



COMMISSIONERATE OF COLLEGIATE EDUCATION, A.P.



**GOVERNMENT DEGREE COLLEGE, RAJAMPETA**

(Affiliated to Yogi Vemana University, Kadapa)  
(Re-accredited by NAAC with "B+" Grade in cycle - III)  
Rajampet-516115

**ACADEMIC CURRICULAR PLAN**

ACADEMIC YEAR: 2025-2026

Name of the Department : Mathematics

Name of the Lecturer : V.K. Mastan Yala

Semester - II

Annual Curricular Plan for the Academic Year : 2025-2026

Sl. No.	Month	Week	Hours Available	Syllabus/ Topic	Additional Input/Value Addition	Curricular activity				Co-curricular activity				Remarks
						Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	
1	J U L Y	I week	5	multiple integrals	solved problems	Yes	5	Yes		Yes	1	Some like exercises problems		
2		II week	5	Double integrals	solved problems	Yes	5	Yes		Yes	1	practice like example problems		
3		III week	5	Region to integrate Double integrals in polar-coords	solved problems	Yes	5	Yes		Yes	1	practice exercises problems		
4		IV week	5	triple integrals	solved problems	Yes	5	Yes		Yes	1	practice exercises problems		
5	A U G	I week	5	vector differentiation	solved problems	Yes	5	Yes						
6		II week	5	Partial Diff	solved problems	Yes	5	Yes		Yes	1	Slip test conducted		
7		III week	5	Directional Derivative	solved problems	Yes	5	Yes						
8		IV week	5	-Angle also the surfaces will explain	solved problems	Yes	5	Yes		Yes	1	Slip test conducted		

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Class: B.Sc Year: II Semester: V Subject: Mathematics Paper: Vector Calculus Annual Curricular Plan for the Academic Year: 2025-2026

Sl. No.	Month	Week	Hours Available	Syllabus/ Topic	Additional Input/Value	Curricular activity				Co-curricular activity				
						Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	
1	Sep	I week	5	Vector Diff-II	solved	Yes	5	Yes		Yes	1	Assign		
2		II week	5	prob. on curl	solved prob	Yes	5	Yes		Yes	1	Assign		
3	Oct	III week	5	prob. on divergence	solved prob	Yes	5	Yes		Yes				
4		IV week	}	DATA	HOL-DAY									
5		I week												
6		II week				5	Vector integrals	solved	Yes	5	Yes		Yes	1
7	III week	5	surface integrals	solved	Yes	5	Yes		Yes	1	Seminar			
8	IV week	5	volume integrals	solved	Yes	5	Yes							

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Annual Curricular Plan for the Academic Year :

Sl. No.	Month	Week	Hours Available	Syllabus/Topic	Additional Input/Value Addition	Curricular activity				Co-curricular activity				Remarks
						Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	
1		I week	5	Application & IIT Gauss's theorem	Solved Puls	5	Yes		Yes	1	Seminar			
2		II week	5	Stokes thm with examples.	Solved Puls	5	Yes							
3	Nov	III week												
4		IV week												
5		I week												
6		II week												
7		III week												
8		IV week												

Class: TS&E Year: 19 Sem: 2 Subject: Mathematics Paper: Vector Calculus

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Scanned by - III

Annual Curricular Plan for the Academic Year :

2025 - 2026

Class: B.Sc

Year: II

Sem: III

Subject: Mathematics

Paper: Group Theory

Sl. No.	Month	Week	Hours Available	Syllabus/Topic	Additional Input/Value Addition	Curricular activity				Co-curricular activity				
						Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	
1	J	I week	5	Binary operations Abelian structure	solved prob	yes	5	yes						
2	J	II week	5	Def. of group cosets Finite & infinite groups	Example prob	yes	5	yes		yes	1		solve the example prob	
3	U	III week	5	Theorems & order of a group	solved prob	yes	5	yes						
4	L	IV week	5	Composition table with examples	solved prob	yes	5	yes		yes	1		solve the example prob	
5	Y	I week	5	Cyclic, multiplicative & inverse of a group	solved prob	yes	5	yes						
6	A	II week	5	sub groups - product cosets, isotherm & isq	solved prob	yes	5	yes						
7	V	III week	5	Theorems, Co-sets and cosets.	solved prob	yes	5	yes		yes	1		Apply the example prob	
8	9	IV week	5	isotherm of a subgroup Lagrange's theorem	solved prob	yes	5	yes		yes	1		Apply the example prob	

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Annual Curricular Plan for the Academic Year : 2025-2026

Sl. No.	Month	Week	Hours Available	Syllabus/ Topic	Additional Input/Value Addition	Curricular activity				Co-curricular activity				Remarks
						Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	
1	S	I week	5	Normal subgrp Theorem.	Yes solved prob	5	Yes		Yes	1	Yes			
2	E	II week	5	Introduction to four normal subgroups	solved prob	5	Yes		Yes	1	Yes	Assignments		
3	P	III week	5	Eq's invar & Gauss Homomorphism	solved prob	5	Yes					Assignments		
4		IV week												
5		I week												
6	O	II week	5	Image, dualizing Propositions Ring	solved prob	5	Yes		Yes	1		slip test conduct		
7	C	III week	5	Decomposition, subgroups Lagrange's theorem Fundamental theorem	solved prob	5	Yes							
8		IV week	5	Permutation of cycle grp case, Ring	solved prob	5	Yes		Yes	1		Seminar Conduct		

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Annual Curricular Plan for the Academic Year :

Class: B.Sc Year: I Sem: I Subject: Mathematics Paper: Group 1

Sl. No.	Month	Week	Hours Available	Syllabus/Topic	Additional Input/Value Addition	Curricular activity				Co-curricular activity			
						Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
1	N	I week	5	mathematics, surface	solved prob	5	yes		yes	1	seminar		
2		II week	5	even odd, cycles	cycle prob, elementary solved prob	5	yes						
3	O	III week											
4	V	IV week											
5		I week											
6		II week											
7		III week											
8		IV week											

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Class: B.Sc Year: II Sem: IV Subject: Mathematics Paper: Numerical methods Annual Curricular Plan for the Academic Year : 2025-2026

Sl. No.	Month	Week	Hours Available	Syllabus/ Topic	Additional Input/Value Addition	Curricular activity			Co-curricular activity			Remarks	
						Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted		Whether Conducted
1	J U L Y	I week	5	Endorexyl (eno) problem on 2, 3, 4, 5	solved prob	Yes	5	Yes		Yes	1	solve the examples	
2		II week	5	Dalton's law Eg D and O and 2	solved prob	Yes	5	Yes					
3		III week	5	Problem on molar mass.	solved prob	Yes	5	Yes		Yes	1	slip for credit	
4		IV week	5	Enthalpy of fusion of water.	solved prob	Yes	5	Yes					
5	A U G	I week	5	Newton - Forward Backward formula	solved prob	Yes	5	Yes		Yes	1	Assign ques	
6		II week	5	Newton's Second diff. formula	solved prob	Yes	5	Yes		Yes	1	solve the examples	
7		III week	5	Logarithm in Hypotenuse formula. Problem	solved prob	Yes	5	Yes					
8		IV week	5	Central diff. and Rabin's law	solved prob	Yes	5	Yes		Yes		1	Assign ques

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Annual Curricular Plan for the Academic Year : 2025-2026

Class: B.S Year: 11 Sem: 11 Subject: Mathematics Paper: Numerical Methods

Sl. No.	Month	Week	Hours Available	Syllabus/ Topic	Additional Input/Value Addition	Curricular activity				Co-curricular activity			
						Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
1		I week	5	Group Based, case and final, case studies	solved probs	5	Yes		Yes	1	ship for conduct		
2	S	II week	5	Statistics final Exmples.	solved probs	5	Yes		Yes	1	Argument		
3	E	III week	5	Revision method Pythagoras method	solved probs	5	Yes		Yes	1	10 Mc Qs Examples		
4	P	IV week	?										
5		I week											
6	0	II week	5	iteration, Newton Raphan method	solved probs	5	Yes		Yes	1	Seminar		
7	C	III week	5	Problems on all methods	solved probs	5	Yes		Yes	1	Argument		
8	T	IV week	5	curve fitting, fitting a straight line	solved probs	5	Yes		Yes	1	Seminar		

DISASTER HOLIDAYS —

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Annual Curricular Plan for the Academic Year : 2024-2024

Sl. No.	Month	Week	Hours Available	Syllabus/ Topic	Additional Input/Value Addition	Curricular activity				Co-curricular activity				Remarks	
						Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date		
1	NOV	I week	5	non linear curve fitting graphs	solved prob	Yes	5	Yes		Yes	1	Summery			
2		II week	5	Curve fitting by a sum to exponential	solved prob	Yes	5	Yes							
3		III week													
4		IV week													
5		I week													
6		II week													
7		III week													
8		IV week													

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Semester - I

Class: 13. CE Year: I Semester: I Paper: Solved Grading

Sl. No.	Month	Week	Hours Available	Syllabus/Topic	Additional Input/Value Addition	Curricular activity				Co-curricular activity					
						Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date		
1		I week													
2	5	II week													
3	E	III week	5	Def & plan, concept form, Sp & plan projects etc. parts	Solved prob	yes	5	Yes							
4	P	IV week	5												
5		I week													
6	0	II week	5	Co-learner, analysis plan, logics & etc. from part to part	Solved prob	yes	5	Yes			yes	1	Solved & excerpts		
7	C	III week	5	Exercises to explain the plan & problem	Solved prob	yes	5	Yes							
8		IV week	5	Continued on to plan design	Solved prob	yes	5	Yes			yes	1	to be in exams also		

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Annual Curricular Plan for the Academic Year : 2025-2026

Sl. No.	Month	Week	Hours Available	Syllabus/Topic	Additional Input/Value Addition	Curricular activity				Co-curricular activity				Remarks
						Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	
1	N	I week	5	Pair to play with angles	solved prob	Yes	5	Yes		Yes	1	slip test		
2		II week	5	The line angle	solved prob	Yes	5	Yes		Yes	1	Assignment		
3		III week	5	Two lines are coplanar	solved prob	Yes	5	Yes		Yes	1	Assignment		
4		IV week	5	The S.O of two lines and its angles	solved prob	Yes	5	Yes		Yes	1	solve the example prob		
5	D	I week	5	Lengths of segs. I from same point to line	solved prob	Yes	5	Yes		Yes	1	Summary conducted		
6		II week	5	Sphere, proving the points, show extent of	solved prob	Yes	5	Yes						
7		III week	5	Introduction to sphere	exam. prob	Yes	5	Yes		Yes	1	slip test conducted		
8	C	IV week	5	Tangent, normal at pt	solved prob	Yes	5	Yes						
				conjugate points										

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Class: BSc

Year: I

Sem: I

Subject: Mathematics

Paper: Solid Geometry

Annual Curricular Plan for the Academic Year :

Sl. No.	Month	Week	Hours Available	Syllabus/ Topic	Additional Input/Value Addition	Curricular activity			Co-curricular activity				
						Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
1		I week		Reduced plan limiting periods	to be done	Yes	5	Yes		Yes	1	Evening.	
2	J	II week	7	sankranti	Holidays	Yes			(10-01-2016 to 18-01-2016)				
3	A	III week	7										
4	N	IV week	5	Ramnavam									
5		I week											
6		II week											
7		III week											
8		IV week											

B.Sc

Year: 1

Sem: 2

Subject: Mathematics

Paper: S.A.D. Geometry

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# Semester - IV

## Annual Curricular Plan for the Academic Year :

Sl. No.	Month	Week	Hours Available	Syllabus/Topic	Additional Input/Value Addition	Curricular activity				Co-curricular activity				Remarks				
						Subject:	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted		If not Alternate Date			
																Sem:	Paper:	Paper:
1		I week																
2	D	II week	5	Square and Lungs Range and numbers Least of a group	Solved probs	Yes	5	Yes										
3	E	III week	5	Convergent & divergent multiplicative inverse	Solved probs	Yes	5	Yes		Yes	1	Solve easy probs						
4	C	IV week	5	History of SC & C Cartesian coordinate Polynomial division	Solved probs	Yes	5	Yes										
5		I week	5	Teacher's guide Infantile name with eqs	Solved probs	Yes	5	Yes		Yes	1	Solve easy probs						
6	J	II week		Sankranti holidays (10-01-2026 to 18-01-2026)														
7	A	III week																
8	N	IV week	5	P-Test with eqs Conjugate pairs	Solved probs	Yes	5	Yes		Yes	1	Assignment given						

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Annual Curricular Plan for the Academic Year : 2024-2026

Sl. No.	Month	Week	Hours Available	Syllabus/ Topic	Additional Input/Value Addition	Curricular activity				Co-curricular activity			
						Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
1	F	I week	5	D-aldehydes first lesson/2 <sup>nd</sup> with expts.	Solved probs	Yes	5	Yes		Yes	1	Clipped	
2		II week	5	Continuity with expts probs on emerald dihyd	Solved probs	Yes	5	Yes		Yes	1	Vol service prob	
3	E	III week	5	Continuity from 2 <sup>nd</sup> input, various expts	Solved probs	Yes	5	Yes		Yes	1	Around	
4		IV week	5	Problems and theory on various continuity	Solved prob	Yes	5	Yes					
5	M	I week	5	Differentiation, maxima Minos, Collas lines	Solved probs	Yes	5	Yes		Yes	1	Summer Conclsr	
6		II week	5	Logarithm, Continuity with probs	Solved prob	Yes	5	Yes		Yes	1	Summer Conclsr	
7	C	III week	5	Recursive integration properties of Riemann integrals	Solved probs	Yes	5	Yes		Yes	1	Vol service prob	
8		IV week	5	Resonance in LC circuit Problems	Solved probs	Yes	5	Yes		Yes	1	Vol service prob	

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Annual Curricular Plan for the Academic Year : 2025-2026

Class: V-SL Year: I Sem: IV Subject: Mathematics Paper: Real Analysis

Sl. No.	Month	Week	Hours Available	Syllabus/ Topic	Additional Input/Value Addition	Curricular activity				Co-curricular activity				Remarks		
						Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date			
1	A P R I L	I week	5	Limit of a function	solved prob	Yes	5	Yes								
2		II week														
3		III week														
4		IV week														
5		I week														
6		II week														
7		III week														
8		IV week														

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Scanned - 2

Class: B.Sc		Year: 1		Sem: II		Subject: Mathematics				Paper: Group 1/2							
Sl. No.	Month	Week	Hours Available	Syllabus/Topic	Additional Input/Value Addition	Curricular activity				Co-curricular activity							
						Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date				
1		I week															
2	F	II week	5	Binary operation Arithmetic sets	Solved prob	Yes	5	Yes									
3	E	III week	5	Group, finite & infinite groups order & group	Solved prob	Yes	5	Yes		Yes	1	Solve in exercise pts					
4	B	IV week	5	Compartion tables with examples	Solved prob	Yes	5	Yes									
5		I week	5	Complex, multiple ad inverse do copy	Solved prob	Yes	5	Yes		Yes	1	short conduct					
6	M	II week	5	Subgroup, product Union, intersection	Solved prob	Yes	5	Yes		Yes	1	Solve in exercise pts					
7	R	III week	5	Theremo, Co-set with exa, logical	Solved prob	Yes	5	Yes		Yes	1	Assign group work					
8	C	IV week	5	Normal subgroup intersection & normality	Solved prob	Yes	5	Yes		Yes	1	Assign group work					

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Annual Curricular Plan for the Academic Year : 2015-2016

Sl. No.	Month	Week	Hours Available	Syllabus/Topic	Additional Input/Value Addition	Curricular activity				Co-curricular activity				Remarks
						Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	
Class: <u>TB. &amp;</u> Year: <u>I</u> Sem: <u>II</u> Subject: <u>Mathematics</u> Paper: <u>Group - B</u>														
1	A	I week	5	C.G & binomial theorem with expts	Solved prob	Yes	5	Yes		Yes	1	Solve exam prob		
2	P	II week	5	Image, distance, Area, Perimeter, Antennas	Solved prob	Yes	5	Yes		Yes	1	Solve exam prob		
3	R	III week	5	Kernel to theorem, Binomial theorem	Solved prob	Yes	5	Yes		Yes	1	Solve exam prob		
4	S	IV week				HOLIDAYS [from April 21 to May 30]								
5	L	I week	5	Permutation	Solved prob	Yes	5	Yes		Yes	1	Solve exam prob		
6	J	II week	5	Chebe py with expts	Solved prob	Yes	5	Yes		Yes	1	Solve exam prob		
7	D	III week	5	maths, physics, science	Solved prob	Yes	5	Yes						
8	P	IV week												

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