

**Mathletes-Department of Mathematics  
Lakshmibai College, University of Delhi**

**Teacher In-Charge: Dr. Talat Sultana**

**Title- 2 Days Webinar on Some Topics in Mathematics**

**Day/Date-** Friday And Saturday, 26<sup>th</sup> February-27<sup>th</sup> February, 2021

**Preamble-**

**Participant's Profile-** All the students of the Mathematics Department and Other colleges participated as an active audience

**Description of the Program-** The seminar was organised for all the students of Mathematics Department to explain them about the topics of Real Analysis, Algebra and Multivariate Calculus.

The session was mainly for all the students for making them more and more clear about the concepts in the above mentioned subjects.

During the session, the students were shown presentations and were explained the methods with few examples.

All the students got a chance to interact with the renowned professors of renowned universities.

The Professor 's were:

Dr. Shikah Pandey

Dr. Vishnu Narayan Mishra

**Feedback-** All the students expressed their gratitude to the professors and the faculty members for organizing such an interactive session for them .

**Future Perspective-** The Mathematics Department, Lakshmibai College plans to organize such interactive sessions time to time to help the students to learn more and enhance their skills and to motivate the students to do wonders in the future.


**Photos-**

**MATHLETES, DEPARTMENT OF MATHEMATICS  
LAKSHMIBAI COLLEGE  
UNIVERSITY OF DELHI  
PRESENTS**


## 2 DAYS WEBINAR

ON  
**Some Topics in Mathematics**  
(For Undergraduate Students)

	<b>1:00-2:00 P.M.</b>	<b>2:00-3:00 P.M.</b>
<b>26th FEBRUARY, 2021</b>	<i>Dr. Vishnu Narayan Mishra</i> (REAL ANALYSIS : Infinite Series , Sequence in Real Numbers)	<i>Dr. Shikha Pandey</i> (ALGEBRA : Introduction to Linear Algebra and Application of System of Equations)
<b>27th FEBRUARY, 2021</b>	<i>Dr. Shikha Pandey</i> (MULTIVARIATE CALCULUS : Calculus of functions of several variables)	<b>DISCUSSION AND VALIDATION</b>



**Dr. Vishnu Narayan Mishra**  
Associate Professor and Head,  
Department Mathematics Indira  
Gandhi National Tribal University



**Dr. Shikha Pandey**  
Assistant Professor in School of  
Advanced Sciences at VIT- AP  
University

| 26th and 27th February, 2021 | MS Teams |

Dr. Pratyush Vatsala  
(Principal)

Dr. Talat Sultana  
(TIC, Convener)

FOR MORE INFORMATION, CONTACT:

Bhavika (President) 8447150884	Sawan (Vice President) 9306205630	Devisha (Treasurer) 844715088	Anshika (Secretary) 9650294922	Nikita (Joint Secretary) 9991131039	Kanishka (Cultural Head) 7015983252
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02:29:48

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## FOURIER SERIES

Let  $f$  be a periodic function (signal) of period  $2\pi$  and Lebesgue ( $L_1$ ) integrable over  $[-\pi, \pi]$ , then the Fourier series of  $f$  is

$$\frac{a_0}{2} + \sum_{k=1}^{\infty} (a_k \cos kx + b_k \sin kx) \equiv \sum_{k=0}^{\infty} u_k(x), \text{ (say).}$$

$$f(x) \sim \frac{a_0}{2} + \sum_{k=1}^{\infty} (a_k \cos kx + b_k \sin kx). \quad (2)$$

The constants  $a_k$  and  $b_k$  are called the Fourier coefficients of signal  $f$  and are well known.

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Vishnu Narayan Mishra

+9 SK LK DA LC DC DP VM BA

IB Mansi Chopra Devisha Choudhary Dr. Shikha Pandey Vishnu Narayan Mishra

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Meeting in "General"

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Devisha Choudhary

Dr. Shikha Pandey

**Participants**

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In this meeting (23) Mute all

- BA Bhavika Aggarwal Organizer
- AA Aditya Aggarwal
- A1 Arpita Bansal 19/0525 (CBCS) ... External
- DC Devisha Choudhary
- DP Dr. Shikha Pandey External
- DS Dr. Talat Sultana
- DA Drishti Agrawal
- HS Hari Shankar

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