



# University School of Basic & Applied Sciences Guru Gobind Singh Indraprastha University

Sector 16 C, Dwarka, New Delhi 110078

UNIVERSITY SCHOOL OF BASIC AND APPLIED SCIENCES SERIES ON  
**VALUE ADDED COURSES**

## TOOLS AND TECHNIQUES IN BASIC AND APPLIED RESEARCH

December 27 – 31, 2021 (1 week Duration/30 hours)

### Schedule

DAY	10:00AM-1:00PM	1:00PM	2:00 PM-5:00PM
27.12.2021 [MONDAY]	INTRODUCTION TO PROBABILITY AND STATISTICS –I (10:00am -11:30am) Prof. Anu Venugopalan, USBAS  INTRODUCTION TO PROBABILITY AND STATISTICS –II. (11:30am -1:00pm) Dr. Tapan K Jain, USBAS	LUNCH BREAK	TUTORIAL SESSION TUTORIAL-I (2:00pm -3:30pm) APPLICATION OF XRD TECHNIQUE FOR ACADEMIC RESEARCH Dr. Sandeep Nagar, Malvern Panalytical  TUTORIAL – II (3:30pm – 5:00pm) Exercises in Probability and Statistics
28.12.2021 [TUESDAY]	INTRODUCTION TO MODELLING AND SIMULATION –I (10:00am -1:00pm) Prof. B. Biswal Cluster Innovation Centre, University of Delhi	LUNCH BREAK	TUTORIAL SESSION (2:00pm – 5:00pm)
29.12.2021 [WEDNESDAY]	INTRODUCTION TO MODELLING AND SIMULATION –II (10:00am -1:00pm) Prof Prateek sharma HoD, Deptt. Of Sustainable Engineering TERI School of Advanced Studies	LUNCH BREAK	TUTORIAL SESSION (2:00pm – 5:00pm)
30.12.2021 [THURSDAY]	FRACTALS AND COMPLEXITY-I (10:00am -11:30am) Prof. Rashmi Bhardwaj, USBAS  AN INTRODUCTION TO THE WORLD OF DATA SCIENCE USING R AND PYTHON (11:30am -1:00pm) Mr. Soomit Banerjee, Consultant	LUNCH BREAK	FRACTALS AND COMPLEXITY-II (2:00pm -3:30pm) Prof. Rashmi Bhardwaj, USBAS  UNRAVELLING MYSTERIES AND POWERS OF MIND (3:30pm – 5:00pm) Dr. Mohit Dayal Gupta, MD Senior Cardiologist, GB Pant Hospital
31.12.2021 [FRIDAY]	SESSION ON SOFT SKILLS (10:00am -1:00pm)	LUNCH BREAK	Creativity Skills - Playing the game Bharti Dudeja & Vikas Bagri Sri Sathya Sai Organization

#### Contact:

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**Faculty Co-ordinators:** Dr. Tapan K Jain, Associate Professor,  
Dr. Anjana Bagga, Assistant Professor,  
Mr. Mukesh Kumar, Assistant Professor,

**Research Scholar Co-ordinator:** Mr. Mukesh Kumar Bairwa

To Enroll Please Register on this URL:

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