



Seth G B Podar College, Nawalgarh

Jhunjhunu (Rajasthan) India

Department of Mathematics

Webinar Report



Date	:	05-03-2022
Time	:	12:15 PM onwards
Webinar Platform	:	Google Meet App
Title	:	SOME FUNDAMENTAL CONCEPTS OF DIFFERENTIAL GEOMETRY
Key Note Speaker	:	Dr. GAUREE SHANKER, Professor and Head, Center for Mathematics and Statistics, School of Basic and Applied Sciences, Central University of Punjab Bathinda, Punjab–151001
Attended by	:	All Mathematics Professors, UG and PG Mathematics Students
Distributions	:	IQAC & Principal office

Webinar Report

On 5th March, 2022 a national webinar organized in department of mathematics on “**SOME FUNDAMENTAL CONCEPTS OF DIFFERENTIAL GEOMETRY**” by keynote **Dr. GAUREE SHANKER**, Professor and Head, Center for Mathematics and Statistics, School of Basic and Applied Sciences, Central University of Punjab Bathinda, Punjab.

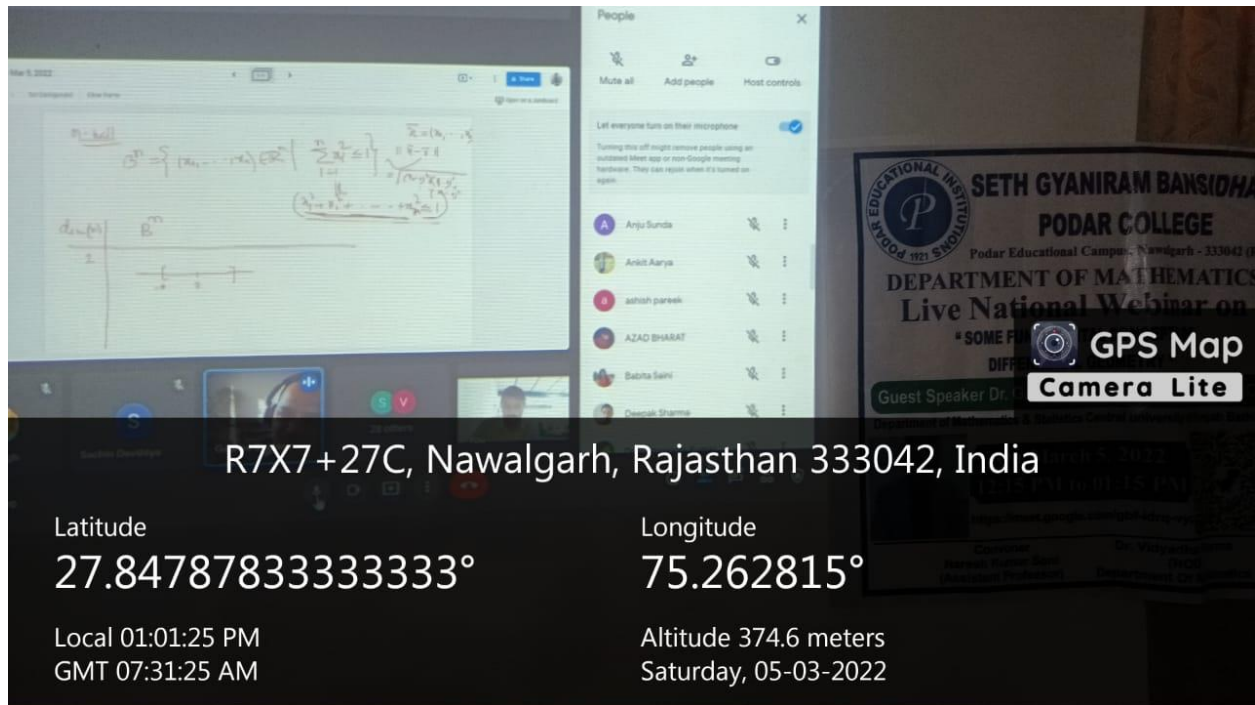
With the encouragement and support from the Anandilal Podar Trust, Nawalgarh. The Seth G.B Podar college organized a webinar on “**SOME FUNDAMENTAL CONCEPTS OF DIFFERENTIAL GEOMETRY**” on March 5, 2022 at 12:15 pm at Dr. Ramnath A. Podar auditorium, around 84 participant including the college Principal, Professors, Associate Professors, Assistant Professors, Ministerial staff and students of U.G and P.G.

The webinar started with the inaugural address by Dr. Satyendra Singh (Principal), Dr. Singh extended his warm welcome to the participants and keynote speaker of webinar.

Dr. Gauree Shanker delivered his presentation on “**SOME FUNDAMENTAL CONCEPTS OF DIFFERENTIAL GEOMETRY**”. He highlighted about the optimization techniques with their formulation, applications, limitations and their computational procedure. He elaborated some special cases in simplex method. He also explained to the students that how optimization techniques are useful in daily life with some surrounding examples. In the end of session, he answered queries from students.

Prof. Vidyadhar Sharma presented the vote of thanks in the end of session.

Some Glimpses of webinar



The image shows a Zoom webinar interface. On the left, a slide displays mathematical content, including the formula $\sigma^2 = \frac{1}{n} \sum_{i=1}^n (x_i - \bar{x})^2$ and a graph of a normal distribution curve. On the right, a 'People' panel lists participants: Anju Sunde, Ankit Arya, ashish pareek, AZAD BHARAT, Babita Saini, and Poojash Sharma. A location overlay at the bottom provides the following details:

R7X7+27C, Nawalgarh, Rajasthan 333042, India

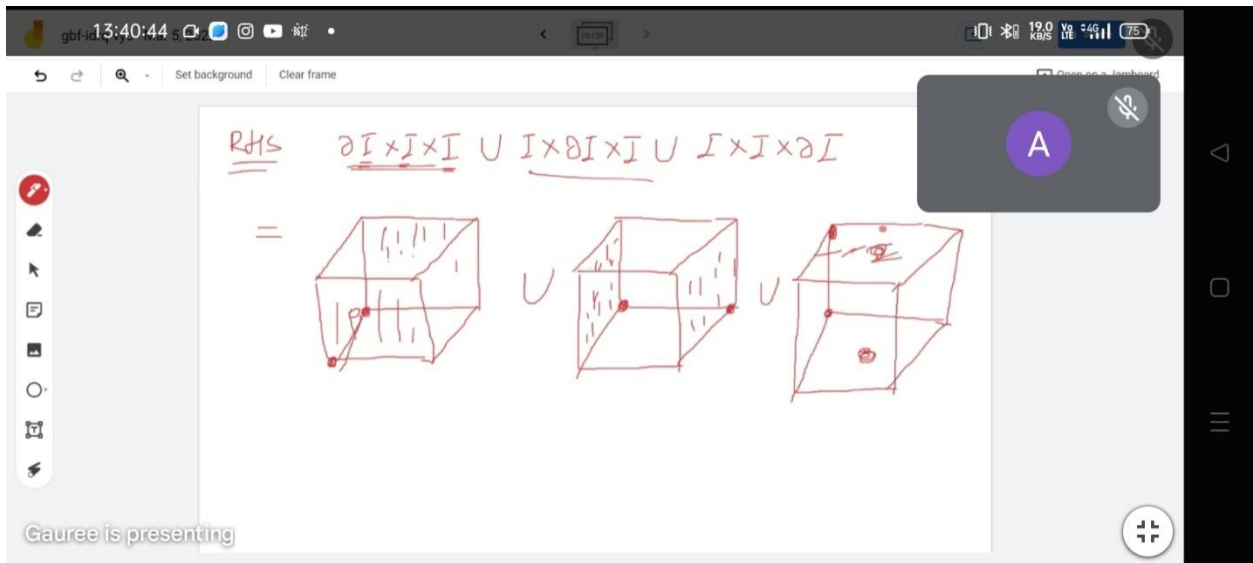
Latitude	Longitude
27.84787833333333°	75.262815°
Local 01:01:25 PM	Altitude 374.6 meters
GMT 07:31:25 AM	Saturday, 05-03-2022

Additional text on the right side of the overlay includes 'Seth Gyaniram Bansidhar Podar College', 'Department of Mathematics', 'Live National Webinar on', 'GPS Map', and 'Camera Lite'.

Delivering online lecture by Dr. Gauree Shanker



Students of M.Sc. Previous and Final



Graphical demonstration of the webinar topic by Dr. Gauree Shanker

13:40:44

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RHS $\partial I \times I \times I \cup I \times \partial I \times I \cup I \times I \times \partial I$

=

Gauree is presenting

Geometrical Representation of the webinar topic by Dr. Gauree Shanker

13:35:38

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RHS $\partial M \times N \cup M \times \partial N$

$\partial(I^m) = \partial(I) \times I \times \dots \times I \cup I \times \partial(I) \times \dots \times I$

Pradeep kumar joined

Geometrical Representation of the webinar topic by Dr. Gauree Shanker

gbf-Idrq-vyc - Mar 5, 2022

14/14

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Torus $T^2 = S^1 \times S^1$ Take

$\partial(\text{Donut}) = \text{Torus}$

Möbius band (Möbius strip)

$\partial(\text{Möbius band}) = \text{circle}$

Gauree is presenting

gbf-Idrq-vyc - Mar 5, 2022

12/12

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dim	(n-1)Sp
1	$S^0 = \{-1, +1\}$
2	S^1 (1-sphere) <u>unit circle</u> $S^1 = \{(x_1, x_2) \in \mathbb{R}^2 \mid \sum_{i=1}^2 x_i^2 = 1\}$
3	S^2 $S^2 = \{(x_1, x_2, x_3) \in \mathbb{R}^3 \mid \sum_{i=1}^3 x_i^2 = 1\}$

Gauree is presenting

Geometrical Representation of the webinar topic by Dr. Gauree Shanker