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SHREE GURU GOBIND SINGH TRICENTENARY UNIVERSITY

(UGC Approved)

Gurugram, Delhi-NCR

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

**Online Workshop on
Research Methodology-2021
22th-23rd June 2021**



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The Bhaskara Association

Department of Mathematics

Faculty of Science

Online Workshop on Research Methodology-2021

22th-23rd June 2021, 2.00 pm to 4.00 pm



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E Brochure-

THE BHASKARA ASSOCIATION

DEPARTMENT OF MATHEMATICS
FACULTY OF SCIENCE

is organizing an

Online Workshop on

RESEARCH METHODOLOGY - 2021

22nd - 23rd June 2021 | 2:00 PM to 4:00 PM



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RESOURCE PERSONS



PROF. (DR.) K. S. NISAR

Professor
Prince Sattam bin Abdulaziz University
Saudi Arabia



PROF. (DR.) V. N. MISHRA

Professor & Head,
Indira Gandhi National Tribal University
India

Join from the meeting link : <https://bit.ly/3iRaNNg>



Prof. (Dr.) Vikas Dhaswani
Pro Vice-Chancellor (Academics)
SGT University

Prof. (Dr.) Lakhwinder Singh
Dean,
Faculty of Science

Dr. Pradeep Malik,
Associate Professor
HOD

Dr. Mohammad Asim
Assistant Professor
Advisor & Convener



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Brief Profile of Speakers:

- 1.** Dr. K. S. Nisar , Professor, Department of Mathematics, Prince Sattam bin Abdulaziz University, Saudi Arabia
- 2.** Dr. Harish Garg, Associate Professor, Thapar Institute of Engineering and Technology, Patiala, Punjab, India.

Organizer: The Bhaskara Association, Department of Mathematics, Faculty of Science

Report of the Program:

Introduction: Research Methodology is a way to systematically solve a research problem. It is a science of studying how research is done scientifically. Essentially it is the procedure by which the researchers go about their work of describing, evaluating and predicting phenomenon. It aims to give the work plan of research. It provides training in choosing methods materials, scientific tools and techniques relevant to the solution of the problem.

Objective of the Event: Following are the objectives of the workshop.

- (i) To develop skills for writing an effective scientific research article.
- (ii) To decide a suitable journal for submission of a scientific article.
- (iii) To learn removing the Plagiarism.
- (iv) To provide training in choosing methods, material, scientific tools and techniques relevant to the research problem.

a) Brief content of event:

Day 1 of the workshop started with a formal talk of PVC Academics Professor (Dr.) Vikas Dhawan about research and journals. After his talk our resource person Dr. K. S. Nisar began his presentation on development of skills for writing an effective scientific research article. He discussed about various components of a research article like how to write a good abstract, chronology of the content in the abstract and much more. Then he discussed about indexing and ranking of journals and gave many useful ideas about selection of a journal for paper submission. He also shared his thoughts about interdisciplinary research and gave many examples where concepts of pure mathematics were used in Engineering to produce high quality research work.

On day 2, Dr. Harish Gupta explained various types of plagiarism and their consequences. He also gave numerous examples of software that can be used to remove plagiarism. He discussed techniques of paraphrasing and gave valuable information about paper submission.



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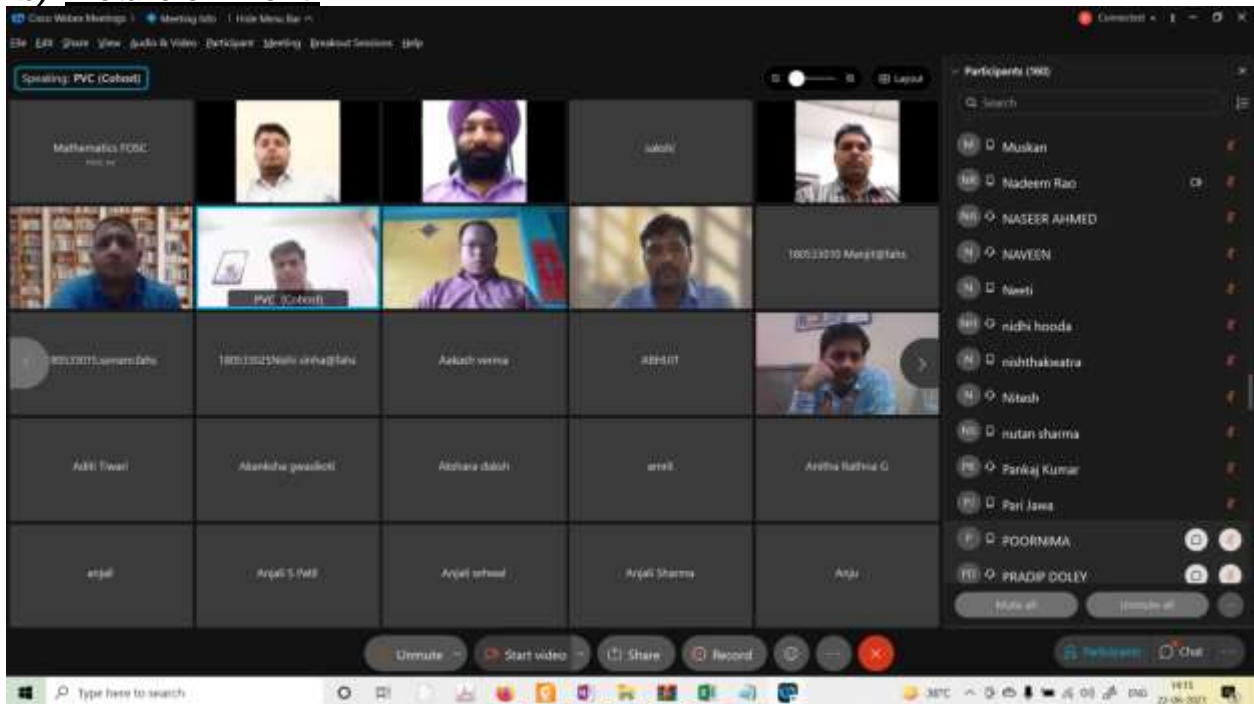
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In the end of session he answered queries of participants related to similarity index, citations and peer review.

b) Picture of Event:



Faculty members attending the workshop on Day-1.



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The screenshot shows a Zoom meeting interface. The main window displays a presentation slide titled "Aims and Scope" with the following bullet points:

- Read the aims and scope of the journal before submission
- Structure your paper based on the aims and scope of the journal.

The right sidebar shows the "Participants" list with 151 attendees and the "Panelists" list with 4 members: Mathematics FO..., Prof. K.S. Nisar, Dr. Gurjit Singh, and Ravi Kumar. The bottom of the screen shows the Windows taskbar with the date 23-06-2021 and time 14:38.

Prof. K.S. Nisar discussing about Aims and Scope of the journal

The screenshot shows a Zoom meeting interface. The main window displays a presentation slide titled "Some Basics-Binary Codes" with the following text:

A binary code represents text, computer processor instructions, or any other data using a two-symbol system. The two-symbol system used is often "0" and "1" from the binary number system.

The right sidebar shows the "Participants" list with 152 attendees and the "Panelists" list with 4 members: Mathematics FO..., Prof. K.S. Nisar, Dr. Gurjit Singh, and Ravi Kumar. The bottom of the screen shows the Windows taskbar with the date 23-06-2021 and time 14:43.

Prof. K.S. Nisar discussing about binary number system



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Prof. K.S. Nisar explaining some data analysis

Some discussion is going on between Dr. Mohammad Asim and Dr. Harish Garg



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The screenshot shows a Zoom meeting interface. At the top, there are buttons for 'Edit', 'Share', 'View', 'Audio & Video', 'Participants', 'Event', and 'Help'. Below these are three participant thumbnails: 'Mathematics FO...', 'Dr. Harsh Gang', and 'Mohammad Asim'. The main window displays a presentation slide titled 'Content:' in pink. The slide contains a flowchart with the following steps: 'Types of Plagiarism and How to Avoid' (orange), 'Consequences of the Plagiarism' (green), 'Paraphrasing strategy' (red), and 'How to find the suitable journal' (blue). The last step lists 'Elsevier/Springer/Wiley/...' in red. The right sidebar shows 'Participants (100)' with a search bar and a list of participants: 'Mathematics FO...', 'Dr. Harsh Gang', and 'Mohammad Asim'. At the bottom, there are buttons for 'Unmute', 'Start video', 'Share', 'Record', and 'More'. The Windows taskbar at the very bottom shows the time as 19:12 on 24-06-2021.

Some discussion is going on about plagiarism and selection of journal

The screenshot shows a Zoom meeting interface. At the top, there are buttons for 'Edit', 'Share', 'View', 'Audio & Video', 'Participants', 'Event', and 'Help'. Below these are three participant thumbnails: 'Mathematics FO...', 'Dr. Harsh Gang', and 'Mohammad Asim'. The main window displays a presentation slide titled 'Paraphrasing plagiarism' in blue and red. The slide contains the following text: 'Paraphrasing means rephrasing a piece of text in your own words.', 'Paraphrasing without citation is the most common type of plagiarism.', 'Paraphrasing itself is not plagiarism so long as you properly cite your sources. However, paraphrasing becomes plagiarism when you read a source and then rewrite its key points as if they were your own ideas.', and 'Additionally, if you translate a piece of text from another language, you need correctly cite the original source.' The right sidebar shows 'Participants (100)' with a search bar and a list of participants: 'Mathematics FO...', 'Dr. Harsh Gang', and 'Mohammad Asim'. At the bottom, there are buttons for 'Unmute', 'Start video', 'Share', 'Record', and 'More'. The Windows taskbar at the very bottom shows the time as 19:12 on 24-06-2021.

Experts are explaining the ethics of citations



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The screenshot shows a Zoom meeting interface. The main window displays a presentation slide titled "Mosaic plagiarism (Patchwork Plagiarism)". The slide text reads: "Mosaic plagiarism (also known as patchwork plagiarism or incremental plagiarism) means copying phrases, passages and ideas from different sources and putting them together to create a new text." Below the text is a diagram showing three boxes labeled "Para 1", "Para 2", and "Copy Paste" with arrows pointing to a larger box on the right. The Zoom interface includes a top bar with "Close Window", "Event Info", and "Hide Menu Bar". The bottom bar shows "Unmute", "Start video", "Share", "Record", and "More". The right sidebar shows "Participants (152)", "Panels (3)", "Q & A", and "Notes".

Discussion is going on Mosaic plagiarism

The screenshot shows a Zoom meeting interface. The main window displays a presentation slide titled "Citing incorrectly". The slide text reads: "The key to avoiding plagiarism is citing your sources. You need to correctly format your citations according to the rules of the citation style you are following. If you don't include all the necessary information or you put it in the wrong place, you could be committing plagiarism." Below the text are two mathematical formulas: $\frac{d}{dx} \left[\frac{1}{x} \right]$ and $\int_0^1 e^{-st} f(t) dt$. The Zoom interface includes a top bar with "Close Window", "Event Info", and "Hide Menu Bar". The bottom bar shows "Unmute", "Start video", "Share", "Record", and "More". The right sidebar shows "Participants (151)", "Panels (3)", "Q & A", and "Notes".

Experts are discussing causes of plagiarism

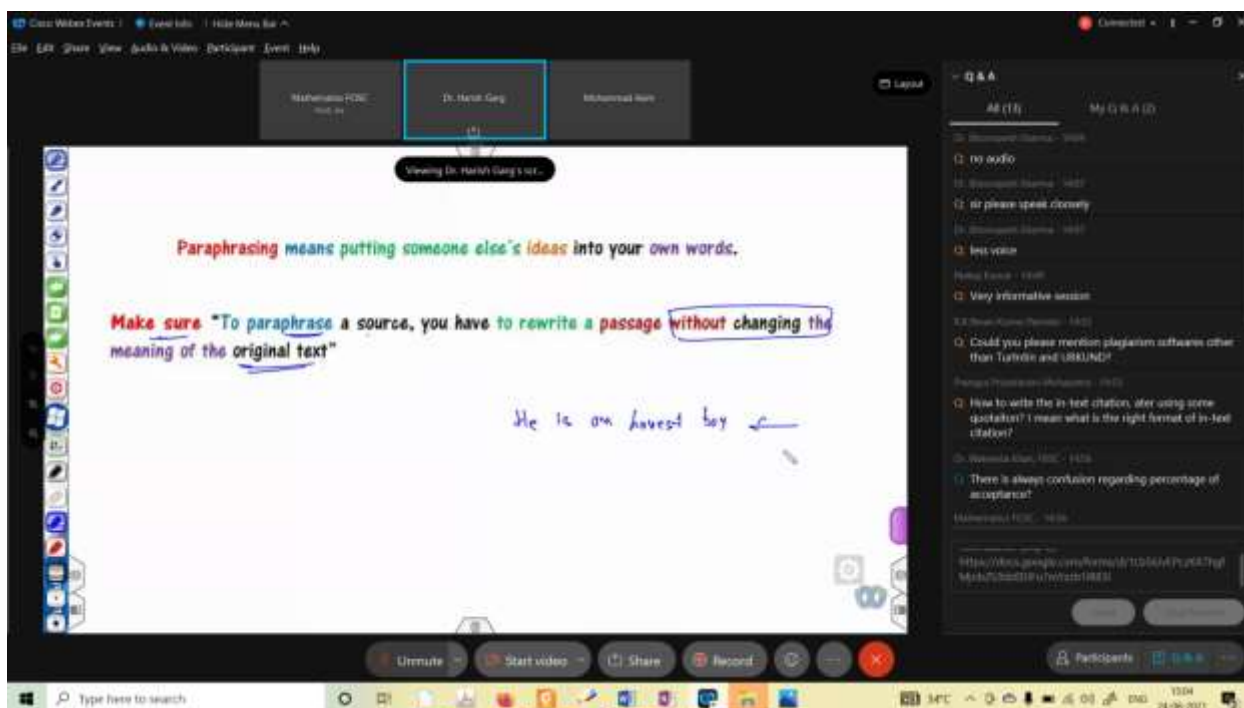


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Experts discussing about paraphrasing a source.

Note: The event was scheduled from 22nd -23rd June 2021 but due to some unavoidable circumstances it gets rescheduled on 23rd -24th June 2021. Also Dr. Harish Garg was the resource person in place of Dr. V. N. Mishra.



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Organising Team:

Prof. (Dr.) Lakhwinder Sing

Dean, Faculty of Science, SGT University

Dr. Pradeep Malik

Associate Professor, Head of the Department, Department of Mathematics
Faculty of Science, SGT University

Dr. Mohammad Asim

Convener, Assistant Professor, Department of Mathematics
Faculty of Science, SGT University

Dr. Nadeem Rao

Co-Convener, Assistant Professor, Department of Mathematics
Faculty of Science, SGT University

Dr. Ravi Tomar

Assistant Professor, Department of Chemistry
Faculty of Science, SGT University



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ATTENDANCE SHEET

Workshop on "Research Methodology-2021"

Date: 22/06/2021-23/06/2021

S.No	Name of Student	Remark
1.	Mansi Jain	
2.	Lovely Schrawat	P
3.	Bhavye Singhal	P
4.	Monika Sharma	P
5.	Sheekha Sharma	P
6.	Shivani Sharma	P
7.	Shivani Sharma	P
8.	Deepshika	P
9.	Shiwali Sharma	P
10.	Raina Nandal	P
11.	Nisha Tanwar	P
12.	Reema Yadav	P
13.	Prayas Yadav	P
14.	Rahul Sharma	P
15.	Mahesh Kumar Yadav	P
16.	Jaya Brata Panda	P
17.	Nitesh	P
18.	Jyoti	P
19.	Priyanka Yadav	P
20.	Ekta	P
21.	Aakash Verma	P
22.	Anjali Sharma	P
23.	Pooja	P
24.	Manisha	P
25.	Keshav Yadav	P
26.	Meenu	P
27.	Jayant	P
28.	Poonam	P
29.	Alok Kumar	P
30.	Rekha Yadav	P
31.	Gurjot Kaur	P
32.	Anushika Yadav	P
33.	Annu	P
34.	Rachna	P
35.	Sonali Yadav	P
36.	Senha Dagar	P
37.	Amrit Lal	P



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	Avnish	
39.	Anjali Rani	
40.	Lokesh Kumar	
41.	Uma Sharma	
42.	Deepika	
43.	Dixy Yadav	
44.	Meenu	
45.	Komal	
46.	Sujeet Yadav	
47.	Tamana Yadav	
48.	Srishti Yadav	
49.	Ruby Dangi	
50.	Ruchi	

Dr. Mohammad Asim