

**Session: 2022-23**

**LESSON PLAN**

**(Odd Semester)**

Name of Assistant Professor: Ms. Neha Rani

Class: B.A. / B.Sc. (Non-medical) I (Semester 1st)

Subject: Calculus

Lesson Plan: From September 2022 to December 2022

01.09.2022 - 07.09.2022	Limit, Continuity, Derivability
08.09.2022 - 14.09.2022	Successive Differentiation
15.09.2022 - 21.09.2022	Some general theorems on differentiable functions and expansions
22.09.2022 - 28.09.2022	Asymptotes
29.09.2022 - 05.10.2022	Curvature and singular points
06.10.2022 - 12.10.2022	Curvature and singular points
13.10.2022 - 21.10.2022	Curve tracing
22.10.2022 - 26.10.2022	<b>Deewali Vacations</b>
27.10.2022 - 02.11.2022	Reduction Formulae
03.11.2022 - 09.11.2022	Rectification
10.11.2022 - 16.11.2022	Rectification
17.11.2022 - 23.11.2022	Quadrature

24.11.2022 - 30.11.2022	Quadrature
01.12.2022 - 07.12.2022	Volumes and surfaces of solids of revolution
08.12.2022 - 14.12.2022	Revision
15.12.2022 - 21.12.2022	Revision
22.12.2022 - 24.12.2022	Revision
<b>25.12.2022    Exam Starts</b>	

**Session: 2022-23**

**LESSON PLAN**

**(Odd Semester)**

Name of Assistant Professor: Ms. Neha Rani

Class: B.A. / B.Sc. (Computer Science) I (Semester 1st)

Subject: Calculus

Lesson Plan: From September 2022 to December 2022

01.09.2022 - 07.09.2022	Limit, Continuity, Derivability
08.09.2022 - 14.09.2022	Successive Differentiation
15.09.2022 - 21.09.2022	Some general theorems on differentiable functions and expansions
22.09.2022 - 28.09.2022	Asymptotes
29.09.2022 - 05.10.2022	Curvature and singular points
06.10.2022 - 12.10.2022	Curvature and singular points
13.10.2022 - 21.10.2022	Curve tracing
22.10.2022 - 26.10.2022	<b>Deewali Vacations</b>
27.10.2022 - 02.11.2022	Reduction Formulae
03.11.2022 - 09.11.2022	Rectification
10.11.2022 - 16.11.2022	Rectification
17.11.2022 - 23.11.2022	Quadrature

24.11.2022 - 30.11.2022	Quadrature
01.12.2022 - 07.12.2022	Volumes and surfaces of solids of revolution
08.12.2022 - 14.12.2022	Revision
15.12.2022 - 21.12.2022	Revision
22.12.2022 - 24.12.2022	Revision
<b>25.12.2022    Exam Starts</b>	

**Session: 2022-23**

**LESSON PLAN**

**(Odd Semester)**

Name of Assistant Professor: Ms. Neha Rani

Class: B.A. / B.Sc. (Non-medical) III (Semester 5th)

Subject: Real Analysis

Lesson Plan: From September 2022 to December 2022

01.09.2022 - 07.09.2022	Riemann Integral
08.09.2022 - 14.09.2022	Riemann Integral
15.09.2022 - 21.09.2022	Riemann Integral
22.09.2022 - 28.09.2022	Improper Integrals and their Convergence
29.09.2022 - 05.10.2022	Improper Integrals and their Convergence
06.10.2022 - 12.10.2022	Integral as a function of a Parameter
13.10.2022 - 21.10.2022	Metric Spaces
22.10.2022 - 26.10.2022	<b>Deewali Vacations</b>
27.10.2022 - 02.11.2022	Open and Closed Sets in Metric Spaces
03.11.2022 - 09.11.2022	Open and Closed Sets in Metric Spaces
10.11.2022 - 16.11.2022	Completeness in Metric Spaces
17.11.2022 - 23.11.2022	Continuity and Uniform Continuity in Metric Spaces

24.11.2022 - 30.11.2022	Compactness in Metric Spaces
01.12.2022 - 07.12.2022	Connectedness in Metric Spaces
08.12.2022 - 14.12.2022	Revision
15.12.2022 - 21.12.2022	Revision
22.12.2022 - 24.12.2022	Revision
<b>25.12.2022    Exam Starts</b>	

**Session: 2022-23**

**LESSON PLAN**

**(Odd Semester)**

Name of Assistant Professor: Ms. Neha Rani

Class: B.A. / B.Sc. (Computer Science) III (Semester 5th)

Subject: Real Analysis

Lesson Plan: From September 2022 to December 2022

01.09.2022 - 07.09.2022	Riemann Integral
08.09.2022 - 14.09.2022	Riemann Integral
15.09.2022 - 21.09.2022	Riemann Integral
22.09.2022 - 28.09.2022	Improper Integrals and their Convergence
29.09.2022 - 05.10.2022	Improper Integrals and their Convergence
06.10.2022 - 12.10.2022	Integral as a function of a Parameter
13.10.2022 - 21.10.2022	Metric Spaces
22.10.2022 - 26.10.2022	<b>Deewali Vacations</b>
27.10.2022 - 02.11.2022	Open and Closed Sets in Metric Spaces
03.11.2022 - 09.11.2022	Open and Closed Sets in Metric Spaces
10.11.2022 - 16.11.2022	Completeness in Metric Spaces

17.11.2022 - 23.11.2022	Continuity and Uniform Continuity in Metric Spaces
24.11.2022 - 30.11.2022	Compactness in Metric Spaces
01.12.2022 - 07.12.2022	Connectedness in Metric Spaces
08.12.2022 - 14.12.2022	Revision
15.12.2022 - 21.12.2022	Revision
22.12.2022 - 24.12.2022	Revision
<b>25.12.2022    Exam Starts</b>	



**Session: 2022-23**

**LESSON PLAN**

**(Odd Semester)**

Name of Assistant Professor: Ms. Neha Rani

Class: B.C.A. I (Semester 1st)

Subject: Mathematical Foundation - I

Lesson Plan: From September 2022 to December 2022

01.09.2022 - 07.09.2022	Sets
08.09.2022 - 14.09.2022	Partially Ordered Sets, Lattices and Boolean Algebra
15.09.2022 - 21.09.2022	Permutations and Combinations
22.09.2022 - 28.09.2022	Limit, Continuity, Derivability
29.09.2022 - 05.10.2022	Limit, Continuity, Derivability
06.10.2022 - 12.10.2022	Differentiation
13.10.2022 - 21.10.2022	Differentiation
22.10.2022 - 26.10.2022	<b>Deewali Vacations</b>
27.10.2022 - 02.11.2022	Differential Equations and Their Formation
03.11.2022 - 09.11.2022	Differential Equations of First Order and First Degree
10.11.2022 - 16.11.2022	Exact Differential Equations
17.11.2022 - 23.11.2022	Linear Differential Equations with Constant Coefficients

24.11.2022 - 30.11.2022	Linear Differential Equations with Constant Coefficients
01.12.2022 - 07.12.2022	Homogeneous Linear Equations
08.12.2022 - 14.12.2022	Revision
15.12.2022 - 21.12.2022	Revision
22.12.2022 - 24.12.2022	Revision
<b>25.12.2022    Exam Starts</b>	

**Session: 2022-23**

**LESSON PLAN**

**(Even Semester)**

Name of Assistant Professor: Ms. Neha Rani

Class: B.A. / B.Sc. (Non-medical) I (Semester 2nd)

Subject: Number Theory and Trigonometry

Lesson Plan: From February 2023 to May 2023

01.02.2023 - 04.02.2023	Divisibility
06.02.2023 - 11.02.2023	Divisibility
13.02.2023 - 18.02.2023	Congruences
20.02.2023 - 25.02.2023	Congruences
27.03.2023 - 04.03.2023	Fermat's, Wilson's and Chinese Remainder Theorem,
05.03.2023 - 12.03.2023	<b>Holi Vacations</b>
13.03.2023 - 18.03.2023	Euler's Function and Residue Systems (mod m)
20.03.2023 - 25.03.2023	Some Functions of Number Theory
27.03.2023 - 01.04.2023	Quadratic Residues and Quadratic Reciprocity Law
03.04.2023 - 08.04.2023	De Moivre's Theorem and its Applications
10.04.2023 - 15.04.2023	Circular Functions of a Complex Variable
17.04.2023 - 22.04.2023	Hyperbolic Functions

24.04.2023 - 29.04.2023	Logarithm of a Complex Quantity
01.05.2023 - 06.05.2023	Inverse Circular and Inverse Hyperbolic Functions
08.05.2023 - 13.05.2023	Summation of series
15.05.2023 - 20.05.2023	Revision
22.05.2023 - 26.05.2023	Revision
<b>27.05.2023    Exam Starts</b>	

**Session: 2022-23**

**LESSON PLAN**

**(Even Semester)**

Name of Assistant Professor: Ms. Neha Rani

Class: B.A. / B.Sc. (Non-medical) III (Semester 6th)

Subject: Real and Complex Analysis

Lesson Plan: From February 2023 to May 2023

01.02.2023 - 04.02.2023	Jacobians
06.02.2023 - 11.02.2023	Jacobians
13.02.2023 - 18.02.2023	Beta and Gamma functions
20.02.2023 - 25.02.2023	Beta and Gamma functions
27.03.2023 - 04.03.2023	Double and triple integral
05.03.2023 - 12.03.2023	<b>Holi Vacations</b>
13.03.2023 - 18.03.2023	Double and triple integral
20.03.2023 - 25.03.2023	Fourier series
27.03.2023 - 01.04.2023	Fourier series
03.04.2023 - 08.04.2023	Calculus of Complex Functions
10.04.2023 - 15.04.2023	Calculus of Complex Functions
17.04.2023 - 22.04.2023	Elementary functions and Mobius transformations

24.04.2023 - 29.04.2023	Elementary functions and Mobius transformations
01.05.2023 - 06.05.2023	Critical Mapping
08.05.2023 - 13.05.2023	Critical Mapping
15.05.2023 - 20.05.2023	Revision
22.05.2023 - 26.05.2023	Revision
<b>27.05.2023    Exam Starts</b>	

**Session: 2022-23**

**LESSON PLAN**

**(Even Semester)**

Name of Assistant Professor: Ms. Neha Rani

Class: B.A. / B.Sc. (Computer Science) III (Semester 6th)

Subject: Real and Complex Analysis

Lesson Plan: From February 2023 to May 2023

01.02.2023 - 04.02.2023	Jacobians
06.02.2023 - 11.02.2023	Jacobians
13.02.2023 - 18.02.2023	Beta and Gamma functions
20.02.2023 - 25.02.2023	Beta and Gamma functions
27.03.2023 - 04.03.2023	Double and triple integral
05.03.2023 - 12.03.2023	<b>Holi Vacations</b>
13.03.2023 - 18.03.2023	Double and triple integral
20.03.2023 - 25.03.2023	Fourier series
27.03.2023 - 01.04.2023	Fourier series
03.04.2023 - 08.04.2023	Calculus of Complex Functions
10.04.2023 - 15.04.2023	Calculus of Complex Functions
17.04.2023 - 22.04.2023	Elementary functions and Mobius transformations

24.04.2023 - 29.04.2023	Elementary functions and Mobius transformations
01.05.2023 - 06.05.2023	Critical Mapping
08.05.2023 - 13.05.2023	Critical Mapping
15.05.2023 - 20.05.2023	Revision
22.05.2023 - 26.05.2023	Revision
<b>27.05.2023    Exam Starts</b>	



**Session: 2022-23**

**LESSON PLAN**

**(Even Semester)**

Name of Assistant Professor: Ms. Neha Rani

Class: B.C.A. I (Semester 2nd)

Subject: Mathematical Foundation - II

Lesson Plan: From February 2023 to May 2023

01.02.2023 - 04.02.2023	Matrices
06.02.2023 - 11.02.2023	Matrices
13.02.2023 - 18.02.2023	Rank of a Matrix
20.02.2023 - 25.02.2023	Application of Matrices to Solution of System of Linear Equations
27.03.2023 - 04.03.2023	Application of Matrices to Solution of System of Linear Equations
05.03.2023 - 12.03.2023	<b>Holi Vacations</b>
13.03.2023 - 18.03.2023	Characteristic Equation of a Matrix
20.03.2023 - 25.03.2023	Characteristic Equation of a Matrix
27.03.2023 - 01.04.2023	Logical Statements and Truth Tables
03.04.2023 - 08.04.2023	Logical Statements and Truth Tables
10.04.2023 - 15.04.2023	Principal of Mathematical Induction

17.04.2023 - 22.04.2023	Groups
24.04.2023 - 29.04.2023	Groups
01.05.2023 - 06.05.2023	Rings, Fields and Ideals
08.05.2023 - 13.05.2023	Rings, Fields and Ideals
15.05.2023 - 20.05.2023	Revision
22.05.2023 - 26.05.2023	Revision
<b>27.05.2023    Exam Starts</b>	

**Session: 2022-23**

**LESSON PLAN**

**(Even Semester)**

Name of Assistant Professor: Ms. Neha Rani

Class: B.Sc. (Computer Science) I (Semester 2nd)

Subject: Number Theory and Trigonometry

Lesson Plan: From February 2023 to May 2023

01.02.2023, 06.02.2023 - 08.02.2023	Divisibility
13.02.2023 - 15.02.2023, 20.02.2023 - 22.02.2023	Divisibility
27.02.2023 - 28.02.2023, 01.03.2023	Congruences
05.03.2023 - 12.03.2023	<b>Holi Vacations</b>
13.03.2023 - 15.03.2023, 20.03.2023 - 22.03.2023	Congruences
27.03.2023 - 29.03.2023, 03.04.2023 - 05.04.2023	Fermat's, Wilson's and Chinese Remainder Theorem
10.04.2023 - 12.04.2023, 17.04.2023 - 19.04.2023	Euler's Function and Residue Systems (mod m)
24.04.2023 - 26.04.2023, 01.05.2023 - 03.05.2023	Some Functions of Number Theory
08.05.2023 - 10.05.2023, 15.05.2023 - 17.05.2023	Quadratic Residues and Quadratic Reciprocity Law
22.05.2023 - 24.05.2023	Revision
<b>27.05.2023 Exam Starts</b>	

**Session: 2022-23**

**LESSON PLAN**

**(Even Semester)**

Name of Assistant Professor: Ms. Neha Rani

Class: B.Com. I (Semester 2nd)

Subject: Elements of Business Mathematics II

Lesson Plan: From February 2023 to May 2023

01.02.2023 - 04.02.2023	Permutations and Combinations
06.02.2023 - 11.02.2023	Permutations and Combinations
13.02.2023 - 18.02.2023	Binomial Theorem
20.02.2023 - 25.02.2023	Binomial Theorem
27.03.2023 - 04.03.2023	Linear Inequalities in Two Variables,
05.03.2023 - 12.03.2023	<b>Holi Vacations</b>
13.03.2023 - 18.03.2023	Linear Programming
20.03.2023 - 25.03.2023	Linear Programming
27.03.2023 - 01.04.2023	Linear Programming
03.04.2023 - 08.04.2023	Data-Introduction
10.04.2023 - 15.04.2023	Classification and Tabulation
17.04.2023 - 22.04.2023	Diagrammatic Representation of Data

24.04.2023 - 29.04.2023	Diagrammatic Representation of Data
01.05.2023 - 06.05.2023	Graphical Representation of Data
08.05.2023 - 13.05.2023	Graphical Representation of Data
15.05.2023 - 20.05.2023	Revision
22.05.2023 - 26.05.2023	Revision
<b>27.05.2023    Exam Starts</b>	