 | BU2022PGMAT03@bahrauniversity.edu.in | Applications of Iman Transform to Address Certain Cardiovascular Models |
| 5 | Soumyajit Ghosh | Mr. | National Institute of Technology Hamirpur | 9163366316 | soumyajitghosh1729@gmail.com | Controllability of Sobolev-Type Caputo fractional Integro-differential system of order $1 < r < 2$ |
| 6 | BHUVNESH WAR DUTT | PG STUDENT | BAHRA UNIVERSITY, WAKNAGHAT, DISTRICT | 7018331502, 9817113789 | BU2022PGMAT03@bahrauniversity.edu.in | Applications of Iman Transform to Address Certain Cardiovascular Models |

| | | | | | | |
|----|----------------------|---------------------------------|---|---------------------------|--|---|
| | | | SOLAN HIMACHAL PRADESH,IN DIA, PIN:173234 | | | |
| 7 | Ravi | Research scholar | MMU | 8377880542 | ravipensia 833@gmail .com | Study of dual phase lag model on photothermal interaction of semiconductor material |
| 8 | BHUVNESH WAR DUTT | PG STUDENT | BAHRA UNIVERSITY, WAKNAGHAT , DISTRICT SOLAN HIMACHAL PRADESH,IN DIA, PIN:173234 | 7018331502, 9817113789 | BU2022PG MAT03@b ahrauniver sity.edu.in | Applications of Iman Transform to Address Certain Cardiovascular Models |
| 9 | Ms.R.KEER THIKA | RESEARCH SCHOLAR | VELTECH RANGARAJA N DR. SAGUNTHAL A R & D INSTITUTE OF SCIENCE AND TECHNOLOG Y | 9962963838 | keerthi277 89@gmail. com | Exploring Recent Trends in Mathematics: Harnessing the Power of Tandem Queuing Models with Vacation |
| 10 | PUNEET SHUKLA | RESEARCH SCHOLAR | BRAHMANAN D P.G. COLLEGE THE MALL, KANPUR | 8574522952 | puneetshu kla05@gm ail.com | A SUBCLASS OF HARMONIC MULTIVALENT FUNCTIONS ASSOCIATED WITH THE DIFFERENTIAL OPERATOR |
| 11 | PAPPU MAHTO | Assistant Professor | St. Xavier's College,Ranch i, Jharkhand | 8797774508 | pappumaht o89@gmail .com | Equilibrium Analysis of a Mathematical Model |
| 12 | Soumyajit Ghosh | Mr. | National Institute of Technology Hamirpur | 9163366316 | soumyajitg hosh1729 @gmail.co m | Controllability aspect of Sobolev-type Caputo fractional impulsive differential system of order $1 < r < 2$ |
| 13 | Seemant Tiwari | Student | Southern Taiwan University of Science and Technology, Tainan City, Taiwan | 7248793006 | da82b203 @stust.edu .tw | Title of the paper |
| 14 | Shivam Shukla | Research Scholar | Shiv Harsh Kisan P.G. College, Basti- 272001, U.P., India | 9918737331 | shuklashiv am4554@ gmail.com | Severity of the Side Effects of Covid-19 Vaccination in Punjab- A Survey Based Analysis |
| 15 | Arun Kumar Pandey | Research Scholar | Shiv Harsh Kisan P.G. College Basti - 272001,U.P. | 9794942306 | arunpande ybst@gmai l.com | Fibonacci wavelet and collocation points based efficient numerical algorithm to solve the nonlinear differential equations |
| 16 | Dr. Smarajit Maji | Senior Research Philomath | Indian Statistical Institute, 203, B.T. Road, Kolkata- | 7364854695 | majismaraji t5@gmail.c om | Basics of mathematical theory of elasticity |

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|----|----------------------------|---------------------|--|-------------|------------------------------|--|
| | | | 700108, W.B., India | | | |
| 17 | Ranjeet Karabhai Dharsanda | Assistant Professor | Bahauddin Science College Junagadh | 9723720868 | ranjeetdharsanda@gmail.com | Applications of Iman Transform to Address Certain Cardiovascular Models |
| 18 | Rishu Garg | PhD Scholar | Guru Nanak Dev University, Amritsar | 8146722510 | rishugarg128@gmail.com | Controllability of Sobolev-Type Caputo fractional Integro-differential system of order $1 < r < 3$ |
| 19 | Nikita | Research Scholar | DCRUST | 7289801008 | kadyannikit a2@gmail.com | Applications of Iman Transform to Address Certain Cardiovascular Models |
| 20 | Sanjay Kumar | Research scholar | Government degree College barakhal sant Kabir Nagar 272271 ,U p India. | 8446850967 | bastisanjay kumar@gmail.com | Study of dual phase lag model on photothermal interaction of semiconductor material |
| 21 | Kanishka | Phd Scholar | Deenbandhu Chhoturam University of Science and Technology | 7206006566 | ksaroha13@gmail.com | Applications of Iman Transform to Address Certain Cardiovascular Models |
| 22 | Manish | Research Scholar | DCRUST, MURTHAL, SONEPAT | 9050526264 | manishchhi mpa104@gmail.com | Exploring Recent Trends in Mathematics: Harnessing the Power of Tandem Queuing Models with Vacation |
| 23 | Dr. Rashmi Sachdeva | Assistant Professor | Punjabi University | 9914102305 | rashmi.sachdeva86@gmail.com | A SUBCLASS OF HARMONIC MULTIVALENT FUNCTIONS ASSOCIATED WITH THE DIFFERENTIAL OPERATOR |
| 24 | Sangeeta Devi | Student | Kurukshetra University, Kurukshetra | 9.17056E+11 | Sangeetak amboz@gmail.com | Equilibrium Analysis of a Mathematical Model |
| 25 | Jatinderpal Kaur | Research scholar | Maharishi markandeshwar engineering college (deemed to be university)Mullana | 9988766157 | jatinderpal02k@gmail.com | Controllability aspect of Sobolev-type Caputo fractional impulsive differential system of order $1 < r < 3$ |
| 26 | Reetu | Assistant professor | Punjabi University patiala | 9815614208 | reet.gemini@gmail.com | Title of the paper |
| 27 | Ravinder | Research Scholar | CDLU SIRSA | 9728641478 | ravinderravi4410@gmail.com | Severity of the Side Effects of Covid-19 Vaccination in Punjab- A Survey Based Analysis |
| 28 | Neha Thind | Research scholar | Chaudhary Devi Lal University, Sirsa, Haryana | 8708605753 | nehakamb ojthind10@gmail.com | Fibonacci wavelet and collocation points based efficient numerical algorithm to solve the nonlinear differential equations |
| 29 | Dr. Ranju Banota | Assistant Professor | Govt. Degree College Una | 9418076178 | banotadrranju@gmail.com | Basics of mathematical theory of elasticity |

| | | | | | | |
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| | | | Himachal Pradesh | | | |
| 30 | MANJEET | Research Scholar | Department of Mathematics, Baba Mastnath University, Asthal Bohar, Rohtak-124021(Haryana) INDIA | 7988602142 | iammanjeet24@gmail.com | Applications of Iman Transform to Address Certain Cardiovascular Models |
| 31 | Pradeep Gundappa Janthe | Research Scholar | Vishwakarma University, Pune. | 9591454757 | pradeepjanthe@gmail.com | Controllability of Sobolev-Type Caputo fractional Integro-differential system of order $1 < r < 4$ |
| 32 | Jatinder Kaur | Assistant Professor | Guru Nanak Dev University College Verka Amritsar | 9803618270 | Jatinderkaulakh@gmail.com | Applications of Iman Transform to Address Certain Cardiovascular Models |
| 33 | Jatinder Kaur | Assistant Professor | Guru Nanak Dev University College Verka Amritsar | 9803618270 | Jatinderkaulakh@gmail.com | Study of dual phase lag model on photothermal interaction of semiconductor material |
| 34 | Dr. Sarbjit Singh | Assistant Professor | Guru Nanak Dev University College Narot Jaimal Singh Pathankot. | 9888999757 | sarbasr@gmail.com | Applications of Iman Transform to Address Certain Cardiovascular Models |
| 35 | BHUVNESH WAR DUTT | PG STUDENT | Department of mathematics BAHRA UNIVERSITY, WAKNAGHAT , DISTRICT Solan , HIMACHAL PRADESH , INDIA | 7018331502, 9817113789 | BU2022PG MAT03@bahrauniversity.edu.in | Exploring Recent Trends in Mathematics: Harnessing the Power of Tandem Queuing Models with Vacation |
| 36 | Amanpreet Kaur | Research scholar | Shaheed Bhagat singh state university, Ferozepur | 9888698881 | lvaman87@gmail.com | A SUBCLASS OF HARMONIC MULTIVALENT FUNCTIONS ASSOCIATED WITH THE DIFFERENTIAL OPERATOR |
| 37 | Mamatha Kumari | Assistant Professor | St.Martin's Engineering College | 9398962413 | Mamathakumaris@smec.ac.in | Equilibrium Analysis of a Mathematical Model |
| 38 | Indu Bala | Ph.D. Scholar | Lovely Professional University | 7807294352 | indukaundal456@gmail.com | Controllability aspect of Sobolev-type Caputo fractional impulsive differential system of order $1 < r < 4$ |
| 39 | Dr. Sachin Kaushal | Professor | Department of Mathematics, School of Chemical Engineering and Physical Science Lovely Professional University Phagwara-Punjab. | 9888922806 | sachin_kuk@yahoo.co.in | Title of the paper |

| | | | | | | |
|----|--------------------|---------------------|--|-------------|--------------------------------|--|
| 40 | Ritu Ahuja | Assoc.Prof. | Khalsa College for women, civil lines, Ludhiana | 9876603221 | rituahuja.kcw@gmail.com | Severity of the Side Effects of Covid-19 Vaccination in Punjab- A Survey Based Analysis |
| 41 | Gurwinderpal Kaur | Assistant Professor | NIT, Jalandhar | 9465241020 | gurwinderpal.alk.ma@nitj.ac.in | Fibonacci wavelet and collocation points based efficient numerical algorithm to solve the nonlinear differential equations |
| 42 | VINAY PARAB | STUDENT | Dnyanprassarak Mandal's college and research centre, Assagao bardez Goa | 9067789947 | 2102069.stu@dmsscollege.ac.in | Basics of mathematical theory of elasticity |
| 43 | Suchita Golatkar | Associate Professor | Dnyanprassarak Mandal's College and Research Centre Assagao Goa | 8806342781 | suchita@dmsscollege.ac.in | Applications of Iman Transform to Address Certain Cardiovascular Models |
| 44 | Promila Devi | Research Scholar | Chitkara University School of Engineering and Technology, Himachal Pradesh (India) | 9816891976 | promilamaths@gmail.com | Controllability of Sobolev-Type Caputo fractional Integro-differential system of order $1 < \alpha < 5$ |
| 45 | Vineeta Rani | Research Scholar | Maharishi Markandeswar University, Mullana, Ambala, Haryana | 9255437706 | vineeta.jaglan@gmail.com | Applications of Iman Transform to Address Certain Cardiovascular Models |
| 46 | Dr. Poonam Agarwal | Associate Professor | ABES Engineering College | 8130304188 | poonamgm15@gmail.com | Study of dual phase lag model on photothermal interaction of semiconductor material |
| 47 | Dr taru mittal | Associate professor | SSD Girls College, Bathinda | 9417159121 | taru.mittal.ssd@gmail.com | Applications of Iman Transform to Address Certain Cardiovascular Models |
| 48 | Dr. Garima Gupta | Assistant Professor | Punjabi University, Patiala | 9781355051 | garima@pbi.ac.in | Exploring Recent Trends in Mathematics: Harnessing the Power of Tandem Queuing Models with Vacation |
| 49 | Nidhi Arora | Research Scholar | Department Of CSE, MRSPTU, Bathinda-Punjab | 9992111766 | er.nidhi152@gmail.com | A SUBCLASS OF HARMONIC MULTIVALENT FUNCTIONS ASSOCIATED WITH THE DIFFERENTIAL OPERATOR |
| 50 | Dr. Rachna Rani | Assistant Professor | University College Ghanaur | 98725-54215 | rachna@pbi.ac.in | Equilibrium Analysis of a Mathematical Model |
| 51 | Mamta Keswani | Research scholar | Dr. Harisingh Gour Vishwavidyalaya Sagar | 7049558358 | mamtakeswani01@gmail.com | Controllability aspect of Sobolev-type Caputo fractional impulsive |

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|----|-----------------------|---|---|-------------|--------------------------------|---|
| | | | | | | differential system of order $1 < r < 5$ |
| 52 | Dr. Sakshi Angi | Assistant Professor | Guru Nanak College | 9646480664 | sakshiveronica24@gmail.com | A Systematic Review of Financial Aspects in Mathematics Teaching and Learning |
| 53 | Monika Juneja | Assistant Professor | Guru Nanak College Sri Muktsar Sahib | 9914927128 | monikajun13@gmail.com | Recent Developments in Utilizing Digital Technology in Mathematics Education |
| 54 | Dr. Shaveta Dargan | Assistant professor in Computer Science | Guru Nanak College Sri Muktsar Sahib | 9464411050 | shavetagnic@gmail.com | Exploring Research Trends of Artificial Intelligence in Mathematics Education: A Comprehensive Review |
| 55 | Dr. Jagmeet Kaur | Assistant Professor | Guru Nanak College, Sri Muktsar Sahib | 9914716005 | drjagmeetkaur123@gmail.com | Application of Mathematics in Financial Management |
| 56 | Kajal | Asst prof in mathematics | Guru Nanak college, Muktsar | 6283257575 | kajal18049978@gmail.com | Origin and applications of complex number |
| 57 | Jashanpreet kaur | Student | Guru Nanak college, Sri Muktsar sahib | 9815212416 | jashanpreetkaur94597@gmail.com | Origin and applications of complex number |
| 58 | Gaganpreet Kaur | Student | Guru Nanak College, Sri Muktsar Sahib, Punjab | 97801-07191 | joharjagjit@gmail.com | Applications of Probability in real life |
| 59 | Kanchan | Student | Guru Nanak college, Sri Muktsar Sahib | 9592433949 | kanchanurao870@gmail.com | History of Alzebra and it's uses |
| 60 | Rimpjeet Kaur | Assistant Professor | Guru Nanak College, Sri Muktsar Sahib | 85570 37257 | rimp.pawar04@gmail.com | Unraveling the complexity- Exploring the power of financial mathematics in modern markets |
| 61 | Seema Rani | B.A 1st year | Guru nanak college Shri Muktsar sahib | 6280001913 | seemarani62800@gmail.com | Application of circle and it's uses |
| 62 | Dr. Sandeep Kaur Brar | Assistant Professor | Guru Nanak College, Sri Muktsar Sahib | 9780030018 | sandeeppalg@yahoo.com | Comparing Mathematics and English as Two Languages: A Perspective |
| 63 | Jashanpreet kaur | Student | Guru Nanak College, shri muktsar sahib | 6284988677 | jashanpreet88677@gmail.com | Exploring the graph theory |
| 64 | Mukta jain | Student | Guru nanak college | 6239420421 | laganjain2000@gmail.com | Use of algebra in daily life |
| 65 | Nancy Demra | Student | Guru Nanak College, Shri Muktsar Sahib | 7888723953 | nancydemra33@gmail.com | Warfare and Game Theory - A Review |
| 66 | Dr. Sunil Kumar | Assistant Professor | Guru Nanak College, Sri Muktsar Sahib | 70091-23964 | drsunilarora18@gmail.com | Mathematics in the Era of Artificial Intelligence: Shaping Future Pathways |
| 67 | SHRUTI | Student | Guru Nanak College | 8872544390 | shrutibatra877@gmail.com | Analysis of Road Accidents in India for period 2018-2022 |

| | | | | | | |
|----|------------------|--------------------------------|---------------------------------------|-------------|----------------------------------|--|
| 68 | Monika Garg | Assistant professor | Guru Nanak College | 9417164962 | monicagnc9@gmail.com | Recent involvement of Mathematics in the development of Business and Commerce Business a |
| 69 | Kirti girdhar | Student | Guru nanak college | 7657813795 | girdharkirti6@gmail.com | Matrices and it's uses |
| 70 | Kirti girdhar | Student | Guru nanak college | 7657813795 | girdharkirti6@gmail.com | Matrix and it's uses |
| 71 | Sharan Deep kaur | Student | Guru Nanak College, Sri Muktsar Sahib | 8968927022 | sharandee pkaur@387gmail.com | Mean, Mode and Median used in statistical problem solving in real life situations |
| 72 | Dr. Ruchi Kalra | Asst professor | Guru Nanak College, Sri Muktsar Sahib | 9417422467 | Ruchipathe la.kalra@gmail.com | Challenges faced in integrating STEM(Science Technology Engineering and Mathematics) in Home Science |
| 73 | Gurpreet singh | Student | Guru Nanak college Muktsar | 94175 10599 | aulakhgurpreetsingh194@gmail.com | Paradoxes in Probability |
| 74 | Keshav jain | Student | Guru Nanak college | 7717496784 | keshavjain21022005@gmail.com | Mathematics and astrology |
| 75 | Harmanjot Singh | Student | Guru Nanak College Shri Muktsar Sahib | 8360170751 | harmanjotsingh2607@gmail.com | Multiplication of matrix and its application in biology |
| 76 | Dr. Neeta Kumari | Assistant Professor in English | Guru Nanak College, Muktsar | 8847603661 | neetamks1010@gmail.com | Mathematics as a Tributary to the River of Language: With Special Reference to Punjabi |
| 77 | Harjit Kaur | Lecturer | Guru Nanak College, Sri Muktsar Sahib | 6284462755 | hkk348531@gmail.com | Harmonizing Numbers and Notes: Exploring the Mathematical Symphony of Music |
| 78 | Ms Veerpal kaur | Assistant professor | Guru Nanak college, sri Muktsar sahib | 9779409355 | Veerpalsivia1996@gmail.com | Studies on the Impact of Financial Mathematics on the Current Financial System |
| 79 | Rakhi | Assistant Professor | Guru Nanak College | 9888530762 | rakhiwadhwa530@gmail.com | Decoding Strategies: Exploring the Intricacies of Game Theory |
| 80 | Gagandeep Kaur | Assistant Professor | Guru Nanak College, Sri Muktsar Sahib | 8264748077 | gagandeepbrar208@gmail.com | Optimizing success: Mathematical Applications in Business Management |
| 81 | Isha rani | Assistant professor | Guru nanak college muktsar | 8146514595 | ishaarora5441@gmail.com | The impact and application of financial mathematics in today's financial markets |
| 82 | Gagandeep Kaur | Assistant Professor | Guru Nanak College, Sri Muktsar Sahib | 8274748077 | gagandeepbrar208@gmail.com | Mathematical Applications in Business Management |
| 83 | Pooja Bajaj | Asst Prof. | Guru Nanak College ,Sri Muktsar Sahib | 7015064749 | Pbgncmkt@gmail.com | Artificial intelligence significance in Mathematics |

DBT ACTIVITY REPORT(2023-24)

PG Department of Mathematics

Activity-2

Name of Activity: Extension Lecture on Use of MATLAB in Mathematics

Date: 14th Nov., 2023

Details of Resource Persons:

1. Dr. Vikram Mutneja, Associate Professor, Shaheed Bhagat Singh State University, Ferozepur.

Venue/Mode: Guru Nanak College, Sri Muktsar Sahib

Objective of activity:

1. To aware students regarding various softwares used in Mathematics.
2. To develop the interest in research in Mathematics with the help of MATLAB.
3. To develop programming skills in students as well as Faculty.

Summary of the activity: PG department of Mathematics organized an Extension Lecture on Use of MATLAB in Mathematics on 14th Nov. 2023 under DBT star college scheme grant. This training program was organised so that students can learn use of MATLAB and its application area in Mathematics. The day started with a formal welcome of resource person Dr. Vikram Mutneja from SBSS University, Ferozepur by Ms Kamaljeet Kaur, Assistant Professor, PG Department of Mathematics, Guru Nanak College, Sri Muktsar Sahib. During the lecture, Dr. Vikram delivered a very informative and interactive talk regarding the platform of MATLAB. He discussed that various interfaces of MATLAB allows [matrix](#) manipulations, plotting of [functions](#) and data, implementation of [algorithms](#), creation of [user interfaces](#), and interfacing with programs. He also illuminated that MATLAB is extensively used for numerical analysis tasks such as solving systems of linear equations, finding roots of nonlinear equations, numerical integration, and solving differential equations. It has various applications in linear algebra, Plotting and visualisation, Statistics, Computational Geometry and many more. At the end of sessions queries from students as well as faculty were taken by the resource person. Dr. Satinderpal Kaur, Head, PG Department of Mathematics proposed a formal vote of thanks to the resource person for such an illuminating talk.

Outcome of the Activity: Participants gain a better understanding of MATLAB's capabilities, syntax, and applications. They develop practical skills in using

MATLAB through hands-on exercises or demonstrations and learn how to solve real-world problems using MATLAB.

No. of Beneficiaries: Students-53, Faculty-4

Media coverage Link:

<https://www.facebook.com/drtejinder.dhaliwal/posts/pfbid02ZcDC9MriP1gdcScGXKfWGazMc19p5H7s17zw22wfMeCAdCHQZAQgehyDAKtQdC3RI>

Registration Link:

<https://docs.google.com/forms/d/1cl05jhOYIDHPbtwalYUl83X4XTufnFwViAu1MbeRjH4/edit>





| Detail of students "Use of MATLAB in Mathematics" (14.11.2023) | | | | |
|--|-------------------------|------------------|-------------------------------------|------------------------------|
| Sr. No. | Name | Father Name | EmailID | Class studying |
| 1 | Tamanna | Satpal singh | tamannamaini70@gmail.com | Bsc (non medical) 1st year |
| 2 | Karandeep Kaur | Shagan lal | karandeepkaurk8@gmail.com | B.Sc-1(Non-Medical) |
| 3 | Khushpreet Kaur | Rajwinder Singh | mansiratmann7@gmail.com | Bsc(1st year) non-medical |
| 4 | Ramandeep kaur | Baljinder singh | ramandeepkaur91306@gmail.com | Bsc (N.M.) sem 2 |
| 5 | Gurshinder Singh | Gurjinder singh | gurshindersinghatth@gmail.com | Bsc (n.m) 1st year |
| 6 | Arshpreet kaur | Sukhjinder singh | arshpreetkaur8900@gmail.com | Bsc 1st year (non medical) |
| 7 | Sumanpreet kaur | Masret singh | Officialpreet.kaur001@gmail.com | B. Sc 1st year 2nd semester |
| 8 | Adarshnoor kaur | Gora singh | adarshnoorkaur4467@gmail.com | B.S.C (N.M)1 |
| 9 | Gaganpreet Kaur | Jagjit Singh | joharjagjit@gmail.com | Bsc 2nd |
| 10 | Mehak | Satinder Kumar | mk2004arora@gmail.com | B.A 2nd year (4th sem) |
| 11 | Mehak | Sandeep Kumar | mehakrani568g@gmail.com | Bsc(III)NM |
| 12 | Khushi | Prem Shankar | khushisoni70067@gmail.com | Bsc non medical 4th semester |
| 13 | Kanchan | Vinay Urao | kanchanurao870@gmail.com | Bsc (N.M) 2nd year |
| 14 | Amitoj singh | Kuldip singh | Ammy2504@icloud.com | Bsc nm 2nd |
| 15 | Komalpreet kaur | Shivkaran Singh | komalbhullar794@gmail.com | Bsc non med 3rd year |
| 16 | Simranjeet kaur | Angrej singh | Slmran98730@gmail.com | BSC final year |
| 17 | Gurwinder Kaur | Karnail Singh | g6237464@gmail.com | B.Sc. non-medical 3year |
| 18 | Sukhmanjeet Singh | Kulwant Singh | sukhmandh5911@gmail.com | Bsc 2 nm |
| 19 | Jashanpreet kaur | Gurjeet Singh | jashanpreetkaur94597@gmail.com | Bsc 2nd (non - medical) |
| 20 | Harmanjot Singh | Balwinder Singh | harmanjotsingh2607@gmail.com | B.Sc (Non medical) 2nd Year |
| 21 | Sukhpreet Kaur | Buta Singh | sukhpreetkaur5653@gmail.com | B.sc N.M. 3rd year |
| 22 | Khushi | Surinder Kumar | 2719khushi@gmail.com | B.Sc III N.M. |
| 23 | Amisha | Ghansham rai | amishademra@gmail.com | Bsc nm final year |
| 24 | Simranjeet kaur | Satnam singh | simranjeetrupana@gmail.com | BSc 1year (2nd sem) |
| 25 | Simran kaur | Beant singh | singhangraj090@gmail.com | Bsc 1 year (2 semester) |
| 26 | Simran kaur | Beant singh | singhangraj090@gmail.com | Bsc 1year(2 sem) |
| 27 | Simranjeet Singh | Jaswant Singh | simranjeetsigh08@gmail.com | Ba 2nd year |
| 28 | NooR | Mr.Rohit middha | noormiddha5@gmail.com | Bsc final year non medical |
| 29 | Krrish Arora | Vikasdeep arora | Krrisharora892@gmail.com | B.S.C- 1 year (non-medical) |
| 30 | Sahibjeet Singh Dhillon | Manjit Singh | sahibjeetsinghdhillon2727@gmail.com | B.Sc 1st year Non Medical |
| 31 | Manider kour | Balkar Singh | kourmanider5@gmail.com | Bsc final year |
| 32 | Rappu | Gurmeet singh | rappukaur466@gmail.com | Bsc non medical final year |
| 33 | Harpreet Kaur | Jaswinder Singh | js7814611229@gmail.com | B.sc 1st year 2nd semester |

| | | | | |
|----|------------------|------------------|--------------------------------------|-----------------------------|
| 34 | Shiv Bajaj | Mr.Tarsem Chand | shivbajaj279@gmail.com | B.Sc-1st year (Non-Medical) |
| 35 | Ramandeep kaur | Balkar singh | ramansandhugg44@gmail.com | bsc 1 non medical |
| 36 | Monika Rani | Harmesh Singh | Reetuanu85@gmail.com | Bsc2 |
| 37 | Jaspreet Kaur | Baldev Singh | ranjitbhullarranjitbhullat@gmail.com | Bsc 1st year |
| 38 | Deepka Rani | Surjeet Singh | ss7503163@gmail.com | B.sc (NM) 3rd year |
| 39 | Payal rani | Surinder singh | Sodhisajansingh@gmail.com | B.sc (ist)non medical |
| 40 | Akanksha | Azad Singh | akankshabeniwal48@gmail.com | Bsc final non med |
| 41 | Neha | Dev rattan | 5548neha@gmail.com | Bsc non medical 3rd year |
| 42 | Payal | Tarsem lal | navitdhawan@gmail.com | Bsc 1 |
| 43 | Riya | Parveen Kumar | ria458146@gmail.com | Bsc NM (3rd year) |
| 44 | Chahat | Sanjeev kumar | muglanic@gmail.com | BSc (non medical) 2nd sem |
| 45 | Amreen kaur brar | Amarjeet Singh | amarkotli@gmail.com | Bsc non med -1 |
| 46 | Prabhjot kaur | Sudarshan singh | prabhbedi68@gmail.com | Bsc 3 |
| 47 | Palak | Sanjeev Kumar | yashwadhera8@gmail.com | Bsc final year |
| 48 | Harmandeep kaur | Baltej Singh | kaurhrmn2812@gmail.com | B.sc -III(NM) |
| 49 | Harcharan singh | Gurmeet singh | harcharansinghh38@gmail.com | B.s.c N.M (1st) sem 2 |
| 50 | Pawanpreet kaur | Sukhwinder singh | pp8084524@gmail.com | Bsc non medical. Final year |
| 51 | Khushdeep kaur | Kesar singh | kesarkhushdeep@gmail.com | Bsc 1 year |
| 52 | Armaan singh | Tarsem singh | officialarmaansingh10@gmail.com | Bsc non medical 2nd year |
| 53 | Tanishka Bansal | Sourav Bansal | tbansal2211@gmail.com | BSC(Non-Med)-2nd Year |

DBT ACTIVITY REPORT (2023-24)

PG Department of Mathematics

Activity-3 .1

Name of Activity: Lecture Series to create curiosity in students for Applications of Mathematics

Date: 24th Nov., 2023

Details of Resource Persons:

1. Ms Kamaljeet Kaur, Assistant Professor, PG Department of Mathematics, Guru Nanak College, Sri Muktsar Sahib.

Venue/Mode: Govt Sr. Sec. School, Jandwala Bhimeshah, Govt High School (Girls), Jandwala Bhimeshah and Red Rose Public Sr. Sec School, Jandwala Bhimeshah,.

Objective of activity:

2. To encourage young minds to opt mathematics subject for higher studies
3. To guide the students to improve their interest in maths.
4. To inculcate mathematical interest in students by providing them with application areas.

Summary of the activity: PG department of Mathematics organized talks on various topics of Mathematics in various government schools of nearby area to aware students about use of mathematics and to create interest in mathematics. During these visits, Ms Kamaljeet Kaur visited Govt High School (Girls), Govt. Sen. Sec. School and Red Rose Public Sr. Sec School, Jandwala Bhimeshah. Her talk aimed to elucidate the importance of mathematics beyond theoretical concepts, highlighting its crucial role in solving real-world problems across various disciplines. Interactive sessions showcasing diverse applications of mathematics in various fields such as finance, engineering, medicine, and art were organised for the students. She discussed the role of mathematics in describing natural phenomena such as patterns, symmetry, fractals etc. and how mathematical principles underpin biological processes, ecological systems, and physical phenomena like waves, weather, and celestial motion. She also encouraged students to continue their exploration of mathematics beyond the lecture series and pursue further studies or careers in related fields.

The activity was organised under DBT star college scheme grant and the able guidance of Principal, Dr. Tejinder Kaur Dhaliwal. During this activity, 48 students of 12th class and 87 students of Class 10th were benefitted.

Outcome of the activity: The lecture series not only sparked curiosity in students for the applications of mathematics but also inspires them to appreciate the beauty and significance of mathematics in the world around them.

Media coverage Link:

<https://www.facebook.com/drtejinder.dhaliwal/posts/pfbid0UtkRdsG7LNJs5kJ8J9oQoD2Mkc2ViBq5EMD9KvnkVmpbQgi22JWCt5ep7f4HV2jsl>

Registration Link: NA





DBT ACTIVITY REPORT(2023-24)

PG Department of Mathematics

Activity-3

Name of Activity: Lecture Series to create curiosity in students for Applications of Mathematics

Date: 21st Nov., 2023

Details of Resource Persons:

1. Ms Satinderpal Kaur, Assistant Professor, PG Department of Mathematics, Guru Nanak College, Sri Muktsar Sahib.

Venue/Mode: Govt Sr. Sec. School, Bariwala, Govt Sr. Sec. School, Sarainaga, Govt Sr. Sec. School, Jhabelwali, Govt Sr. Sec. School, Thandewala.

Objective of activity:

1. To encourage young minds to opt mathematics subject for higher studies
2. To guide the students to improve their interest in maths.
3. To inculcate mathematical interest in students by providing them with application areas.

Summary of the activity: PG department of Mathematics organized talks on various topics of Mathematics in various government schools of nearby area to aware students about use of mathematics and to create interest in mathematics. During these visits at Govt Sen Sec School Bariwala, Govt. Sen. Sec. School Sarainaga, Govt. Sen. Sec. School Jhabelwali and Y.S. School Thandewala Dr. Satinderpal Kaur interacted with students and detailed them about career opportunities, Use of Mathematics and Schemes of Government which may help students to pursue their higher study in Mathematics. She showcased how mathematical principles are integrated into practical scenarios with the help of examples ranging from the application of calculus in predicting population growth to the use of statistics in analysing market trends. The lecture also enlightened upon opportunities for innovation and advancement emphasizing the importance of interdisciplinary collaboration and the continuous development of mathematical tools and techniques.

The activity was organised under DBT star college scheme grant and the able guidance of Principal, Dr. Tejinder Kaur Dhaliwal. During this activity, 133 students of 12th class and 87 students of Class 10th were benefitted. The students were joyful after learning so many opportunities which they can avail after completion of their studies.

Outcome of the activity: The lecture series created an experience that inspires participants to see mathematics as more than just numbers and formulas but as a powerful tool for solving real-world problems.

Media coverage Link:

<https://www.facebook.com/drtejinder.dhaliwal/posts/pfbid0UtkRdsG7LNJs5kJ8J9oQoD2Mkc2ViBq5EMD9KvnkVmpbQgi22JWCt5ep7f4HV2jsl>

Registration Link: NA







DBT ACTIVITY REPORT (2023-24)

PG Department of Mathematics

Activity-4

Name of Activity: Workshop on LateX Typesetting

Date: 02-03 Feb, 2024

Details of Resource Persons:

1. Dr. Rakesh Kumar, Assistant Professor, Department of Mathematics, Punjabi University, Patiala
2. Dr. Rachna Rani, Assistant Professor, Department of Mathematics, University College, Ghanaur, Patiala

Venue/Mode: Seminar Hall and Mathematics Computational Lab,

Guru Nanak College, Sri Muktsar Sahib

Objective of activity:

1. To provide students and faculty with comprehensive topic discussions on LATEX concepts that will help them to write academic material as well as research papers for publication in reputed journals.
2. To expose students to the LateX which can make writing tasks simpler, more visually appealing, more consistent, reproducible and transparent.

Summary of the activity:

Day-1. The day started with a formal welcome of the resource person by Ms Kamaljeet Kaur. A brief introduction of the guest was shared with the students. After the introductory session, the resource person Dr. Rakesh Kumar delivered a detailed view about the application Latex. He discussed that Latex is free to download along with the process to download it from internet. He also discussed the necessary applications like Miktek, WinEdt and Sumatra pdf which help in running and executing Output file in Latex. After completing the downloading process, he elaborated about how to begin a document depending upon the requirements of author of document. He discussed about how to add different packages required for various page settings, Mathematical equations and Theorems Writing. He also talked about the advantages and disadvantages of using Latex over traditional word processors. During his talk on Basic Document Formatting, he described about creating a simple Latex document from scratch, foemating texts, applying sections, subsections, headings and inserting tables, lists etc.

After the briefing session, Hands on Training Session was conducted during which students learnt the use of program. Participants worked on exercises and mini projects to apply the learned concepts. Thre resource person provided guidance, assistance and troubleshooting support as required and encouraged them to experiment with different features and explore LaTeX resources online.

At the end of day, Mrs. Satinderpal Kaur proposed a formal vote of thanks to Dr. Rakesh Kumar for delivering a magnificent extension lecture and conduct of practical session with ease.

Day-2. The resource person Dr. Rachna Rani delivered her sessions on 2nd day of workshop. During her talk, she discussed about Advanced Formatting techniques which included customising document layout, incorporating graphics, creating and managing labels, references, citations and generating bibliography. She also gave an overview of the Beamer class for creating professional presentations which included Designing slides: themes, colors, fonts, and layouts. She also explicated how content like text, equations, images, and animations can be incorporated in a presentation using beamer. In the concluding session she provided a recap of key concepts and techniques covered in the workshop.

The faculty and students felt that the technical writing skills have been enhanced after attending hands on training sessions on Latex. The queries were taken and solved by the resource persons at the end. Dr Satinderpal Kaur, Head PG Department of Mathematics, formally thanked the resource persons for such an interactive and informative Workshop.

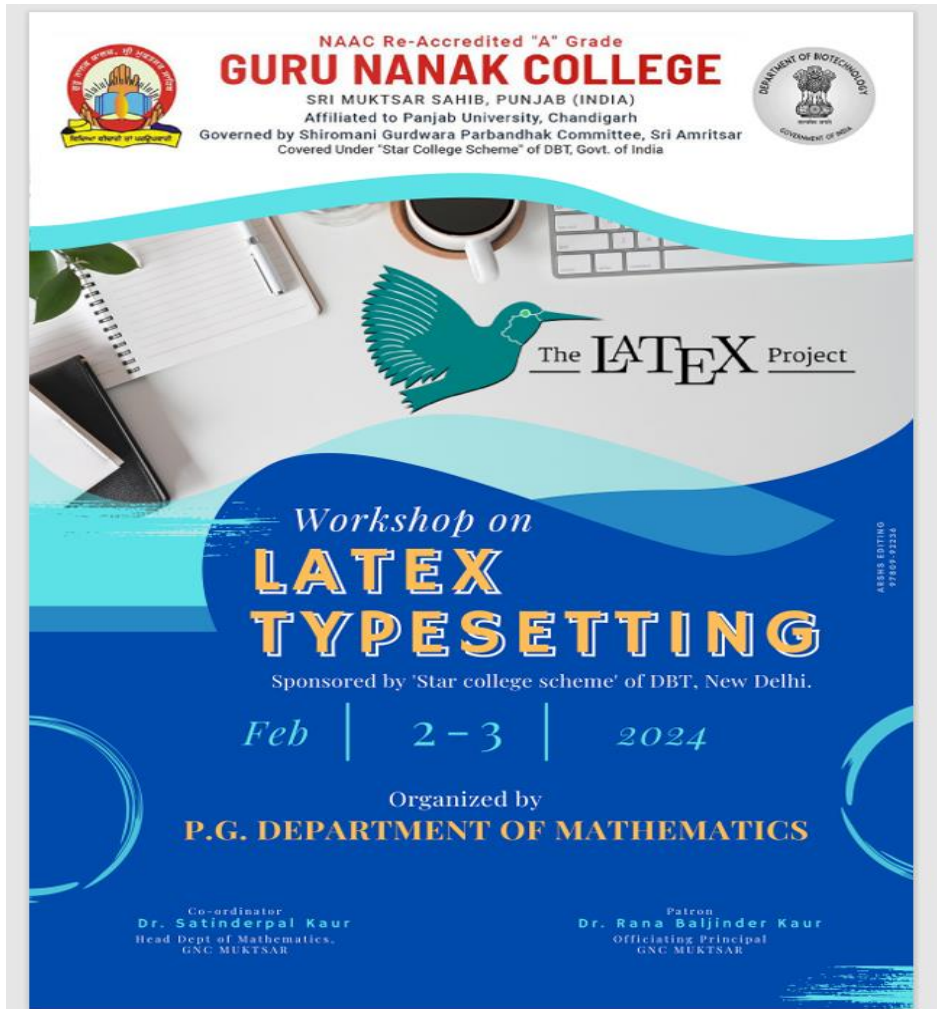
No. of Beneficiaries: Students- 125, Faculty- 22

Media coverage Link:

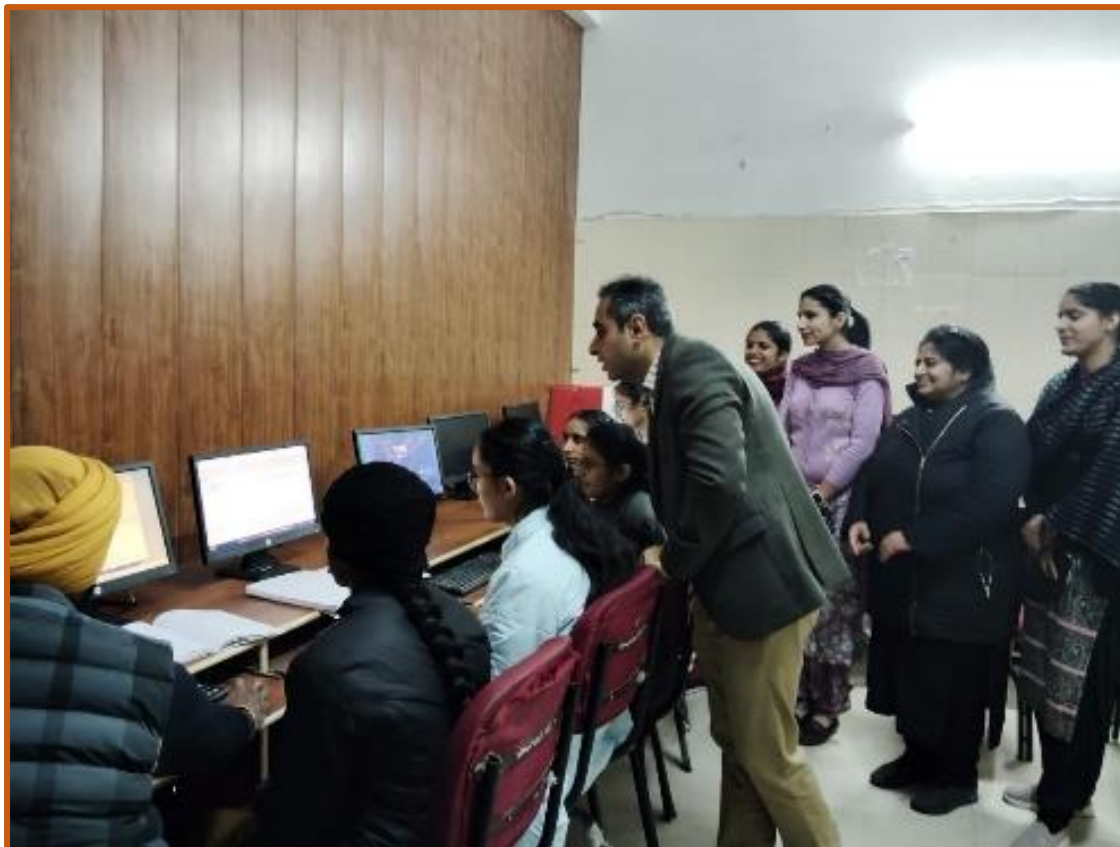
<https://www.facebook.com/drtejinder.dhaliwal/posts/pfbid09dRSU5VChirFcuSvRd7TBGjkDSr6dN3yhNMgy3svSDNRt3Yru1spP2bZXeV8ZdUAI>

Registration Link:

<https://forms.gle/vuN85Le8upR4PWN49>











| Sr No. | Name | Professional Status | Class(Roll No.)/Designation | Name of the institution |
|--------|-----------------|---------------------|-----------------------------|---------------------------------------|
| 1 | Ramandeep kaur | Student | 5925 | Guru nanak college sri Muktsar Sahib |
| 2 | Manider kour | Student | 5924 | Guru nanak college |
| 3 | Khushi | Student | 5714 | Guru nanak college |
| 4 | Ramandeep Kaur | Student | 5907 | Guru Nanak college |
| 5 | Rappu | Student | 5930 | Guru nanak college shri mukstar sahib |
| 6 | Nimerveer kaur | Student | 5912 | Guru Nanak College, Sri Muktsar sahib |
| 7 | Monika Rani | Student | 5711 | Guru nanak college,shri muktsar sahib |
| 8 | Riya | Student | 5934 | Guru nanak college |
| 9 | Tanu | Student | 5936 | Guru nanak college |
| 10 | Mehak | Student | 5712 | Guru Nanak college |
| 11 | Armaan singh | Student | 5706 | Guru nanak college Muktsar |
| 12 | Veerpal kaur | Student | 5717 non medical | Guru Nanak college Shri muktsar sahib |
| 13 | Amitoj kaur | Student | 5724 | Guru nanak college |
| 14 | Tamanna | Student | 5510 | Guru nanak college shri muktsar sahib |
| 15 | Neha | Student | 5935 | Guru nanak college,Sri muktsar sahib |
| 16 | Pawanpreet kaur | Student | 5529 | Guru nanak college shri mukstar sahib |

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|----|---------------------|---------|-------------------------|---|
| 17 | Arshdeep kaur | Student | 5539 | Guru nanak college sri muktsar sahib |
| 18 | Satwinder Kaur | Student | 5713 | Guru Nanak college (Shri Muktsar Sahib) |
| 19 | Kashish | Student | 5715 | Guru Nanak college for girls , Shri muktsar sahib |
| 20 | Khushdeep kaur | Student | 5542 | Guru nanak college |
| 21 | Lovepreet Kaur | Student | 5917 | Guru Nanak College |
| 22 | Jashanpreet kaur | Student | 5720 | Guru Nanak college,Sri Muktsar sahib |
| 23 | Navneet kaur | Student | 5923 | Guru nanak college |
| 24 | Sukhpreet kaur | Student | 5918 | Guru Nanak College |
| 25 | Simranjeet kaur | Student | 5921 | Guru Nanak collage |
| 26 | Manjot Kaur | Student | 5909 | Guru Nanak college, Sri Muktsar Sahib |
| 27 | Mitali | Student | 5707 | Guru nanak college Sri muktsar sahib |
| 28 | Kanchan | Student | 5716 | Guru Nanak college for Girls,Sri Muktsar Sahib |
| 29 | Anmol | Student | 5718 | Guru nanak college shri muktsar sahib |
| 30 | Arshpreet kaur | Student | 5516 | Guru nanak college |
| 31 | Payal | Student | 5511 | Guru nanak college shri muktsar sahib |
| 32 | nirmla rani | Student | 2084 | guru nanak college Muktsar |
| 33 | Jashanpreet kaur | Student | 5704 | Guru nanak College, shri Muktsar sahib |
| 34 | Gurshinder Singh | Student | 5503 | Guru nanak college |
| 35 | Rekha rani | Student | 5522 | Guru nanak college |
| 36 | Mehak | Student | 2058 | Guru Nanak College, Sri Muktsar Sahib |
| 37 | Gurwinder Sandhu | Student | 5514 | Guru nanak College,Sri muktsar Sahib |
| 38 | Sania | Student | 5524 | Guru Nanak College |
| 39 | Harsamrendeeep Kaur | Student | 5703/ Bsc 2 Non medical | Guru Nanak College, Sri muktsar sahib |
| 40 | Ramandeep kaur | Student | 5521 | Guru nanak college |
| 41 | Rupinder Kaur | Student | 5722 /bsc 2nd (NM) | Guru nanak college shri Muktsar sahib |
| 42 | Harmandeep Kaur | Student | 2060 | Guru Nanak College, Sri Muktsar Sahib |
| 43 | Sumanpreet kaur | Student | 5519 | Guru nanak college, Shri Muktsar Sahib |
| 44 | Simran | Student | 5507 | Guru Nanak College (Sri Muktsar Sahib) |
| 45 | Manjinder kaur | Student | 5509 | Guru Nanak college |
| 46 | Harcharan singh | Student | 5508 | Guru Nanak college (Muktsar) |
| 47 | Charanjeet kaur | Student | 5708 | Guru nanak college Sri muktsar sahib |
| 48 | Simranjeet kaur | Student | 5915 | Guru nanak college (shri Muktsar sahib) |
| 49 | Gaganpreet Kaur | Student | 5701/Bsc 2nd Nm | Guru Nanak College, Muktsar |
| 50 | Aarti | Student | 5919 | Guru Nanak clg |
| 51 | Chahat | Student | 5520 | Guru Nanak college, Sri Muktsar Sahib |
| 52 | Jaspreet Kaur | Student | 5517 | Guru nanak college Muktsar |
| 53 | Sameer Kalra | Student | 5709 | Guru Nanak College, Mks |

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|----|-------------------------|---------|--|---|
| 54 | Payal rani | Student | 5512 | Guru nanak college(mukstar) |
| 55 | Arshpreet kaur | Student | 5516 | Guru nanak college, sri Muktsar sahib |
| 56 | Simranjeet singh | Student | 2130 | Guru nanak college, muktsar |
| 57 | Samanpreet kaur | Student | 5913 | Guru nanak college Shri muktsar sahib |
| 58 | Amreen kaur | Student | 5523 | Guru nanak college Muktsar |
| 59 | SHRUTI | Student | 10302 | Guru Nanak College, Sri Muktsar Sahib, Punjab |
| 60 | Sharan Deep Kaur | Student | 10301 | Guru Nanak College, Sri Muktsar Sahib |
| 61 | Harmanjot singh | Student | 5723 | Guru nank college shri muktsar sahib |
| 62 | Manjot kaur | Student | 5515 | Guru Nanak College ,Sri Muktsar Sahib |
| 63 | Ruhani Babbar | Student | 10201 | Guru Nanak College,Sri Muktsar Sahib |
| 64 | Jashanpreet singh | Student | 5518 | Guru nanak college Sri muktsar sahib |
| 65 | Harpreet kaur | Student | 5531 | Guru nanak college, sri Muktsar sahib |
| 66 | Tanishka Bansal | Student | BSC(Non medical)2nd year ,5710 | Guru nanak college, Shri Muktsar sahib |
| 67 | Jashanpreet kaur | Student | 5702/Bsc 2nd Nm | Guru Nanak college,Muktsar |
| 68 | Krrish Arora | Student | 5528 | Guru nanak college sri muktsar sahib |
| 69 | Anmolpreet kaur | Student | B.sc NM 5906 | Guru Nanak college, Sri Muktsar Sahib |
| 70 | Gurshinder Singh | Student | 5503 | Guru Nanak College Shri Muktsar Sahib |
| 71 | Karandeep kaur | Student | 5506 | Guru nanak college |
| 72 | Shivam | Student | 5540 | Guru nanak college,shri muktsar sahib |
| 73 | Sahibjeet Singh Dhillon | Student | 5527 | Guru Nanak College, Sri Muktsar Sahib |
| 74 | Rajpreet singh | Student | 5526 | Guru nanak College , Sri muktsar sahib |
| 75 | Arshdeep Singh | Student | 5513 | Guru nanak college Sri Muktsar Sahib |
| 76 | Rachandeep singh | Student | 5525 | Guru nanak college, Sri Muktsar sahib a |
| 77 | Khushi | Student | 5904 | Guru Nanak College, Sri Muktsar Sahib |
| 78 | Simran Kaur | Student | Bsc(1year)roll no.5530 | Guru nanak college |
| 79 | Akanksha | Student | 5902,bsc non med 3rd year | Guru nanak College |
| 80 | Neha kumari | Student | 5938 | Guru Nanak College |
| 81 | Navneet Rana | Faculty | Assistant Professor. PG Dept. Of Mathematics | Guru Nanak College, Sri Muktsar Sahib |
| 82 | Arpan Kumar | Student | 5529 | Guru nanak college,Muktsar |
| 83 | Komalpreet kaur | Student | 5903 bsc non medical 3rd year | Guru nanak college ,Shri muktsar sahib |
| 84 | Komalpreet kaur | Student | 5926 | Guru Nanak college sri muktsar sahib |

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|-----|---------------------|---------|---|---|
| 85 | Seema rani | Student | 1197 | Guru nanak college Shri Muktsar sahib |
| 86 | Amanjot kaur | Student | 1093 | Gnc muktsar sahib |
| 87 | Manpreet Kaur | Student | 1042 | Guru nank college |
| 88 | Seema rani | Student | 1197 | Guru nanak college Shri Muktsar sahib |
| 89 | Sadhna Kaur | Student | 1035 | Gnc muktsar sahib |
| 90 | Prabhjeet Singh | Student | 1111 | Guru Nanak College Muktsar |
| 91 | Palak | Student | 5932 bsc non med final year | Guru nanak college Shri Muktsar sahib |
| 92 | Rupinder Singh | Student | 1052 | Guru Nanak College Muktsar |
| 93 | Aarti | Student | 5919 | Guru nanak college |
| 94 | Arshdeep singh | Student | 1188 | Gnc muktsar sahib |
| 95 | Amandeep Kaur | Student | 1075 | GNC muktsar sahib |
| 96 | Pawandeep Kaur | Student | 1021 | Gnc muktsar sahib |
| 97 | Sandeep kaur | Student | 1046 | GNC muktsar sahib |
| 98 | Gurpreet Singh | Student | 1081 | Guru Nanak college Muktsar |
| 99 | Poonam Rani | Student | 1331 | Guru nanak college(Shri muktsar sahib) |
| 100 | Manpreet Kaur | Student | 1042 | Guru nanak college |
| 101 | Harmandeep kaur | Student | 5908 | Guru Nanak college |
| 102 | Simranjeet kaur | Student | 5533 | Guru Nanak College Sri Muktsar Sahib |
| 103 | Kamaljeet Kaur | Faculty | Assistant Professor, PG Department of Mathematics | Guru Nanak College, Sri Muktsar Sahib |
| 104 | Amitoj singh bhatti | Student | 5705 | Guru nanak college |
| 105 | Sandeep kaur | Student | 1084 | Guru nanak college, shri Muktsar Sahib |
| 106 | Harmandeep kaur | Student | 5908 | Guru Nanak collage |
| 107 | Damanpreet kaur | Student | 1280 | Guru nanak college , shri muktsar sahib |
| 108 | Keshav jain | Student | 1239 | Gnc |
| 109 | Deepka Rani | Student | 5916 | Guru Nanak College, Sri Muktsar Sahib |
| 110 | Prabhjot Kaur | Student | 5905 | Guru nank College |
| 111 | Kulwinder kaur | Student | Bsc(NM) 5914 | Guru nanak college,Sri muktsar sahib |
| 112 | Noor | Student | Bsc final year / 5910 | Guru Nanak college |
| 113 | Shikha Rani | Faculty | Assistant professor in Maths | Guru Nanak College, Sri Muktsar Sahib |
| 114 | Kajal | Faculty | Assistant professor in mathematics | Guru nanak college ,Sri Muktsar sahib |
| 115 | Jyoti kaur | Student | 3057 | Guru Nanak college , Shri Muktsar sahib |
| 116 | Sukhmanjeet singh | Student | 5721 | Guru nanak college, muktsar |
| 117 | Jashanpreet kaur | Student | 3005 | Guru nanak college, Shri muktsar sahib |
| 118 | Manpreet Kaur | Student | 3021 | Guru nanak college, Sri Muktsar sahib |

| | | | | |
|-----|---------------------|---------|-------------------------|---|
| 119 | Kashish | Student | 3055 | Guru nanak College (muktsar) |
| 120 | Monika | Student | B a 5th sem (3022) | Guru Nanak collage ,Sri Muktsar Sahib |
| 121 | Diya Rani | Student | 3073 | Guru nanak college , sri muktsar sahib |
| 122 | Shubham sain | Student | 5931 | Guru Nanak college |
| 123 | Rupinder jeet singh | Faculty | Lecturer in mathematics | Guru nanak collegiate sen.sec school |
| 124 | Smile | Student | 5536 | Guru nanak clg |
| 125 | Arsh Aulakh | Student | 1188 | Guru nanak college mukatsar sahib |
| 126 | Priya doomra | Student | 3092 | Guru nanak college shri muktsar sahib |
| 127 | Ishita | Student | 3083 | Guru nanak college, shri muktsar sahib |
| 128 | Abhishek | Student | 3075 | Guru nanak collage muktsar |
| 129 | Poonam Rani | Student | 1331 | Gnc muktsar sahib |
| 130 | Manpreet Kaur | Student | 3101 | Guru Nanak College |
| 131 | Pawandeep kaur | Student | 1021 | Guru nank college Sri muktser sahib |
| 132 | Amitoj singh bhatti | Student | 5705 | Guru nanak college |
| 133 | Prabhjeet Singh | Student | 1111 | Guru Nanak College Muktsar |
| 134 | Gurpreet singh | Student | 1081 | Guru Nanak college Muktsar |
| 135 | Manpreet Kaur | Student | 1042 | Guru nanak college |
| 136 | Sadhna kaur | Student | 1035 | Gnc muktsar |
| 137 | Amanjot kaur | Student | 1093 | Gnc muktsar sahib |
| 138 | Pawandeep kaur | Student | 1021 | GNC Muktsar |
| 139 | Keshav jain | Student | 1239 | Gnc |
| 140 | Simran | Student | 5507 | Guru Nanak College (Sri Muktsar sahib) |
| 141 | Karandeep kaur | Student | 5506 | Guru Nanak college Sri Muktsar sahib |
| 142 | Harpreet Kaur | Student | 5531 | Guru Nanak College (Sri Muktsar sahib) |
| 143 | Komalpreer kaur | Student | 1156 | Guru nanak college , shri muktsar sahib |
| 144 | Arsh Aulakh | Student | 1188 | Guru nanak college shri mukatsar sahib |
| 145 | Anmol | Student | 5718 | Guru nank college shri muktsar sahib |
| 146 | Monika rani | Student | 5711 | Guru nank college muktsar sahib |
| 147 | Mitali | Student | 5707 | Guru nank college shri muktsar sahib |

DBT ACTIVITY REPORT (2023-24)

PG Department of Mathematics

Activity 5

Name of Activity: Paper presentation in International conference

Date: 8-10 Feb, 2024

Details of Resource Persons: NA

Venue/Mode: Shyam Lal College, University of Delhi, Delhi/ Online

Objective of activity:

1. To enhance students' ability in the art of academic writing and to present it.
2. To motivate students for research.
3. To broaden the minds of students in the direction of applications of mathematics.

Summary of the activity: Three students and four faculty members participated in the International Conference on Advances in Pure and Applied Mathematics organised by Shyam Lal College, University of Delhi, Delhi wef 8-10 Feb, 2024. The students prepared the research papers with the help of teachers and presented the papers in the conference. Dr. Satinderpal Kaur, Assistant Professor in Mathematics, Guru Nanak College, Sri Muktsar Sahib and Jashanpreet Kaur , student of B. Sc. NM-2nd year presented their paper titled "Application of derivatives in rate of interest of Banks", Ms. Kirandeep Kaur, Assistant Professor in Mathematics, Guru Nanak College, Sri Muktsar Sahib and Gagandeep Kaur , student of B. Sc. NM-2nd year presented their paper titled "Applications of Matrices in Biological Networks" , Ms. Kajal, Assistant Professor in Mathematics, Guru Nanak College, Sri Muktsar Sahib & Sukhmanjeet Singh, student of B. Sc. NM-2nd year presented their paper titled "Vedic Mathematics & Algebra" and Ms. Shikha , Assistant Professor in Mathematics, Guru Nanak College, Sri Muktsar Sahib College, presented her paper titled "Covid-19 & Education" in this conference. The students learnt a lot from the conference and they were very enthusiastic after paper presentation to continue research.

No. of Beneficiaries: Faculty -4, Students -3

Media coverage Link:

https://www.facebook.com/story.php?story_fbid=1622535588498233&id=100022254218839&mibextid=oFDknk&rdid=nJYIUrg31biIhAL



SLC University of Delhi
SHYAM LAL COLLEGE
NAAC A++ & NIRF AIR 60th

International Conference
ON
Advances in Pure & Applied Mathematics
(ICAPAM)
Vision India @ 2047
February 8-10, 2024
(In Hybrid Mode)
organized by
Department of Mathematics
&
IQAC



Venue: Shyam Lal College (University of Delhi)

ABOUT THE COLLEGE

Shyam Lal College (SLC) stands as a distinguished educational institution, providing an enriching and inclusive environment for the cultivation of excellence across academic, cultural, sports, and various student-driven pursuits. Established in 1964 by the visionary entrepreneur Padmasree (Late) Shri Shyam Lal Gupta, SLC is a co-educational constituent college affiliated with the University of Delhi. Over the past several years, SLC has been consistently advancing towards the attainment of academic excellence. In 2023, SLC reached a significant milestone by achieving an A++ grade accreditation from the National Assessment and Accreditation Council (NAAC). This achievement further solidifies SLC's commitment to providing a high standard of education. The college has also maintained an impressive ranking in the National Institutional Ranking Framework (NIRF) for Colleges in India, securing the 48th position among the country's top colleges. Additionally, SLC was selected to participate in the DBT STAR College Program under the Ministry of Science and Technology in 2020, demonstrating its dedication to excellence in education.

ABOUT THE IQAC

As per National Assessment and Accreditation Council (NAAC) guidelines every accredited institution should establish an Internal Quality Assurance Cell (IQAC) as a post-accreditation quality maintenance measure. Since quality enhancement is a continuous process, the IQAC, SLC works towards realization of the goals of quality enhancement and sustenance. The prime task of the IQAC is to develop a system for conscious and consistent improvement in the overall performance of the College through monitoring and facilitating academic, co-curricular and extra-curricular initiatives. The IQAC of the College achieves all these through systematic and regular feedback mechanisms and pursues the achievement of new agendas and goals.

ABOUT THE DEPARTMENT

The Department of Mathematics at Shyam Lal College (University of Delhi) is renowned as a pioneer in its field. Established in 1964, this distinguished department is home to 11 highly qualified faculty members. Our achievements include registration of 17 patents and publication of nearly 150 research papers credited to faculty members of the Department across various branches of Mathematics. Presently, the department's faculty members actively supervise multiple research scholars, contributing to the advancement of mathematical knowledge. Throughout its history, the Department has displayed remarkable progress in its academic programs. The Department offers a comprehensive graduate program in Mathematics, covering B.Sc. (H) Mathematics and B.Sc. Physical Sciences, for which it maintains a well-equipped computer lab with cutting-edge software. The distinguished faculty members are actively involved in continuous research and developmental initiatives across a spectrum of domains. Furthermore, "Asantagathi, The Mathematical Society, SLC," was established in 2016. This society hosts an annual Mathematical Festival known as "GANITA" to enhance students' mathematical proficiency and skills.

ABOUT THE CONFERENCE

The International Conference on Advances in Pure and Applied Mathematics-Vision India@2047 stands as an esteemed assembly of eminent mathematicians, distinguished researchers, and erudite scholars hailing from every corner of the world. With great anticipation, we announce its forthcoming edition, scheduled from February 8 to 10, 2024 in hybrid mode. This conference has been meticulously crafted with a singular focus: the exploration of the most recent and profound advancements in both pure and applied mathematics.

At the heart of this gathering lies a fundamental objective – to unite luminaries of the field with emerging talents, drawing together experts from diverse nations and regions. The Conference serves as a dynamic platform designed to foster the exchange of ideas and insights, particularly concerning the latest developments in the realm of Advances in Pure and Applied Mathematics-Vision India@2047. As we cast our gaze forward to the year 2047, we find ourselves in the midst of a unique opportunity – one that invites us to honor the incredible journey of mathematics and to contemplate its future.

Beyond the realm of academic discourse, this event also serves as a practical arena. It is poised to invigorate and equip researchers with the indispensable mathematical tools needed to confront the complexities and challenges encountered in their research endeavours. Simultaneously, it functions as a forum for the dissemination of cutting-edge research, the introduction of emerging theories, and the showcasing of innovative methodologies. In the world of mathematics, the quest for knowledge is a perpetual journey, marked by an unceasing pursuit of exploration. This conference, in all its grandeur, is dedicated to revealing the frontiers of mathematical understanding.

As we delve into the inner workings of this conference, it becomes evident that, besides advancing the theoretical foundations of mathematics, it is staunchly committed to the propagation of innovation. Our world is evolving at an unprecedented pace, and mathematics finds itself at the vanguard of driving progress and effecting transformation. The event, set against this dynamic backdrop, will feature captivating demonstrations, bringing to the forefront novel applications of mathematics. These demonstrations will serve as a testament to the transformative power of mathematics, shaping and influencing our ever-evolving world.

Central to this conference are the keynote addresses and plenary sessions, which are poised to be the intellectual fulcrum of the event. Experts from diverse facets of the mathematical world will take centerstage, sharing their profound insights and perspectives. In parallel, the conference provides a platform for the presentation of contributed papers, allowing participants to delve into in-depth discussions and debates surrounding the latest research findings, innovative applications, and emerging theories.

In summary, the "International Conference on Advances in Pure and Applied Mathematics - Vision India@2047" is more than just an event; it signifies a profound occasion. It symbolizes the enduring legacy and the bright future of mathematics. We extend a warm invitation to join us in this transformative experience, where mathematical knowledge is not only acknowledged but also actively explored and harnessed for practical purposes. Your participation, insights, and contributions are of immense value to the ever-evolving landscape of mathematics key. With great anticipation, we await your presence as we embark on this intellectual odyssey together.

Research Arenas:

Besides the suggested themes, contributors are urged to explore their work across the diverse landscape of subjects connected to the theme:

Tracks of the conference include the following topics (but are not limited to):

| | | | |
|--------------------|----------------------------|----------------------|--------------------------------|
| Fuzzy Logic | Numerical Analysis | Cosetial Mechanics | Partial Differential Equations |
| Fixed Point Theory | Fuzzy Expert System | Space Dynamics | Coding Theory |
| Vedic Mathematics | IoT | Cyber Security | Algebra |
| Cryptography | IoT Mathematical Modelling | Inventory Management | Graph Theory |
| Coding Theory | Network | Number Theory | Quantic Models |
| Queuing Theory | Stability Theory | Operator Theory | Functional Analysis |

Publication Opportunities:

The conference presents an avenue for selected papers to be published in AIP Conference Proceedings indexed in SCOPUS. The publication process will strictly adhere to the guidelines set forth by the proceeding. The Article Processing Charge (APC) will be applicable for accepted papers as per AIP Conference Proceedings.

IMPORTANT DATES

For Submissions

Last date for Abstract Submission for Presenters : January 24, 2024

(Please submit the abstracts at icapam2024slc@gmail.com)

Notification for Abstract Acceptance : January 26, 2024

Last date for Full Paper Submission by Contributors : January 31, 2024

For Registrations

Last date for Presenters : January 31, 2024

Last date for Non-Presenters : January 31, 2024

REGISTRATION FEE

| | |
|---|----------------------------|
| For Indian National | |
| Research Scholars/ Student Participants | : ₹ 1000 |
| For Faculty / Industry Members | : ₹ 1500 |
| For Foreign Nationals | : \$ 50 (Fifty US Dollars) |

Note:

- Limited shared accommodation may be considered subject to receipt of grants to the organizers.
- For paper submission, please visit the conference website.


Registration Link : <https://lfirms.gle/xgq3paP3SSUfEZB7>

Conference Web Link : <https://sites.google.com/view/icapam2024/home?authuser=0>

Conference E-mail : icapam2024slc@gmail.com

Payment Details:

| | |
|------------------------------|---|
| Name of Account Holder | : Shyam Lal College Conference and Seminars Account |
| Bank Name | : Central Bank of India |
| Bank Account Number (Saving) | : 3731428412 |
| IFSC Code | : CBIN0283941 |
| MICR Code | : 110016147 |



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Dr. Saubhagyalaxmi Singh (9853345330)

Dr. Virender (9868441407)

Dr. Rahul Boadh (904930687)

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DISTINGUISHED SPEAKERS

| | | |
|---|--|--|
| Prof. C. S. Lalitha (University of Delhi, India) | Prof. Chandra K. Jaggi (University of Delhi, India) | Dr. Aniruddha Bora (Browa University, USA) |
| Prof. V. Ambethkar (University of Delhi, India) | Dr. Srinivas Jangirala (O.P. Jindal Global University, Haryana, India) | Prof. Chaman Singh (University of Delhi, India) |
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| Dr. Saubhagyalaxmi Singh Coordinator | Dr. Swati Yadav Coordinator | Mr. Sandeep Kumar Coordinator |
| Dr. Sudhir Kumar Yadav Coordinator | Dr. Mukesh Kumar Coordinator | Dr. Rahul Boadh Coordinator |

| | | |
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| Prof. Kusha Tiwari Director, IQAC | Dr. Subodh Kumar Convener | Prof. Rabi Narayan Kar Patron |
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CERTIFICATE

This is to certify that Mr./Ms./Mrs./Dr./Prof. Kajal
of Department of Mathematics, Guru Nanak College, Sri Muksar Sahib, Punjab, India participated in the
International Conference on Advances in Pure & Applied Mathematics organized by Shyam Lal College,
University of Delhi. He/She gave a Contributed Talk/Paper Presentation entitled
Vedic Mathematics & Algebra

in the conference during February 8 - 10, 2024.

Kusha

Prof. Kusha Tiwari
(Director, IQAC)

Subodh Kumar

Dr. Subodh Kumar
(Convenor, ICAPAM)

Rabi Narayan Kar

Prof. Rabi Narayan Kar
(Principal, SLC)



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International Conference on Advances in Pure & Applied Mathematics organized by Shyam Lal College,
University of Delhi. He/She gave a Contributed Talk/Paper Presentation entitled
Application of Matrices in Biological Networks

in the conference during February 8 - 10, 2024.

Kusha

Prof. Kusha Tiwari
(Director, IQAC)

Subodh Kumar

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of Department of Mathematics, Guru Nanak College, Sri Muktsar Sahib - 152026, (Punjab), India participated in the
International Conference on Advances in Pure & Applied Mathematics organized by Shyam Lal College,
University of Delhi. He/She gave a Contributed Talk/Paper Presentation entitled
Application of Derivative in Rate of Interest of Banks

in the conference during February 8 - 10, 2024.

Kusha

Prof. Kusha Tiwari
(Director, IQAC)

Subodh Kumar

Dr. Subodh Kumar
(Convenor, ICAPAM)

Rabi Narayan Kar

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of Department of Mathematics, Guru Nanak College, Sri Muktsar Sahib, Punjab, India participated in the
International Conference on Advances in Pure & Applied Mathematics organized by Shyam Lal College,
University of Delhi. He/She gave a Contributed Talk/Paper Presentation entitled
Applications of Matrices in Biological Networks

in the conference during February 8 - 10, 2024.

Kusha

Prof. Kusha Tiwari
(Director, IQAC)

Subodh Kumar

Dr. Subodh Kumar
(Convenor, ICAPAM)

Rabi Narayan Kar

Prof. Rabi Narayan Kar
(Principal, SLC)



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of Department of Mathematics, Guru Nanak College, Sri Muktsar Sahib - 152026, (Punjab), India participated in the
International Conference on Advances in Pure & Applied Mathematics organized by Shyam Lal College,
University of Delhi. He/She gave a Contributed Talk/Paper Presentation entitled
Application of Derivative in Rate of Interest of Banks

in the conference during February 8 - 10, 2024.

Kusha

Prof. Kusha Tiwari
(Director, IQAC)

Dr. Subodh Kumar

Dr. Subodh Kumar
(Convenor, ICAPAM)

Prof. Rabi Narayan Kar

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This is to certify that Mr./Ms./Mrs./Dr./Prof. Shikha Rani
of Department of Mathematics, Guru Nanak College, Sri Muktsar Sahib-India participated in the
International Conference on Advances in Pure & Applied Mathematics organized by Shyam Lal College,
University of Delhi. He/She gave a Contributed Talk/Paper Presentation entitled
COVID-19 & Education

in the conference during February 8 - 10, 2024.

Kusha

Prof. Kusha Tiwari
(Director, IQAC)

Dr. Subodh Kumar

Dr. Subodh Kumar
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This is to certify that Mr./Ms./Mrs./Dr./Prof. Sukhmanjeet Singh
of Department of Mathematics, Guru Nanak College, Sri Muktsar Sahib, Punjab, India participated in the
International Conference on Advances in Pure & Applied Mathematics organized by Shyam Lal College,
University of Delhi. He/She gave a Contributed Talk/Paper Presentation entitled
Vedic Mathematics & Algebra

in the conference during February 8 - 10, 2024.

Kusha

Prof. Kusha Tiwari
(Director, IQAC)

Subodh Kumar

Dr. Subodh Kumar
(Convenor, ICAPAM)

Rabi Narayan Kar

Prof. Rabi Narayan Kar
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DBT ACTIVITY REPORT (2023-24)

PG Department of Mathematics

Activity 6

Name of Activity: Lecture Series on Calculus

Date: 17th Feb, 2024

Details of Resource Persons:

1. Dr. Jitender Singh, Associate Professor, Department of Mathematics, Guru Nanak Dev University, Amritsar

Venue/Mode: Guru Nanak College, Sri Muktsar Sahib

Objective of activity:

1. To aware students about real life applications of Calculus.
2. To deepen participants' understanding of calculus and its relevance in various fields
3. To enhance creativity in writing rigorous proofs of theorems.

Summary of the activity: PG Department of Mathematics organized a Lecture series on Calculus under DBT Star College Scheme on 17th Feb., 2024. The day started with a formal welcome of the resource person by Ms Kamaljeet Kaur. A brief introduction of the guest was shared with the students. After the introductory session, the resource person Dr. Jitender Singh from Guru Nanak Dev University, Sri Amritsar discussed very short and easy proofs of already existing theorems in different interactive sessions. He introduced the participants with basic principles of calculus like limits, derivatives and integrals. He put light on historical development of mathematics and evolution of proof writing of theorems given by various mathematicians. He described that Understanding the concept of limits is fundamental in calculus which includes understanding the behaviour of functions as they approach certain values. He also illuminated the participants about differentiation as the study of rates of change and slopes of curves and integration as about finding the accumulation of quantities and the area under curves. He also discussed an alternative approach to trigonometric functions. The queries of the students were taken from time to time. Throughout the lecture series, emphasis is placed on understanding the concepts, solving problems, and applying calculus to real-world scenarios. At the end of event, Mrs. Satinderpal Kaur proposed a formal vote of thanks to the resource person for delivering magnificent lectures.

Outcome of the Activity: The lecture series on calculus provided a comprehensive exploration of fundamental concepts and applications within the realm of calculus. The students enjoyed the sessions very much and learnt to think from different point of view while proving theorems rather to cram.

No. of Beneficiaries: Students-95, Faculty-6

Media coverage Link:

https://www.facebook.com/story.php?story_fbid=1596260727792386&id=100022254218839&mibextid=oFDknk&rdid=n8OIFxXoSdt9fEU

Registration Link(if any):

<https://docs.google.com/forms/d/1CkfsnZV1MYZYKN2AhHokcBdfT6IoQ-IE22Wppvl6QIA/edit>

The poster is for a lecture series on calculus at Guru Nanak College. It features a yellow and blue color scheme. At the top, the college's name is prominently displayed in blue, with its logo on the left and a circular emblem on the right. Below the name, the college's address and accreditation details are listed in small text. The main body of the poster is blue, with the text 'PG DEPT. OF MATHEMATICS IS GOING TO ORGANISE' in white. The title 'LECTURE SERIES ON CALCULUS' is written in large, bold, yellow letters. Below the title, it says 'SPONSORED BY 'STAR COLLEGE SCHEME' OF DBT, NEW DELHI'. The date 'SATURDAY 17 FEB, 2024' is displayed in white on a yellow background. A portrait of the speaker, Dr. Jitender Singh, is shown on the right. A white box on the left lists the three sessions: Session-I (10:00 AM to 11:00 AM), Session-II (11:00 AM-12:00 Noon), and Session-III (12:00 Noon-1:00 PM). At the bottom, the names of the Co-ordinator (Dr. Satinderpal Kaur) and Patron (Dr. Rana Baljinder Kaur) are listed.

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PG DEPT. OF MATHEMATICS
IS GOING TO ORGANISE

**LECTURE SERIES ON
CALCULUS**

SPONSORED BY 'STAR COLLEGE SCHEME' OF DBT,
NEW DELHI

**SATURDAY
17 FEB, 2024**

Session-I: - The Journey through Geniuses
(10:00 AM to 11:00 AM)
Session-II: - Some recent calculus proofs
(11:00 AM-12:00 Noon)
Session-III: -An alternative approach to
trigonometric functions (12:00 Noon-
1:00 PM)

**SPEAKER
DR. JITENDER
SINGH**
(ASSOCIATE PROFESSOR AND HEAD
DEPARTMENT OF MATHEMATICS
GURU NANAK DEV UNIVERSITY,
AMRITSAR)

Co-ordinator
Dr. Satinderpal Kaur
Head, PG DEPT OF MATHEMATICS,
GNC, MUKTSAR

Patron
Dr. Rana Baljinder Kaur
Officiating Principal,
GNC, MUKTSAR





Feb. 17, 2024

Lecture Series on Calculus

| Sr. No. | Name | Class | Roll No | Sign. |
|---------|------------------|--------------|---------|------------------|
| 1 | Sandeep Kaur | BA(I) | 1046 | Sandeep Kaur |
| 2 | Bonam Rani | BA(I) | 1331 | Bonam Rani |
| 3 | Sandeep Kaur | BA(I) | 1084 | Sandeep Kaur |
| 4 | Damanpreet Kaur | BA(I) | 1280 | Damanpreet Kaur |
| 5 | Amandeep Kaur | BA(I) | 1075 | Amandeep Kaur |
| 6 | Manpreet Kaur | BA(I) | 1042 | Manpreet Kaur |
| 7 | Pavandeep Kaur | BA(I) | 1021 | Pavandeep Kaur |
| 8 | Amanjit Kaur | B.A(I) | 1093 | Amanjit Kaur |
| 9 | Seema Rani | B.A(I) | 1197 | Seema Rani |
| 10 | Khushdeep Kaur | B.Sc(I) | 5542 | Khushdeep Kaur |
| 11 | Ramandeep Kaur | B.Sc(N.M)-I | 5521 | Ramandeep Kaur |
| 12 | Bhahat | B.Sc(N.M)I | 5520 | Bhahat |
| 13 | Khushpreet Kaur | B.Sc(N.M)I | 5532 | Khushpreet Kaur |
| 14 | Payal Rani | B.Sc(P.M)I | 5512 | Payal Rani |
| 15 | Jaspreet Kaur | B.Sc(N.M)I | 5517 | Jaspreet Kaur |
| 16 | Muskan | B.Sc(N.M)I | 5502 | Muskan |
| 17 | Manjinder Kaur | B.Sc(N.M)I | 5509 | Manjinder Kaur |
| 18 | Ashpreet Kaur | B.Sc(N.M)I | 5516 | Ashpreet Kaur |
| 19 | Simranpreet Kaur | B.Sc(N.M)I | 5519 | Simranpreet Kaur |
| 20 | Tamanna | B.Sc(N.M)I | 5510 | Tamanna |
| 21 | Payal | B.Sc(N.M)I | 5511 | Payal |
| 22 | Rohandeep Kaur | B.Sc(N.M)I | 5506 | Rohandeep Kaur |
| 23 | Manpreet Kaur | B.Sc(N.M)I | 5531 | Manpreet Kaur |
| 24 | Amandeep Kaur | B.Sc(N.M)I | 5505 | Amandeep Kaur |
| 25 | Mangot Kaur | B.Sc(N.M)I | 5515 | Mangot Kaur |
| 26 | Palak | B.Sc(N.M)III | 5932 | Palak |
| 27 | Komalpreet Kaur | B.Sc(N.M)III | 5903 | Komalpreet Kaur |
| 28 | Akanksha | B.Sc(N.M)III | 5902 | Akanksha |
| 29 | Neha | B.Sc(N.M)III | 5935 | Neha |
| 30 | Khushi | " | 5904 | Khushi |
| 31 | Anmolpreet Kaur | " | 5906 | Anmolpreet Kaur |
| 32 | Mangot Kaur | " | 5909 | Mangot Kaur |
| 33 | Komalpreet Kaur | " | 5926 | Komalpreet Kaur |
| 34 | Harmandeep Kaur | B.A II | 2060 | Harmandeep Kaur |
| 35 | Mehak | " | 2058 | Mehak |

Feb. 17, 2024

Lecture Series on Calculus

| Sr. No | Name | Class | Roll No | Sign |
|--------|-------------------|--------------------------|---------|-------------------|
| 36 | Neha Kumari | B.Sc III (N.M.) | 5938 | Neha |
| 37 | Riya | B.Sc (III) N.M | 5934 | Riya |
| 38 | Tanu | B.Sc (III) N.M | 5936 | Tanu |
| 39 | Noor | B.Sc (II) N.M | 5910 | Noor |
| 40 | Prabhat Kaur | B.Sc - III (N.M) | 5905 | Prabhat Kaur |
| 41 | Simranjeet Kaur | B.Sc - III (N.M) | 5921 | Simranjeet Kaur |
| 42 | Aarti | B.Sc - III (N.M) | 5919 | Aarti |
| 43 | Amisha | B.Sc (III) (N.M) | 5920 | Amisha |
| 44 | Komalpreet Kaur | BA (I) | 1059 | Komalpreet |
| 45 | Komalpreet Kaur | B.A. (I) | 1156 | Komalpreet |
| 46 | Sukhmanjeet Singh | B.Sc II | 5721 | Sukhmanjeet Singh |
| 47 | Amitoj Singh | B.Sc II | 5705 | Amitoj Singh |
| 48 | Sumeha | B.Sc (III) | 5911 | Sumeha |
| 49 | Kulwinder Kaur | B.Sc (III) | 5914 | Kulwinder |
| 50 | Deepika Rani | B.Sc (III) | 5916 | Deepika Rani |
| 51 | Simranjeet Kaur | B.Sc (III) | 5915 | Simranjeet Kaur |
| 52 | Ruhani Bobbar | M.Sc. (I) Maths | 10201 | Ruhani Bobbar |
| 53 | Kashish | B.A (III) | 3055 | Kashish |
| 54 | Nancy Demaria | B.A (III rd) | 3053 | Nancy |
| 55 | Jashampreet Kaur | B.A (III) | 3005 | Jashampreet |
| 56 | Nampreet Kaur | B.A (III) | 3021 | Nampreet |
| 57 | Monika | B.A (III) | 3022 | Monika |
| 58 | Gaganpreet Kaur | B.Sc (III) | 5701 | Gaganpreet |
| 59 | Jashampreet Kaur | B.Sc (IV) | 5704 | Jashampreet |
| 60 | Sameer Kaur | B.Sc (II) | 5709 | Sameer Kaur |
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| 62 | Hamanjeet Singh | B.Sc (II) | 5723 | Hamanjeet Singh |
| 63 | Monika Rani | B.Sc (II) | 5711 | Monika Rani |
| 64 | Anmol | B.Sc (II) | 5715 | Anmol |
| 65 | Charanjeet Kaur | B.Sc (II) | 5708 | Charanjeet Kaur |
| 66 | Mitali | B.Sc (II) | 5707 | Mitali |
| 67 | Pawanpreet Kaur | B.Sc (III) | 5929 | Pawanpreet Kaur |
| 68 | Gurwinder Kaur | B.Sc (III) | 5901 | Gurwinder Kaur |
| 69 | Maninder Kaur | B.Sc III | 5924 | Maninder Kaur |

Feb 17, 2024

Lecture Series on Calculus

| No. | Name | Class | Roll No. | Sign. |
|-----|-------------------|------------------------------|----------|-------------------|
| 1 | Ramandeep Kaur | BSC III (N.M) | 5907 | Ramandeep |
| 2 | Veerpal Kaur | BSC II (N.M) | 5717 | Veerpal Kaur |
| 3 | Kashish | BSC II (N.M) | 5715 | Kashish |
| 4 | Ranchan | BSC II (N.M) | 5716 | Ranchan |
| 5 | Jashanpreet Kaur | BSC II (N.M) | 5720 | Jashanpreet Kaur |
| 6 | Amitoj Kaur | BSC II (N.M) | 5724 | Amitoj Kaur |
| 7 | Muhak Watts | B.Sc II (N.M) | 5719 | Muhak Watts |
| 8 | Tanishka Bansal | B.S.C II (N.M) | 5710 | Tanishka |
| 9 | Khusli | Bac II (N.M) | 5714 | Khusli |
| 10 | Rupinder Kaur | Bac II (N.M) | 5722 | Rupinder |
| 11 | Jashanpreet Singh | BSC III (N.M) | 5933 | Jashanpreet Singh |
| 12 | Randeep Singh | BSC III (N.M) | 5937 | Randeep Singh |
| 13 | Karan Sharma | B.Sc. III (N.M) | 5922 | Karan |
| 14 | Rachandeep Singh | B.Sc I (N.M) | 5525 | Rachandeep Singh |
| 15 | Pamish Anand | B.S.C I (N.M) | 5520 | Pamish |
| 16 | Ashdeep Singh | B.Sc I (N.M) | 5513 | Ashdeep Singh |
| 17 | Rajpreet Singh | B.Sc I (N.M) | 5526 | Rajpreet Singh |
| 18 | Davinder Phakya | B.S.C I (N.M) | 5501 | Davinder |
| 19 | Yashvinder Singh | BSC I (N.M) | 5503 | Yashvinder |
| 20 | Harcharan Singh | B.S.C (I st) N.M | 5508 | Harcharan Singh |
| 21 | Jashanpreet Singh | B.S.C (I st) N.M | 5518 | Jashanpreet |
| 22 | Akpan Kumar | B.Sc. (I st) N.M | 5529 | Akpan Kumar |
| 23 | Harminder Jassi | B.Sc (III) N.M | 5908 | Harminder |
| 24 | Atanksha | " | 5902 | Atanksha |
| 25 | Harsanpreet Singh | BSC III I | 5541 | Harsanpreet |
| 26 | Gurwinder Singh | " | 5544 | Gurwinder |

No. of students beneficiaries = 95
 Teachers = 6

DBT ACTIVITY REPORT (2023-24)

PG Department of Mathematics

Activity 7.1

Name of Activity: Paper presentation National conference

Date: 2-3 March, 2024

Details of Resource Persons: NA

Organised By: SKC Govt. Degree College Poonch & SCS Govt. Degree College, Mendhar in association with Indian Science Congress association, Jammu Chapter

Venue/Mode: Online

Objective of activity:

1. To enhance students' ability in the art of academic writing and to present it.
2. To motivate students for research.
3. To broaden the minds of students in the direction of applications of mathematics.

Summary of the activity: Ten students and one faculty members participated in the Multidisciplinary National Conference on "Innovations and Recent Advances" SKC Govt. Degree College Poonch & SCS Govt. Degree College, Mendhar in association with Indian Science Congress association, Jammu Chapter wef 2-3 March, 2024. The students prepared the research papers with the help of teachers and presented the papers in the conference. The students learnt a lot from the conference and they were very enthusiastic after paper presentation to continue research.

No. of Beneficiaries: Faculty -1, Students -10

Media coverage Link:

https://www.facebook.com/story.php?story_fbid=1622535588498233&id=100022254218839&mibextid=oFDknk&rdid=nJYIUrg31biIhAL



**SKC GOVT. DEGREE COLLEGE POONCH
AND
SCS GOVT. DEGREE COLLEGE MENDHAR**
in collaboration with
INDIAN SCIENCE CONGRESS ASSOCIATION (ISCA)
(JAMMU CHAPTER)
ORGANISES

**TWO DAY NATIONAL CONFERENCE
ON
RECENT INNOVATIONS AND ADVANCES IN
MULTIDISCIPLINARY FIELDS**
2nd, 3rd March, 2024

Venue: SKC Govt. Degree College Poonch

CHIEF PATRON

Shri Alok Kumar IRS
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Department of Higher Education
J&K (UT) India.

PATRON

Prof. (Dr) Yasmeen Ashai
Director Colleges
Department of Higher Education
J&K (UT) India

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CO-CONVENERS

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Prof. Mohd Sadeeq
HOD Chemistry

COORDINATORS

Dr. Assad Ullah Khan
HOD Chemistry

Prof. Sarshad Hussain
Coordinator IQAC

ORGANIZING SECRETARIES

Dr. Shamim Ahmed Bandy
Deptt. of Zoology

Dr. Mahroof Khan
HOD Botany

CO-ORGANIZING SECRETARIES

Prof. Waseem Akram
HOD Computer Science

Dr. Jameel Ahmed
HOD Sociology

Website: www.gdcpoonch.co.in, www.gdcmendhar.ac.in

Email: hgcdm2024@gmail.com

Contact No: 9419193296, 9419234750, 7051388383, 9622377067

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Prof. Mohd Shafiq (Principal GDC Shopian)
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Dr. Vishal Sharma (HOD Electronics Govt. M.A.M College Jammu)
Dr. Mohd Ashaq (HOD Dept. of Botany GDC Thanamandi)
Dr. Loveloon Kaur Kesar (HOD Punjab SKC GDC Poonch)
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Dr. Mohd Jameel (HOD Comp. Application SCS GDC Mendhar)
Prof. Nusrat Koser (HOD Pol. Science SKC GDC Poonch)
Dr. Naseer Ahmed Kalis (HOD Pol. Science GDC Budgam)

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Dr. Mohd Riaz
Dr. Rehfit Naz Kosar
Dr. Amjad Ali
Prof. Inam Ul Haq
Dr. Imtiyaz Ahmad Wani
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Prof. Javed Iqbal
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Dr. Syed Zaigum Abbas
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Mr. Mohd Abbas Rather

Indian Science Congress Association (ISCA)

The Indian Science Congress Association (ISCA) is a premier scientific organization in the country which has been working towards the advancement and promotion of science in India since 1914 and organizing an annual congress of the scientists and popular science lectures in different centres in India through ISCA chapters. One of the major objectives of ISCA is to inculcate the scientific temper among people and to encourage young scientists.

SKC GOVT. DEGREE COLLEGE POONCH

Shri Krishan Chander (SKC) Government Degree College, Poonch was established in 1955. The College has been recognised by the UGC under sections 2(f) and 12(b) and is affiliated with the University of Jammu. Recently the College has setup a milestone by achieving Grade 'A' by NAAC Bengaluru. It is one of the premier institute of District and offers undergraduate courses in Arts, sciences, Commerce and Computer Sciences streams and vocational courses in a number of subjects. The College is also running Job and skill oriented courses in different fields.

SCS GOVT. DEGREE COLLEGE MENDHAR

Shri Chhote Shah Government Degree College Mendhar Established in 2005 stands as a beacon of knowledge and opportunity. Over the years, the institution has played a pivotal role in shaping the intellectual landscape of the region. Committed to provide quality education, the college has become a hub for aspiring minds, offering a diverse range of courses from the verdant corridors of Arts to the illuminating labs of Sciences. It has been recognised by the UGC under sections 2(f) and 12(b), affiliated with the University of Jammu and Accredited with Grade 'B' by NAAC.

ABOUT POONCH

Poonch, forms the picturesque landscape of the PirPanjal-Himalayan range with its great cultural and historical significance, finds its notable mention in ancient travelogues and history accounts. The Chinese traveller Huin Tsang, in particular, lauded the virtues of the region, praising its flora and fauna. Nestled at the base of the PirPanjal foothills, Poonch is renowned for its natural beauty, fertile farmlands, enchanting valleys and lofty ridges. The area boasts of numerous religious and tourist sites, contributing to its cultural and historical allure. PirPanjal range of mountains separates Poonch valley from Kashmir valley. **Climate:** The climate of Poonch is moderate, featuring occasional snowfall on the ridges during winters. March brings charming and pleasant weather to the region. **Connectivity:** The town is easily accessible from Jammu, Srinagar, and other nearby towns through a robust network of roads.

ABOUT THE CONFERENCE

This two-day National Conference is being organized with an objective of fostering collaboration among academicians, industrialists, researchers, students, and various scientific communities who are actively engaged in diverse research areas. The event will serve as a dynamic platform for the exchange of information through scientific presentations, discussions, interactions, while drawing participants from a wide spectrum of fields, the conference aims to facilitate the sharing of research findings and innovative ideas, contributing to progressive and sustainable development. Encompassing multidisciplinary perspectives spanning Science, Technology, Arts, Humanities, Management, and other research domains, this conference is intended to unite these diverse areas on a common platform. The conference agenda includes keynote addresses, invited talks, plenary sessions, and poster presentations for attaining aims and objectives of the conference. Your active participation is crucial for the grand success of this conference and we are confident that your presence will contribute in making it a memorable and enriching experience for all.

THEMES

- Recent Development in Humanities, Literature, Social Sciences and Vernacular Languages
- NEP-2020 -Trends and Transformation to New Horizon of Education
- Innovation, Entrepreneurship, Skill & Vocational Education : Fostering Economic Growth
- Social Justice and Equality: Nurturing a Fair and Inclusive Society
- Biodiversity Conservation.
- Exploring Frontiers in Chemical, Physical and Biological Sciences for Sustainable Development.
- Digital Transformation: Shaping the Future of Nation
- Research Methodology and Innovation in different fields
- Cloud Computing, Data Science, Computation, Modeling & Simulation.
- Artificial Intelligence and Society: Ethical Considerations
- Intellectual Property Rights
- Emerging Trends in Analysis & Algebra
- Technological Advancements in Agriculture: Ensuring Food Security
- Adapting to Climate Change: Local Actions, Global Impact
- The Holistic Path: Integrating Yoga and Vedas
- Cyber Security and Cyber Crimes
- Ethno-Medicinal Plants
- Nanotechnology and Nano-Sciences

CALL FOR PAPERS

Abstracts on sub themes in about 300 words (DOC MS Word only) for Oral/Poster presentations are invited by 15-02-2024 and be sent on: Email ID: hgcdm2024@gmail.com

ACTIVITIES

There will be three Sessions

I. Inauguration and key note address

II. Presentations (Oral/Poster)

III. Valedictory / Award ceremony

REGISTRATION

Registration is mandatory for all the participants in the Conference.

Registration forms / link

<https://forms.gle/LvxGaY8IondVxK0hg>

Join with WhatsApp Link

<https://chat.whatsapp.com/HhYHau2aA0U3FR0MCROJNB>

May also be sent by E mail: hgcdm2024@gmail.com

Important Dates:

Last date Registration: 20th February 2024

Last date for abstract submission: 15th February 2024

Notification of Abstract Acceptance: 20th February 2024

Note: Abstract Acceptance is based on the recommendation of the Committee.

REGISTRATION FEE

* Faculty: Rs. 700/-
* Scholars: Rs. 500/-
* Accompanying Person: Rs. 500/-
* Students: Rs. 200/-

The registration fee include conference folder, meals and Tea during the conference.

Registration fee is not refundable

Account No: 0019040500002131

IFSC Code: JAKA0BORDER

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**TWO DAY NATIONAL CONFERENCE ON
"RECENT INNOVATIONS AND ADVANCES IN
MULTIDISCIPLINARY FIELDS"**

Date: 2nd-3rd March, 2024

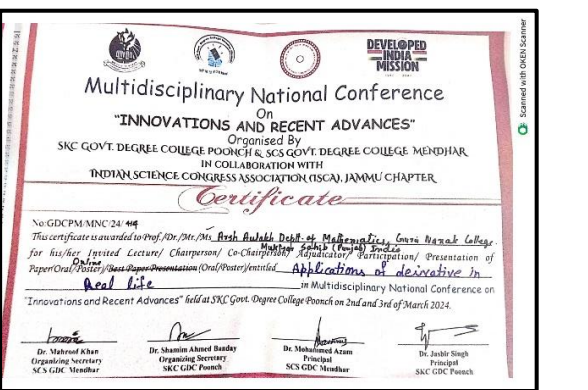
Venue: SKC Govt. Degree College Poonch
REGISTRATION FORM

1. Name.....
2. Gender.....
3. Designation.....
4. Institution.....
5. Mailing Address
6. Contact No.
7. E Mail
8. Mode of Presentation: Oral/Poster
9. Title of the paper:.....
10. Registered as: Faculty/Scholar/Student/Others
11. Registration Fee:.....
12. Proof of Fee receipt.....
13. No. of Accompanying Persons:
14. Time and Date of:
Arrival.....
Departure.....
15. Accommodation Needed: Yes/No.....

Signature of the Participant

Place.....

Date.....





DBT ACTIVITY REPORT (2023-24)

PG Department of Mathematics

Activity 7

Name of Activity: Online Lecture on Career Opportunities in Mathematics and Applications of Statistics.

Date: 02-03 March, 2024

Details of Resource Persons:

1. Dr. Harmanpreet Singh Kapoor, Assistant Professor, Department of Mathematics and Statistics, Central University of Punjab, Bathinda

Venue/Mode: Online

Objective of activity:

1. To aware students about various career opportunities in Mathematics.
2. To provide students a platform to learn Statistics and its applications.

Summary of the activity: PG Department of Mathematics organized Online Lecture series Statistics and its applications under DBT Star College Scheme on 2nd March, 2024. The day started with a formal welcome of the resource person by Ms Kamaljeet Kaur. A brief introduction of the guest was shared with the students. After the introductory session, the resource person Dr. Harmanpreet Singh Kapoor discussed various career opportunities after graduating with subject Mathematics. He explained that mathematics offers a wide range of career opportunities across various industries due to its applicability and problem-solving skills. He discussed about Actuarial sciences which assess and manage financial risks, particularly in the insurance and pension industries. Actuaries use mathematical and statistical techniques to analyse data and forecast future events. Data scientists and analysts use mathematical and statistical methods to extract insights from large datasets. Operations researchers apply mathematical methods to optimize processes and decision-making in business, logistics, manufacturing, and other fields. They develop models and algorithms to improve efficiency and resource allocation. He also put light on various scholarship schemes provided by different government agencies such as DST, DBT, NBHM, ISI, TIFR and CSIR. He also discussed various applications of statistics in daily life as well as research. He told students that statistics is a versatile tool that is used extensively in both daily life and research to analyse data, make informed decisions, and draw meaningful conclusions across various disciplines and industries. Putting light on applications in various fields, he said that Statistics is used in medical research

to analyse clinical trials, study disease patterns, assess the effectiveness of treatments, and predict health outcomes, Statistical methods are employed in banking, insurance, and investment to analyse market trends, assess risk, determine asset prices, and make financial decisions, Statistical methods are used in manufacturing and production processes to monitor product quality, identify defects, improve processes, and ensure consistency in output and so on. While talking about Applications of statistics in research he explained that it is used in social science research to analyse survey data, study social trends and behaviour, test hypotheses, and draw conclusions about human behaviour and society. He illuminated that it is also used in environmental research to analyse environmental data, study environmental trends, assess the impact of human activities on the environment, and develop strategies for environmental conservation. The queries of the students were taken from time to time. At the end of event, Mrs. Satinderpal Kaur proposed a formal vote of thanks to the resource person for delivering a magnificent extension lecture.

Outcome of the Activity: The students enjoyed the sessions very much. The lecture increased the audience's awareness of the wide range of fields and industries where statistics plays a crucial role. The lecture served as inspiration to delve deeper into the subject matter or explore how statistical methods can be applied in their own work or research.

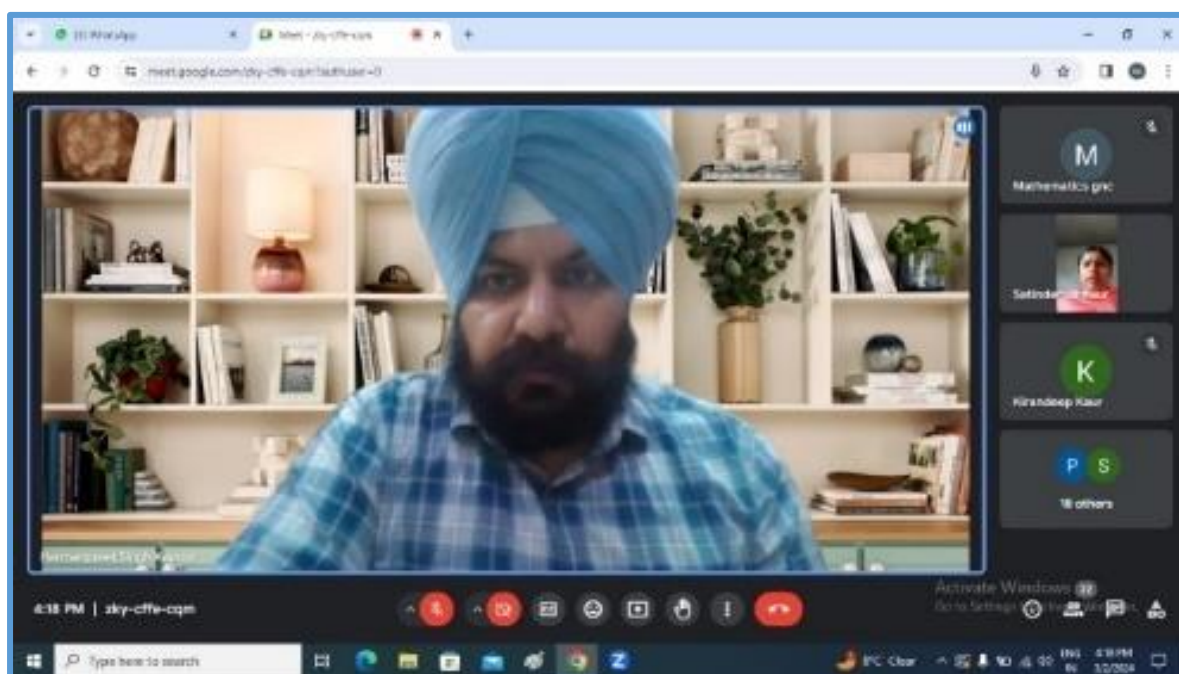
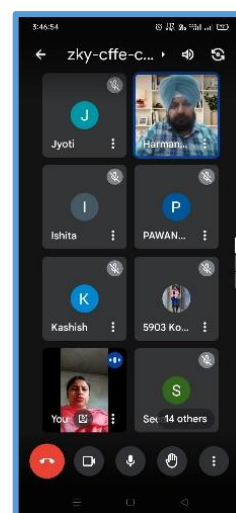
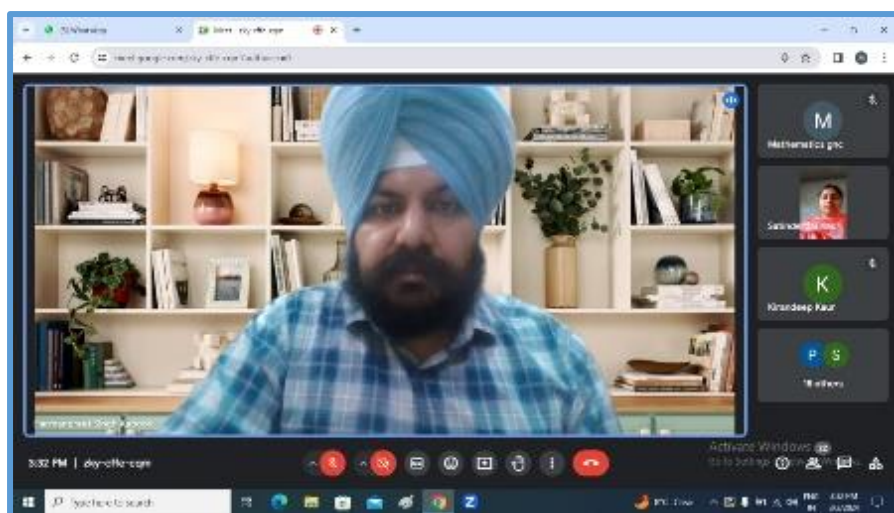
No. of Beneficiaries: Students - 120, Faculty - 6

Media coverage Link:

<https://www.facebook.com/drtejinder.dhaliwal/posts/pfbid08dLCPS3KHGy7s4Rhax2UUL2aBoShS6s6DiifazjXDLJMEBf7c2PApK2CM7LCTbYvl>

Registration Link:

https://docs.google.com/forms/d/1Wpe88iokCOkPVGupul7nGlSrRa3izK39i_YRTLgUVdk/edit



| Attendance- Online Lecture on Career Opportunities in Mathematics and Applications of Statistics | | | | | |
|--|-------------|-------------|-------------|---------------------------------------|-------------|
| Sr. No. | Name | Designation | Class | Name of Institution | Contact No. |
| 1 | Kajal | Faculty | Other | Guru Nanak College, Sri Muktsar Sahib | 6283257575 |
| 2 | Monika Rani | Student | B.Sc./BA-II | Guru Nanak College, Sri Muktsar Sahib | 62834 15825 |

| | | | | | |
|----|-------------------|---------|--------------|---------------------------------------|-------------|
| 3 | Jashanpreet kaur | Student | B.Sc./BA-II | Guru Nanak College, Sri Muktsar Sahib | 9815212416 |
| 4 | Kashish | Student | B.Sc./BA-II | Guru Nanak College, Sri Muktsar Sahib | 7814986599 |
| 5 | Gaganpreet Kaur | Student | B.Sc./BA-II | Guru Nanak College, Sri Muktsar Sahib | 97801-07191 |
| 6 | Charanjeet kaur | Student | B.Sc./BA-II | Guru Nanak College, Sri Muktsar Sahib | 7889168946 |
| 7 | Satinder Pal Kaur | Faculty | Other | Guru Nanak College, Sri Muktsar Sahib | 9463022466 |
| 8 | Sukhmanjeet Singh | Student | B.Sc./BA-II | Guru Nanak College, Sri Muktsar Sahib | 6280466199 |
| 9 | Mitali | Student | B.Sc./BA-II | Guru Nanak College, Sri Muktsar Sahib | 9592596108 |
| 10 | Tanishka Bansal | Student | B.Sc./BA-II | Guru Nanak College, Sri Muktsar Sahib | 9153600078 |
| 11 | Harmanjot Singh | Student | B.Sc./BA-II | Guru Nanak College, Sri Muktsar Sahib | 8360170751 |
| 12 | Khushi | Student | B.Sc./BA-II | Guru Nanak College, Sri Muktsar Sahib | 8427841821 |
| 13 | Kamaljeet Kaur | Faculty | Other | Guru Nanak College, Sri Muktsar Sahib | 9780732462 |
| 14 | Adarshnoor kaur | Student | B.Sc./BA-I | Guru Nanak College, Sri Muktsar Sahib | 8146094467 |
| 15 | Simran | Student | B.Sc./BA-I | Guru Nanak College, Sri Muktsar Sahib | 6239014641 |
| 16 | Jyoti Kaur | Student | Other | Guru Nanak College, Sri Muktsar Sahib | 8054502450 |
| 17 | Arshpreet kaur | Student | B.Sc./BA-I | Guru Nanak College, Sri Muktsar Sahib | 7717365424 |
| 18 | Nancy Demra | Student | B.Sc./BA-III | Guru Nanak College, Sri Muktsar Sahib | 7888723953 |
| 19 | Chahat | Student | B.Sc./BA-I | Guru Nanak College, Sri Muktsar Sahib | 7696200330 |
| 20 | Jashanpreet singh | Student | B.Sc./BA-I | Guru Nanak College, Sri Muktsar Sahib | 7717495216 |
| 21 | Ramandeep kaur | Student | B.Sc./BA-I | Guru Nanak College, Sri Muktsar Sahib | 7531800014 |

| | | | | | |
|----|------------------|---------|--------------|---------------------------------------|-------------|
| 22 | Khushdeep kaur | Student | B.Sc./BA-II | Guru Nanak College, Sri Muktsar Sahib | 9041014143 |
| 23 | Shiv Bajaj | Student | B.Sc./BA-I | Guru Nanak College, Sri Muktsar Sahib | 94634 57221 |
| 24 | Jashanpreet kaur | Student | Other | Guru Nanak College, Sri Muktsar Sahib | 6284988677 |
| 25 | Manjot kaur | Student | B.Sc./BA-I | Guru Nanak College, Sri Muktsar Sahib | 8427832044 |
| 26 | Jashanpreet kaur | Student | B.Sc./BA-II | Guru Nanak College, Sri Muktsar Sahib | 9815212416 |
| 27 | Gurpreet singh | Student | B.Sc./BA-I | Guru Nanak College, Sri Muktsar Sahib | 94175 10599 |
| 28 | Monika | Student | B.Sc./BA-III | Guru Nanak College, Sri Muktsar Sahib | 7009760402 |
| 29 | Smile | Student | B.Sc./BA-I | Guru Nanak College, Sri Muktsar Sahib | 6239506822 |
| 30 | Akanksha | Student | B.Sc./BA-III | Guru Nanak College, Sri Muktsar Sahib | 9417514924 |
| 31 | Simranjeet kaur | Student | B.Sc./BA-III | Guru Nanak College, Sri Muktsar Sahib | 7973168378 |
| 32 | MANIDER kour | Student | B.Sc./BA-III | Guru Nanak College, Sri Muktsar Sahib | 8427364027 |
| 33 | Rekha rani | Student | B.Sc./BA-I | Guru Nanak College, Sri Muktsar Sahib | 8146021809 |
| 34 | Khushi | Student | B.Sc./BA-II | Guru Nanak College, Sri Muktsar Sahib | 8427841821 |
| 35 | Sandeep kaur | Student | Other | Guru Nanak College, Sri Muktsar Sahib | 7347455148 |
| 36 | Neha | Student | B.Sc./BA-III | Guru Nanak College, Sri Muktsar Sahib | 6280633817 |
| 37 | Amanjot kaur | Student | B.Sc./BA-I | Guru Nanak College, Sri Muktsar Sahib | 7973451108 |
| 38 | Amandeep kaur | Student | Other | Guru Nanak College, Sri Muktsar Sahib | 9815781852 |
| 39 | Charanjeet kaur | Student | B.Sc./BA-II | Guru Nanak College, Sri Muktsar Sahib | 7889168946 |
| 40 | Sania | Student | B.Sc./BA-I | Guru Nanak College, Sri Muktsar Sahib | 8360817297 |

| | | | | | |
|----|-------------------|---------|--------------|---------------------------------------|-------------|
| 41 | Manjot Kaur | Student | B.Sc./BA-III | Guru Nanak College, Sri Muktsar Sahib | 7814970640 |
| 42 | Komalpreet kaur | Student | B.Sc./BA-III | Guru Nanak College, Sri Muktsar Sahib | 99140 34202 |
| 43 | Sadhna kaur | Student | B.Sc./BA-I | Guru Nanak College, Sri Muktsar Sahib | 7657876470 |
| 44 | NOOR | Student | B.Sc./BA-III | Guru Nanak College, Sri Muktsar Sahib | 6284490061 |
| 45 | Kashish | Student | B.Sc./BA-II | Guru Nanak College, Sri Muktsar Sahib | 7814986599 |
| 46 | Armaan singh | Student | B.Sc./BA-II | Guru Nanak College, Sri Muktsar Sahib | 7087304706 |
| 47 | Monika Rani | Student | B.Sc./BA-II | Guru Nanak College, Sri Muktsar Sahib | 6283415825 |
| 48 | Sukhmanjeet Singh | Student | B.Sc./BA-II | Guru Nanak College, Sri Muktsar Sahib | 6280466199 |
| 49 | Priya doomra | Student | Other | Guru Nanak College, Sri Muktsar Sahib | 9878751882 |
| 50 | Jyoti kaur | Student | B.Sc./BA-III | Guru Nanak College, Sri Muktsar Sahib | 8054502450 |
| 51 | Karandeep Kaur | Student | B.Sc./BA-I | Guru Nanak College, Sri Muktsar Sahib | 8725939749 |
| 52 | Payal | Student | B.Sc./BA-I | Guru Nanak College, Sri Muktsar Sahib | 8847441306 |
| 53 | Sumanpreet kaur | Student | B.Sc./BA-I | Guru Nanak College, Sri Muktsar Sahib | 79864 20983 |
| 54 | Sukhpreet Kaur | Student | B.Sc./BA-III | Guru Nanak College, Sri Muktsar Sahib | 8360125805 |
| 55 | Harmandeep kaur | Student | B.Sc./BA-III | Guru Nanak College, Sri Muktsar Sahib | 7009788993 |
| 56 | Rajpreet Singh | Student | B.Sc./BA-I | Guru Nanak College, Sri Muktsar Sahib | 9056342209 |
| 57 | Deepka Rani | Student | B.Sc./BA-III | Guru Nanak College, Sri Muktsar Sahib | 6280256388 |
| 58 | Chahat | Student | B.Sc./BA-I | Guru Nanak College, Sri Muktsar Sahib | 7696200330 |
| 59 | Gurwinder Kaur | Student | B.Sc./BA-III | Guru Nanak College, Sri Muktsar Sahib | 9988406169 |

| | | | | | |
|----|------------------|---------|--------------|---------------------------------------|-------------|
| 60 | Simranjeet kaur | Student | B.Sc./BA-I | Guru Nanak College, Sri Muktsar Sahib | 8146306712 |
| 61 | Ramandeep kaur | Student | B.Sc./BA-I | Guru Nanak College, Sri Muktsar Sahib | 9878506635 |
| 62 | Jashanpreet kaur | Student | B.Sc./BA-III | Guru Nanak College, Sri Muktsar Sahib | 6284988677 |
| 63 | MANIDER kour | Student | B.Sc./BA-III | Guru Nanak College, Sri Muktsar Sahib | 8427364027 |
| 64 | Simran kaur | Student | B.Sc./BA-I | Guru Nanak College, Sri Muktsar Sahib | 7980137442 |
| 65 | Simranjeet kaur | Student | B.Sc./BA-III | Guru Nanak College, Sri Muktsar Sahib | 7973168378 |
| 66 | Komalpreet kaur | Student | B.Sc./BA-III | Guru Nanak College, Sri Muktsar Sahib | 99140 34202 |
| 67 | Khushi | Student | B.Sc./BA-II | Guru Nanak College, Sri Muktsar Sahib | 8427841821 |
| 68 | Mehak | Student | B.Sc./BA-II | Guru Nanak College, Sri Muktsar Sahib | 9781650950 |
| 69 | Amitoj kaur | Student | B.Sc./BA-II | Guru Nanak College, Sri Muktsar Sahib | 9872788772 |
| 70 | Gaganpreet Kaur | Student | B.Sc./BA-II | Guru Nanak College, Sri Muktsar Sahib | 97801-07191 |
| 71 | Pawandeep kaur | Student | B.Sc./BA-I | Guru Nanak College, Sri Muktsar Sahib | 9876992753 |
| 72 | Manpreet kaur | Student | B.Sc./BA-I | Guru Nanak College, Sri Muktsar Sahib | 9780527679 |
| 73 | Kirti girdhar | Student | B.Sc./BA-I | Guru Nanak College, Sri Muktsar Sahib | 7657813795 |
| 74 | Seema rani | Student | B.Sc./BA-I | Guru Nanak College, Sri Muktsar Sahib | 6280001913 |
| 75 | Sukhwinder kaur | Student | B.Sc./BA-I | Guru Nanak College, Sri Muktsar Sahib | 9501755089 |
| 76 | Neha | Student | B.Sc./BA-III | Guru Nanak College, Sri Muktsar Sahib | 6280633817 |
| 77 | Rupinder Kaur | Student | B.Sc./BA-II | Guru Nanak College, Sri Muktsar Sahib | 98771 01821 |
| 78 | Harmanjot Singh | Student | B.Sc./BA-II | Guru Nanak College, Sri Muktsar Sahib | 8360170751 |

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|----|-------------------------|---------|--------------|---------------------------------------|-------------|
| 79 | Rupinder Singh | Student | B.Sc./BA-I | Guru Nanak College, Sri Muktsar Sahib | 7717320190 |
| 80 | Amanjot kaur | Student | B.Sc./BA-I | Guru Nanak College, Sri Muktsar Sahib | 7973451108 |
| 81 | Shruti | Student | Other | Guru Nanak College, Sri Muktsar Sahib | 8872544390 |
| 82 | Jashanpreet kaur | Student | B.Sc./BA-II | Guru Nanak College, Sri Muktsar Sahib | 9815212416 |
| 83 | Manjot Kaur | Student | B.Sc./BA-III | Guru Nanak College, Sri Muktsar Sahib | 7814970640 |
| 84 | nirmla rani | Student | B.Sc./BA-II | Guru Nanak College, Sri Muktsar Sahib | 6283658276 |
| 85 | Keshav jain | Student | B.Sc./BA-I | Guru Nanak College, Sri Muktsar Sahib | 7717496784 |
| 86 | Harmandeep Kaur | Student | B.Sc./BA-II | Guru Nanak College, Sri Muktsar Sahib | 7973792063 |
| 87 | Sadhna kaur | Student | B.Sc./BA-I | Guru Nanak College, Sri Muktsar Sahib | 7657876470 |
| 88 | Amandeep Kaur | Student | Other | Guru Nanak College, Sri Muktsar Sahib | 9815781852 |
| 89 | Sandeep kaur | Other | Other | Guru Nanak College, Sri Muktsar Sahib | 7347455148 |
| 90 | Sharan Deep kaur | Student | Other | Guru Nanak College, Sri Muktsar Sahib | 8968927022 |
| 91 | Smile | Student | B.Sc./BA-I | Guru Nanak College, Sri Muktsar Sahib | 6239506822 |
| 92 | Jashanpreet singh | Student | B.Sc./BA-I | Guru Nanak College, Sri Muktsar Sahib | 7717495216 |
| 93 | Gurpreet singh | Student | B.Sc./BA-I | Guru Nanak College, Sri Muktsar Sahib | 94175 10599 |
| 94 | Priyanka Rani | Student | B.Sc./BA-II | Guru Nanak College, Sri Muktsar Sahib | 7973951614 |
| 95 | Shiv Bajaj | Student | B.Sc./BA-I | Guru Nanak College, Sri Muktsar Sahib | 9.19463E+11 |
| 96 | Sahibjeet Singh Dhillon | Student | B.Sc./BA-I | Guru Nanak College, Sri Muktsar Sahib | 7347093627 |
| 97 | Damanpreet kaur | Student | B.Sc./BA-I | Guru Nanak College, Sri Muktsar Sahib | 9855743677 |

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|-----|-----------------|---------|--------------|---------------------------------------|---------------|
| 98 | Mukta jain | Student | B.Sc./BA-III | Guru Nanak College, Sri Muktsar Sahib | 6239420421 |
| 99 | Robindeepkaur | Student | B.Sc./BA-I | Guru Nanak College, Sri Muktsar Sahib | 8437832632 |
| 100 | Sukhpreet Singh | Student | B.Sc./BA-III | Guru Nanak College, Sri Muktsar Sahib | 9914526367 |
| 101 | Sameer | Student | B.Sc./BA-II | Guru Nanak College, Sri Muktsar Sahib | 7973668052 |
| 102 | Sandeep kaur | Student | B.Sc./BA-I | Guru Nanak College, Sri Muktsar Sahib | 9779062769 |
| 103 | Nimerveer kaur | Student | B.Sc./BA-III | Guru Nanak College, Sri Muktsar Sahib | 9872761690 |
| 104 | Aarti | Student | B.Sc./BA-III | Guru Nanak College, Sri Muktsar Sahib | 7814308421 |
| 105 | Khushpreet Kaur | Student | B.Sc./BA-I | Guru Nanak College, Sri Muktsar Sahib | 7340778006 |
| 106 | Armaan singh | Student | B.Sc./BA-II | Guru Nanak College, Sri Muktsar Sahib | 7087304706 |
| 107 | Riya | Student | B.Sc./BA-III | Guru Nanak College, Sri Muktsar Sahib | 7889271491 |
| 108 | Tanu | Student | B.Sc./BA-III | Guru Nanak College, Sri Muktsar Sahib | 62807 - 42843 |
| 109 | Arshnoor singh | Student | B.Sc./BA-III | Guru Nanak College, Sri Muktsar Sahib | 7529002139 |
| 110 | Khushi | Student | B.Sc./BA-III | Guru Nanak College, Sri Muktsar Sahib | 9978216557 |
| 111 | NOOR | Student | B.Sc./BA-III | Guru Nanak College, Sri Muktsar Sahib | 6284490061 |
| 112 | Simran | Student | B.Sc./BA-I | Guru Nanak College, Sri Muktsar Sahib | 6239014641 |
| 113 | Gursimran Singh | Student | B.Sc./BA-III | Guru Nanak College, Sri Muktsar Sahib | 7814948751 |
| 114 | Ishita | Student | B.Sc./BA-III | Guru Nanak College, Sri Muktsar Sahib | 9872427850 |
| 115 | Kashish | Student | B.Sc./BA-III | Guru Nanak College, Sri Muktsar Sahib | 8146732338 |
| 116 | Shaminder singh | Student | B.Sc./BA-III | Guru Nanak College, Sri Muktsar Sahib | 7889164392 |

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|-----|-----------------|---------|--------------|---------------------------------------|------------|
| 117 | Amritpal singh | Student | B.Sc./BA-III | Guru Nanak College, Sri Muktsar Sahib | 9464646112 |
| 118 | Navneet Kaur | Student | B.Sc./BA-III | Guru Nanak College, Sri Muktsar Sahib | 6283699027 |
| 119 | Suneha | Student | B.Sc./BA-III | Guru Nanak College, Sri Muktsar Sahib | 8264660286 |
| 120 | Lovepreet Kaur | Student | B.Sc./BA-III | Guru Nanak College, Sri Muktsar Sahib | 7009271303 |
| 121 | Ramandeep Kaur | Student | B.Sc./BA-III | Guru Nanak College, Sri Muktsar Sahib | 7696716989 |
| 122 | Ramandeep kaur | Student | B.Sc./BA-III | Guru Nanak College, Sri Muktsar Sahib | 7740030656 |
| 123 | Jagtar singh | Student | Other | Guru Nanak College, Sri Muktsar Sahib | 8528065981 |
| 124 | Ruhani Babbar | Student | Other | Guru Nanak College, Sri Muktsar Sahib | 9914717416 |
| 125 | Shefali Batra | Student | Other | Guru Nanak College, Sri Muktsar Sahib | 9465221540 |
| 126 | Prabhjeet Singh | Student | B.Sc./BA-I | Guru Nanak College, Sri Muktsar Sahib | 8872415048 |

DBT ACTIVITY REPORT (2023-24)

PG Department of Mathematics

Activity 8

Name of Activity: Training Program on Guidance for Projects and Research

Date: 06-09 Feb, 2024

Details of Resource Persons:

1. Dr. Satinderpal Kaur, Assistant Professor, Guru Nanak College, Sri Muktsar Sahib

Venue/Mode: Mathematics Computational Lab, Guru Nanak College, Sri Muktsar Sahib

Objective of activity:

1. To motivate students to do research.
2. To aware students about recent conferences and enable them to present their papers.

Summary of the activity: Training program on guidance for projects and research paper writing was organized by PG Department of Mathematics from 06/02/2024 to 09/02/2024 under the DBT Star College Scheme. HOD Dr. SatinderPal Kaur demonstrated the students about how to select research problem and write a research paper. She detailed the students about Project Planning, scope and objective of project. She also introduced students to project management methodologies and Use of project management softwares. She motivated and guided the students for taking and completing research projects. Participants gained insights into the importance of effective communication, goal setting, and team collaboration.

Outcome of the Activity: The training program helped students in deeper understanding of project guidance principles and methodologies. They expressed confidence in applying the knowledge and skills gained to their respective projects.

No. of Beneficiaries: Students-41

Media coverage Link:

https://www.facebook.com/story.php?story_fbid=1587627445322381&id=100022254218839&mibextid=oFDknk&rdid=WKDLG6VO33vgwP82

Registration Link:

https://docs.google.com/forms/d/1rwo_dbh4T1hINB2qipUj_id19Y734sII4sLbWt1Hg-8/edit



| Project Beneficiaries | | | | | | |
|-----------------------|---|--|-------------------|----------------|-------------|----------------|
| Sr No. | Title of Project | Name of teacher who supervised the project | Name of student | Class | Roll Number | Contact Number |
| 1 | Mathematical modelling of pandemic diseases | Navneet rana | Neha | B.A./B.Sc.-III | 5935 | 6280633817 |
| 2 | Mathematical Modelling Of Pandemic Diseases | Navneet Rana | Deepka Rani | B.A./B.Sc.-III | 5916 | 6280256388 |
| 3 | Mathematical modelling of pandemic disease | Navneet Kaur | Anmolpreet kaur | B.A./B.Sc.-III | 5906 | 8699561328 |
| 4 | Mathematical modelling pandemic diseases | Mrs. Navneet Rana | Kulwinder Kaur | B.A./B.Sc.-III | 5914 | 6239410849 |
| 5 | Analyzing graphs of quadratic equations in three variables using matlab | Kamaljeet mam | Chahat | B.A./B.Sc.-I | 5520 | 7696200330 |
| 6 | Applications of Vedic Mathematics in Algebra | Kajal Mam | Gaganpreet Kaur | B.A./B.Sc.-II | 5701 | 97801-07191 |
| 7 | Applications of Vedic mathematics in algebra | Miss kajal arora | Jashanpreet kaur | B.A./B.Sc.-II | 5704 | 9815212416 |
| 8 | Applications of vedic mathematics in algebra | Kajal arora | Sukhmanjeet singh | B.A./B.Sc.-II | 5721 | 6280466199 |
| 9 | Graph of quadratic equations for three variable | Kamaljeet Kaur | Manpreet Kaur | B.A./B.Sc.-III | 3021 | 9988848785 |
| 10 | ANALYZING GRAPHS OF QUADRATIC EQUATIONS IN THREE VARIABLES USING MATLAB | Kamaljeet kaur | Jashanpreet kaur | B.A./B.Sc.-III | 3005 | 6284988677 |
| 11 | Analyzing graphs of quadratic equations in three variables using matlab | Kamaljeet kaur | Ramandeep kaur | B.A./B.Sc.-I | 5521 | 7531800014 |
| 12 | Application of matrices in engineering and science | Dr Satinderpal kaur | Amitoj singh | B.A./B.Sc.-III | 5705 | 9646240401 |
| 13 | Application of derivatives | Dr.satinderpal kaur | Jyoti kaur | B.A./B.Sc.-III | 3057 | 8054502450 |
| 14 | Mathematics and astrology | Ms. Satinderpal kaur | Keshav jain | B.A./B.Sc.-I | 1239 | 7717496784 |
| 15 | The effect of geogebra on student's conceptual and | Dr. Satinderpal Kaur | Amanjot kaur | B.A./B.Sc.-I | 1093 | 7973451108 |

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|----|--|-----------------------|-----------------|----------------|------|----------------|
| | procedural knowledge:-the case of applications of derivative | | | | | |
| 16 | Application of circle | Satinder mam | Seema | B.A./B.Sc.-I | 1197 | 6280001913 |
| 17 | Teaching the circle equation using a practical mathematics problem | Dr. Satinder mam | Seema Rani | B.A./B.Sc.-I | 1197 | 6280001913 |
| 18 | Application of derivatives | Dr. Satunderpal kaur | Jyoti kaur | B.A./B.Sc.-III | 3057 | 8054502450 |
| 19 | Military and Game Strategy: A Review | Dr. Satinder pal Kaur | Nancy Demra | B.A./B.Sc.-III | 3053 | 7888723953 |
| 20 | Use of algebra in daily life | Satinderpal kaur | Mukta jain | B.A./B.Sc.-III | 3142 | 6239420421 |
| 21 | Application of Matrix in engeneering and science | Dr satinder pal kaur | Kirti girdhar | B.A./B.Sc.-I | 1173 | 7657813795 |
| 22 | Uses of Paradoxes in teaching probability | Satinderpal kaur | Gurpreet singh | B.A./B.Sc.-I | 1081 | 94175 10599 |
| 23 | The effect of geogebra conceptual knowledge (case of Derivative) | Satinderpal kaur | Arsh Aulakh | B.A./B.Sc.-I | 1188 | 6239866902 |
| 24 | The effect of geogebra conceptual knowledge (case of Derivative) | Satinderpal kaur | Arsh Aulakh | B.A./B.Sc.-I | 1188 | 6239866902 |
| 25 | Uses of paradoxes in teaching probability | Kiran mam | Charanjeet kaur | B.A./B.Sc.-II | 5708 | 7889168946 |
| 26 | Applications of Mathematics in Astrology | Shikha mackker | Mitali | B.A./B.Sc.-II | 5707 | 9592596108 |
| 27 | Applications of Mathematics in Astrology | Shikha mam | Charanjeet kaur | B.A./B.Sc.-II | 5708 | 7889168946 |
| 28 | Applications of mathematics in astrology | Mrs. Shikha mackker | Armaan singh | B.A./B.Sc.-II | 5706 | 7087304706 |
| 29 | Uses of paradoxes in teachers probability | Kiran kaur | Anmol | B.A./B.Sc.-II | 5718 | 8872168041 |
| 30 | Uses of paradoxes in teachers probability | Kiran kaur | Monika Rani | B.A./B.Sc.-II | 5711 | 6283415825 |

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|----|--|----------------------|-----------------|-----------------|----------|------------|
| 31 | Applications of Mathematics in astrology | Ms. Shikha makkar | Keshav jain | B.A./B.Sc.- I | 1239 | 7717496784 |
| 32 | Uses of Paradoxes in teaching Probability | Miss.kajal | Monika rani | B.A./B.Sc.- II | 5711 | 6283415825 |
| 33 | Application of graph theory | Satinder pal kaur | Monika | B.A./B.Sc.- III | 3022 | 7009760402 |
| 34 | Probability Distribution in Healthcare review | Satinderpal kaur | Pawandeep kaur | B.A./B.Sc.- I | 1021 | 9814056470 |
| 35 | Application of matrices in engineering and science | Dr. Satinderpal kaur | Armaan singh | B.A./B.Sc.- II | 5706 | 7087304706 |
| 36 | The Use of technology in solving mathematics problems easily | Dr. Satinder kaur | Sandeep kaur | B.A./B.Sc.- I | 1084 | 9779062769 |
| 37 | Application of trigonometry | Satinder madam | Damanpreet kaur | B.A./B.Sc.- I | 1280 | 9855743677 |
| 38 | Application of matrices in engineering and science | Dr satinderpal Kaur | Sameer | B.A./B.Sc.- II | 5709 | 7973668052 |
| 39 | Application of Vedic mathematics in Algebra | Ms Kajal | Harmanjot Singh | B.A./B.Sc.- II | 5723 | 8360170751 |
| 40 | Application of geometry in real life | Satinder pal kaur | Ranjeet Singh | B.A./B.Sc.- III | 5937 | 9988314428 |
| 41 | Mathematics in imaging | Satinder pal kaur | Deepka Rani | B.A./B.Sc.- III | 5916 | 6280256388 |
| 42 | Mathematics in imaging | Satinder pal kaur | Kulwinder kaur | B.A./B.Sc.- III | 5914 | 6239410849 |
| 43 | Mathematics in imaging | Satinderpal kaur | Samanpreet kaur | B.A./B.Sc.- III | 21052459 | 8728958158 |

DBT ACTIVITY REPORT (2023-24)

PG Department of Mathematics

Activity 9

Name of Activity: Online Lecture Series on Ordinary Differential Equations and Number Theory

Date: 9th March, 2024

Details of Resource Persons:

1. Dr. Rajneesh Kumar, Professor, Department of Mathematics, Kurukshetra University, Kurukshetra.
2. Dr. Tapas Chatterjee, Associate professor, Department of Mathematics, IIT Ropar.

Venue/Mode: Online

Objective of activity:

1. To equip students with the knowledge, skills, and tools needed to understand, analyze, and solve Ordinary Differential Equations.
2. To introduce students to computational methods for solving differential equations using software tools like MATLAB, Python, or Mathematica.
3. To enable students to trace the evolution of mathematical ideas and concepts over time.
4. To examine the historical significance of numbers.

Summary of the activity: The PG Department of Mathematics organized the online lecture series on 9/3/2024 under DBT Star College Scheme. In this lecture series, two lectures were arranged for the students.

In morning session, Dr. Rajneesh Kumar from Kurukshetra University, Kurukshetra (Haryana) delivered a lecture on differential equations. In different sessions while interacting with students, he introduced Ordinary differential equations in a very innovative manner followed by qualitative analysis of differential equations. He also explained advanced topics such as existence and uniqueness of solutions, stability analysis, phase plane analysis, nonlinear dynamics, and chaos theory. He introduced students to software tools like MATLAB, Python with libraries like SciPy, or Mathematica for solving ODEs numerically and simulating systems. The lecture emphasized the connections between ODEs and other mathematical areas, such as linear algebra, calculus, and complex analysis, illustrating how these subjects intersect and complement each

other The session helped students develop computational skills that are valuable in various academic and professional settings.

In the evening session, Dr. Tapas Chatterjee from IIT Ropar gave a lecture on History of numbers. During the lecture Dr. Tapas discussed how ancient civilizations devised numerical notations, arithmetic operations, and mathematical techniques to solve practical problems and understand the world around us. He explained the historical development of numbers, starting from ancient civilizations like the Mesopotamians, Egyptians, and Greeks. They understand how early societies used different systems of counting and notation, such as tally marks, Egyptian hieroglyphs, and Roman numerals. He further talked about the contributions of Indian mathematicians, particularly the invention of the decimal system, the concept of zero and the significance of these developments in arithmetic and mathematics as a whole. The lecture also covered the extension of numbers beyond the real numbers to include complex numbers, quaternions, and other mathematical structures along with historical context and motivations behind these developments. Dr. Tapas put light on the fact that studying the history of numbers provides opportunities to learn about the contributions of mathematicians and scholars from various cultures who have advanced mathematical knowledge. Students learn about the role of scholars like Al-Khwarizmi and Fibonacci in popularizing Arabic numerals in the Western world as well as contributions of mathematicians like Descartes, Viète, and Cardano to the development of algebraic notation and methods.

In the concluding talk, he highlighted connections between historical developments in mathematics and modern mathematical concepts and techniques. At the end of each session, Dr. Satinderpal Kaur proposed a formal vote of thanks to the guests for such opulent lecture.

Outcome of the Activity: The lecture on ODEs equipped students with the knowledge and skills necessary to understand, solve, and apply ordinary differential equations in various scientific and engineering contexts. Students gained a deeper understanding of the cultural, historical, and intellectual context of mathematics and its significance in human civilization.

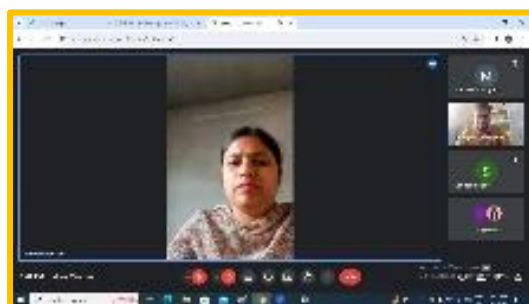
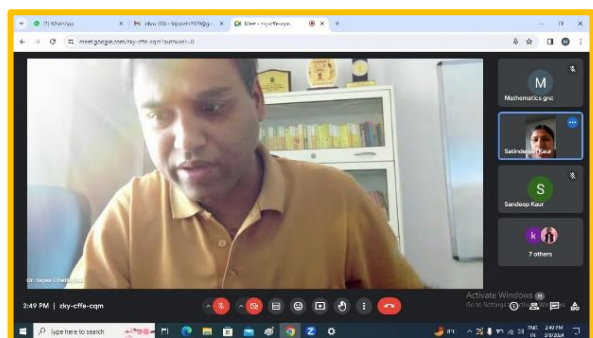
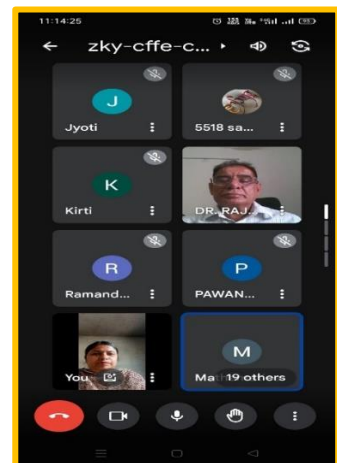
No. of Beneficiaries: Students 158, Faculty-6

Media coverage Link:

<https://www.facebook.com/drtejinder.dhaliwal/posts/pfbid0Y999KpaMAgY9jbZpAdcjFkqHEF4VhpWASM8JHrp6YiD3K6nvQzHm8QkiSkDZrzVul>

Registration Link(if any):

<https://docs.google.com/forms/d/1icae7oMoMDunvklta8juFMsqRWryHl1qNeTNfTqdPBg/edit>



| Attendance- Online Lecture series- ODE and Number Theory | | | | | |
|---|-------------------|--------------------|--------------|---------------------------------------|--------------------|
| Sr. No. | Name | Designation | Class | Name of Institution | Contact No. |
| 1 | Kajal | Faculty | Other | Guru Nanak College, Sri Muktsar Sahib | 6283257575 |
| 2 | Kashish | Student | BA/B.Sc.-II | Guru Nanak College, Sri Muktsar Sahib | 7814986599 |
| 3 | Gaganpreet Kaur | Student | BA/B.Sc.-II | Guru Nanak College, Sri Muktsar Sahib | 97801-07191 |
| 4 | Charanjeet kaur | Student | BA/B.Sc.-II | Guru Nanak College, Sri Muktsar Sahib | 9463318809 |
| 5 | Veerpal kaur | Student | BA/B.Sc.-II | Guru Nanak College, Sri Muktsar Sahib | 7814890980 |
| 6 | Satwinder Kaur | Student | BA/B.Sc.-II | Guru Nanak College, Sri Muktsar Sahib | 6283140240 |
| 7 | Satinder Pal Kaur | Faculty | Other | Guru Nanak College, Sri Muktsar Sahib | 9463022466 |
| 8 | Sukhmanjeet Singh | Student | BA/B.Sc.-II | Guru Nanak College, Sri Muktsar Sahib | 6280466199 |
| 9 | Tanishka Bansal | Student | BA/B.Sc.-II | Guru Nanak College, Sri Muktsar Sahib | 9153600078 |
| 10 | Harmanjot Singh | Student | BA/B.Sc.-II | Guru Nanak College, Sri Muktsar Sahib | 8360170751 |
| 11 | Kirandeep Kaur | Faculty | Other | Guru Nanak College, Sri Muktsar Sahib | 8264434134 |
| 12 | Yashdeep Singh | Student | BA/B.Sc.-III | Guru Nanak College, Sri Muktsar Sahib | 9877893635 |
| 13 | Manjot Kaur | Student | BA/B.Sc.-III | Guru Nanak College, Sri Muktsar Sahib | 7814970640 |
| 14 | Kulwinder kaur | Student | BA/B.Sc.-III | Guru Nanak College, Sri Muktsar Sahib | 6239410849 |
| 15 | Amisha | Student | BA/B.Sc.-III | Guru Nanak College, Sri Muktsar Sahib | 7740074949 |
| 16 | Rajveer Kaur | Faculty | Other | Guru Nanak College, Sri Muktsar Sahib | 8556823191 |
| 17 | Suneha | Student | BA/B.Sc.-III | Guru Nanak College, Sri Muktsar Sahib | 8264660286 |
| 18 | Tanu | Student | BA/B.Sc.-III | Guru Nanak College, Sri Muktsar Sahib | 62807-42843 |
| 19 | Deepka Rani | Student | BA/B.Sc.-III | Guru Nanak College, Sri Muktsar Sahib | 6280256388 |
| 20 | Kanchan | Student | BA/B.Sc.-II | Guru Nanak College, Sri Muktsar Sahib | 9592433949 |
| 21 | Komalpreet kaur | Student | BA/B.Sc.-III | Guru Nanak College, Sri Muktsar Sahib | 99140 34202 |
| 22 | Armaan singh | Student | BA/B.Sc.-II | Guru Nanak College, Sri Muktsar Sahib | 7087304706 |

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|----|-------------------|---------|--------------|---------------------------------------|-------------|
| 23 | Nimer | Student | BA/B.Sc.-III | Guru Nanak College, Sri Muktsar Sahib | 9872761690 |
| 24 | Harmandeep kaur | Student | BA/B.Sc.-III | Guru Nanak College, Sri Muktsar Sahib | 7009788993 |
| 25 | Khushi | Student | BA/B.Sc.-II | Guru Nanak College, Sri Muktsar Sahib | 8427841821 |
| 26 | Shubham sain | Student | BA/B.Sc.-III | Guru Nanak College, Sri Muktsar Sahib | 6283172909 |
| 27 | Anchal choudhary | Student | BA/B.Sc.-I | Guru Nanak College, Sri Muktsar Sahib | 8146517035 |
| 28 | Nancy Demra | Student | BA/B.Sc.-III | Guru Nanak College, Sri Muktsar Sahib | 7888723953 |
| 29 | Chahat | Student | BA/B.Sc.-I | Guru Nanak College, Sri Muktsar Sahib | 7696200330 |
| 30 | Rajpreet Singh | Student | BA/B.Sc.-I | Guru Nanak College, Sri Muktsar Sahib | 9056342209 |
| 31 | Jashanpreet singh | Student | BA/B.Sc.-I | Guru Nanak College, Sri Muktsar Sahib | 7717495216 |
| 32 | Ramandeep kaur | Student | BA/B.Sc.-I | Guru Nanak College, Sri Muktsar Sahib | 7531800014 |
| 33 | Khushdeep kaur | Student | BA/B.Sc.-II | Guru Nanak College, Sri Muktsar Sahib | 9041014143 |
| 34 | Sumanpreet kaur | Student | BA/B.Sc.-I | Guru Nanak College, Sri Muktsar Sahib | 79864 20983 |
| 35 | Simranjeet kaur | Student | BA/B.Sc.-I | Guru Nanak College, Sri Muktsar Sahib | 8146306712 |
| 36 | Arshdeep Singh | Student | BA/B.Sc.-I | Guru Nanak College, Sri Muktsar Sahib | 7973306670 |
| 37 | Kanchan | Student | BA/B.Sc.-II | Guru Nanak College, Sri Muktsar Sahib | 9592433949 |
| 38 | Pawandeep kaur | Student | BA/B.Sc.-I | Guru Nanak College, Sri Muktsar Sahib | 9876992753 |
| 39 | Arshdeep kaur | Student | BA/B.Sc.-I | Guru Nanak College, Sri Muktsar Sahib | 7719658623 |
| 40 | Jashanpreet kaur | Student | Other | Guru Nanak College, Sri Muktsar Sahib | 6284988677 |
| 41 | Kirti girdhar | Student | BA/B.Sc.-I | Guru Nanak College, Sri Muktsar Sahib | 7657813795 |
| 42 | Manjot kaur | Student | BA/B.Sc.-I | Guru Nanak College, Sri Muktsar Sahib | 8427832044 |
| 43 | Gurpreet singh | Student | BA/B.Sc.-I | Guru Nanak College, Sri Muktsar Sahib | 94175 10599 |
| 44 | Seema | Student | BA/B.Sc.-I | Guru Nanak College, Sri Muktsar Sahib | 6280001913 |
| 45 | Akanksha | Student | BA/B.Sc.-III | Guru Nanak College, Sri Muktsar Sahib | 9417514924 |
| 46 | Palak | Student | BA/B.Sc.-III | Guru Nanak College, Sri Muktsar Sahib | 9914408996 |

| | | | | | |
|----|-------------------|---------|---------------|---------------------------------------|-------------|
| 47 | MANIDER kour | Student | BA/B.Sc.- III | Guru Nanak College, Sri Muktsar Sahib | 8427364027 |
| 48 | Khushi | Student | BA/B.Sc.- II | Guru Nanak College, Sri Muktsar Sahib | 8427841821 |
| 49 | Neha | Student | BA/B.Sc.- III | Guru Nanak College, Sri Muktsar Sahib | 6280633817 |
| 50 | Muskan | Student | BA/B.Sc.- I | Guru Nanak College, Sri Muktsar Sahib | 9877355113 |
| 51 | Amanjot kaur | Student | BA/B.Sc.- I | Guru Nanak College, Sri Muktsar Sahib | 7973451108 |
| 52 | Amandeep Kaur | Student | Other | Guru Nanak College, Sri Muktsar Sahib | 9815781852 |
| 53 | Manjinder kaur | Student | BA/B.Sc.- I | Guru Nanak College, Sri Muktsar Sahib | 6239214486 |
| 54 | Keshav jain | Student | BA/B.Sc.- I | Guru Nanak College, Sri Muktsar Sahib | 7717496784 |
| 55 | Charanjeet kaur | Student | BA/B.Sc.- II | Guru Nanak College, Sri Muktsar Sahib | 7889168946 |
| 56 | Sania | Student | BA/B.Sc.- I | Guru Nanak College, Sri Muktsar Sahib | 8360817297 |
| 57 | Manjot Kaur | Student | BA/B.Sc.- III | Guru Nanak College, Sri Muktsar Sahib | 7814970640 |
| 58 | Nikita | Student | BA/B.Sc.- III | Other | 9592076736 |
| 59 | Komalpreet kaur | Student | BA/B.Sc.- III | Guru Nanak College, Sri Muktsar Sahib | 99140 34202 |
| 60 | Sadhna kaur | Student | BA/B.Sc.- I | Guru Nanak College, Sri Muktsar Sahib | 7657876470 |
| 61 | NOOR | Student | BA/B.Sc.- III | Guru Nanak College, Sri Muktsar Sahib | 6284490061 |
| 62 | Amitoj Singh | Student | BA/B.Sc.- II | Guru Nanak College, Sri Muktsar Sahib | 9646240401 |
| 63 | Anmol | Student | BA/B.Sc.- II | Guru Nanak College, Sri Muktsar Sahib | 8872168041 |
| 64 | Sameer | Student | BA/B.Sc.- II | Guru Nanak College, Sri Muktsar Sahib | 7973668052 |
| 65 | Kashish | Student | BA/B.Sc.- II | Guru Nanak College, Sri Muktsar Sahib | 7814986599 |
| 66 | Sukhpreet Singh | Student | BA/B.Sc.- III | Guru Nanak College, Sri Muktsar Sahib | 9914526367 |
| 67 | Sukhmanjeet Singh | Student | BA/B.Sc.- II | Guru Nanak College, Sri Muktsar Sahib | 6280466199 |
| 68 | Suneha | Student | BA/B.Sc.- III | Guru Nanak College, Sri Muktsar Sahib | 8264660286 |
| 69 | Priya doomra | Student | Other | Guru Nanak College, Sri Muktsar Sahib | 9878751882 |
| 70 | Priya doomra | Student | Other | Guru Nanak College, Sri Muktsar Sahib | 9878751882 |

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|----|------------------|---------|--------------|---------------------------------------|-------------|
| 71 | Jyoti kaur | Student | BA/B.Sc.-III | Guru Nanak College, Sri Muktsar Sahib | 8054502450 |
| 72 | Jyoti kaur | Student | BA/B.Sc.-III | Guru Nanak College, Sri Muktsar Sahib | 8054502450 |
| 73 | Karandeep Kaur | Student | BA/B.Sc.-I | Guru Nanak College, Sri Muktsar Sahib | 8725939749 |
| 74 | Payal | Student | BA/B.Sc.-I | Guru Nanak College, Sri Muktsar Sahib | 8847441306 |
| 75 | Sumanpreet kaur | Student | BA/B.Sc.-I | Guru Nanak College, Sri Muktsar Sahib | 79864 20983 |
| 76 | Sukhpreet Kaur | Student | BA/B.Sc.-III | Guru Nanak College, Sri Muktsar Sahib | 8360125805 |
| 77 | Harmandeep kaur | Student | BA/B.Sc.-III | Guru Nanak College, Sri Muktsar Sahib | 7009788993 |
| 78 | Rajpreet Singh | Student | BA/B.Sc.-I | Guru Nanak College, Sri Muktsar Sahib | 9056342209 |
| 79 | Chahat | Student | BA/B.Sc.-I | Guru Nanak College, Sri Muktsar Sahib | 7696200330 |
| 80 | Gurwinder Kaur | Student | BA/B.Sc.-III | Guru Nanak College, Sri Muktsar Sahib | 9988406169 |
| 81 | Simranjeet kaur | Student | BA/B.Sc.-I | Guru Nanak College, Sri Muktsar Sahib | 8146306712 |
| 82 | Jashanpreet kaur | Student | Other | Guru Nanak College, Sri Muktsar Sahib | 6284988677 |
| 83 | Simran kaur | Student | BA/B.Sc.-I | Guru Nanak College, Sri Muktsar Sahib | 7901837442 |
| 84 | Deepka Rani | Student | BA/B.Sc.-III | Guru Nanak College, Sri Muktsar Sahib | 6280256388 |
| 85 | Deepka Rani | Student | BA/B.Sc.-III | Guru Nanak College, Sri Muktsar Sahib | 6280256388 |
| 86 | Simranjeet kaur | Student | BA/B.Sc.-III | Guru Nanak College, Sri Muktsar Sahib | 7973168378 |
| 87 | Khushi | Student | BA/B.Sc.-II | Guru Nanak College, Sri Muktsar Sahib | 8427841821 |
| 88 | Mehak | Student | BA/B.Sc.-II | Guru Nanak College, Sri Muktsar Sahib | 9781650950 |
| 89 | Amitoj kaur | Student | BA/B.Sc.-II | Guru Nanak College, Sri Muktsar Sahib | 9872788772 |
| 90 | Gaganpreet Kaur | Student | BA/B.Sc.-II | Guru Nanak College, Sri Muktsar Sahib | 97801-07191 |
| 91 | Pawandeep kaur | Student | BA/B.Sc.-I | Guru Nanak College, Sri Muktsar Sahib | 9876992753 |
| 92 | Pawandeep kaur | Student | BA/B.Sc.-I | Guru Nanak College, Sri Muktsar Sahib | 9876992753 |
| 93 | Gaganpreet Kaur | Student | BA/B.Sc.-II | Guru Nanak College, Sri Muktsar Sahib | 97801-07191 |
| 94 | Manpreet kaur | Student | BA/B.Sc.-I | Guru Nanak College, Sri Muktsar Sahib | 9780527679 |

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|-----|---------------------|---------|------------------|--|-------------|
| 95 | Kirti girdhar | Student | BA/B.Sc.- I | Guru Nanak College, Sri Muktsar Sahib | 7657813795 |
| 96 | Seema rani | Student | BA/B.Sc.- I | Guru Nanak College, Sri Muktsar Sahib | 6280001913 |
| 97 | Manpreet Kaur | Student | BA/B.Sc.- III | Guru Nanak College, Sri Muktsar Sahib | 9988848785 |
| 98 | Sukhwinder Kaur | Student | BA/B.Sc.- I | Guru Nanak College, Sri Muktsar Sahib | 9501755089 |
| 99 | Neha | Student | BA/B.Sc.- III | Guru Nanak College, Sri Muktsar Sahib | 6280633817 |
| 100 | Rupinder Kaur | Student | BA/B.Sc.- II | Guru Nanak College, Sri Muktsar Sahib | 98771 01821 |
| 101 | Rupinder Kaur | Student | BA/B.Sc.- II | Guru Nanak College, Sri Muktsar Sahib | 98771 01821 |
| 102 | Harmanjot Singh | Student | BA/B.Sc.- II | Guru Nanak College, Sri Muktsar Sahib | 8360170751 |
| 103 | Rupinder Singh | Student | BA/B.Sc.- I | Guru Nanak College, Sri Muktsar Sahib | 7717320190 |
| 104 | Amanjot kaur | Student | BA/B.Sc.- I | Guru Nanak College, Sri Muktsar Sahib | 7973451108 |
| 105 | Jashanpreet kaur | Student | BA/B.Sc.- II | Guru Nanak College, Sri Muktsar Sahib | 9815212416 |
| 106 | Shruti | Student | Other | Guru Nanak College, Sri Muktsar Sahib | 8872544390 |
| 107 | Shruti | Student | Other | Guru Nanak College, Sri Muktsar Sahib | 8872544390 |
| 108 | Manjot Kaur | Student | BA/B.Sc.- III | Guru Nanak College, Sri Muktsar Sahib | 7814970640 |
| 109 | Keshav jain | Student | BA/B.Sc.- I | Guru Nanak College, Sri Muktsar Sahib | 7717496784 |
| 110 | Harmandeep Kaur | Student | BA/B.Sc.- II | Guru Nanak College, Sri Muktsar Sahib | 7973792063 |
| 111 | Sadhna kaur | Student | BA/B.Sc.- I | Guru Nanak College, Sri Muktsar Sahib | 7657876470 |
| 112 | Amandeep kaur | Student | Other | Guru Nanak College, Sri Muktsar Sahib | 9815781852 |
| 113 | Sharan Deep kaur | Student | Other | Guru Nanak College, Sri Muktsar Sahib | 8968927022 |
| 114 | Arshpreet kaur | Student | BA/B.Sc.- I | Guru Nanak College, Sri Muktsar Sahib | 7.7174E+10 |
| 115 | Arshpreet kaur | Student | BA/B.Sc.- I | Guru Nanak College, Sri Muktsar Sahib | 7717365424 |
| 116 | Gurpreet singh | Student | BA/B.Sc.- I | Guru Nanak College, Sri Muktsar Sahib | 94175 10599 |
| 117 | Poonam Rani | Student | BA/B.Sc.- I | Guru Nanak College, Sri Muktsar Sahib | 8847213180 |
| 118 | Shiv Bajaj | Student | BA/B.Sc.- I | Guru Nanak College, Sri Muktsar Sahib | 9.1946E+11 |

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|-----|-------------------------|---------|--------------|---------------------------------------|-------------|
| 119 | Harcharan singh | Student | BA/B.Sc.-I | Guru Nanak College, Sri Muktsar Sahib | 6239511735 |
| 120 | Sahibjeet Singh Dhillon | Student | BA/B.Sc.-I | Guru Nanak College, Sri Muktsar Sahib | 7347093627 |
| 121 | Shiv Bajaj | Student | BA/B.Sc.-I | Guru Nanak College, Sri Muktsar Sahib | 94634 57221 |
| 122 | Poonam rani | Student | BA/B.Sc.-I | Guru Nanak College, Sri Muktsar Sahib | 8847213180 |
| 123 | Poonam rani | Student | BA/B.Sc.-I | Guru Nanak College, Sri Muktsar Sahib | 847213180 |
| 124 | Damanpreet kaur | Student | BA/B.Sc.-I | Guru Nanak College, Sri Muktsar Sahib | 9855743677 |
| 125 | Damanpreet kaur | Student | BA/B.Sc.-I | Guru Nanak College, Sri Muktsar Sahib | 9855743677 |
| 126 | Jyoti kaur | Student | BA/B.Sc.-III | Guru Nanak College, Sri Muktsar Sahib | 8054502450 |
| 127 | Mukta jain | Student | BA/B.Sc.-III | Guru Nanak College, Sri Muktsar Sahib | 6239420421 |
| 128 | Robindeepkaur | Student | BA/B.Sc.-I | Guru Nanak College, Sri Muktsar Sahib | 8437832632 |
| 129 | Sukhpreet Singh | Student | BA/B.Sc.-III | Guru Nanak College, Sri Muktsar Sahib | 9914526367 |
| 130 | Sameer | Student | BA/B.Sc.-II | Guru Nanak College, Sri Muktsar Sahib | 7973668052 |
| 131 | Sandeep kaur | Student | BA/B.Sc.-I | Guru Nanak College, Sri Muktsar Sahib | 9779062769 |
| 132 | Sandeep kaur | Student | BA/B.Sc.-I | Guru Nanak College, Sri Muktsar Sahib | 9779962769 |
| 133 | Ramandeep Kaur | Student | BA/B.Sc.-III | Guru Nanak College, Sri Muktsar Sahib | 7696716989 |
| 134 | Ramandeep Kaur | Student | BA/B.Sc.-III | Guru Nanak College, Sri Muktsar Sahib | 7696716989 |
| 135 | Nimerveer kaur | Student | BA/B.Sc.-III | Guru Nanak College, Sri Muktsar Sahib | 9872761690 |
| 136 | Khushpreet kaur | Student | BA/B.Sc.-I | Guru Nanak College, Sri Muktsar Sahib | 7340778006 |
| 137 | Armaan singh | Student | BA/B.Sc.-II | Guru Nanak College, Sri Muktsar Sahib | 7087304706 |
| 138 | Khushpreet kaur | Student | BA/B.Sc.-I | Guru Nanak College, Sri Muktsar Sahib | 7340778006 |
| 139 | Khushpreet kaur | Student | BA/B.Sc.-I | Guru Nanak College, Sri Muktsar Sahib | 7340778006 |
| 140 | Khushpreet Kaur | Student | BA/B.Sc.-I | Guru Nanak College, Sri Muktsar Sahib | 7340778006 |
| 141 | Khuspreet kaur | Student | BA/B.Sc.-I | Guru Nanak College, Sri Muktsar Sahib | 7340778006 |
| 142 | Riya | Student | BA/B.Sc.-III | Guru Nanak College, Sri Muktsar Sahib | 7889271491 |

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|-----|------------------|---------|---------------|---------------------------------------|---------------|
| 143 | Khushpreet kaur | Student | BA/B.Sc.- I | Guru Nanak College, Sri Muktsar Sahib | 7340778006 |
| 144 | Tanu | Student | BA/B.Sc.- III | Guru Nanak College, Sri Muktsar Sahib | 62807 - 42843 |
| 145 | Arshnoor singh | Student | BA/B.Sc.- III | Guru Nanak College, Sri Muktsar Sahib | 7529002139 |
| 146 | Khushi | Student | BA/B.Sc.- III | Guru Nanak College, Sri Muktsar Sahib | 9878216557 |
| 147 | NooR | Student | BA/B.Sc.- III | Guru Nanak College, Sri Muktsar Sahib | 6284490061 |
| 148 | Simran | Student | BA/B.Sc.- I | Guru Nanak College, Sri Muktsar Sahib | 6239014641 |
| 149 | Gursimran Singh | Student | BA/B.Sc.- III | Guru Nanak College, Sri Muktsar Sahib | 7814948751 |
| 150 | Akanksha | Student | BA/B.Sc.- III | Guru Nanak College, Sri Muktsar Sahib | 9417514924 |
| 151 | Jashanpreet kaur | Student | BA/B.Sc.- III | Guru Nanak College, Sri Muktsar Sahib | 6284988677 |
| 152 | Ishita | Student | BA/B.Sc.- III | Guru Nanak College, Sri Muktsar Sahib | 9872427850 |
| 153 | Kashish | Student | BA/B.Sc.- III | Guru Nanak College, Sri Muktsar Sahib | 8146732338 |
| 154 | Kashish | Student | BA/B.Sc.- III | Guru Nanak College, Sri Muktsar Sahib | 8146732338 |
| 155 | Shaminder singh | Student | BA/B.Sc.- III | Guru Nanak College, Sri Muktsar Sahib | 7889164392 |
| 156 | Kashish | Student | BA/B.Sc.- III | Guru Nanak College, Sri Muktsar Sahib | 8146732338 |
| 157 | Arshdeep kaur | Student | BA/B.Sc.- I | Guru Nanak College, Sri Muktsar Sahib | 7719658623 |
| 158 | Amritpal singh | Student | BA/B.Sc.- III | Guru Nanak College, Sri Muktsar Sahib | 9464646112 |
| 159 | sukhpreet | Student | BA/B.Sc.- III | Guru Nanak College, Sri Muktsar Sahib | 8360125805 |
| 160 | Ramandeep Kaur | Student | BA/B.Sc.- III | Guru Nanak College, Sri Muktsar Sahib | 7696716989 |
| 161 | Ramandeep kaur | Student | BA/B.Sc.- III | Guru Nanak College, Sri Muktsar Sahib | 7740030656 |
| 162 | Jagtar Singh | Student | Other | Guru Nanak College, Sri Muktsar Sahib | 8528065981 |
| 163 | Shefali Batra | Student | Other | Guru Nanak College, Sri Muktsar Sahib | 9465221540 |
| 164 | Prabhjeet Singh | Student | BA/B.Sc.- I | Guru Nanak College, Sri Muktsar Sahib | 8872415048 |