

Government Degree College (M), Srikakulam



Department of Mathematics Minutes of the meeting 2022-23

Minutes of the meeting held on Feb 13, 2023, for the certificate course involving the faculty of mathematics show that discussions primarily revolved around curriculum updates, faculty allocations, and strategies for student engagement. The meeting also considered the scheduling of exams and the need for additional resources in the department. An action plan was formulated, with responsible individuals assigned to address the discussed topics, and a follow-up meeting was scheduled for further coordination.

Agenda:

- 1. To discuss course curriculum.
- 2. To discuss about Sharing the course schedule, including important dates such as classes, assignments, and assessments.
- 3. Schedule and Timelines: Sharing the course schedule, including important dates such as classes, assignments, and assessments.
- 4. To discuss introducing the instructors, teaching assistants, and support staff who will be involved in the course.
- 5. Explanation of the evaluation methods, grading criteria, and any required assessments.

After a brief discussion on the agenda the following resolutions have been passed by the committee.

"Resolved, that the certificate course "Solution of Linear Equations with Graphical Method" will be offered to students in the upcoming academic term, starting 13-02-2023 with the following key provisions:

- 1. The course curriculum, as outlined in the course proposal, is approved, and will be implemented as planned.
- 2. Faculty members R. Ravisankar, S.Aruna kumari & V.V.Ravikumar are assigned to teach the respective modules and are responsible for course delivery.
- 3. The course schedule, including class timings and assessment dates, is finalized, and will be communicated to enrolled students.

Signatures: -

From R. Ravisankar, In charge Department of Mathematics, Govt. Degree College (Men), Srikakulam

To
The principal,
Govt. Degree College (Men),
Srikakulam.

Subject: Request to Introduce Certificate Course for UG -mathematics Students. Respected sir,

The Department of Mathematics in its meeting held on 13-02-23 at Department of Mathematics passed a resolution to request the introduction of a certificate course for students at Govt. Degree College (M)-Srikakulam. This course will provide valuable additional skills and opportunities, enhancing our students' academic and career prospects. Your consideration of this request is greatly appreciated.

Thanking you Madam,

Yours Sincerely,

Lecturer in charge Dept. of Mathamatics Govt. Degree College (Men) SRIKAKULAM

Govt. Degree College (Men) SRIKAKULAM -

Circular

We are excited to announce a new Certificate Course that will provide you with an opportunity to enhance your skills and knowledge in GRAPHICAL METHOD TO **SOLUTION OF EQUATIONS.** This course has been designed to help you gain valuable expertise in Mathematics and boost your career prospects.

Course Details:

Course Name: GRAPHICAL METHOD TO SOLUTION OF EQUATIONS

Course Duration: 17-02-2023 to 28-03-2023 (30 days)

Timings: Every day of the week (except for the national holidays/festivals). Final examination will be conducted on 31/03/2023. (Friday). The class timings will be 4.30 - 5.30 hours IST (except for the day of the final examination).

Location: Room no :24

Course Fee: Nil

Eligibility: Mathematics Final year Students only

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CERTIFICATE COURSE BROCHURE 2022-23



GOVERNMENT DEGREE COLLEGE (MEN)

ACCREDITED BY NAAC WITH B++ (CGPA 2.90)

Srikakulam - 532001, Andhra Pradesh, India

ph: 08942 222383 e-mail: info@gdcmsklm.ac.in website: https://www.gdcmsklm.ac.in



GRAPHICAL METHOD TO SOLUTION OF EQUATIONS

Offered by

Department of Mathematics, Govt. Degree College (Men), Srikakulam About

the Course: Graph a system of two linear equations. Graph a system of two linear inequalities. Evaluate ordered pairs as solutions to systems. Determine whether an ordered pair is a solution to a system of linear equations. Determine whether an ordered pair is a solution to a system of linear inequalities. Classify solutions to systems. Identify what type of solution a systemwill have based on its graph. The instructor ensures to cover the concepts in depth along with numerous examples to showcase the usage and solution of linear and nonlinear inequality.

Number of Credits: Nil

Mode of Teaching: Offline

Course Contents: Basics & some algebraic expressions with graphs. inequalities & applications of inequalities with graphs. understanding basic polynomial graphs. exponential & logarithmic functions with graphs.

References: 1. Linear and Nonlinear Systems of Equations by **Alex Joujan.**

2. Elementry Equations by L. Marecek & M.A.A. Smit.

Eligibility Criteria: B.sc Final year Maths students only. Important Dates

Fee Structure: NIL

Registration start date: 13/02/2023
Last date for registration: 17/02/2023
Commencement of classes: 17/02/2023
Last class work: 28/03/2023

• Date of final examination: 31/03/2023

Paper Code: GCMMATCC04

Admission Procedure: Interested participants can complete the registration process through the following registration forms for the above course is available at the department of Mathematics. Admission process for this course is on first-come-first- serve basis and the last date for registration to the courses 02/02/2023 (Thursday).

Class Duration: Classes will be held for every week starting from 17/02/2023. (except for the national holidays/festivals). Final examination will be conducted on 31/03/2023. (Friday). The class timings will be 4.30 - 5.30 hours IST (except for the day of the final examination).

Assessment: Assessment will be based on completion of assignments and performance in the test conducted at the end of the course. The participant must obtain at least 50% in the test to avail the course completion certificate.

Course Coordinator

Mr. R.Ravisankar, Lecturer in Charge, Department of mathematics

GOVT.DEGREE COLLEGE (MEN)-SRIKAKULAM <u>CERTIFICATE COURSE SYLLABUS</u> GRAPHICAL METHOD TO SOLUTION OF EQUATIONS

Hours-30

CHAPTER-1

BASICS & SOME ALGEBRIC EXPRESSIONS WITH GRAPHS (6 hours)

Number systems, operators of mathematics, Graphing rational numbers on a Line, countable and uncountable. Algebraic expressions, Linear equations, intercepts, standard form and Graphing and slope of the line. Graphing undefined slope, Zero slope and more. Solving equations with infinite solutions or no solutions.

CHAPTER-2

INEQUALITIES & APPLICATIONS OF INEQUALITIES WITH GRAPHS (10 hours)

One and Two variable inequalities. Compound Inequalities and systems of inequalities. The absolute value inequalities, Definitions & examples. Solving absolute value inequalities by using Graphical method. Definition of quadratic equations and applications. Graphing a system of Quadratic inequalities with example & Process. Standard form of Parabola, Hyperbola, Ellipse with graphs.

CHAPTER-3

UNDERSTANDING BASIC POLYNOMIAL GRAPHS

Basic transformations of polynomial Graphs. Solving Non-Linear system of Equations. Compare Properties of Functions algebraically, Graphically and also numerically. Definition of a Function and types of a Functions and examples. Range and Domain. Inverse Functions, Identify the Range & Domain with Graphs. Even and Odd Functions. Trigonometry functions with graphs.

(8 hours)

CHAPTER-4

EXPONENTIAL & LOGARITHMIC FUNCTIONS WITH GRAPHS (6 hours)

Define Piecewise Functions. Domain and Range of Piecewise Functions. Graphing piecewise function. Exponential & Logarithmic functions with Graphs. Continuous Functions & Discontinuous Functions with Graphs.

REFERENCES:

- 1. Linear and Nonlinear Systems of Equations by Alex Joujan.
- 2. Elementry Equations by L. Marecek & M.A.A. Smit.

MODEL PAPER FOR CERTIFICATE COURSE

DEPARTMENT OF MATHEMATICS

COURSE CODE: GCMMATCC04

(GRAPHICAL METHOD TO SOLUTION OF EQUATIONS)

TIME: 03 HOURS MAX.MARKS:75 **SECTION -I** Note: Answer any five of the following 5x5=25marks (Eight questions from all the five units of the syllabus.) 1. 2. 3. 4. 5. 6. 7. 8. **SECTION-II** Answer all the five questions. Each Question carry 10 marks. 5x10=50 marks 9. (a) or (b) 10. (a) or (b) 11. (a) or (b) 12. (a) or (b) 13. (a) or (b)

GOVT.DEGREE COLLEGE (MEN)-SRIKAKULAM CERTIFICATE COURSE EXAM PAPER

(Graphical Method to Solution of Equation)

MAX.MARKS:75

(2022-23)

TIME: 3

Hrs

SECTION -I

Note: Answer any five of the following

5x5=25 marks

- 1. Explain Graphical Method?
- 2. Draw the Graph of $y = x^2$?
- 3. Find the common points of $y = x^2$ and $y = x^3$?
- 4. Definition of quadratic equations and explain it?
- 5. Draw the graph of Ellipse?
- 6. Draw the graph of $y = e^x$?
- 7. Draw the Graph of y = Tanx?
- 8. Define Continuity and Discontinuity function?

SECTION -II

Answer all the five questions. Each Question carry 10 marks.

5x10=50 marks

9. (a) Find the Solution of the equations $y = ax^2$ and y = x with graphical method?

(or)

- (b) Draw the Graph of $y = c^x$ where c is the constant?
- 10. (a) Explain how to solve the absolute inequalities by using Graphical method.

(or)

- (b) Explain Graphing a system of Quadratic inequalities with example & Process.
- 11. (a) Draw the Graph of y = log x?

(or)

- (b) Draw the Graph of $y = \sin^{-1} x$
- 12. (a) Solve the inequalities $y \le x^2 2x + 3$ and $y \ge x^2$ with graphical method.

(or)

- (b) Compare Properties of Functions algebraically, Graphically and also numerically
- 13. (a) Definition of a Function and types of a Functions and examples. Range and Domain.

(or)

(b) Define Discontinuous Functions with Example.

STUDENTS ENROLLMENT OF CERTIFICATE COURSE 2022-23

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-No	Name of the student	Group	Hall Ticket No	Signature
1	V. Hymavall?	m.P.c	20220010520248	V. Hymanall?
2.	V. Rajitha	MPCS	2022001050050	V. Rajitha
3.	V. Bharathi	MECA	202200 105 1051	val.
4.	S. kavitha.	MECS	2022001051045	flew.
5	K. Dill-Rap	MECS	20220010 51026	K. Dillia
6.	S. Mahendra	MPCS	20 22001050045	Simpleria
7.	M. Saikiran	MCIC	2022001566035	M. Saikiran
8.	G. Koushna mouty	MCIC	2022001566023	- 5 kawshim
9.	B. Dillesh	MCIC	2022001566005	B.Dillesh.
10-	k · Lavanya	MES	2022001051023	K-lavarya
11.	H. L. K. Bhuttha	MPCS	2022001050028	M.L.K.Blutt
12-	K. Grunaloxumi	MPCS	2022001050023	K. Guraban
13.	ch. Vasavi	MECS	2022001051011	ch Maraus
14.	P. Pavani	MEES	2022001051039	P. havous
15.	P. Vimala	Mecs	202200 1051041	P. Vimale
16.	G. Goyathri	Mpcs	202200 10 50014	Questhon
17.	B. Ramya svi	Mecs	2022001051006	Ramya
18	K-undhigo	MPCS	2022001050026	K-virollyce
19.	K. Gayathri	MPCS	2022001050021	* Gal
20.	p. Amoutha	MPCS	2022001050038	A
an.	S-Bharathi	MPCS	2022001050048	AB.
22.	P. Lakshmi	MPCs	2022001050035	P. Laterbon
23.	Ch. Kuranthi kumar	mpcs	2022001050008	Ch. Buen
24.	k. Dinesh.	MPCS	2022001050025	- Japas
25	J. Meghana	MPE	2022001053007	J. rughano
26	P. Sizopha	MPE	202200105303)	P. Svecho
27.	T. Dhya	MPG	2022001050049	Divya
28.	M. poriyenka	M.P.E	20120010 53024	Mercigan
29	P: Saiperselham	MPCS	2022001050035	P.San
30	M. Mahish Body	MPCS	50030	M.M.
31	A-Ratesh Kymar	MPCS	202200 05002	A. Rajakan

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STUDENT ATTENDENCE OF CERTIFICATE COURSE (2022-23)

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STUDENTS CERTIFICATE ISSUES WITH SIGNATURES 2022-23

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1	. W. Hymavath?	mpc	14	Signature
2	A. KOMITAO	mpcs	7	V. Hymavathi
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4.	S. Kavitha	mecs		V. Bhazati
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21	S. Bharathi		A	P-Amulha
22.	P. Lakshmi	mpcs	A	S. Bharathio
23.	Ch. Kranthi kumar	mpcs	A	Lakshni P
24	K. Dinesh	MPCS	0	Ch. Kranthi Kumar
25	J. meghana	mpes	0	6. Dinish
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32. M. Chaithanga MPE A 33. K. Thavita Raw MPE B 34. B. Rawi kumar MPE B 35. Ic. Janardhana Rao MPE C 36. K. Divakar MPE A 37. K. Siyasi MPE A 38. D. Kalyan kumar MPE C 39. B. Bhargaw MPE D 39. B. Bhargaw MPE D 39. B. Bhargaw MPE A 40. Ch. Adinarayana MPE A 41. Ch. Gurunth MPE A 42. J. Meghana MPE B 43. K. Kalyan MPE B 44. Meghana 45. K. Kalyan MPE B 46. Kalyan 47. Meghana 48. Kalyan 49. K. Kalyan 40. Ch. Gurunth 40. Ch. Gurunth 41. Ch. Gurunth 42. J. Meghana 43. K. Kalyan 44. Kalyan 45. Kalyan 46. Kalyan 47. Meghana 48. Kalyan 48. Kalyan 49. K. Kalyan 49. K. Kalyan 40. K. Kalyan 40. K. Kalyan 41. T. Meghana 42. K. Kalyan 43. K. Kalyan 44. K. Kalyan	1	A. RaJesh kumar	mpcs		
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CERTIFICATE COURSE PHOTOS 2022-23









Government Degree College (M), Srikakulam Feedback



Name of the event	CERTIFICATE COURSE
Department	Mathematics
Date	17-03-2023
Name of student	Ch. Kranthi kumar
Class	B.Sc. (M.P.Cs)
Mobile no.	9494163989

one no.				747410370		
1. D	id the e	event fulfil	l its objectives?			
~	Yes/	No				
2. H	ow use	ful was th	e event for you?	(0 being Not us	eful and 5 Most	useful)
0	1		2	3	4	5 ✔

3. Rate the overall success of the event (0 being Not useful and 5 Most useful)

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	^	1	2	2	4	_ /
	U	1	<i>L</i>	3	4	5 ✔
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4. List the key takeaway points from the events.

Learn how to graphically solve single linear equations in one or two variables to find their solutions or roots.

5. Suggestions if any

You'll explore different methods for graphing linear equations, including the slope-intercept form, point-slope form, and standard form.

Signature of the Student



Government Degree College (M), Srikakulam Feedback



Name of the event	CERTIFICATE COURSE
Department	Mathematics
Date	17-03-2023
Name of student	P. Pavani
Class	B.Sc. (M.P.Cs)
Mobile no.	9515992054

Mobile no.		Ç	9515992054	
1. Did th	e event fulfil its obje	ctives?		
✓ Ye	s/ No			
2. How t	seful was the event f	for you? (0 being	Not useful and	5 Most useful)
0 1	2	3	4	5 ✓

3.	Rate the overall	success of the event	(0 being N	Not useful and	15 Most useful)

0 1	2	3	4	5 √
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4. List the key takeaway points from the events.

Understand how to graphically represent linear equations on the Cartesian plane and how this representation relates to the equation's coefficients and constants.

5. Suggestions if any

You'll learn about linear equations in two variables (usually represented as y = mx + b) and how to interpret them graphically.

Signature of the Student

D. Pavané



Government Degree College (M), Srikakulam Feedback



Name of the event	CERTIFICATE COURSE
Department	Mathematics
Date	17-03-2023
Name of student	K. DINESH
Class	B.Sc. (M.P. Cs)
Mobile no.	9701941579

1.	Did the ever	nt fulfil it's	objectives?
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✓ Yes/No

2. How useful was the event for you? (0 being Not useful and 5 Most useful)

0	1	2	3	4	5 ✔	
3. Rate the overall success of the event (0 being Not useful and 5 Most useful)						
0	1	2	3	4 ✔	5	

4. List the key takeaway points from the events.

Gain proficiency in finding and interpreting the slopes and y-intercepts of linear equations, as well as the x-intercepts if applicable.

5. Suggestions if any

You'll start with the fundamentals of graphing, including plotting points, using coordinate systems, and understanding the Cartesian plane.

Signature of the Student



Government Degree College (M), Srikakulam



Consolidated Feedback

Total no. of Participants = 51

No.of participants from whom feedback is collected = 51

S.No		No. of participants graded "Yes"		No. of participants graded "No"		
1	Did the event fulfil its objectives	51		0		
2		No. of participants graded - 1	No. of participants graded – 2	No. of participants graded - 3	No. of participants graded - 4	No. of participants graded - 5
3	How useful was the event for you	0	0	0	8	43
4	Rate the overall success of the event	-	-	-	15%	84%
5	key takeaway points from the event	Graphing Systems of Equations, Inequalities, Applications, Graphing Tools, Problem-Solving Skills, Critical Thinking, Accuracy and Precision, Visualization Skills and etc.				
6	Suggestions if any	Some courses might introduce you to graphing software or tools that can help you visualize linear equations more effectively.				

Coordinator

Lecturer in charge Dept. of Mathamatics Govt. Degree College (Men) SRIKAKULAM



(Affiliated to Dr. B. R. Ambedkar University, Srikakulam, Andhra Pradesh)

Reaccredited by NAAC With B⁺⁺ (2.90 CGPA)



CERTIFICATE

This is to certify that V.HYMAVATHI

has successfully completed Certificate Course in "Graphical Method to Solutions of Equations" conducted by Department of Mathematics Govt. Degree College (Men), Srikakulam, A.P. during from Feb to March - 2023 and secured with "A" grade.

R. Ravi Sankar

Course Coordinator

Dr. P. Surekha





(Affiliated to Dr. B. R. Ambedkar University, Srikakulam, Andhra Pradesh)

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R. Ravi Sankar

Course Coordinator

Dr. P. Surekha



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This is to certify that V.BHARATHI

has successfully completed Certificate Course in "Graphical Method to Solutions of Equations" conducted by Department of Mathematics Govt. Degree College (Men), Srikakulam, A.P. during from Feb to March - 2023 and secured with "O" grade.

R. Ravi Sankar

Course Coordinator

Dr. P. Surekha



(Affiliated to Dr. B. R. Ambedkar University, Srikakulam, Andhra Pradesh)

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CERTIFICATE

This is to certify that **S. KAVITHA**

has successfully completed Certificate Course in "Graphical Method to Solutions of Equations" conducted by Department of Mathematics Govt. Degree College (Men), Srikakulam, A.P. during from Feb to March - 2023 and secured with "A" grade.

R. Ravi Sankar

Course Coordinator

Dr. P. Surekha



(Affiliated to Dr. B. R. Ambedkar University, Srikakulam, Andhra Pradesh)

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CERTIFICATE

This is to certify that K. DILLI RAO

has successfully completed Certificate Course in "Graphical Method to Solutions of Equations" conducted by Department of Mathematics Govt. Degree College (Men), Srikakulam, A.P. during from Feb to March - 2023 and secured with "B" grade.

R. RSo

R. Ravi Sankar

Course Coordinator

BK

Dr. P. Surekha

Principal

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ED.GW TITE



(Affiliated to Dr. B. R. Ambedkar University, Srikakulam, Andhra Pradesh)

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CERTIFICATE

This is to certify that **S. MAHENDRA**

has successfully completed Certificate Course in "Graphical Method to Solutions of Equations" conducted by Department of Mathematics Govt. Degree College (Men), Srikakulam, A.P. during from Feb to March - 2023 and secured with "A" grade.

R. Ros

R. Ravi Sankar

Course Coordinator

BK

Dr. P. Surekha



(Affiliated to Dr. B. R. Ambedkar University, Srikakulam, Andhra Pradesh)

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CERTIFICATE

This is to certify that M.SAIKIRAN

has successfully completed Certificate Course in "Graphical Method to Solutions of Equations" conducted by Department of Mathematics Govt. Degree College (Men), Srikakulam, A.P. during from February to March - 2023 and secured with "A" grade.

R. Ravi Sankar

Course Coordinator

Dr. P. Surekha



(Affiliated to Dr. B. R. Ambedkar University, Srikakulam, Andhra Pradesh)

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CERTIFICATE

This is to certify that G. KRISHNA MURTHY

has successfully completed Certificate Course in "Graphical Method to Solutions of Equations" conducted by Department of Mathematics Govt. Degree College (Men), Srikakulam, A.P. during from February to March - 2023 and secured with "B" grade.

R. Ros

R. Ravi Sankar

Course Coordinator

BK

Dr. P. Surekha



(Affiliated to Dr. B. R. Ambedkar University, Srikakulam, Andhra Pradesh)

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CERTIFICATE

This is to certify that B. Dillesh

has successfully completed Certificate Course in "Graphical Method to Solutions of Equations" conducted by Department of Mathematics Govt. Degree College (Men), Srikakulam, A.P. during from February to March - 2023 and secured with "B" grade,

R. Ros

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R. Ravi Sankar

Course Coordinator

Dr. P. Surekha



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CERTIFICATE

This is to certify that

K. LAVANYA

has successfully completed Certificate Course in "Graphical Method to Solutions of Equations" conducted by Department of Mathematics Govt. Degree College (Men), Srikakulam, A.P. during from February to March - 2023 and secured with "A" grade.

R. Ravi Sankar

Course Coordinator

Dr. P. Surekha



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CERTIFICATE

This is to certify that M.L.K. BHUKTHA

has successfully completed Certificate Course in "Graphical Method to Solutions of Equations" conducted by Department of Mathematics Govt. Degree College (Men), Srikakulam, A.P. during from February to March - 2023 and Secured with "A" grade.

R. Ravi Sankar

Course Coordinator

Dr. P. Surekha



(Affiliated to Dr. B. R. Ambedkar University, Srikakulam, Andhra Pradesh)

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CERTIFICATE

This is to certify that

G. GUNALAXMI

has successfully completed Certificate Course in "Graphical Method to Solutions of Equations" conducted by Department of Mathematics Govt. Degree College (Men), Srikakulam, A.P. during from February to March - 2023 and secured with "A+" grade.

R. Ravi Sankar

Course Coordinator

Dr. P. Surekha



(Affiliated to Dr. B. R. Ambedkar University, Srikakulam, Andhra Pradesh)

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CERTIFICATE

This is to certify that CH. VASAVI

has successfully completed Certificate Course in "Graphical Method to Solutions of Equations" conducted by Department of Mathematics Govt. Degree College (Men), Srikakulam, A.P. during from February to March - 2023 and secured with "A+" grade.

R. Ros

BK

R. Ravi Sankar

Course Coordinator

Dr. P. Surekha



(Affiliated to Dr. B. R. Ambedkar University, Srikakulam, Andhra Pradesh)

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CERTIFICATE

This is to certify that **P. PAVANI**

has successfully completed Certificate Course in "Graphical Method to Solutions of Equations" conducted by Department of Mathematics Govt. Degree College (Men), Srikakulam, A.P. during from February to March - 2023 and secured with "O" grade.

R. Ravi Sankar

Course Coordinator

Dr. P. Surekha



(Affiliated to Dr. B. R. Ambedkar University, Srikakulam, Andhra Pradesh)

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CERTIFICATE

This is to certify that R. VIMALA

has successfully completed Certificate Course in "Graphical Method to Solutions of Equations" conducted by Department of Mathematics Govt. Degree College (Men), Srikakulam, A.P. during from February to March - 2023 and secured with "A+" grade.

R. Ravi Sankar

Course Coordinator

Dr. P. Surekha



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CERTIFICATE

This is to certify that

G. GAYATHRI

has successfully completed Certificate Course in "Graphical Method to Solutions of Equations" conducted by Department of Mathematics Govt. Degree College (Men), Srikakulam, A.P. during from February to March - 2023 and secured with "A+" grade.

R. Ravi Sankar

Course Coordinator

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CERTIFICATE

This is to certify that B. RAMAYASRI

has successfully completed Certificate Course in "Graphical Method to Solutions of Equations" conducted by Department of Mathematics Govt. Degree College (Men), Srikakulam, A.P. during from February to March - 2023 and secured with "A" grade.

R. Ros

BK

R. Ravi Sankar

Course Coordinator

Dr. P. Surekha



(Affiliated to Dr. B. R. Ambedkar University, Srikakulam, Andhra Pradesh)

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CERTIFICATE

This is to certify that

K. VINDHIYA

has successfully completed Certificate Course in "Graphical Method to Solutions of Equations's" conducted by Department of Mathematics Govt. Degree College (Men), Srikakulam, A.P. during from February to March - 2023 and secured with "B" grade.

R. Ravi Sankar

Course Coordinator

Dr. P. Surekha



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Dr. P. Surekha



(Affiliated to Dr. B. R. Ambedkar University, Srikakulam, Andhra Pradesh)

Reaccredited by NAAC With B⁺⁺ (2.90 CGPA)



CERTIFICATE

This is to certify that P. AMRUTHA

has successfully completed Certificate Course in "Graphical Method to Solutions of Equations" conducted by Department of Mathematics Govt. Degree College (Men), Srikakulam, A.P. during from February to March - 2023 and secured with "A" grade.

R. Ravi Sankar

Course Coordinator

Dr. P. Surekha



(Affiliated to Dr. B. R. Ambedkar University, Srikakulam, Andhra Pradesh)

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CERTIFICATE

This is to certify that **S. BHARATHI**

has successfully completed Certificate Course in "Graphical Method to Solutions of Equations" conducted by Department of Mathematics Govt. Degree College (Men), Srikakulam, A.P. during from February to March - 2023 and secured with "A" grade.

R. Ravi Sankar

Course Coordinator

Dr. P. Surekha



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R. Ravi Sankar

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CERTIFICATE

This is to certify that

P. LAKSHMI

has successfully completed Certificate Course in "Graphical Method to Solutions of Equations" conducted by Department of Mathematics Govt. Degree College (Men), Srikakulam, A.P. during from February to March - 2023 and secured with "A" grade.

R. Ravi Sankar

Course Coordinator

Dr. P. Surekha



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CERTIFICATE

This is to certify that

CH. KRANTHI KUMARI

has successfully completed Certificate Course in "Graphical Method to Solutions of Equations" conducted by Department of Mathematics Govt. Degree College (Men), Srikakulam, A.P. during from February to March - 2023 and secured with "O" grade.

R. Ravi Sankar

Course Coordinator

Dr. P. Surekha



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CERTIFICATE

This is to certify that K. DINESH

has successfully completed Certificate Course in "Graphical Method to Solutions of Equations" conducted by Department of Mathematics Govt. Degree College (Men), Srikakulam, A.P. during from February to March - 2023 and secured with "O" grade.

R. Ros

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R. Ravi Sankar

Course Coordinator

Dr. P. Surekha



(Affiliated to Dr. B. R. Ambedkar University, Srikakulam, Andhra Pradesh)

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CERTIFICATE

This is to certify that J.MEGHANA

has successfully completed Certificate Course in "Graphical Method to Solutions of Equations" conducted by Department of Mathematics Govt. Degree College (Men), Srikakulam, A.P. during from February to March - 2023 and secured with "A" grade.

R. Ravi Sankar

R. Ravi Sankar

Course Coordinator

13K=

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CERTIFICATE

This is to certify that P. SIREESHA

has successfully completed Certificate Course in "Graphical Method to Solutions of Equations" conducted by Department of Mathematics Govt. Degree College (Men), Srikakulam, A.P. during from February to March - 2023 and secured with "O" grade.

R. Ravi Sankar

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CERTIFICATE

This is to certify that

T. DIVYA

has successfully completed Certificate Course in "Graphical Method to Solutions of Equations" conducted by Department of Mathematics Govt. Degree College (Men), Srikakulam, A.P. during from February to March - 2023 and secured with "A+" grade.

R. Ravi Shankar

Course Coordinator

Dr. P. Surekha



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CERTIFICATE

This is to certify that M.PRIYANKA

has successfully completed Certificate Course in "Graphical Method to Solutions of Equations" conducted by Department of Mathematics Govt. Degree College (Men), Srikakulam, A.P. during from February to March - 2023 and secured with "A" grade.

R. Ravi Shankar

Course Coordinator

Dr. P. Surekha



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CERTIFICATE

This is to certify that P. SAIPREETHAM

has successfully completed Certificate Course in "Graphical Method to Solutions of Equations" conducted by Department of Mathematics Govt. Degree College (Men), Srikakulam, A.P. during from February to March - 2023 and secured with "A+" grade.

R. Ravi Sankar

Course Coordinator

Dr. P. Surekha



(Affiliated to Dr. B. R. Ambedkar University, Srikakulam, Andhra Pradesh)

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CERTIFICATE

This is to certify that M.MAHESH BABU

has successfully completed Certificate Course in "Graphical Method to Solutions of Equations" conducted by Department of Mathematics Govt. Degree College (Men), Srikakulam, A.P. during from February to March - 2023 and secured with "B" grade.

R. Ravi Sankar

Course Coordinator

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CERTIFICATE

This is to certify that

A. RAJESH KUMAR

has successfully completed Certificate Course in "Graphical Method to Solutions of Equations" conducted by Department of Mathematics Govt. Degree College (Men), Srikakulam, A.P. during from February to March - 2023 and secured with "A+" grade.

R. Ravi Shankar

Course Coordinator

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CERTIFICATE

This is to certify that M.CHAITHAYA

has successfully completed Certificate Course in "Graphical Method to Solutions of Equations" conducted by Department of Mathematics Govt. Degree College (Men), Srikakulam, A.P. during from February to March - 2023 and secured with "A" grade.

R. Ravi Sankar

Course Coordinator

Dr. P. Surekha



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CERTIFICATE

This is to certify that

K. THAVITA RAJU

has successfully completed Certificate Course in "Graphical Method to Solutions of Equations" conducted by Department of Mathematics Govt. Degree College (Men), Srikakulam, A.P. during from February to March - 2023 and secured with "A" grade.

R. Ravi Sankar

Course Coordinator

Dr. P. Surekha



(Affiliated to Dr. B. R. Ambedkar University, Srikakulam, Andhra Pradesh)

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CERTIFICATE

This is to certify that **B. RAVIKUMAR**

has successfully completed Certificate Course in "Graphical Method to Solutions of Equations" conducted by Department of Mathematics Govt. Degree College (Men), Srikakulam, A.P. during from February to March - 2023 and secured with "B" grade.

R. Ravi Sankar

Course Coordinator

Dr. P. Surekha



(Affiliated to Dr. B. R. Ambedkar University, Srikakulam, Andhra Pradesh)

Reaccredited by NAAC With B⁺⁺ (2.90 CGPA)



CERTIFICATE

This is to certify that

K. JANANARDHANA RAO

has successfully completed Certificate Course in "S Graphical Method to Solutions of Equations" conducted by Department of Mathematics Govt. Degree College (Men), Srikakulam, A.P. during from February to March - 2023 and secured with "C" grade.

R. Ravi Sankar

Course Coordinator

Dr. P. Surekha



(Affiliated to Dr. B. R. Ambedkar University, Srikakulam, Andhra Pradesh)

Reaccredited by NAAC With B⁺⁺ (2.90 CGPA)



CERTIFICATE

This is to certify that

K. DIVAKAR

has successfully completed Certificate Course in "Graphical Method to Solutions of Equations" conducted by Department of Mathematics Govt. Degree College (Men), Srikakulam, A.P. during from February to March - 2023 and secured with "A" grade.

R. Ravi Sankar

Course Coordinator

Dr. P. Surekha



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CERTIFICATE

This is to certify that

K. SIVAJI

has successfully completed Certificate Course in "Graphical Method to Solutions of Equations" conducted by Department of Mathematics Govt. Degree College (Men), Srikakulam, A.P. during from February to March - 2023 and secured with "A" grade.

R. Ravi Sankar

Course Coordinator

Dr. P. Surekha



(Affiliated to Dr. B. R. Ambedkar University, Srikakulam, Andhra Pradesh)

Reaccredited by NAAC With B⁺⁺ (2.90 CGPA)

To of College College

CERTIFICATE

This is to certify that D.KALYAN KUMAR

has successfully completed Certificate Course in "Graphical Method to Solutions of Equations" conducted by Department of Mathematics Govt. Degree College (Men), Srikakulam, A.P. during from February to March - 2023 and secured with "C" grade.

R. Ravi Sankar

Course Coordinator

Dr. P. Surekha



(Affiliated to Dr. B. R. Ambedkar University, Srikakulam, Andhra Pradesh)

Reaccredited by NAAC With B⁺⁺ (2.90 CGPA)

OF COMPANY OF STREET

CERTIFICATE

This is to certify that B. BHARGAVI

has successfully completed Certificate Course in "Graphical Method to Solutions of Equations" conducted by Department of Mathematics Govt. Degree College (Men), Srikakulam, A.P. during from February to March - 2023 and secured with "D" grade.

R. Ravi Sankar

Course Coordinator

Dr. P. Surekha



(Affiliated to Dr. B. R. Ambedkar University, Srikakulam, Andhra Pradesh)

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CERTIFICATE

This is to certify that CH. ADINARAYANA

has successfully completed Certificate Course in "Graphical Method to Solutions of Equations" conducted by Department of Mathematics Govt. Degree College (Men), Srikakulam, A.P. during from February to March - 2023 and secured with "A" grade.

R. Ravi Sankar

Course Coordinator

Dr. P. Surekha



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CERTIFICATE

This is to certify that CH. GURUNATH

has successfully completed Certificate Course in "Graphical Method to Solutions of Equations" conducted by Department of Mathematics Govt. Degree College (Men), Srikakulam, A.P. during from February to March - 2023 and secured with "A" grade.

R. Ravi Sankar

Course Coordinator

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CERTIFICATE

This is to certify that

J. MEGANA

has successfully completed Certificate Course in "Graphical Method to Solutions of Equations" conducted by Department of Mathematics Govt. Degree College (Men), Srikakulam, A.P. during from February to March - 2023 and secured with "B" grade.

R. Ravi Sankar

Course Coordinator

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CERTIFICATE

This is to certify that

K. KALYAN

has successfully completed Certificate Course in "Graphical Method to Solutions of Equations" conducted by Department of Mathematics Govt. Degree College (Men), Srikakulam, A.P. during from February to March - 2023 and secured with "B" grade.

R. Ravi Sankar

Course Coordinator

Dr. P. Surekha



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CERTIFICATE

This is to certify that S. PAVANI

has successfully completed Certificate Course in "Graphical Method to Solutions of Equations" conducted by Department of Mathematics Govt. Degree College (Men), Srikakulam, A.P. during from February to March - 2023 and secured with "A" grade.

R. Ravi Sankar

Course Coordinator

Dr. P. Surekha



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CERTIFICATE

This is to certify that Y. JYOTHI

has successfully completed Certificate Course in "Graphical Method to Solutions of Equations" conducted by Department of Mathematics Govt. Degree College (Men), Srikakulam, A.P. during from February to March - 2023 and secured with "A" grade.

R. Ravi Sankar

Course Coordinator

Dr. P. Surekha



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CERTIFICATE

This is to certify that S. RAJESH

has successfully completed Certificate Course in "Graphical Method to Solutions of Equations" conducted by Department of Mathematics Govt. Degree College (Men), Srikakulam, A.P. during from February to March - 2023 and secured with "B" grade.

R. Ravi Sankar

Course Coordinator

Dr. P. Surekha



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CERTIFICATE

This is to certify that V.SRUTHI BHARATHI

has successfully completed Certificate Course in "Graphical Method to Solutions of Equations" conducted by Department of Mathematics Govt. Degree College (Men), Srikakulam, A.P. during from February to March - 2023 and secured with "B" grade.

R. Ros

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R. Ravi Sankar

Course Coordinator

Dr. P. Surekha



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CERTIFICATE

This is to certify that M.PREEYANKA

has successfully completed Certificate Course in "Graphical Method to Solutions of Equations" conducted by Department of Mathematics Govt. Degree College (Men), Srikakulam, A.P. during from February to March - 2023 and secured with "A" grade.

R. Ravi Sankar

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CERTIFICATE

This is to certify that

M.ANIL KUMAR

has successfully completed Certificate Course in "Graphical Method to Solutions of Equations" conducted by Department of Mathematics Govt. Degree College (Men), Srikakulam, A.P. during from February to March - 2023 and secured with "A+" grade.

R. Ravi Sankar

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CERTIFICATE

This is to certify that

P. VENKATESH

has successfully completed Certificate Course in "Graphical Method to Solutions of Equations" conducted by Department of Mathematics Govt. Degree College (Men), Srikakulam, A.P. during from February to March - 2023 and secured with "A" grade.

R. Ravi Shankar

Course Coordinator

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CERTIFICATE

This is to certify that P. LAKSHMANARAO

has successfully completed Certificate Course in "Graphical Method to Solutions of Equations" conducted by Department of Mathematics Govt. Degree College (Men), Srikakulam, A.P. during from February to March - 2023 and secured with "B" grade.

R. Ravi Sankar

Course Coordinator

Dr. P. Surekha

THE END