



**MARUDHAR KESARI JAIN COLLEGE FOR WOMEN (AUTONOMOUS)
VANIYAMBADI**



PG & RESEARCH DEPARTMENT OF MATHEMATICS

BRIDGE COURSE SYLLABUS 2024 – 2025

Course Name: Fundamentals of Mathematics

Learning Objectives		
LO1	Basic Maths and Formulas	
LO2	Algebra Expressions and Trigonometry Functions	
LO3	To know about Differentiation and coordinates	
LO4	To solve Numerical Problems	
LO5	To know about the scope & importance of mathematics	
Unit	Contents	No.ofHours
I	Basic Mathematics Numbers – Basic formula's – Basic Shapes – Nomenclature – Laws of indices	15
II	Algebra & Trigonometry Formulas on Progression – Formulas on Permutation and Combination – Formula on Series - Elementary Techniques – Matrices – Radius – Euler Formula – Hyperbolic Function – Special Triangles.	
III	Calculus & Analytical Geometry Derivatives – Differential Co-efficient – Basic Formulas – Co-Ordinates – Length – Slope – Angle between Lines – Various Forms of Straight Line – Circles.	
IV	Numerical Methods Finite Difference – Interpolation – Forward and Backward Difference – Difference Operators.	
V	Values of Mathematics Scope of Mathematics – Important of Maths in different fields– Recent Technologies-Placement Opportunities	

COURSE OUTCOMES	
CO1	To understand the foundation of mathematics
CO2	Able to perform well in higher education mathematics
CO3	Able to write and understand basic proofs
CO4	To develop skill of solving numerical problems
CO5	To know about the scope & importance of mathematics

Reference Materials:

1.NCERT class XI and XII textbooks.
2.Any State Board Mathematics textbooks of class XI and XII
3.Any State Board Mathematics textbooks of class XI
4.Any State Board Mathematics textbooks of class XII
5.Bridge course in Mathematics, Part-1, Edited by R. S. Sharma (IIT Delhi)

SCHEME OF EVALUATION

MULTIPLE CHOICE QUESTIONS

TOTAL MARKS :50

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HOD 25/9/24

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PG & RESEARCH DEPARTMENT OF MATHEMATICS

Bridge Course – Time Table (2024-2025)

CLASS : I B.Sc MATHEMATICS

DATE : 20.06.2024 – 26.06.2024

Hour Day Order	1	2	3	4	5	6
DAY 1	Algebra & Trigonometry C.Nithya	Calculus & Analytical Geometry G.Aruna	Numerical Methods N.Mahalakshmi	Communicative English	Sports	Communicative English
DAY 2	Basic Mathematics G.Shenbagavalli	Communicative English	Algebra & Trigonometry C.Nithya	Sports	Numerical Methods N.Mahalakshmi	Communicative English
DAY 3	Communicative English	Basic Mathematics G.Shenbagavalli	Communicative English	Values of Mathematics S.Semmalar	Sports	Numerical Methods N.Mahalakshmi
DAY 4	Communicative English	Values of Mathematics S.Semmalar	Calculus & Analytical Geometry G.Aruna	Communicative English	Basic Mathematics G.Shenbagavalli	Sports
DAY 5	Communicative English	Algebra & Trigonometry C.Nithya	Communicative English	Calculus & Analytical Geometry G.Aruna	Sports	Values of Mathematics S.Semmalar

S. Senthil
23/9/24
HOD

A. Senthil
23/9/24
DEAN

Principal
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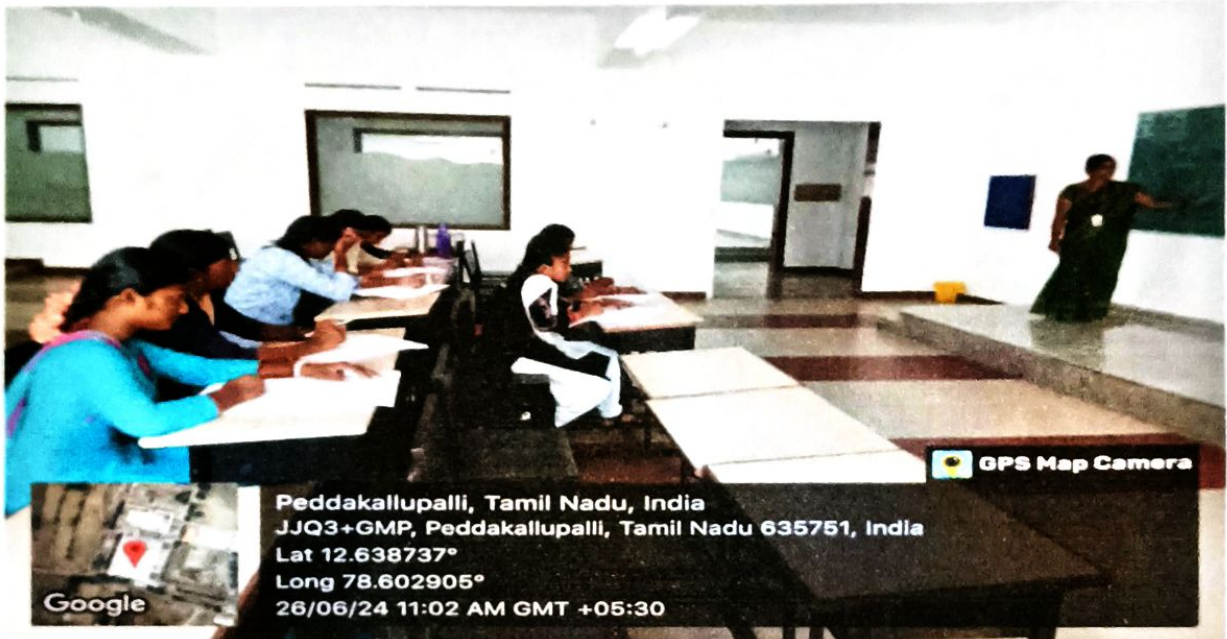
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PG & RESEARCH DEPARTMENT OF MATHEMATICS

BRIDGE COURSE PHOTOS

2024 - 2025



S. Suresh
HOD
23/9/24

DEAN
23/9/24

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PG & Research Department of Mathematics
Bridge Course Attendance



Academic Year :2024-2025

Class: I B.Sc.Maths

Course Name : Fundamentals of Mathematics

S.No	Name of the Student	Signature				
		20.06.2024	21.06.2024	24.06.2024	25.06.2024	26.06.2024
1	Arulmathi. V	Y. Arulmathi	Y. Arulmathi	Y. Arulmathi	Y. Arulmathi	Y. Arulmathi
2	Charmi. L	charmi	charmi	charmi	charmi	charmi
3	Deepika. S	Deepika S	Deepika S	Deepika S	Deepika S	Deepika S
4	Elakiya K	elaky. k	elaky. k	elaky. k	elaky. k	elaky. k
5	Harini. D	D. Harini	D. Harini	D. Harini	D. Harini	D. Harini
6	Kaameni. J	02.05.10.00	02.05.10.00	02.05.10.00	02.05.10.00	02.05.10.00
7	Keerthika. V	Keerthika	Keerthika	Keerthika	Keerthika	Keerthika
8	Mahalakshmi. N	N. Mahalakshmi	N. Mahalakshmi	N. Mahalakshmi	N. Mahalakshmi	N. Mahalakshmi
9	Monika. M	m. monika	m. monika	m. monika	m. monika	
10	Monika. V	Monika. v	Monika. v	Monika. v	Monika. v	Monika. v
11	Navaneetha. D	Navaneetha. D	Navaneetha. D	Navaneetha. D	Navaneetha. D	Navaneetha. D
12	Nethra. V	Nethra. v	Nethra. v	Nethra. v	Nethra. v	Nethra. v
13	Nithyasri. V	V. Nithyasri	V. Nithyasri	V. Nithyasri	V. Nithyasri	V. Nithyasri
14	Zuha Zuharain. S	Zuha Zuharain	Zuha Zuharain	Zuha Zuharain	Zuha Zuharain	Zuha Zuharain

S. Suresh
25/9/24
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Marudhar Kesari Jain College for Women (Autonomous) Vaniyambadi
PG & Research Department of Mathematics
Bridge Course Feedback



Academic Year :2024-2025

Class: I B.Sc.Maths

Course Name : Fundamentals of Mathematics

S.No	Name of the Student	Feedback
1	Arulmathi. V	It is very useful to recall the base formulae
2	Charmi. L	I learned new and recalled.
3	Deepika. S	I had learn something new.
4	Elakiya K	I learnt different Methods
5	Harini. D	It is helped to me to recall the formulae.
6	Kaameni. J	It helped to recall the basic formulas.
7	Keerthika.V	Shortcuts I learnt
8	Mahalakshmi.N	I gained knowledge by this course
9	Monika.M	I had new Subject formula.
10	Monika.V	The Recalled the basic formulae.
11	Navaneetha.D	Useful Course of Bridge mathematics
12	Nethra.V	It is useful to recall the basics
13	Nithyasri. V	It is very useful to recall the formula
14	Zuha Zuharain. S	It helped to revise all my 12 th 9 th

J. Sen
25/9/24
HOD

A. S. S.
25/9/24
DEAN

M. S. S.
25/9/24
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