

SGT UNIVERSITY SHREE GURU GOBIND SINGH TRICENTENARY UNIVERSITY (UGC Approved) Gurugram, Delhi-NCR

Budhera, Gurugram-Badli Road, Gurugram (Haryana) - 122505 Ph.: 0124-2278183, 2278184, 2278185

8th March 2021



SHREE GURU GOBIND SINGH TRICENTENARY UNIVERSITY (UGC Approved)

Gurugram, Delhi-NCR

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SGT University

Online Workshop on "Role of Technology and Some Specific Tools in Research"

28th June - 3rd July, 2021; Cisco-Webex Online Platform

E Brochure-





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Brief Profile of Speakers:

- 1. Dr. Subodh Kesharwani is currently working as an Associate professor at IGNOU
- **2.** Dr. Arko Bagchi is currently working as an Assistant Professor at Faculty of Engineering and Technology (FEAT), SGT University.
- **3.** Dr. Puneet Rana is currently working as an Assistant Professor at School of Mathematical Sciences, College of Science and Technology, Wenzhou-Kean University, China.
- **<u>4.</u>** Dr. Dharmendra Kumar Yadav is currently working at National Institute of Health and Family Welfare, New Delhi.
- **<u>5.</u>** Dr. Vishal Gupta is currently working as a Senior Customer Consultant at Elsevier
- **<u>6.</u>** Dr. Vikas Singh Rawat is currently working as an Associate Editor at Thieme-India, India

<u>Organizers</u>: Academic Association, SGT University in collaboration with Prodigy- A Science Association, Faculty of Sciences, SGT University.

Report of the Program:

Introduction: Technology has become an integral part of the learning process, research and publications. With the implementation of the Common Core Learning Standards, the technical skills and knowledge required for research and academics are more valuable than ever. This workshop is providing the platform for researchers, academicians, and scholars to learn various technical tools and applications to excel in research and development.

Objective of the Event: To develop an understanding of the various technical tools and applications for research and development involving the importance of enforcement of technology in research.

Brief content of event:

DAY 1: 28th June 2021



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The workshop was started on 28th June 2021 at 10.00 am with the inaugural session. Initially, **Prof.** (**Dr.**) **Lakhwinder Singh, Dean, Faculty of Science** introduced the workshop's theme and welcomed all the dignitaries and attendees. He explained the importance of Research in our day-to-day life and the use of different tools used in the research study.

Then the workshop was addressed by **Prof.** (**Dr.**) **Sharif Ahmad, Pro-Vice-Chancellor** (**Research**), **SGT University**, shared his 40 years of research experience and explained how research varied in different decades. He addressed our guest of honor and chief guest and welcomed them on behalf of the SGT fraternity. He also thanked our chairperson for his constant support in different areas of research.

Later, our guest of honor **Prof.** (**Dr.**) **Gayathri Vishwanath Patil, First Director NIPER** – **Hajipur and Former Registrar, Central University of South Bihar, Gaya (Bihar),** shared her 25 years of teaching, research, and administrative experience with all the attendees. She also showed her concern regarding the issues faced by the budding researchers and the required changes in the mindset for exponential growth in research and development.

Then our chief guest, **Prof. Ramesh Chandra**, **Founder Director**, **ACBR**, **University of Delhi and Former Vice-Chancellor**, **Bundelkhand University**, **Jhansi (Uttar Pradesh)**, graced us with his kind words and experience with our attendees. He suggested the essential pathways to grow in teaching as well as in Research. He also mentioned the role of private institutions and their caliber in today's scenario.

Followed by the **Prof. Ramesh Chandra address**, both the guest of honor **Prof. (Dr.) Gayathri Vishwanath Patil and the chief guest Prof. Ramesh Chandra** were felicitated by the SGT University fraternity. At the inaugural session, a vote of thanks was given by **Prof (Dr.) Vijay Sharma**, **HOD Department of Pharmaceutics**, **SGTCOP**, **SGT University**.

Picture of the inauguration ceremony:



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Figure 1: Dr. Vijay welcoming the guests for gracing the event with their presence

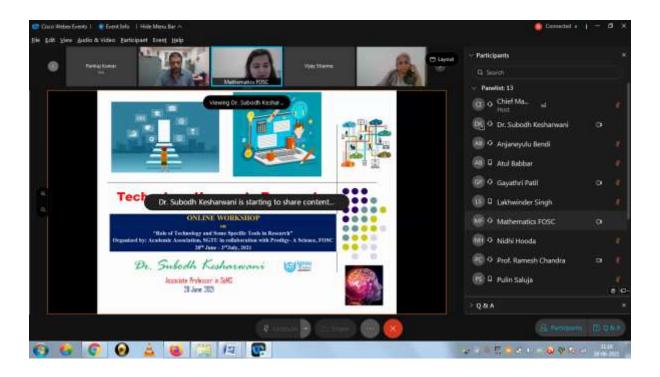


Figure 2: Ms. Shreya Arora, Assistant professor, FOSC, inviting the guest speaker for delivering the lecture



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The first session of the virtual workshop on 28th June 2021 was started at 2.00pm which was chaired by **Prof. Susanta Kundu**, **FEAT**, **SGT University**.

Invited Lecture 1

Title: "Technology Usage in Research"

Speaker: Dr. Subodh Kesharwani, Associate Professor, IGNOU, New Delhi-INDIA

In his talk, he briefly covered the role of technology in the current research and also suggested the useful softwares used in the research.

Vote of Thanks: The vote of thanks for the first day of the workshop was delivered by **Prof. Susanta Kundu, FEAT, SGT University.**



Figure 3: Dr. Subodh Kesharwani delivering the session on "Technology Usages in Research"



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Figure 4: Dr. Subodh Kesharwani delivering the session on "Technology Usages in Research' via case studies

DAY 2: 29th June 2021

Session 2

The session was chaired by Dr. Atul Babbar, Assistant Professor, FEAT, SGT University

Invited Lecture 2

Title: Advancement of Excel in Research"

Speaker: Dr. Arko Bagchi, Assistant Professor, Faculty of Engineering and Technology (FEAT), SGT University.

In his talk, he briefly covered

- Advantages of MS excel
- Basic function of excel
- Data importing
- Data analysis (ANOVA,F test, Correlation,T-test,Regression)
- Descriptive statistics



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Vote of Thanks: The vote of thanks for the second day of the workshop was delivered by Dr. Atul Babbar, Assistant Professor, FEAT, SGT University.



Figure 5: The vote of thanks for the second day of the workshop was delivered by Dr. Atul Babbar, Assistant Professor, FEAT, SGT University.

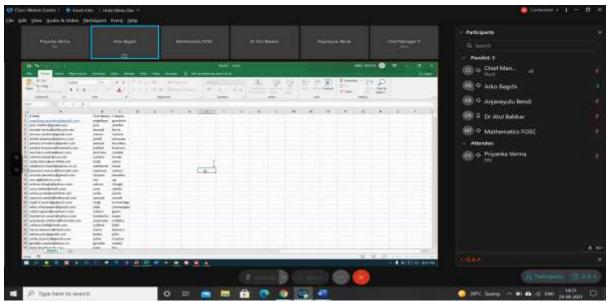


Figure 6: Dr. Arko Bagchi, Assistant Professor, Faculty of Engineering and Technology (FEAT) delivering session on MS Excel



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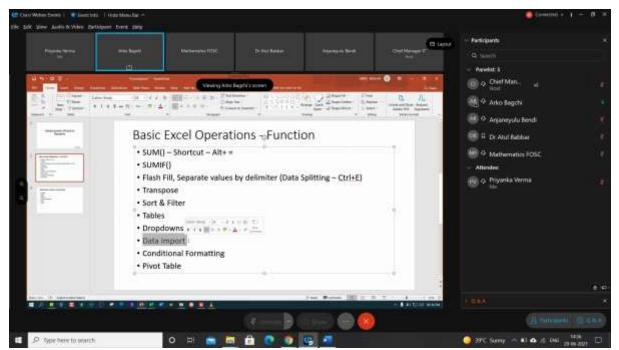


Figure 7: Dr. Arko Bagchi, Assistant Professor, Faculty of Engineering and Technology (FEAT) delivering session on MS Excel-Basic Operations

DAY 3: 30th June 2021

Session 3

The session was chaired by **Dr. Pulin Saluja**, **Associate Professor**, (**Faculty of Dental Sciences**) **FDS**, **SGT University**

Invited Lecture 3

Title: "Learning SPSS Tools"

Speaker: Dr. Dharmendra Kumar Yadav, National Institute of Health and Family Welfare, New Delhi.

In his talk, he briefly covered

- Forecasting using time series analysis
- Time series data and its applications
- Cross sectional data and Panel data



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- Graphical representation of time series using SPSS
- Components of time series (cyclical, seasonal, trend and random)
- Smoothing techniques: Moving averages, exponential Smoothing
- Time series analysis with SPSS: Line diagram, Forcasting

Vote of Thanks: The vote of thanks for the third day of the workshop was delivered by Dr. Pulin Saluja, Associate Professor, FDS, SGT University.

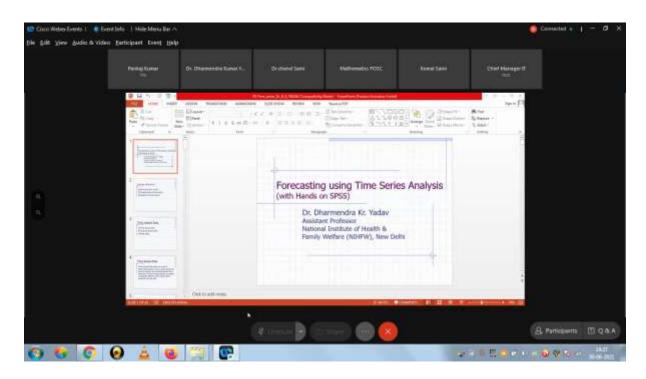


Figure 8: Dr. Dharmendra Kumar Yadav, National Institute of Health and Family Welfare, New Delhi delivering the session on



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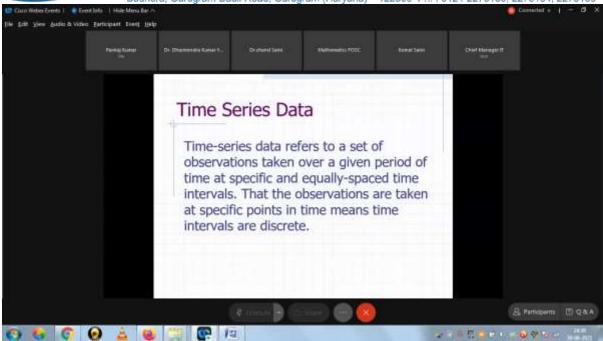


Figure 9: Dr. Dharmendra Kumar Yadav, National Institute of Health and Family Welfare, New Delhi discussing the time series data

DAY 4: 01 July 2021

Session 4

The session was chaired by Dr. Chand Saini, Associate Professor, FCM, SGT University

Invited Lecture 4

Title: "Learning of MATLAB"

Speaker: Dr. Puneet Rana, Assistant Professor, School of Mathematical Sciences, College of Science and Technology, Wenzhou-Kean University, China.

In his talk, he briefly covered

- Introduction to MATLAB primer, books on MATLAB
- Interface of MATLAB like Command window, current folder, workspace and editor window
- Elementary Math built in functions, rules for naming variables
- Creating one dimensional array using linspace and logspace commands
- Matrix operations, solution of a system of equation using MATLAB
- Script files and user defined function



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- Importing and exporting data from excel
- 2D Graphs of function: Combined plot, parametric plot
- Curve fitting ,3D plots and surface plots
- ODE solver

Vote of Thanks: The vote of thanks for the fourth day of the workshop was delivered by Dr. Chand Saini, Associate Professor, FCM, SGT University.

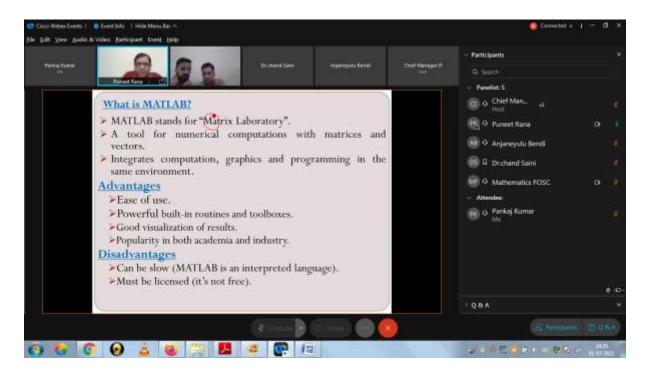


Figure 10: Dr. Puneet Rana, Assistant Professor, School of Mathematical Sciences, College of Science and Technology, Wenzhou-Kean University, China delivering the session on MATLAB



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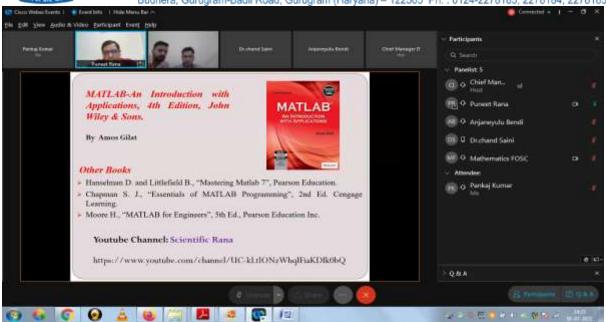


Figure 11: Dr. Puneet Rana, Assistant Professor, School of Mathematical Sciences, College of Science and Technology, Wenzhou-Kean University, China delivering the session on MATLAB-Applications

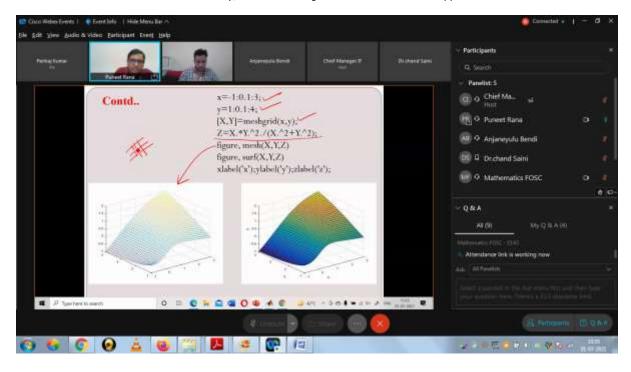


Figure 12: Dr. Puneet Rana, Assistant Professor, School of Mathematical Sciences, College of Science and Technology, Wenzhou-Kean University, China delivering the session on MATLAB-Graph Analysis



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DAY 5: 02 July 2021

Session 5

The session was chaired by Dr. Ravi Tomar, Assistant Professor, Faculty of Sciences (FOSC), SGT University

Invited Lecture 5

Title: "Managing References Made Easy Using Mendeley Reference Manager"

Speaker: Dr. Vishal Gupta, Senior Customer Consultant, Elsevier

In his talk, he briefly covered

- a. Introduction to Elsevier
- b. Elsevier tools
- c. Typical publishing workflow
- d. Reasons for rejection of an article by an editor
- e. How to download and install Mendeley
- f. Adding files on Mendeley, citation process
- g. Elsevier journal finder

Vote of Thanks: The vote of thanks for the fifth day of the workshop was delivered by Dr. Ravi Tomar, Assistant Professor, FOSC, SGT University.



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Figure 13: Dr. Vishal Gupta, Senior Customer Consultant, Elsevier delivering the lecture on " Mendeley"



Figure 14: Dr. Vishal Gupta, Senior Customer Consultant, Elsevier delivering the session on Elsevier platform



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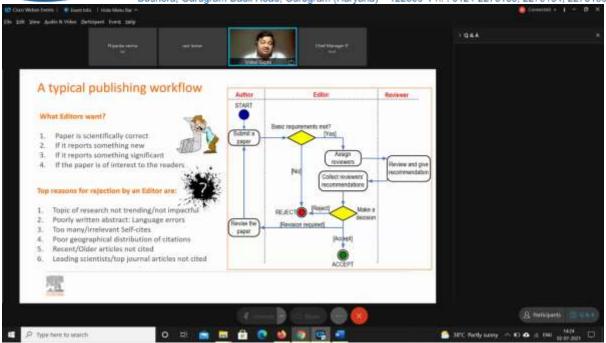


Figure 15: Dr. Vishal Gupta, Senior Customer Consultant, Elsevier delivering the session on Elsevier-publishing flow

DAY 6: 03 July 2021

Session 6

The session was chaired by **Dr. Vinod Kumar**, **Assistant Professor**, **Jawaharlal Nehru University**, **New Delhi**.

Invited Lecture 6

Title: "Science of Synthesis: Best Evaluated Methods in Organic and Organometallic Synthesis"

Speaker: Dr. Vikas Singh Rawat, Associate Editor, Thieme-India

In his talk, he briefly covered

- Introduction to science of synthesis
- How access e SOS
- How to search data base



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Vote of Thanks: The vote of thanks for the fifth day of the workshop was delivered by Dr. Vinod Kumar, Assistant Professor, Jawaharlal Nehru University, New Delhi.

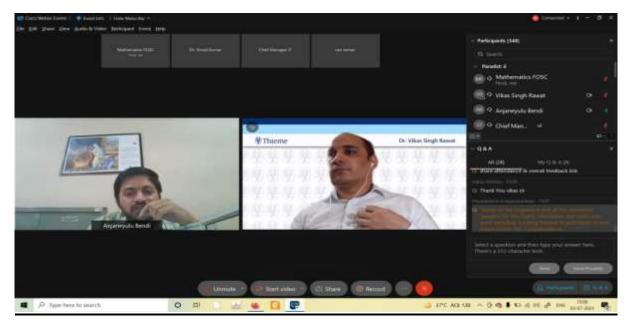


Figure 16: Dr. Vikas Singh Rawat, Associate Editor, Thieme-India, delivering the session on Science of Synthesis



Figure 17: The vote of thanks was delivered by Dr. Vinod Kumar, Assistant Professor, Jawaharlal Nehru University, New Delhi



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A total of 1700+ members were register for this workshop and every day 1000+ participants were attended the same.

All the efforts and hard work of organizing committee went successful. Event was informative and well organized.

Thank you!



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ATTENDANCE SHEET

Online Workshop on"Role of Technology and Some Specific Tools in Research"

Date: 28/06/2021-03/07/2021

S.No	Name of Student	Remark
1.	Parulpanchal	P
2,	Mehakgarg	P
3.	Kashishgautam	P
4.	Mukkapatihimaja	ρ
5.	Prince	0
6.	Khyatisharma	þ
7.	Shalini	ρ
8.	Rahul	P
9.	Bhawnapandit	P
10.	Priyanka sharma	ρ
11.	Anchalgoswami	1
12.	Sakshiparasher	ρ
13.	Muskandagar	P
14.	Lokeshkumar	P
15.	Swingulia	P
16.	Shubhanshu	ρ
17.	Nitesh	P
18.	Jyoti	
19.	Priyanka yadav	ρ
20.	Ekta	P
21.	Aakashverma	6
22.	Anjali sharma	Y
23.	Pooja	P
24.	Manisha	C C
25.	Keshavyadav	en postello e P
26.	Meenu	P
27.	Jayant	P
28.	Poonam	ρ
29.	Alokkumar	P P
30.	Rekhayadav	ρ
31.	Gurjotkaur	P
32.	Anushikayadav	ρ
33.	Annu	
34.	Meghamahanwal	R



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35.	Sameekshaadalal	· ·
36.	Shivani	
37.	Srishti	P
38.	Shakshi	8
39.	Moksha gupta	
40.	Rahul thakur	P
41.	Aishani brahma	ρ
42.	Aman	1
43.	Preeti	P
44.	Nishthakwatra	ρ
45.	Komalkumari	P
46.	Hem aryandagar	8
47.	Rashisharma	8
48.	Keya som	0
49.	Rohittiwari	P
50.	Himanshukumarsinha	
51.	Adityathakur	P
52.	Bandana patel	f
53.	Jhanvi	P
54.	Meghanshigoyal	Ρ
55.	Vishal	P
56.	Garimajoshi	- E
57.	Vrishtisingh	Ţ
58.	Vijay	
59.	Mahakkumar	0
60.	Vidhi	0
61.	Tiyatakshak	
62.	Gymaranya	}
63.	Anshu	
64.	Muskan	P
65.	Deepanshu	
66.	Shakshityagi	P
67.	Aksharagupta	1
68.	Kshitizeshukla	ρ
69.	Isharathi	P
70.	Harsh kakkar	P P
71.	Vivekkumar	P
72.	Digvijayyadav	P
73.	Abhishekrathi	P
74.	Shivanisharma	2
75.	Komal	5
76.	Yogesh	
77.	Mansisehrawat	Y _Q
78.	Tamanayaday	
79.	Srishtiyaday	P



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80.	Ruby dangi	P
81.	Ruchi	e
82.	Bhawnaraiswal	P
83.	Amankumar	P
84.	Karan lotiya	0
85.	Aditihans	0
86.	Yogesh	1
87.	Karri snigdhadevichoudari	0
88.	Hemantkumar	0
89.	Jagriti	0
90.	Bharti	P
91.	Vinita yadav	P
92.	Deepak verma	P
93.	Mansijain	0
94.	Lovely sehrawat	β
95.	Bhavyesinghal	0
96.	Monika sharma	P
97.	Sheekhasharma	P
98.	Shivanisharma	ρ
99.	Shivanisharma	P
100.	Deepshika	P
101.	Shiwalisharma	ρ
102.	Rainanandal	P
103.	Nishatanwar	P
104.	Reemayadav	ρ
105.	Prayasyadav	Ò
106.	Rahul sharma	è
107.	Mahesh kumaryadav	P
108.	Jaya brata panda	P
109.	Priyanka	P
110.	Rozymalik	1
111.	Akankshagwasikoti	P
112.	Arpitbhardwaj	ρ
113.	Sheetal	P
114.	Komalsaini	P
115.	Priyanka yadav	ρ
116.	Himanshi	P
117.	Sheetal	'β
118.	Diksharthsinghdagar	P
119.	Neeti	P
120.	Vikas	6
121.	Himanshi	ſ
122.	Arun	1
123.	Manish kumar	ρ
124.	Ravikarathor	P



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125.	Naziahena	P
126.	Shrijimishra	P
127.	Govind	8.
128.	Tamanna	
129.	Gunjanchauhan	P
130.	Narendersinghtanwar	C
131.	Seema	e.
132.	Sheetalchoudhary	P
133.	Saijalvarishney	-
134.	Vikasrana	ρ
135.	Vartikasharma	P
136.	Narunnayamirahman	- P
137.	Shubham	P
138.	Ishant	ρ
139.	Pooja	ρ
140.	Vikhyaatkumar	e
141.	Gagan	P
142.	Poojadagar	P
143.	Abhilasha	P
144.	Swati	C
145.	Shakshi	0
146.	Mumtaj	ρ
147.	Kulshrestyadav	
48.	Deepika	P
49.	Vishruti	ρ
50.	Deepak	P

Dr. Priyanka Verma



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