



**Government Degree College (M), Srikakulam**  
**Department of Mathematics**  
**Minutes of the meeting**



Minutes of the meeting held on December 20, 2019, 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 **"Graphs: Solving Equations with Graphical Methods"** will be offered to students in the upcoming academic term, starting 20/01/2020 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 Ch. Vijay Kumar, L.V. Ramana and Y.Prasanthi 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:-

1. (Ch. Vijay Kumar)
2. L.V. Ramana
3. Y. Prasanthi

From  
Ch. Vijay kumar, 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 Madam,

The Department of Mathematics in its meeting held on 20-12-2019 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 Mathematics  
Govt. Degree College (Men)  
SRIKAKULAM

*O/o The Principal,  
Government Degree College (M),  
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 **Graphs: Solving Equations with Graphical Method**. This course has been designed to help you gain valuable expertise in Mathematics and boost your career prospects.

### **Course Details:**

**Course Name:** Graphs: Solving Equations with Graphical Method

**Course Duration:** 31-01-2020 to 13-04-2020 (30 days)

**Timings:** Every week classes will be held on Monday, Thursday and Friday (except for the national holidays/festivals). Final examination will be conducted on 18/04/2020 (Saturday). The class timings will be 5.00 – 5.45 hours IST (except for the day of the final examination).

**Location:** Room no :24

**Course Fee:** Nil

**Eligibility:** Mathematics Final year Students only

Signatures:

*[Signature]* - III CE I

*[Signature]* - I ADJ

*[Signature]* - II ADJ

*[Signature]*  
Principal  
**PRINCIPAL**  
**Govt. Degree College (Men)**  
**SRIKAKULAM.**



# GOVERNMENT DEGREE COLLEGE (MEN)

ACCREDITED BY NAAC WITH B++ (CGPA 2.90)

Srikakulam - 532001, Andhra Pradesh, India

ph: 08842 222983 e-mail: info@gdcmen.ac.in website: <https://www.gdcmen.ac.in>



## CERTIFICATE COURSE(2019-20)

### GRAPHS, SOLVING EQUATIONS WITH GRAPHICAL METHODS

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 system will 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:** 1.Introduction to algebra, Linear equations, Functions, System of Linear Equations and Inequalities and Exponential and Logarithmic Functions.2.Graphing of Linear Equation in Two Variables With some examples.3. Graphing of linear inequalities with examples.4.Trigonometry identities with graphs.5. Linear models with graphs, Quadratic models, Exponential growth and decay models.

**References:** 1.Linear and Nonlinear Systems of Equations by Alex Joujan.  
2.Elementary Equations by L.Marecek & M.A.A.Smit.

Eligibility Criteria: Graduates

Fee Structure -Nil-

#### Important Dates

- Registration start date: 20/01/2020
- Last date for registration: 31/01/2020
- Commencement of classes: 31/01/2020
- Last date of the class work: 13/04/2020
- Date of final examination: 18/04/2020

**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.

- External candidates: GCMMAT01

Admission process for this course is on first-come-first-serve basis and the last date for registration to the course is 31/01/2020 (Friday).

**Class Duration:** Classes will be held for 10 weeks starting from 31/01/2020 (Friday). Every week classes will be held on Monday, Wednesday, and Friday (except for the national holidays/festivals). Final examination will be conducted on 18/04/2020 (Sunday). 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.

#### General Instructions

1. Admission to the course can be obtained only through the offline mode. Personal requests to Admission Section or to the Department of Mathematics will not be considered.
2. For internal and external candidates, admission will be confirmed only after the scrutiny of the application.
3. A minimum of 75% attendance is compulsory to take the examination. Attendance will be reviewed and notified.
4. Batch change will not be permitted: Participants enrolled to a batch have to complete the course in the same batch.
5. Those who are not able to clear the final examination will not be given certificate. A candidate has to clear the examination within three attempts.

#### Course Coordinator

Mr. Ch.Vijay Kumar, Lecturer in Mathematics,  
Department of Mathematics.

[chvijaykumarmaths@gdcmsklm.ac.in](mailto:chvijaykumarmaths@gdcmsklm.ac.in)  
+91 8179780929, +91 8919942897.




2019-20

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Signature

	Name of the Student	Group	Hall Ticket	Signature
1	K. Harikrishna	MCIC	1700138013	K. Harikrishna
2	L. Gangayya	MCIC	1700138015	L. Gangayya
3	P. Sai Krishna	MCIC	1700138023	P. Yogeshwara Rao
4	P. Yogeshwara Rao	MCIC	1700138024	P. Yogeshwara Rao
5	S. Srinivasa Rao	MCIC	1700138027	S. Srinivasa Rao
6	A. Srinu	MECS	1700140002	A. Srinu
7	A. Amitha Sree	MECS	1700140003	
8	A. Lilly prasad	MECS	1700140005	A. Lilly prasad
9	V. Srihari	MECS	1700140008	V. Srihari
10	B. Sonia	MECS	1700140009	B. Sonia
11	Ch. Venkata Sai Kiran	MECS	1700140011	Ch. Venkata Sai Kiran
12	G. Kumari Swami	MECS	1700140020	G. Kumari Swami
13	G. Taviti Naidu	MECS	1700140026	G. Taviti Naidu
14	G. Veerajulu	MECS	1700140027	G. Veerajulu
15	K. Chakradhar	MECS	1700140028	K. Chakradhar
16	K. Kesava Rao	MECS	1700140029	K. Kesava Rao
17	K. Sri Latha	MECS	1700140030	K. Sri Latha
18	P. Neelaveni	MECS	1700140048	P. Neelaveni
19	R. Nagaraju	MECS	1700140050	R. Nagaraju
20	S. Raja Ratnam	MECS	1700140052	S. Raja Ratnam
21	T. Bhagya Lakshmi	MECS	1700140053	T. Bhagya Lakshmi
22	T. Pavani	MECS	1700140054	T. Pavani
23	T. Ramji	MECS	1700140055	
24	T. Vineetha	MECS	1700140056	T. Vineetha
25	A. Bhagya Sri	MPCS	1700142006	A. Bhagya Sri
26	B. Venkatesh	MPCS	1700142009	B. Venkatesh
27	D. Jyothi	MPCS	1700142013	D. Jyothi
28	D. Jagadeesh	MPCS	1700142015	D. Jagadeesh
29	G. Jagadeesh	MPCS	1700142019	G. Jagadeesh
30	G. Lakshman Naidu	MPCS	1700142020	

31	J. Rani	MPCS	1700142022	J. Rani
32	J. Shanthi	MPCS	1700142023	J. Shanthi
33	K. Vijaya Laxmi	MPCS	1700142026	M. Jaya Krishna
34	M. Jaya Krishna	MPCS	1700142035	M. Jayabharathi
35	M. Hari prasad	MPCS	1700142036	M. Hari prasad
36	M. Sharmistha Shameesh	MPCS	1700142038	M. Shameesh
37	N. Koteswara Rao	MPCS	1700142040	N. Koteswara Rao
38	P. Keerthana	MPCS	1700142041	P. Keerthana
39	P. Divya Bhaskar	MPCS	1700142046	P. Divya Bhaskar
40	S. Chalapathi Rao	MPCS	1700142050	S. Chalapathi Rao
41	S. Jyothi	MPCS	1700142051	S. Jyothi
42	T. Bhaskar	MPCS	1700142054	T. Bhaskar
43	Y. Govinda Rao	MPCS	1700142062	Y. Govindaraj
44	D. Suresh Kumar Reddy	MPE	1700143019	D. Suresh Kumar Reddy
45	M. Kalyan	MPE	1700143032	M. Kalayam
46	N. Hari Krishna	MPE	1700143033	N. Haribabu
47	P. Praveen	MPE	1700143038	P. Praveen
48	R. Jagadeeshwara Rao	MPE	1700143039	R. Jagadeeshwara Rao
49	T. Deepak Singh	MPE	1700143050	T. Deepak Singh
50	B. Tripurasundari	MPE	1700143051	B. Tripurasundari - Rao

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



# Syllabus

1. Introduction to algebra - Definitions  
Some Basic concepts of algebraic Equations  
Types of Functions with Graphs
2. System of Linear Equations  
types of graphs of linear Equations with  
graphs. Exponential and Logarithmic functions
3. System of Linear Inequalities  
Graphing of Linear Equations in two  
Variables with Some Examples.
4. Trigonometry - Identities with graphs  
1) Sine, 2) Cos 3) Tan 4) Cot 5) hyperbolic  
functions.
5. Linear models with graphs, Quadratic  
models, Exponential growth, and decay models.

## References:

- 1) Linear and non-Linear Systems  
of Equations - Alex Toufan
- 2) Elementary Equations - L. Marzak  
M.A.A. Smit.

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## Model Question Paper

Max-Marks — 50

Time: 02 hours

### Section-A

Answer any five of the following  
Eight Questions, each question  
Carrying 10 Marks.  $5 \times 10 = 50$ .

### Grading

1) Attendance — 75% —	10 points (Marks)
2) Assignments —	20 points "
3) Seminars —	20 points "
4) Exam —	50 points "
	<hr/> 100 Marks.

- 1) Exam must be attended otherwise no certificate issue.
- 2) ~~no~~ who got less than 75% no issue certificate.
- 3) Minimum Exam Pass Marks 50%.

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No.	NAME	Designation	Group.																															Working Days	Days Present	Days absent	Leave Taken	Remarks
			31	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30					
1	K. Haru Krishna	MCIC	P	P	P	P	P	A	P	P	P	A	P	P	P	A	P	P	P	A	P	P	P	P	P	P	A	P	P	P	A	P	P	30	23	0		
2	L. Grangayya	MCIC	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	29			
3	P. Saikrishna	MCIC	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	28			
4	P. Yogeswara Rao	MCIC	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	27			
5	S. Srinivasa Rao	MCIC	P	P	P	P	P	P	P	P	P	A	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	27	2		
6	A. Srinu	MECS	P	P	P	P	P	P	P	P	A	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	25			
7	A. Amitha Sree	MECS	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	25			
8	A. Lilly Prasad	MECS	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	26			
9	V. Srinani	MECS	P	P	P	A	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	26			
10	V. Sonia	MECS	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	28			
11	Ch. Venkata Saikiran	MECS	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	27			
12	G. Kumar Swami	MECS	A	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	26			
13	G. Tavitri Naidu	MECS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	30	25		
14	G. Veenajulu	MECS	P	P	P	P	P	P	P	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	30	27		
15	K. Chakradhar	MECS	P	P	P	P	P	P	P	A	P	A	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	28		
16	K. Kesava Rao	MECS	P	A	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	27		
17	K. Sri Latha	MECS	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	26		
18	D. Neelaveni	MECS	P	P	P	A	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	25		
19	R. Nagaraju	MECS	A	P	A	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	27		
20	S. Raja Ratnam	MECS	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	28		
21	P. Bhagyalakshmi	MECS	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	27		
22	T. Pavani	MECS	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	26		
23	T. Ramji	MECS	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	25		
24	T. Vineetha	MECS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	30		
25	A. Bhagyashri	MPCS	P	P	P	P	P	P	P	A	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	29		
26	B. Venkatesh	MPCS	P	P	P	P	P	P	A	P	A	P	A	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	28		
27	D. Tyothi	MPCS	P	P	P	P	P	P	A	P	A	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	27		
28	D. Jagadeesh	MPCS	P	A	P	P	P	A	P	A	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	26		
29	G. Jagadeesh	MPCS	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	25		
30	G. Lakshman Naidu	MPCS	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	29		
31	J. Rani	MPCS	P	P	A	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	28		
32	J. shanthi	MPCS	P	P	P	A	P	A	P	P	P	P	P	P	P	A	P	A	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	30	27		
33	K. Vijaya laxmi	MPCS	A	P	A	P	A	P	P	P	P	A	P	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	30	26		
34	M. Jaya Krishna	MPCS	P	A	P	P	P	P	P	A	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	25		
35	M. Haru prasad	MPCS	P	P	P	P	P	P	A	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	29		
36	M. shameeri	MPCS	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	28		



No.	NAME	Designation	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1221	1222	1223	1224	1225	1226	1227	1228	1229	1230	1231	1232	1233	12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**GCMM01**

**GOVT.DEGREE COLLEGE(MEN),SRIKAKULAM**

**CERTIFICATE COURSE**

**GRAPHS:SOLVING LINEAR EQUATIONS WITH  
GRAPHICAL METHODS**

MAX.MARKS:50

2019-20

TIME:02 HOURS

**SECTION A**

• Answer any FIVE of the following questions. ( $5 \times 10 = 50$ )

- (1) SKETCH THE GRAPH OF THIS FUNCTION  $f(x) = |x - 1|$
- (2) USE GEOMETRY TO FIND THE AREA OF THE REGIONS  $y = x$  AND  $y = 2x^2 - x$  BY USING GRAPHICAL METHOD.
- (3) NOW SKETCH THE REGION BELOW THE LINE  $y = 2x - 2$ , ABOVE THE  $x$ -AXIS, AND BETWEEN THE LINES  $x = 1$  AND  $x = t$ . FOR SOME  $t > 1$ .
- (4) IF  $R$  IS THE REGION BOUNDED ABOVE BY THE GRAPH OF THE FUNCTION  $f(x) = 9 - \left(\frac{x}{2}\right)^2$  AND BELOW BY THE GRAPH OF THE FUNCTION  $g(x) = 6 - x$ , FIND THE AREA OF REGION  $R$ .
- (5) DRAW THE GRAPH OF THE FUNCTION  $f(x) = \sin 2x$  IN  $x \in [0, \pi]$ .
- (6) DRAW THE GRAPH OF THE FUNCTION  $f(x) = x^2 - 2x + 1$  AND FIND ITS ZEROS FROM THE GRAPH.
- (7) EXPLAIN TYPES OF THE POLYNOMIAL.
- (8) DRAW THE GRAPH OF THE FUNCTION  $f(x) = \frac{2}{x-1}$ .

2019-20

7

	Name of the Student	Group	Grade	Signature
1.	K. Harikrishna	MCIC	A	K. Harikrishna
2.	L. Gangayya	MCIC	A+	L. Gangayya
3.	P. Saikrishna	MCIC	A	P. Saikrishna
4.	P. Yogeswara Rao	MCIC	B	P. Yogeswara Rao
5.	S. Srinivasa Rao	MCIC	A	S. Srinivasa Rao
6.	A. Srinu	MECS	A+	A. Srinu
7.	A. Amitha Sree	MECS	AB AB	
8.	A. Lilly Prasad	MECS	A	A. Lilly Prasad
9.	V. Sathari	MECS	B	V. Sathari
10.	V. Sonia	MECS	A	V. Sonia
11.	Ch. Venkata Sai Kiran	MECS	A	Ch. Venkata Sai Kiran
12.	G. Kumar Swami	MECS	B	G. Kumar Swami
13.	G. Taviti Naidu	MECS	A+	G. Taviti Naidu
14.	G. Veerajay	MECS	A+	G. Veerajay
15.	K. Chakradhar	MECS	A	K. Chakradhar
16.	K. Kesava Rao	MECS	B	K. Kesava Rao
17.	K. Srilatha	MECS	A	K. Srilatha
18.	P. Neelaveni	MECS	A	P. Neelaveni
19.	R. Nagaraju	MECS	A	R. Nagaraju
20.	S. Raja Ratnam	MECS	B	S. Raja Ratnam
21.	T. Bhagyalakshmi	MECS	B	T. Bhagyalakshmi
22.	T. Pavani	MECS	A	T. Pavani
23.	T. Ramji	MECS	AB	
24.	T. Vineetha	MECS	A+	T. Vineetha
25.	A. Bhagyassri	MPCS	A+	A. Bhagyassri
26.	B. Venkatesh	MPCS	A	B. Venkatesh
27.	D. Jyothi	MPCS	B	D. Jyothi
28.	D. Jagadeesh	MPCS	A	D. Jagadeesh
29.	G. Jagadeesh	MPCS	A	G. Jagadeesh
30.	G. Laxman Naidu	MPCS	A	



	Name of the student	Group	Grade	Signature
31	J. Rani	MPC	A+	J. Rani
32	J. Shanthi	MPC	AB	
33	K. Vijaya laxmi	MPC	A	K. Vijaya laxmi
34	M. Jaya Krishna	MPC	B	M. Jaya Krishna
35	M. Hari prasad	MPC	A	M. Hari prasad
36	M. shameen	MPC	A	M. Hari prasad
37	N. Koteswara Rao	MPC	B	N. Koteswara Rao
38	P. Keerthana	MPC	A	P. Keerthana
39	P. Divya Bharathi	MPC	A	P. Divya Bharathi
40	S. Chalapati Rao	MPC	A	S. Chalapati Rao
41	S. Jyothi	MPC	A	S. Jyothi
42	K. Bharathi	MPC	B	K. Bharathi
43	Y. Govinda Rao	MPC	B	Y. Govinda Rao
44	B. Suresh Kumar Reddy	MPE	AB	
45	M. Kalyan	MPE	A+	M. Kalyani
46	M. Hari Krishna	MPE	A+	M. Hari Krishna
47	P. Praveen	MPE	A	P. Praveen
48	R. Jagadeeshwar Rao	MPE	AB	
49	T. Deepak Singh	MPE	AB	
50	B. Tripura Sundara	MPE	AB	<del>B. Tripura Sundara</del>

chn

Lecturer in charge  
Dept. of Mathematics  
Govt. Degree College (Men)  
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This is certify that Mr./Kum. ....~~P. K. Rupakar~~..... of **Govt. Degree College (Men), Srikakulam** got registered himself/herself for the Certificate Course on **"Solving Equations by Graphical Methods"**, organized by the Department of mathematics and completed the course programme during from Sept 20 to Nov 20 his/her performance is credited with A Grade.

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This is certify that Mr./Kum. ...P. Saikumar..... of **Govt. Degree College (Men), Srikakulam** got registered himself/herself for the Certificate Course on **"Solving Equations by Graphical Methods"**, organized by the Department of mathematics and completed the course programme during from Sept 20.....to Nov 20.....his/her performance is credited with .....A..... Grade.

Head of the Department of Mathematics

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This is certify that Mr./Kum. ....~~P. Damakrishna~~..... of **Govt. Degree College (Men), Srikakulam** got registered himself/herself for the Certificate Course on "**Solving Equations by Graphical Methods**", organized by the Department of mathematics and completed the course programme during from ~~Sep. 20~~.....to ~~Nov 20~~.....his/her performance is credited with ..... Grade.

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This is certify that Mr./Kum. M. Rajasekar..... of **Govt. Degree College (Men), Srikakulam** got registered himself/herself for the Certificate Course on **"Solving Equations by Graphical Methods"**, organized by the Department of mathematics and completed the course programme during from Sept. 20.....to Nov. 20.....his/her performance is credited with AT..... Grade.

  
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This is certify that Mr./Kum. ....~~M. Bhargava~~..... of Govt. Degree College (Men), Srikakulam got registered himself/herself for the Certificate Course on "Solving Equations by Graphical Methods", organized by the Department of mathematics and completed the course programme during from Sep 20 to Nov 20 his/her performance is credited with ....A..... Grade.

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This is certify that Mr./Kum. M. Divya jyothi..... of Govt. Degree College (Men), Srikakulam got registered himself/herself for the Certificate Course on "Solving Equations by Graphical Methods", organized by the Department of mathematics and completed the course programme during from Sep'20.....to Nov'20 his/her performance is credited with B..... Grade.

Head of the Department of Mathematics

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This is certify that Mr./Kum. ....~~K. Dhilleshwari~~..... of **Govt. Degree College (Men), Srikakulam** got registered himself/herself for the Certificate Course on **"Solving Equations by Graphical Methods"**, organized by the Department of mathematics and completed the course programme during from ~~Sept 20~~ to ~~Nov 20~~ his/her performance is credited with .....~~B~~..... Grade.

Head of the Department of Mathematics

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This is certify that Mr./Kum. ....~~K. praveen kumar~~..... of Govt. Degree College(Men), Srikakulam got registered himself/herself for the Certificate Course on "Solving Equations by Graphical Methods", organized by the Department of mathematics and completed the course programme during from ~~Sep 20~~ to ~~Nov 20~~ his/her performance is credited with .....A..... Grade.

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Lecturer in charge  
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This is certify that Mr./Kum. C. Kireethi kumar..... of Govt.Degree College(Men),Srikakulam got registered himself/herself for the Certificate Course on "Solving Equations by Graphical Methods", organized by the Department of mathematics and completed the course programme during from Sept'20 to Nov'20 his/her performance is credited with A..... Grade.

Q

Guerrero  
principal

PRINCIPAL  
Govt. Degree College (Men)  
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This is certify that Mr./Kum. ...K. Madhu..... of Govt. Degree College(Men), Srikakulam got registered himself/herself for the Certificate Course on "**Solving Equations by Graphical Methods**", organized by the Department of mathematics and completed the course programme during from Sept. 20...to Nov. 20...his/her performance is credited with ....A..... Grade.

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Lecturer in charge  
Dept. of Mathamatics  
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This is certify that Mr./Kum. ....~~K. Harshini~~..... of Govt. Degree College (Men), Srikakulam got registered himself/herself for the Certificate Course on "**Solving Equations by Graphical Methods**", organized by the Department of mathematics and completed the course programme during from ~~Sept 20~~ to ~~Nov 20~~ his/her performance is credited with ..... **B** ..... Grade.

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This is certify that Mr./Kum. ....K. Nagamani..... of Govt. Degree College (Men), Srikakulam got registered himself/herself for the Certificate Course on **"Solving Equations by Graphical Methods"**, organized by the Department of mathematics and completed the course programme during from Sep'20 to Nov'20 his/her performance is credited with ....A..... Grade.

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This is certify that Mr./Kum. ....~~K. Bhavani Shankar~~..... of **Govt. Degree College (Men), Srikakulam** got registered himself/herself for the Certificate Course on **"Solving Equations by Graphical Methods"**, organized by the Department of mathematics and completed the course programme during from ~~Sept'20~~ to ~~Nov'20~~ his/her performance is credited with ..... Grade.

  
Head of the Department of Mathematics

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This is certify that Mr./Kum. ...~~I. Chomodhara Rao~~..... of **Govt. Degree College (Men), Srikakulam** got registered himself/herself for the Certificate Course on "**Solving Equations by Graphical Methods**", organized by the Department of mathematics and completed the course programme during from Sep'20 to Nov'20 his/her performance is credited with ...AT..... Grade.

  
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This is certify that Mr./Kum. ....~~G. Satyanarayana~~..... of **Govt. Degree College (Men), Srikakulam** got registered himself/herself for the Certificate Course on "**Solving Equations by Graphical Methods**", organized by the Department of mathematics and completed the course programme during from.....~~Sep'20~~.....to.....~~Nov'20~~.....his/her performance is credited with ....~~AT~~..... Grade.

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This is certify that Mr./Kum. ....G. Anuradha..... of **Govt. Degree College (Men), Srikakulam** got registered himself/herself for the Certificate Course on "**Solving Equations by Graphical Methods**", organized by the Department of mathematics and completed the course programme during from Sep'20 to Nov'20 his/her performance is credited with .....A<sup>+</sup>..... Grade.

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Head of the Department of Mathematics

Lecturer in charge  
Dept. of Mathamatics  
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This is certify that Mr./Kum. ....~~G. Tanu~~..... of Govt. Degree College (Men), Srikakulam got registered himself/herself for the Certificate Course on "Solving Equations by Graphical Methods", organized by the Department of mathematics and completed the course programme during from Sep'20 to Nov'20 his/her performance is credited with B Grade.

  
Head of the Department of Mathematics  
Lecturer in charge  
Dept. of Mathematics  
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This is certify that Mr./Kum. ....G. Rohit..... of **Govt. Degree College (Men), Srikakulam** got registered himself/herself for the Certificate Course on "**Solving Equations by Graphical Methods**", organized by the Department of mathematics and completed the course programme during from.....Sep'20.....to.....Nov'20.....his/her performance is credited with .....A..... Grade.

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Lecturer in charge  
Dept. of Mathamatics  
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This is certify that Mr./Kum. ....D. Upendra..... of **Govt. Degree College (Men), Srikakulam** got registered himself/herself for the Certificate Course on **"Solving Equations by Graphical Methods"**, organized by the Department of mathematics and completed the course programme during from Sep'20 to Nov'20 his/her performance is credited with ....A..... Grade.

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Lecturer in charge  
Dept. of Mathematics  
Govt. Degree College (Men)  
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This is certify that Mr./Kum. ....C.: ~~Pamula~~..... of Govt. Degree College (Men), Srikakulam got registered himself/herself for the Certificate Course on "Solving Equations by Graphical Methods", organized by the Department of mathematics and completed the course programme during from Sep '20 to Nov '20 his/her performance is credited with ..... B ..... Grade.

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This is certify that Mr./Kum. ....~~C. Gayatri~~..... of **Govt. Degree College (Men), Srikakulam** got registered himself/herself for the Certificate Course on **"Solving Equations by Graphical Methods"**, organized by the Department of mathematics and completed the course programme during from Sep'20 to Nov'20 his/her performance is credited with .....~~A~~<sup>+</sup>..... Grade.

Head of the Department of Mathematics

Lecturer in charge  
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Govt. Degree College (Men)  
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This is certify that Mr./Kum. ...B: prem kumar..... of Govt. Degree College (Men), Srikakulam got registered himself/herself for the Certificate Course on "Solving Equations by Graphical Methods", organized by the Department of mathematics and completed the course programme during from Sep '20 to Nov '20 his/her performance is credited with .....A..... Grade.

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Dept. of Mathematics  
Govt. Degree College (Men)  
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This is certify that Mr./Kum. B. Tejeswani..... of **Govt. Degree College (Men), Srikakulam** got registered himself/herself for the Certificate Course on **"Solving Equations by Graphical Methods"**, organized by the Department of mathematics and completed the course programme during from Sep'20 to Nov'20 his/her performance is credited with ..... B ..... Grade.

  
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Lecturer in charge  
Dept. of Mathamatics  
Govt. Degree College (Men)  
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This is certify that Mr./Kum. ~~B. Durga Bhavani~~..... of Govt. Degree College (Men), Srikakulam got registered himself/herself for the Certificate Course on "**Solving Equations by Graphical Methods**", organized by the Department of mathematics and completed the course programme during from <sup>SEP'20</sup>.....to <sup>NOV'20</sup>.....his/her performance is credited with ...<sup>A+</sup>..... Grade.

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Lecturer in charge  
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This is certify that Mr./Kum. A: Saleem mi..... of Govt. Degree College (Men), Srikakulam got registered himself/herself for the Certificate Course on "Solving Equations by Graphical Methods", organized by the Department of mathematics and completed the course programme during from Sep'20 to Nov'20 his/her performance is credited with ..... A<sup>+</sup> ..... Grade.

Head of the Department of Mathematics

Lecturer in charge  
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This is certify that Mr./Kum. ...~~A. Ramana~~... of Govt. Degree College (Men), Srikakulam got registered himself/herself for the Certificate Course on "Solving Equations by Graphical Methods", organized by the Department of mathematics and completed the course programme during from Sep 20 to Nov 20 his/her performance is credited with A Grade.

Head of the Department of Mathematics

Lecturer in charge  
Dept. of Mathematics  
Govt. Degree College (Men)  
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## Government Degree College (M), Srikakulam

### Feedback



Name of the event	CERTIFICATE COURSE
Department	Mathematics
Date	18-04-2020
Name of student	G. Tavitinaidu
Class	MECS
Mobile no.	-

1. Did the event fulfil its objectives?

✓ 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.

5. Suggestions if any

*We need more graphs*

*G. Tavitinaidu*  
Signature of the Student





## Government Degree College (M), Srikakulam

### Feedback



Name of the event	CERTIFICATE COURSE
Department	Mathematics
Date	18-04-2020
Name of student	S. JYOTHI
Class	MPCS
Mobile no.	-

1. Did the event fulfil its objectives?

✓ 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.

5. **Suggestions if any :**

Explain some basic Concepts

S. Jyothi  
Signature of the Student



## **Government Degree College (M), Srikakulam** **Feedback**



Name of the event	CERTIFICATE COURSE
Department	Mathematics
Date	18-04-2020
Name of student	P.PRAVEEN
Class	MPE
Mobile no.	

1. Did the event fulfil it's objectives?

✓ 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.

5. Suggestions if any — Nil —

*P. Praveen*  
**Signature of the Student**



# **Government Degree College (M), Srikakulam**



## **Consolidated Feedback**

Total no. of Participants = 50

No. of participants from whom feedback is collected = 46

S.No		No. of participants graded "Yes"		No. of participants graded "No"		
1	Did the event fulfil its objectives	46		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	13	33
4	Rate the overall success of the event	-	-	-	28%	72%
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 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 Mathematics  
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2019-20

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