

**Sri A.S.N.M GOVERNMENT COLLEGE (A),
PALAKOL,W.G.DT.**



DEPARTMENT OF MATHEMATICS

**CERTIFICATE COURSE IN
MATHEMATICS**

(2022-2023)

“BASIC MATHEMATICS”

COURSE COORDINATOR

Sri.K.SIVA KRISHNA, Lecturer in Mathematics

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Minutes of the meeting

The Department of Mathematics staff held meeting on 17-10-2022 and passed resolution to organize certificate course that is on Basic Mathematics under the guidelines of Sri G.Srinivasa Rao , In-Charge of Mathematics for 30 working days.

The certificate course in **Basic Mathematics** was organized from 18-10-2022 to 24-11-2022 for the academic year 2022-2023 to the II B.Sc. students under curriculum enrichment programme.

Signature of the staff Members :

Sri G.SRINIVASA RAO, In-Charge of Mathematics

B.K.V. RAMA LAKSHMI, Contract lecturer in Mathematics

K.SIVA KRISHNA, Contract Lecturer in Mathematics

D.R.R.SUDHAKAR, Guest Lecturer in Mathematics

Signature of the Principal

Report on Certificate course Basic Mathematics

Introduction:

Department of Mathematics conducted a Certificate Course in Basic Mathematics during the academic year 2022-2023 under curriculum enrichment Programme.

Basic Mathematics is the part of Mathematics devoted to the study of basic objects. Here discrete means consisting of distinct or unconnected elements. The kinds of problems solved using discrete mathematics include:

There are several important reasons for studying discrete mathematics. This course can develop mathematical maturity, that is ability to understand and create mathematical arguments. Students will not get very far in their studies in the Mathematical sciences without these skills

Basic Mathematics is the gateway to more advanced courses in all parts of the Mathematical sciences. Basic Mathematics provides the Mathematical foundations for many computer science courses including *data structures, algorithms, database theory, computer security and operating systems*

Math courses based on the material studied in Basic mathematics include *Matrix Operations, Determinant of Matrix*.

Course Objectives:

A Basic Mathematics course has more than one purpose. Students should learn a particular set of mathematical facts and how to apply them. More importantly this course should teach students how to think logically and mathematically.

- To introduce the concepts of Matrix Operations.
- To introduce the concepts Determinant of Matrices.
- To perform the operations associated with the Sets, Functions and Relations.

Learning Outcomes of Basic Mathematics

Be able to draw and interpret Matrix Operations and use operations to solve problems. Recognize when set theory is applicable to real life situations, Solve real life problems and communicate real life problems and solutions to other.

**List of students enrolled in Certificate course on
Basic Mathematics:II B.Sc.(MPCs)& II B.Sc.(MSDs)
(18-10-2022 to 24-11-2022) 30 days from 3:10PM to 4:00 PM**

S.No	Regd No.	Name of the student	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
			18/10	20/10	21/10	22/10	25/10	26/10	27/10	28/10	29/10	31/10	01/11	02/11	03/11	04/11	05/11
1	2126001	A.Karuna Kumari	p	p	p	p	p	A	A	P	A	P	P	P	A	P	P
2	2126002	B.Balaji	P	A	P	A	A	P	P	A	P	P	A	A	P	P	P
3	2126004	K.Bhavyasri	p	p	p	p	p	p	p	p	A	p	p	p	p	p	p
4	2126005	M.Sai Kiran	p	p	p	A	p	p	p	A	p	p	p	p	A	p	p
5	2126006	R.Maheswari	p	p	p	p	p	p	p	p	p	p	p	p	p	p	p
6	2122001	A .Gayathri	p	p	A	p	p	p	A	p	p	p	p	A	p	A	p
7	2122003	B.Sowmya	p	A	p	A	p	p	A	p	p	p	A	p	p	p	p
8	2122004	B.Pravallika	p	A	p	p	A	p	p	A	p	p	p	p	A	p	p
9	2122007	D.Lathasri	p	p	p	A	A	p	p	p	p	A	p	p	A	p	p
10	2122009	G.Harika	p	A	p	p	A	A	p	p	p	A	p	p	p	A	p
11	2122012	K.Bhuvaneswari	p	p	p	p	p	p	A	p	p	p	p	A	p	p	p
12	2122014	L.Sowmya	p	p	p	p	p	p	p	p	p	p	p	p	p	p	p
13	2122015	M.Haresh	p	A	p	p	p	p	p	A	p	p	p	A	p	p	p
14	2122016	M.Murali Kalyan	p	p	p	p	p	p	p	p	p	p	p	p	p	p	p
15	2122019	N.Sri Dhana Lakshmi	p	A	p	A	p	p	p	p	p	p	A	p	p	p	p
16	2122021	P.S.Jasmin	p	p	p	p	p	p	p	p	p	p	p	p	p	p	p
17	2122022	P.Bhanu sri	p	p	A	p	p	p	A	p	p	p	A	p	p	p	p
18	2122023	P.Jahnavi	p	p	p	p	p	p	p	p	p	p	p	p	p	p	p
19	2122024	PSSP Sri Lavanya	p	A	p	p	A	p	p	p	A	p	p	p	p	A	p
20	2122026	P.A.N.V. Durga Sai	p	p	p	p	p	p	p	A	p	p	p	p	p	p	p
21	2122030	U.Anitha Kumari	p	p	A	p	p	p	p	p	p	p	p	A	p	p	p
22	2122031	V.Harish Kumar	p	A	p	p	p	p	p	A	p	p	p	p	A	p	p
23	2122032	Y.Sonia	p	p	p	p	p	p	A	p	p	p	p	p	p	p	p
24	2122005	B.Jyothi Kiran	p	p	p	p	p	p	p	p	p	p	p	p	A	p	p

S.No	Regd No.	Name of the student	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
			07/11	08/11	09/11	10/11	11/11	14/11	15/11	16/11	17/11	18/11	20/11	21/11	22/11	23/11	24/11
1	2126001	A.Karuna Kumari	p	p	p	p	p	A	A	P	A	P	P	P	A	P	P
2	2126002	B.Balaji	p	A	P	A	A	P	P	A	P	P	A	A	P	P	P
3	2126004	K.Bhavyasri	p	p	p	p	p	p	p	p	A	p	p	p	p	p	p
4	2126005	M.Sai Kiran	p	p	p	A	p	p	p	A	p	p	p	p	A	p	p
5	2126006	R.Maheswari	p	p	p	p	p	p	p	p	p	p	p	p	p	p	p
6	2122001	A .Gayathri	p	p	A	p	p	p	A	p	p	p	p	A	p	A	p
7	2122003	B.Sowmya	p	A	p	A	p	p	A	p	p	p	A	p	p	p	p
8	2122004	B.Pravallika	p	A	p	p	A	p	p	A	p	p	p	p	A	p	p
9	2122007	D.Lathasri	p	p	p	A	A	p	p	p	p	A	p	p	A	p	p
10	2122009	G.Harika	p	A	p	p	A	A	p	p	p	A	p	p	p	A	p
11	2122012	K.Bhuvaneswari	p	p	p	p	p	p	A	p	p	p	p	A	p	p	p
12	2122014	L.Sowmya	p	p	p	p	p	p	p	p	p	p	p	p	p	p	p
13	2122015	M.Haresh	p	A	p	p	p	p	p	A	p	p	p	A	p	p	p
14	2122016	M.Murali Kalyan	p	p	p	p	p	p	p	p	p	p	p	p	p	p	p
15	2122019	N.Sri Dhana Lakshmi	p	A	p	A	p	p	p	p	p	p	A	p	p	p	p
16	2122021	P.S.Jasmin	p	p	p	p	p	p	p	p	p	p	p	p	p	p	p
17	2122022	P.Bhanu sri	p	p	A	p	p	p	A	p	p	p	A	p	p	p	p
18	2122023	P.Jahnavi	p	p	p	p	p	p	p	p	p	p	p	p	p	p	p
19	2122024	PSSP Sri Lavanya	p	A	p	p	A	p	p	p	A	p	p	p	p	A	p
20	2122026	P.A.N.V. Durga Sai	p	p	p	p	p	p	p	A	p	p	p	p	p	p	p
21	2122030	U.Anitha Kumari	p	p	A	p	p	p	p	p	p	p	p	A	p	p	p
22	2122031	V.Harish Kumar	p	A	p	p	p	p	p	A	p	p	p	p	A	p	p
23	2122032	Y.Sonia	p	p	p	p	p	p	p	p	p	p	p	p	p	p	p
24	2122005	B.Jyothi Kiran	p	p	p	p	p	p	A	p	p	p	p	p	p	A	p

Course Syallabus

SYLLABUS :

UNIT-1: Matrix Algebra(12 Hrs)

Introduction-Definition- Types of Matrices- Scalar multiplication of matrix-Equality of matrices-Matrix operations-Addition and Subtraction

UNIT-2: Matrix Multiplication (10 Hrs)

Multiplication of Matrices- Properties-Transpose of Matrix- Determinants of a square matrix-Determinants of order two.

UNIT-3: Arithmetic Progression(08 Hrs)

Finding general terms of Arithmetic Progression- Sum of finite numbers of terms in Arthematic Progression-Arithmetic means- To insert 'n ' terms between two given quantities in Arithmetic Progression.

Prescribed Text book:

Business Mathematics

by

D.C.Sancheti,V.K. Kapoor

S.Chand &sons Publications, 2000 edition

Marks obtained in Basic Mathematics Exam

Date: 02-12-2022

S.No	Regd. No	Name of the Student	Marks Obtained
1	2126001	A.Karuna Kumari	42
2	2126002	B.Balaji	44
3	2126004	K.Bhavyasri	42
4	2126005	M.Sai Kiran	38
5	2126006	R.Maheswari	40
6	2122001	A .Gayathri	41
7	2122003	B.Sowmya	43
8	2122004	B.Pravallika	32
9	2122007	D.Lathasri	40
10	2122009	G.Harika	40
11	2122012	K.Bhuvaneswari	42
12	2122014	L.Sowmya	40
13	2122015	M.Haresh	42
14	2122016	M.Murali Kalyan	41
15	2122019	N.Sri Dhana Lakshmi	38
16	2122021	P.S.Jasmin	45
17	2122022	P.Bhanu sri	41
18	2122023	P.Jahnavi	42
19	2122024	PSSP Sri Lavanya	40
20	2122026	P.A.N.V. Durga Sai	42
21	2122030	U.Anitha Kumari	40
22	2122031	V.Harish Kumar	32
23	2122032	Y.Sonia	42
24	2122005	B.Jyothi Kiran	39

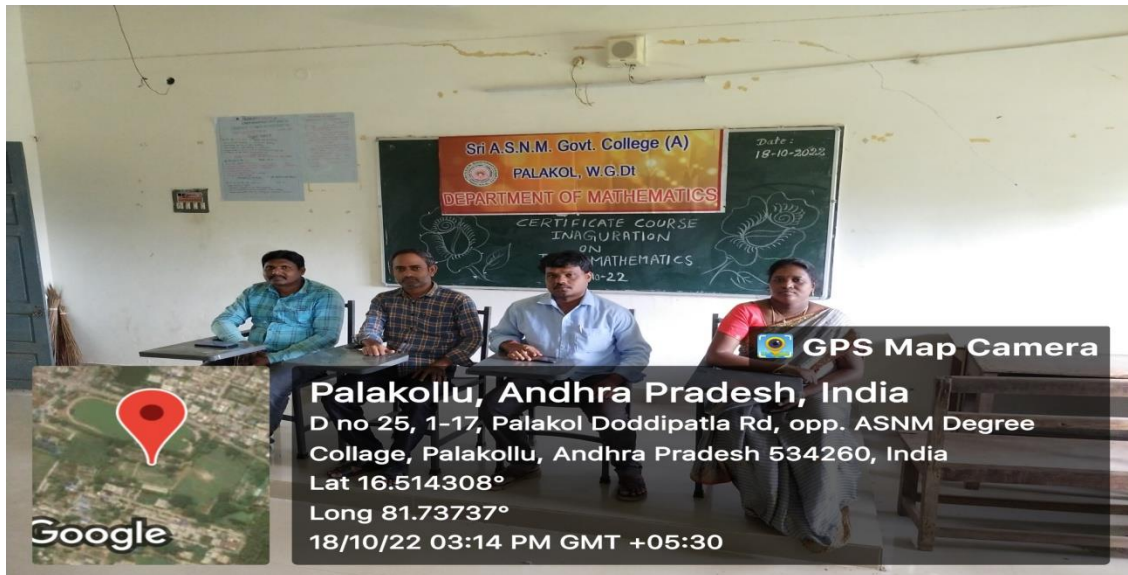
Other Details:

Duration of Course	:	30 Hours
Classes starting Date	:	18-10-2022
Classes ended Date	:	24-11-2022
Exam conducted on	:	02-12-2022
Classes Timings	:	3:10 PM – 04:00 PM
Resource Persons	:	1. Sri K. Siva Krishna 2. Smt. B.K.V Rama Lakshmi 3. Sri. D.R.R Sudhakar

Conclusion :

This certificate course develops the mathematical basic concepts and technique which should serve as a preparation for more advanced quantitative courses.

PROGRAM INAUGURATION PHOTOS



Certificate Course
Notice

17/10/22

Dear Students,

The Department of Mathematics conducting a certificate course on "Basic Mathematics" to the second year students of BSc classes will be started from 18/10/22. Timings from 3.10 to 4.00pm. So interested students enroll your names in this course. More details contact: Department of Mathematics

Staff Members

1. B. K. V. Ramalesh
2. K. Sridhar
3. D. B. B. Sudhakar

sign of Incharge. K. Sridhar

18/10/22
PRINCIPAL

Sri A.S.N.M. GOVT. COLLEGE
PALAKOL-534 260, W.G.DIS

II BSC(MPCS): BSJ

II BSC(MSDS): BSJ

18-10-2022

The Department of Mathematics conducted Inauguration programme of Certificate course in mathematics on "Basic mathematics" on 18-10-2022 at 3:15 PM in Room No-25. Sri G. Srinivas Rao, Vice principal of this college was chairperson of this function and he delivered message to the students about the Certificate course.

Signature of Staff members

DB: v parallel

2) K. Sivakumar

3) D.R.R. Sudhakar

25mm
18/20/1

PRINCIPAL

Sri A.S.N.M. GOVT. COLLEGE
PALAKOL-531 3 . W.G.D.S

S.No	Name of the Student	class	Signature
1	R. Maheswarai	II nd B.SCC(MSDS)	R. Maheswarai
2	P. Jahnari	II nd BSC(MPCS)	P. Jahnari
3	N. Sridhana Lakshmi	II nd BSC(MPCS)	N. S. D. Lakshmi
4	L. Sowmya	II nd BSC(MPCS)	L. Sowmya
5	P. Bharu Sri	II nd BSC(MPCS)	P. Bharu Sri
6	G. Hanika	II nd BSC(MPCS)	G. Hanika
7	P. Syamani Jasmine	II nd BSC(MPCS)	P. S. Jasmine
8	V. Anitha Kumari	II nd BSC(MPCS)	V. Anitha Kumari
9	K. Bhuvaneshwari	II nd BSC(MPCS)	K. Bhuvaneshwari
10	Y. Sonia	II nd B.SC(MPCS)	Y. Sonia
11	B. Sowmya	II nd B.SC(MPCS)	B. Sowmya
12	D. Latha Sri	II nd B.SC(MPCS)	D. Latha
13	P. S. S. P. Sri Lavanya	II nd B.SC(MPCS)	P. S. S. P. Sri Lavanya
14	A. Karuna Kumari	II nd B.SC(MSDS)	A. Karuna Kumari
15	K. Bhavya Sri	II nd B.SC(MSDS)	K. Bhavya Sri
16	A. Gayathri	II nd B.SC(MPCS)	A. Gayathri
17	P. A. N. V. Durga Sai	II nd B.SC(MPCS)	P. A. N. V. Durga Sai
18	B. pravallika	II nd B.SC(MPCS)	B. pravallika
19	M. Murali Kalyan	II nd B.SC(MPCS)	M. Murali Kalyan
20	S. Balaji	II nd BSC(MSDS)	S. Balaji
21	M. Hareesh	II nd BSC(MPCS)	M. Hareesh
22	V. Harish Kumar	II nd BSC(MPCS)	V. Harish Kumar
23	B. Jyothi Kiran	II nd B.SC(MPCS)	B. Jyothi Kiran
24	M. Sai Kiran	II nd B.SC(MPCS)	M. Sai Kiran

JBW