Department   **: Mathematics**
Name/s of the Faculty   **: Sindiya Therese S**
Course Title   **: FASCINATING WORLD OF MATHEMATICS**
Course Code   **: 23MT/GE/WM22**
Shift   **: I**

Week & No. of hours	Units & Topics	Teaching Methodology	Text & References	Method of Evaluation
Jun 19 – 26, 2024 (Day Order 1 - 6) 2 hours	**Unit -2 Mathematical Puzzles and Paradoxes** Magic Squares- Sleeping Beauty Puzzle - Monty Hall Probability Puzzle	Discussion and Interacting with students to come up with different solutions	www.samloyd.com, Mathematical puzzles of Sam Loyd. Wikipedia	Group Discussion
Jun 27 – July 4, 2024 (Day Order 1 - 6) 2 hours	**Unit -2 Mathematical Puzzles and Paradoxes** Three Prisoner Paradox - Boy or Girl Paradox - Missing Square Paradox	Lecture and Interaction with students	Ye.I.P. Perelman, *Mathematics can be Fun*, Mir Publishers Moscow1973, English Translation, 1985, Wikipedia	Group Discussion
July 5 – 12, 2024 (Day Order 1 - 6) 2 hours	**Unit -2 Mathematical Puzzles and Paradoxes** Potato Paradox -Crossword	Lecture and Interaction with students	Kapur J.N., *Mathematical Games for All*, New Delhi, Mathematical Sciences Trust Society, 1998.	Group Discussion
July 15 – 23, 2024 (Day Order 1 - 6) 2 hours	**Unit -2 Mathematical Puzzles and Paradoxes** Number Puzzles by Shakuntala Devi - Zeno's Paradox- Necktie Paradox	Problem Solving and assignments	Shakuntala Devi, *Figuring – The Joy of Numbers*, New Delhi, Orient Paperbacks, 1986.	Group Discussion
July 24 – 31, 2024 (Day Order 1 - 6) 2 hours	**Unit -2 Mathematical Puzzles and Paradoxes** Sorites Paradox - Elevator Paradox - Barber's Paradox	Lecture and Interaction with students	Kapur J.N., *Mathematical Games for All*, New Delhi, Mathematical Sciences Trust Society, 1998.	Problem Assignment
Aug 1 – 5, 2024 (Day Order 1 - 3)	**Unit -1 Insight into some Indian Contribution to Mathematics** Baudhayana - Aryabhata -	Seminar by students	*The Britannica Guide to The History of Mathematics*, USA, Britannica Educational	Questioning

2 hours	Bhaskara I - Shridhara **Third Component 1: Seminar-Unit: 1**		Publishing, 2011	
Aug 6 – 10, 2024	**C.A. Test – I (NA)**			
Aug 12 – 14, 2024 (Day Order 4-6) 1 hour	**Unit -1 Insight into some Indian Contribution to Mathematics** Bhaskara I - Shridhara	Seminar by students	George Gheverghese Joseph, *The Crest of the Peacock Non-European Roots of Mathematics,* Chennai, East-West Press Edition, 1990.	Questioning
Aug 16 – 23, 2024 (Day Order 1-6) 2 hours	**Unit -1 Bhaskara II -** Srinivasa Ramanujan - A.A. Krishnaswami Ayyangar	Seminar by students	Kapur J.N., *Some Eminent Indian Mathematicians of Twentieth Century*, New Delhi, Mathematical Sciences Trust Society, 1994.	Questioning
Aug 27 – Sep 3, 2024 (Day Order 1-6) 2 hours	**Unit -1 P.C. Mahalanobis -** C. R. Rao	Seminar by students	Dependable online resources, Wikipedia	Questioning
Sep 4 – 11, 2024 (Day Order 1-6) 2 hours	**Unit -1 Harish Chandra -** C. S. Seshadri	Seminar by students	Anne Rooney, *The Story of Mathematics*, China, Arcturus Publishing Limited, 2008.	Questioning
Sep 12 - 20, 2024 (Day Order 1- 6) 2 hours	**Unit -1 Sakunthala Devi -** S. R. Srinivasa Varadhan - R. Parimala	Seminar by students	Dependable online resources, Wikipedia	Questioning
Sep 23 - 26, 2024 (Day Order 1-4) 2 hours	**Unit -1 Other Contemporary** Mathematicians	Seminar by students	Dependable online resources, Wikipedia	Questioning
Sep 27 – Oct 3, 2024	**C.A. Test – II (Unit II)**			
Oct 4 – 5, 2024 (Day 5 & 6) 1 hour	**Unit -3 Project** Mathematical Model – Application of Mathematics in real life **Third Component 2: Model Presentation-Unit: 3**	Group Presentation	Dependable online resources, Wikipedia	Model Presentation and Exhibition

Oct 7 - 15, 2024 (Day Order 1 to 6) 2 hours	**Unit -3 Project** Mathematical Model – Application of Mathematics in real life	Audio-Visual Presentation	Dependable online resources, Wikipedia	Model Presentation and Exhibition
Oct 16 - 22, 2024 (Day Order 1 to 6) 2 hours	**Unit -3 Project** Mathematical Model – Application of Mathematics in real life	Power point Presentation	Dependable online resources, Wikipedia	Model Presentation and Exhibition
Oct 23 - 24, 2024 (Day Order 1 to 2)	**REVISION**			