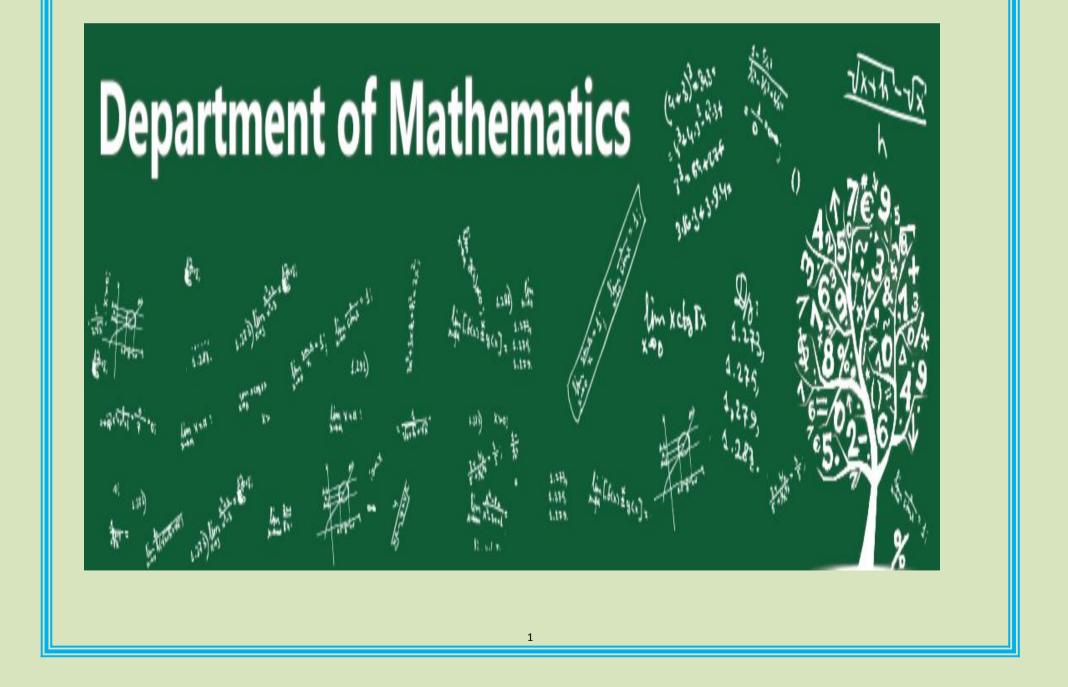




GOVERNMENT DEGREE COLLEGE PALONCHA BHADRADRI KOTHAGUDEM DISTRICT

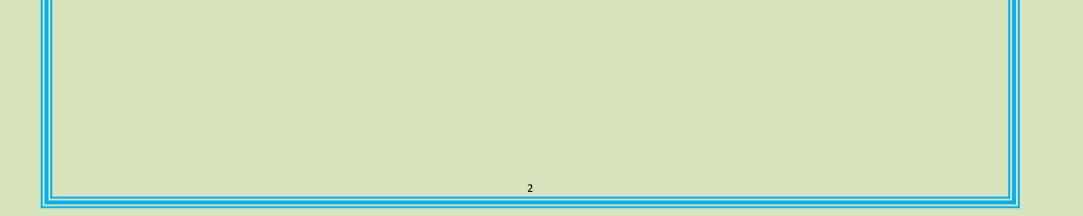
TELANGANA STATE (Affiliated to Kakatiya University)

DEPARTMENTAL PROFILE



INDEX

S.No.	TOPIC NAME	PAGE NUMBERS		
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1	History of the Department (INTRODUCTION)	3	3	
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INTRODUCTION

The Department of Mathematics was started in 2009 with the B.Sc.(MPC) (TELUGU MEDIUM) course. The Department organizes Mathematical Field Trips and study tours at different places for studying and acquiring knowledge skills and visited different Local institutions (As per MOU). Field work experiences at field and Institutes. The faculty is always available to guide and council the students and remain friendly and accessible. Special coaching for different entrance examinations after graduation. Departmental Library is also available with reference books. The Department of Mathematics has available Departmental Library and Digital Library and again Reading Room, Computers Lab Facility is available to students with Internet Facility.

Department of Mathematics was established in the year 2009-10 with B.Sc.,(MPC) (TELUGU MEDIUM) Course in ug section. Initially B.Sc.(MPC) Telugu Medium programme was offered, subsequently B.Sc.(MPC's) E.M. programme was introduced in the academic year 2018-19. B.Sc.,(MPC)(EM) & B.Sc.,(MPC's)(EM) ug courses are continuing in present. In UG courses CBCS system introduced since 2016-17 academic year.

AIMS AND OBJECTIVES

Recognize that mathematics permeates the world around us appreciate the usefulness, power and beauty of mathematics.

- Enjoy mathematics and develop patience and persistence when solving problems.
- Understand and be able to use the language, symbols and notation of mathematics.
- Develop mathematical curiosity and use inductive and deductive reasoning when solving problems.

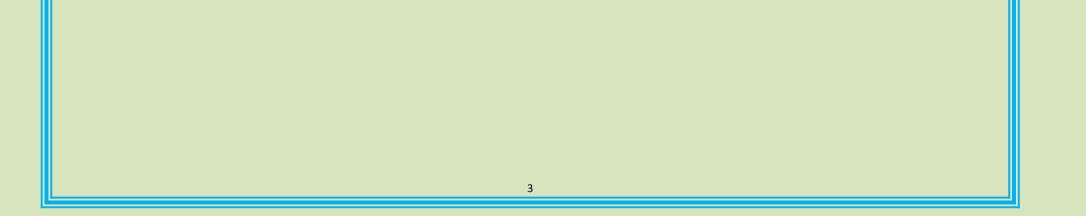
VISION & MISSION

The Vision of the Mathematics Department

 \diamond To create an enlighten society of educated young minds with scientific temperament, logical analysis and rational thinking.

The Mission of the Mathematics Department

♦ By preparing the students not only for the three year academic phase but also for the Period where they have to struggle individually for their careers and jobs. The Mission of the Department of Mathematics is to advance the Mathematical Sciences through the education of undergraduate students by providing them with quality class room, reesearch and service opportunities, With a high standard for excellence in all three areas the department will produce students who are knowledgeable in mathematics and can think critically.



STRENGTH, WEAKNESS OPPORTUNITIES AND CONSTRAINTS

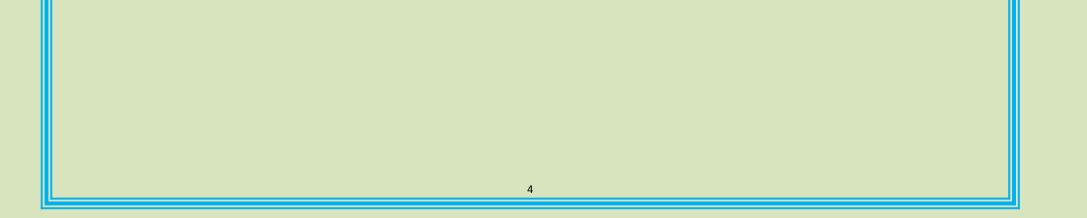
Strengths: Efficient, sincere and hardworking team of faculty members, many of whom have talents other than teaching. A well-equipped laboratory and teachers with research experience

4

Weakness: Despite the best efforts put in by the faculty members could produce only a few rankers in PG entrance.

Opportunities: Students are very hard working and sincere so that the Department can have better meritorious achievements. With the talents in students to develop better overall personality. With infrasturctural facilities quality education can be carried out by students and teacher.

Challanges: To promote hard work and uplift the scholastic capacities of students through appropriate motivation is a major challenge. To cultivate research aptitude among them.

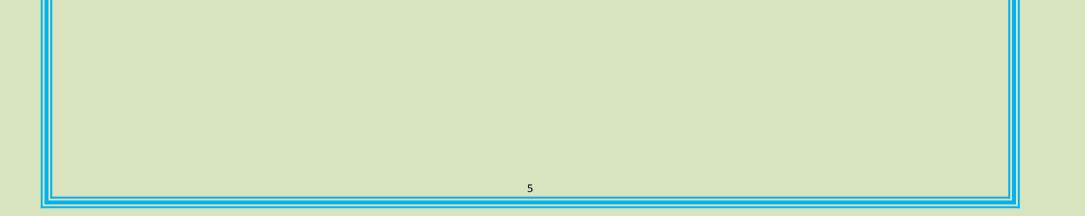


BIODATA OF THE STAFF

5



NAME : P.SRINIVASA RAO
 DESIGNATION : LECTURER IN MATHEMATICS
 EDUCATION/QUALIFICATION: M.Sc. S.E.T. M.Phil. B.Ed.
 EXPERIENCE: 22 YEARS



CRITERIA-I

CURRICUAR ASPECTS

COURSES OFFERED

Department of Mathematics was established in the year 2009-10 with B.Sc., (MPC)
 (TELUGU MEDIUM) Course in ug section.

6

Initially B.Sc.(MPC) Telugu Medium programme was offered, subsequently
 B.Sc.(MPC's) E.M. programme was introduced in the academic year 2018-19.

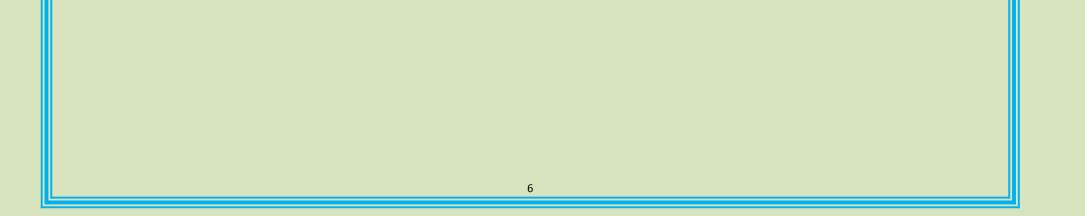
- B.Sc., (MPC) (EM) & B.Sc., (MPC's) (EM) ug courses are continuing in present.
- In UG courses CBCS system introduced since

2016-17 academic year.

In Present Academic Year Offered Courses: B.Sc., (MPC)(EM); AND B.Sc., (MPC's)(EM)

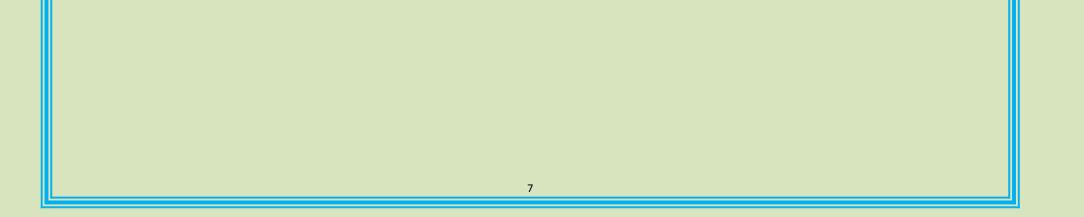
	Synabus ZOTO Tear Wise								
Course	Papers	Topics	Max. Marks						
B.Sc.,	I YEAR	DIFFERENTIAL	50+100=150						
		EQUATIONS							
	II YEAR	REAL	50+100=150						
		ANALYSIS							
	III Year :	LINEAR	50+100=150						
	paper-III	ALGEBRA							
	III Year :	NUMERICAL	50+100=150						
	paper-IV	ANALYSIS							

Syllabus 2016 Year Wise



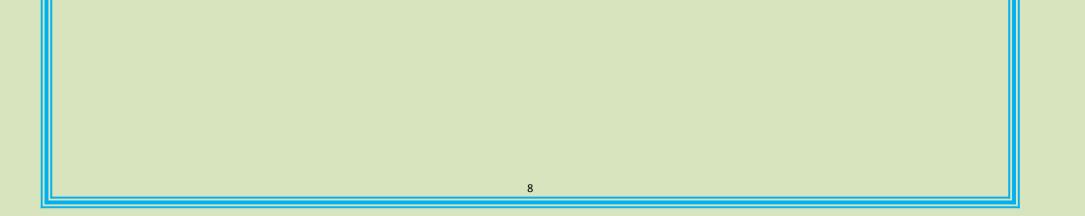
Syllabus 2016-19 Semester Wise

Course	Papers	Topics	Max. Marks
B.Sc.,	I Year I Sem	Differential	20+80=100
	(Sem-1)	Calculus &	
		Integral Calculus	
	I Year II Sem	Differential	20+80=100
	(Sem-2)	Equations	
	II Year I Sem	Real Analysis	20+80=100
	(Sem-3)		
	II Year II Sem	Abstract	20+80=100
	(Sem-4)	Algebra	
	III Year I Sem	Paper-1: Linear	20+80=1
	(Sem-5)	AlgebraPaper-2:	00
		Vector Calculus	20+80=1
			00
	III Year II	Paper-1:	20+80=1
	Sem (Sem-6)	Analytical Solid	00
		GeometryPaper-	20+80=1
		2: Numerical	00
		Analysis	



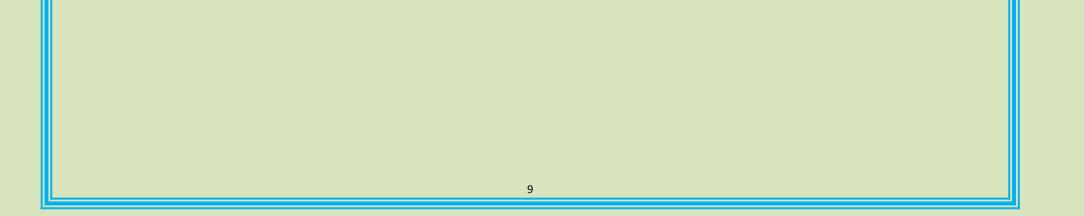
Syllabus From Year 2019 Semester Wise

Course	Papers	Topics	Max. Marks
B.Sc.,	l Year I Sem	Differential	20+80=100
	(Sem-1)	Calculus &	
		Integral Calculus	
	l Year II Sem	Differential	20+80=100
	(Sem-2)	Equations	
	II Year I Sem	Real Analysis	20+80=100
	(Sem-3)		
	II Year II Sem	Abstract	20+80=100
	(Sem-4)	Algebra	
	III Year I Sem	Paper-1: Linear	20+80=1
	(Sem-5)	AlgebraPaper-2:	00
		Vector Calculus	20+80=1
			00
	III Year II	Paper-1:	20+80=1
	Sem (Sem-6)	Analytical Solid	00
		GeometryPaper-	20+80=1
		2: Numerical	00
		Analysis	



Syllabus from Academic Year 2021-22 Semester Wise

Course	Papers	Topics	Max. Marks
B.Sc.,	I Year I Sem	Differential Calculus	20+80=100
	(Sem-1)	& Integral Calculus	
	I Year II Sem	Differential	20+80=100
	(Sem-2)	Equations	
	II Year I Sem	Real Analysis	20+80=100
	(Sem-3)		
	II Year II Sem	Abstract Algebra	20+80=100
	(Sem-4)		
	III Year I Sem	Linear Algebra	20+80=10
	(Sem-5)		0
			20+80=10
			0
	III Year II	VI-A: Numerical	20+80=10
	Sem (Sem-6)	Analysis	0
		VI-B: INTEGRAL	20+80=10
		TRANSFORMS	0
		VI-C:	
		ANALYTICAL SOLID	
		GEOMETRY(ELECTIVE	
		PAPER: VI-C)	



DEPARTMENT OF MATHEMATICS PAPERS AND CREDITS

SL.NO.	PAPER	TITLE OF THE PAPER	THEORY	PRACTICAL	TOTAL
			CREDITS	CREDITS	CREDIT
					S
1	I	DIFFERENTIAL AND INTEGRAL	4	1	5
		CALCULUS ; DIFFERENTIAL			
		EQUATIONS			
2	II.	REAL ANALYSIS ; ABSTRACT	4	1	5
		ALGEBRA			
3	111	LINEAR ALGEBRA ; VECTOR	4	1	5
		CALCULUS			
4	IV	ANALYTICAL SOLID	4	1	5
		GEOMETRY ; NUMERICAL			
		ANALYSIS			
5	DSE-IA	Basic	4	1	5
	(SEM-5)	Mathematics(OR)Mathematics			
		for Economics & Finance			
6	DSE-IIB	Theory of Equations (OR)Logic	4	1	5
	(SEM-6)	& Sets			

COURSE OUTCOMES OF B.Sc., (MATHEMATICS)

I (semester-1): 2.1 Differential and Integral Calculus DSC-1A

BS: 101

Theory: 5 credits and Tutorials: 0 credits

Theory: 5 hours/week and Tutorials: 1 hours/week

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Objective: The course is aimed at exposing the students to some basic notions in differential calculus.

Outcome: By the time students complete the course they realize wide ranging applications of the subject.

Unit-I

Partial Differentiation: Introduction - Functions of two variables - Neighbour hood of a point (a, b) - Continuity of a Function of two variables, Continuity at a point - Limit of a Function of two variables - Partial Derivatives - Geometrical representation of a Function of two Variables - Homogeneous Functions.

Unit-II

Theorem on Total Differentials - Composite Functions - Differentiation of Composite Functions -Implicit Functions - Equality of $f_{xy}_{(a,b) and} = f_{yx}_{(a,b)}$ - Taylor's theorem for a function of two Variables -Maxima and Minima of functions of two variables - Lagrange's Method of undetermined multipliers.

Unit-III

Curvature and Evolutes: Introduction - Definition of Curvature - Radius of Curvature - Length of Arc as a Function, Derivative of arc - Radius of Curvature - Cartesian Equations - Newtonian Method - Centre of Curvature - Chord of Curvature.

Evolutes: Evolutes and Involutes - Properties of the evolute.

Envelopes: One Parameter Family of Curves - Consider the family of straight lines - Definition - Determination of Envelope.

Unit-IV

Lengths of Plane Curves: Introduction - Expression for the lengths of curves y=f(x) - Expressions for the length of arcs x=f(y); x=f(t), $y=\Phi(t)$; $r=f(\theta)$

Volumes and Surfaces of Revolution: Introduction - Expression for the volume obtained by revolving about either axis - Expression for the volume obtained by revolving about any line - Area of the surface of the frustum of a cone - Expression for the surface of revolution - Pappus Theorems - Surface of revolution.

Text:

- Shanti Narayan, P.K.Mittal Differential Calculus, S.CHAND, NEW DELHI
- Shanti Narayan Integral Calculus, S.CHAND, NEW DELHI

References:

• William Anthony Granville, Percey F Smith and William Raymond Longley ; Elements of the Differential and integral calculus

- Joseph Edwards, Differential calculus for beginners
- Smith and Minton, Calculus
- Elis Pine, How to Enjoy Calculus
- Hari Kishan, Differential Calculus

SEMESTER-II

2.2 DIFFERENTIAL EQUATIONS

DSC-1B

BS: 201

Theory: 5 credits and Tutorials: 0 credits Theory: 5 hours/week and Tutorials: 1 hours/week

Objective: The main aim of this course is to introduce the students to the techniques of solving differential equations and to train to apply their skills in solving some of the problems of engineering and science.

Outcome: After learning the course the students will be equipped with the various tools to solve few types differential equations that arise in several branches of science.

Unit-I

Differential Equations of first order and first degree: Introduction - Equations in which variables are Separable- Homogeneous Differential Equations - Differential Equations Reducible to Homogeneous Form - Linear Differential Equations - Differential Equations Reducible to Linear Form - Exact differential equations - Integrating Factors - Change in variables - Total Differential Equations - Simultaneous Total Differential Equations - Equations of the form $\frac{dx}{P} = \frac{dy}{O} = \frac{dz}{R}$

Unit-II

Differential Equations first order but not of first degree: Equations Solvable for p - Equations Solvable for y - Equations Solvable for x - Equations that do not contain x (or y) - Equations Homogeneous in x and y - Equations of the First Degree in x and y - Clairaut's equation.

Applications of First Order Differential Equations: Growth and Decay - Dynamics of Tumour Growth -Radoactivity and Carbon Dating - Compound Interest - Orthogonal Trajectories

Unit-III

Higher Order Linear Differential Equations: Solution of homogeneous linear differential equations with constant coefficients - Solution of non-homogeneous differential equations P(D)y=Q(x) with constant coefficients by means of polynomial operators when $Q(x) = b \cdot e^{ax}$, b. sin ax, b.cos ax, b. x^k , V. e^{ax} - Method of undetermined coefficients.

Unit-IV

Method of variation of parameters - Linear differential equations with non constant coefficients - The Cauchy-Euler Equation - Legendre's Linear Equations - Miscellaneous Differential Equations

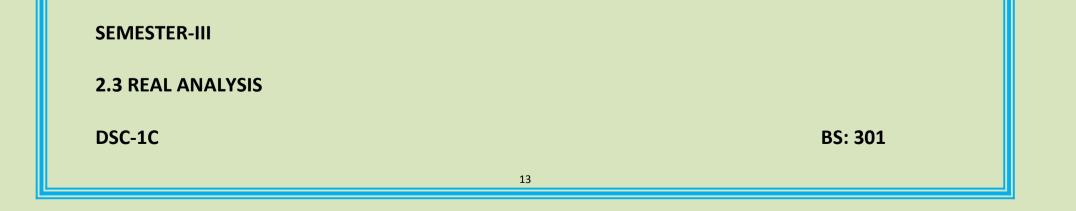
Partial Differential Equations: Formation and solution - Equations easily integrable - Linear equations of first order.

Text:

• Zafar Ahsan, Differential Equations and Their Applications

References:

- Frank Ayres Jr. Theory and Problems of Differential Equations
- Ford, L.R ; Differential Equations
- Daniel Murray, Differential Equations
- S.Balachandra Rao, Differential Equations with Applications and Programs
- Stuart P Hastings, J Bryce McLead; Classical Methods in Ordinary Differential Equations



Theory: 5 credits and Tutorials: 0 credits

Theory: 5 hours/week and Tutorials: 1 hours/week

Objective: The course is aimed at exposing the students to the foundations of analysis which will be useful in understanding various physical phenomena.

Outcome: After the completion of the course students will be in a position to appreciate beauty and applicability of the course.

Unit-I

Sequences: Limits of Sequences - A Discussion about Proofs - Limit Theorems for Sequences - Monotone sequences and Cauchy Sequences - Subsequences - Lim sup's and Lim inf's - Series - Alternating series and Integral Tests

Unit-II

Continuity: Continuous Functions - Properties of Continuous Functions - Uniform Continuity - Limits of Functions

Unit-III

Differentiation: Basic Properties of the Deruvatuve - The Mean Value Theorem - L'Hospital Rule - Taylor's Theorem

Unit-IV

Integration: The Riemann Integral - Properties of Riemann Integral Fundamental Theorem of Calculus

Text:

• Kenneth A Ross, Elementary Analysis - The Theory of Calculus

References

• S.C.Malik and Savita Arora, Mathematical Analysis, Second Edition, Wiley Eastern Limited, New Age International (P) Limited, New Delhi, 1994.

- William F.Trench, Introduction to Real Analysis
- Lee Larson, Introduction to Real Analysis I
- Shanti Narayan and Mittal, Mathematical Analysis
- Brian S.Thomson, Judith B.Bruckner, Andrew M. Bruckner; Elementary Real Analysis
- Sudhir R., Ghorpade, Balmohan V., Limaye; A Course in Calculus and Real Analysis

SEMESTER-IV

2.4 Algebra

DSC-1D BS: 401

Theory: 5 credits and Tutorials : 0 credits

Theory: 5 hours/week and Tutorials; 1 hours/week

Objective: The course is aimed at exposing the students to learn some basic algebraic structure like groups, rings etc.

Outcome: On successful completion of the course students will be able to recognize algebraic structures that arise in matrix algebra, linear algebra and will be able to apply the skills learnt in understanding various such subjects.

Unit-I

Groups: Definition and Examples of Groups - Elementary Properties of Groups - Finite Groups - Subgroups

- Terminology and Notation - Subgroup Tests - Examples of Subgroups. Cyclic Groups: Properties of Cyclic Groups - Classification of Subgroups Cyclic Groups Unit-II

Permutation Groups: Definition and Notation - Cycle Notation - Properties of Permutations - A Check Digit Scheme Based on D_5 . Isomorphisms; Motivation - Definition and examples - Cayley's Theorem Properties of Isomorphisms - Auto morphisms - Coses and Lagange's Theorem Properties of Cosets 138 - Lagrange's Theorem and Consequences - An Application of Cosets to Permutation Groups - The Rotation Group of a Cube and a Soccer Ball.

Unit-III

Normal Subgroups and Factor Groups: Normal Subgroups - Factor Groups - Applications of Factor Groups - Group Homomorphisms - Definition and Examples - Properties of Homomorphisms - The First Isomorphism Theorem

Introduction to Ring: Motivation and Definition - Examples of Rings - Properties of rings - Subrings. Integral Domains: Definition and Examples - Fields - Characteristics of a Ring

Unit-IV

Ideals and Factor Rings: Ideals - Factor Rings - Prime Ideals and Maximal Ideals Ring Homomorphisms: Definition and Examples - Properties of Ring Homomorphisms

Text:

Joseph A Gallian, Contemporary Abstract algebra (9th edition)

References:

- Bhattacharya, P,B,Jain, S.K.; and Nagpaul, S.R.Basic, Abstract Algebra
- Fraleigh, J.B., A First Course in Abstract Algebra
- Herstein, I.N., Topics in Algebra
- Robert B.Ash, Basic Abstract Algebra
- I.Martin Isaacs, Finite Group Theory
- Joseph J.Rotman, Advanced Modern Algebra

SEMESTER-V

2.5 Linear AlgebraDSC-E BS:501

Theory: 5 credits and Tutorials; 0 credits

Theory: 5 hours/work and Tutorials: 1 hours/week

Objective: The students are exposed to various conceptslike vector spaces, bases, dimension, Eigen values etc.

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Outcome: After completion this course students appreciate its interdisciplinary nature.

Unit-I

Vector Spaces: VectorSpaces and Subspaces - Null Spaces, Column Spaces, and Linear Transformations - Linealy Independent Sets, Bases - Coordinate Systems - The Dimension of a VectorSpace

Unit-II

Rank-Change of Basis - Eigen values and Eigen vectors - The Characteristic Equation

Unit-III

Diagonalization - Eigen vectors and Linear Transformations - Complex Eigen values - Applications to Differential Equations

Unit-IV

Orthogonality and Least Squares: Inner Product, Length and Orthogonality - Orthogonal Sets - Orthogonal Projections - The Gram-Schmidt Process

Text:

• David C Lay, Linear Algebra and its Applications 4e

References:

- S Lang, Introduction to Linear Algebra
- Gilbert Strang, Linear Algebra and its Applications
- Stephen H.Friedberg, Arnold J.Insel, Lawrence E.Spence; Linear Algebra
- Kuldeep Singh; Linear Algebra
- Sheldon Axier; Linear Algebra Done Right

SEMESTER-VI

2.6 NUMERICAL ANALYSIS DSC-1F/A

BS:601/A

Theory: 5 credits and Tutorials: 0 credits Theory: 5 hours/week and Tutorials; 1 hours/week

Objective: Students will be made to understand some methods of numerical analysisOutcome: Students realise the importance of the subject in solving some problems of algebra and calculus

Unit-I

Errors in Numerical Calculations - Solutions of Equations in One Variable: The Bisection Method -The Iteration Method - The Method of False Position - Newton's Method - Muller's Method - solution of Systems of Nonlinear Equations

Unit-II

Interpolation and Polynomial approximation: Interpolation - Finite Differences - Differences of Polynomials - Newton's formula for Interpolation - Gauss's central differences formulae - Stirling's and

Bessel's formula - Lagrange's Interpolation Polynomial - Divided DIFFERENCES _ Newton'S General Interpolation formula - Inverse Interpolation

Unit-III

Curve Fitting: Least Squares - Curve Fitting: Fitting a Straight Line - Nonlinear Curve Fitting

Numerical Differentiation and Integration: Numerical Differentiation - Numerical Integration - TrapezoidalRule - Simpson's 1/3 rd Rule and Simpson's 3/8 th Rule - Boole's and Weddle's Rule - Newton's Cotes Integration Formulae.

Unit-IV

Numerical Solutions of Ordinary Differential Equations: Taylor's Series Method - Picard's Method - Euler's Methods - Runge Kutta Methods.

Text:

Richard L.Burden and J.Douglas Faires, Numerical Analysis (9e)

• S.S.Sastry, Introductory Methods of Numerical Analysis, PHI

References:

 M.K.Jain, S.R.K.Iyengar and R.K.Jain, Numerical Methods for Scientific and engineering computation

B.Bradie, A Friendly introduction to Numerical Analysis

SEMESTER-VI 2.7 Integral TransformsDSC - VI-B BS-601/B Theory: 5 credits and Tutorials: 0 credits Theory: 5 hours/week and Tutorials: 1 hours/week

Objective: Students will be exposed to Integral Transforms. The students also learning the ApplicationsofLaplace Transforms to differntial Equations which arises in Physics and Engineering Problems.

Outome: Students apply their knowledge to solve some problems on special functions and Differential Equations by using the Integral Transforms

Unit-I

Laplace Transforms - Definition - Existence theorem - Laplace transforms of derivatives and integrals - Periodic functions and some special functions.

Unit-II

Inverse Transformations - Convolution theorem - Heaviside's expansion formula

Unit-III

Applications to ordinary differential equations - solutions of simultaneous ordinary differential equations-Applications to Partial differential equations

Unit-IV

Fourier Transforms - Sine and cosine transforms - Inverse Fourier Transforms Text:

• Vasishtha and Gupta, Integral Transforms, Krishna Prakashan Media (P), Ltd., Meerut (2e)

SEMESTER-VI 2.8 ANALYTICAL SOLID GEOMETRY DSE-1F/C

BS:601/C

Theory: 5 credits and Tutorials: 0 credits Theory: 5 hours/week and Tutorials: 1 hour/week

Objective: Students learn to describe some of the surfaces by using analytical geometry. Outcome: Students understand the beautiful interplay between algebra and geometry.

Unit-I

Sphere: Definition- The Sphere Through Four Given Points - Equations of a Circle - Intersection of a Sphere and a Line - Equation of a Tangent Plane - Angle of Intersection of Two Spheres - Radical Plane.

21

Unit-II

Cones and Cylinders: Definition - Condition that the General Equation of second degree Represents a Cone - Cone and a Plane through its Vertes - Intersection of a Line with a Cone

Unit-III

The Right Circular Cone - The Cylinder - The Right Circular Cylinder

Unit-IV

The Conicoid: The General Equation of the Second Degree - Intersection of Line with a Conicoid - Plane of contact - Enveloping Cone and Cylinder.

Text:

• Shanti Narayan and P.K.Mittal, Analytical solid Geometry (17e)

References:

- Khaleel Ahmed, Analytical Solid Geometry
- S.L.Loney, Solid Geometry
- Smith and Minton, Calculus

TIME TABLE 2020-21

DAY &				IV	LUNCH	V	VI PERIOD
PERIOD	PERIOD9- 30 to 10-	PERIOD 10-30 to	PERIOD11- 30 to 12-	PERIOD	BREAK 01-15	PERIOD 02-00 to	03-00 to 04-00
	30 10 10-	10-30 10	30 10 12-	01-15	to 02-		04-00
	50	11-50	50	01-15	00	03-00	
MONDAY	M3			M2	L	M3	M3
TUESDAY	M3		M2	M1	ι	M1	M1
WEDNESDAY	M1	M2	M3		N		
THURSDAY	M4				C	M2	M2
FRIDAY	M4	M1	M2			M4	M4
SATURDAY	M4		M1		Н		

WEEKLY WORK LOAD: 22 PERIODS NOTE: M1-FIRST YEAR NOTE: M2-SECOND YEAR NOTE: M3- THIRD YEAR-PAPER-1 NOTE: M3=THIRD YEAR-PAPER-2

	TIME TABLE 2021-22										
I	DAY	&	1	II PERI	OD	Ш	LUNCH	IV	V	PERIO) VI
I	PERIOD		PERIOD10-	11-00	to	PERIOD12-	BREAK	PERIOD	14	-30 to	PERIOD
I	22										

			:	23						
	00 to 11-	12-00	00 to 1	3- 13-00	to	13-30	to	15-30	15-30	to
	00		00	13-30		14-30			16-30	
MONDAY	M3	M1			L U	M2		MATHS RELATED PAPER TEACH TO MPC/MPC's/BZC		
TUESDAY		M1			N			M2	M2	
WEDNESDAY	M3	M1			C			M3	M3	
THURSDAY	M2	M1	M3			M1		M1	M1	
FRIDAY	M1	M2	M3	Н						
SATURDAY	M2							M3	M3	
	N N	/EEKLY WO OTE: M1-F OTE: M2-S OTE: M3- 1	IRST YEA ECOND Y 'HIRD YE	R 'EAR AR						
		FACI	JLIY	VVISt	: V	VÜK	K	LOAD		
S.No	. NAME	OF TH	E THE	ORY		HOUI	RS	/PRACTI	CAL	
	FACULTY HOURS									
1	P.SRIN	IIVASA	23 F	IOURS	PE	ER WI	EE	К		
	RAO									
	Ģ	RAND TO	TAL 23	HOURS	WO			PER WEEK		

GRAND TOTAL 23 HOURS WORK LOAD PER WEEK



TEACHING, LEARNING AND EVALUATION

The Department have been regularly conducting the following activities

- Field Trips
- Student Class Room Seminars
- Quiz Programmes
- Group Discussions
- Student Assignments
- Extension Lectures

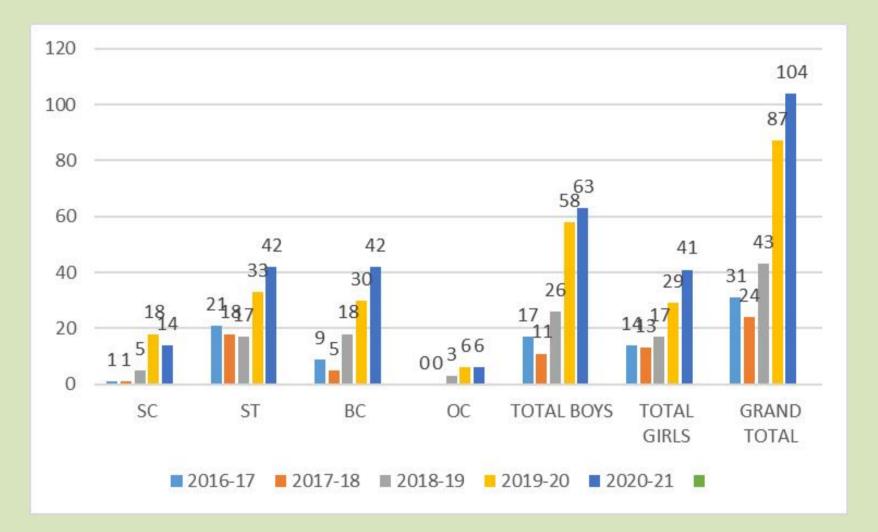
STUDENT ENROLLMENT & PROFILE

(II)TEACHING AND LEARNING EVALUATION 2.1 STUDENT ENROLLMENT & PROFILE

TABLE SHOWING THE DETAILS OF B.Sc., Students Particulars Community/Gender wise

ACADEMIC	SC	ST	BC	OC	TOTAL	TOTAL	GRAND
YEARS					BOYS	GIRLS	TOTAL
2016-17	01	21	09	00	17	14	31
2017-18	01	18	05	00	11	13	24
2018-19	05	17	18	03	26	17	43
2019-20	18	33	30	06	58	29	87
2020-21	14	42	42	06	63	41	104

CHART SHOWING BY COMMUNITY AND GENDER WISE

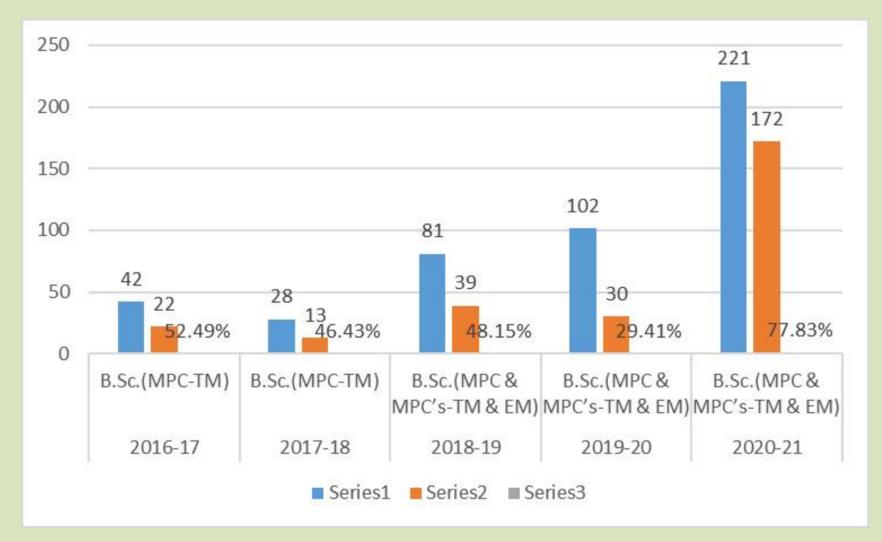


GOVERNMENT DEGREE COLLEGE, PALONCHA							
ANNUAL RESULT OF MATHEMATICS -LAST FIVE YEARS							
YEAR GROUP APPEARED PASSED PASS							
25							

				PERCENTAGE
2016-17	B.Sc.(MPC-TM)	42	22	52.49%
2017-18	B.Sc.(MPC-TM)	28	13	46.43%
2018-19	B.Sc.(MPC & MPC's-TM & EM)	81	39	48.15%
2019-20	B.Sc.(MPC & MPC's-TM & EM)	102	30	29.41%
2020-21	B.Sc.(MPC & MPC's-TM & EM)	221	172	77.83%

26

ANNUAL RESULT OF MATHEMATICS -LAST FIVE YEARS

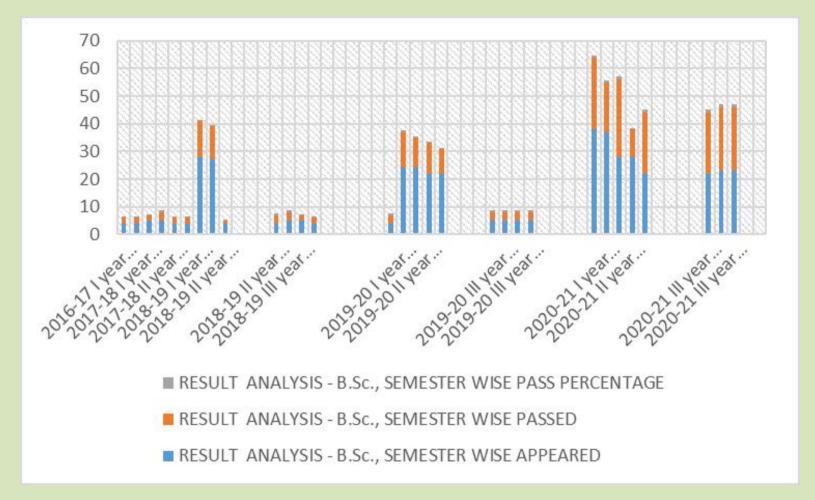


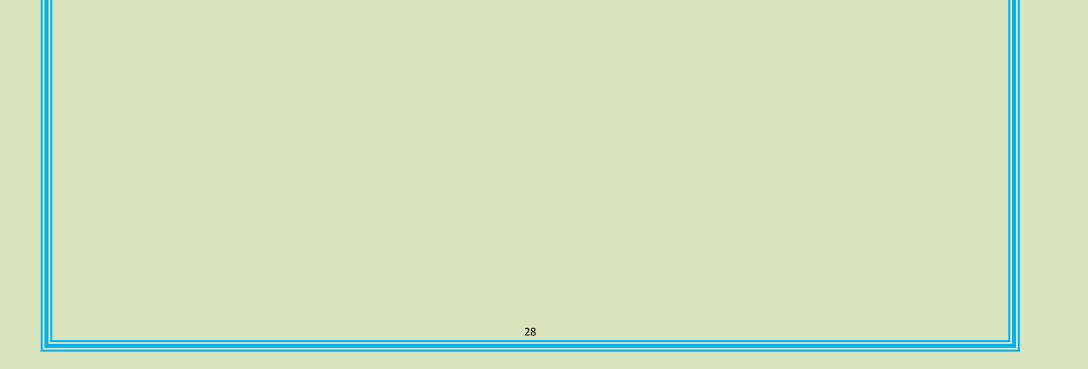
MATHS RESULT ANALYSIS - B.Sc., SEMESTER WISE

SL N	. PARTICULARS	APPEARED	PASSED	PASS PERCENTAG	
		26			

0.				E
1 0.	2016 17 Lyoar competer 1	04	02	50%
	2016-17 year semester-1			
2	2016-17 I year semester-2	04	02	50%
3	2017-18 year semester-1	05	02	40%
4	2017-18 I year semester-2	05	03	60%
5	2017-18 II year semester-3	04	02	50%
6	2017-18 II year semester-4	04	02	50%
7	2018-19 I year semester-1	28	13	46.43%
8	2018-19 I year semester-2	27	12	44.45%
9	2018-19 II year semester-3	04	01	25%
10	2018-19 II year semester-4	04	03	75%
11	2018-19 III year semester-5 (PAPER-III)	05	03	60%
12	2018-19 III year semester-5(PAPER-IV)	05	02	40%
13	2018-19 III year semester-6(PAPER-III)	04	02	50%
14	2018-19 III year semester-6(PAPER-IV)	04	03	75%
15	2019-20 I year semester-1	24	13	54%
16	2019-20 I year semester-2	24	11	46%
17	2019-20 II year semester-3	22	11	50%
18	2019-20 II year semester-4	22	09	41%
19	2019-20 III year semester-5(PAPER-III)	05	03	60%
20	2019-20 III year semester-5(PAPER-IV)	05	03	60%
21	2019-20 III year semester-6(PAPER-III)	05	03	60%
22	2019-20 III year semester-6(PAPER-IV)	05	03	60%
23	2020-21 I year semester-1	38	26	68.42%
24	2020-21 I year semester-2	37	18	48.65%
25	2020-21 II year semester-3	28	28	100%
26	2020-21 II year semester-4	28	10	36%
27	2020-21 III year semester-5(PAPER-III)	22	22	100%
28	2020-21 III year semester-5(PAPER-IV)	22	22	100%
29	2020-21 III year semester-6(PAPER-III)	23	23	100%
30	2020-21 III year semester-6(PAPER-IV)	23	23	100%

SEMESTERWISE RESULT FROM 2016-17 TO 2020-21





PIONEERS OF THE DEPARTMENT

Name of the Lecturer: Sri POTLAPUVVU SRINIVASA RAO

29

Qualification: M.Sc., S.E.T. M.Phil., B.Ed.,

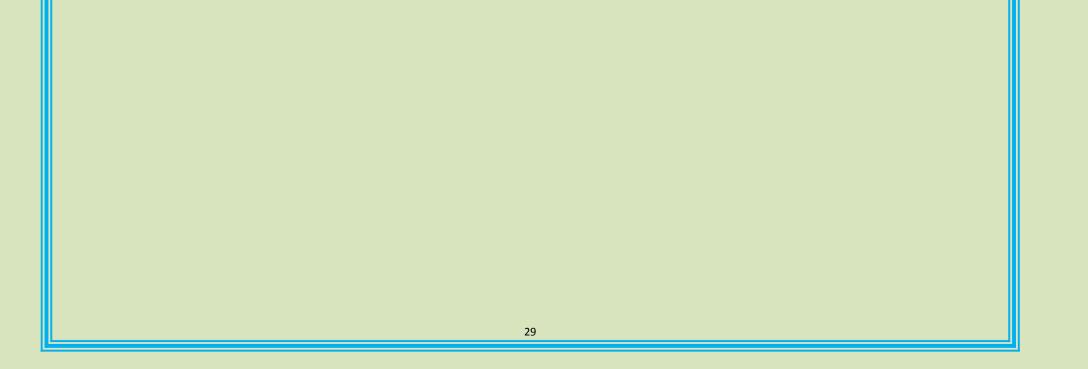
Year of joining in Department: 2010

(continuing services in current academic year till to date)

The Staff Member presently working in the Department

- Name of the Lecturer: Sri POTLAPUVVU SRINIVASA RAO
- Qualification: M.Sc., S.E.T. M.Phil., B.Ed.,
- Year of joining in Department: 2010

(continuing services in current academic year till to date)



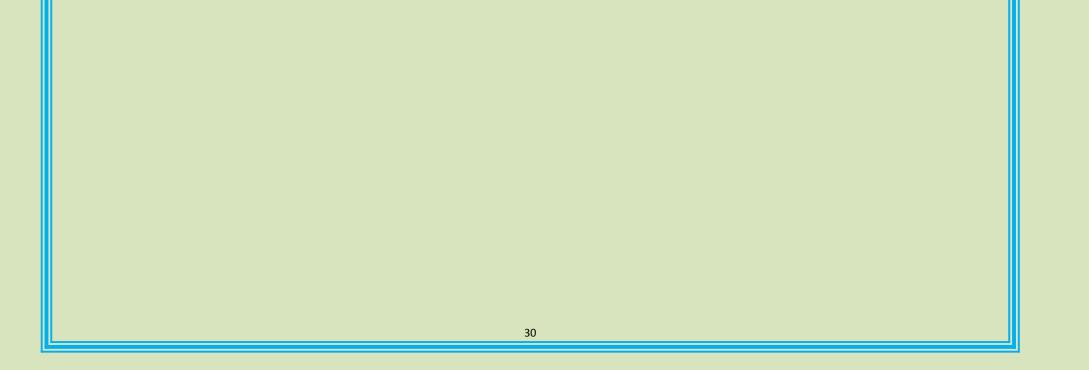
Number of Teaching Posts Sanctioned

Howmany Sanctioned Posts Available in Department of Mathematics.

One Teaching

Post Sanctioned in the Department

Name of the	Qualification	Designation	Specialisation	Total
Faculty				Experience
Sri P.Srinivasa	M.Sc. S.E.T.	Lecturer		22 Years
Rao	M.Phil. B.Ed.,			

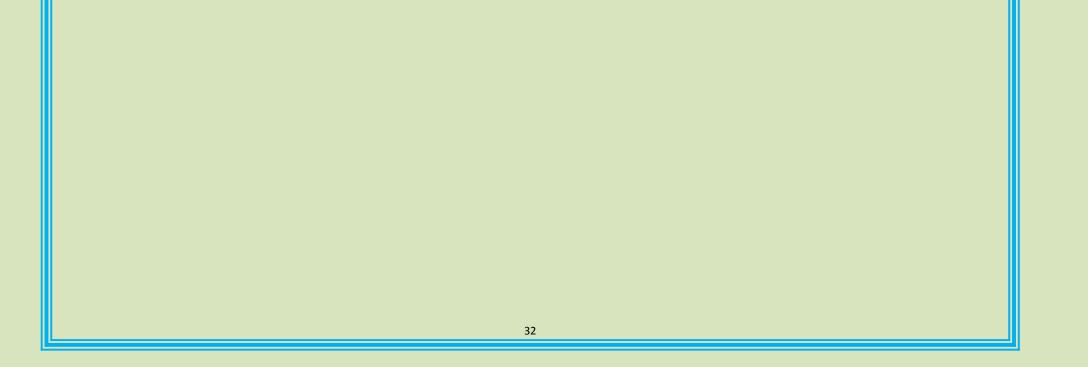


).).	YEAR	NAME OF THE TOPIC	NAME OF THE STUDENT	
L	2016-17	NUMERICAL ANALYSIS	KUNJA PRAMEELA	
2	2016-17	LINEAR ALGEBRA	CHILAKAMARRI RAMU	
3	2016-17	DIFFERENTIAL EQUATIONS	P.PRABHU KUMAR	
1	2017-18	REAL ANALYSIS	P.LAXMI	
5	2017-18	PARTIAL DIFFERENTIATION	V.SRINIVAS	
5	2017-18	ABSTRACT ALGEBRA	JARPULA PRASAD	
7	2018-19	DIFFERENTIAL AND INTEGRAL CALCULUS	A.KUSHAL KUMAR	
3	2018-19	ABSTRACT ALGEBRA	A.VINODA	
9	2018-19	LINEAR ALGEBRA	G.SUSMITHA	
10	2019-20	DIFFERENTIAL AND INTEGRAL CALCULUS	G.MANISHA	
11	2019-20	REAL ANALYSIS	T.SURYA PRAKASH	
12	2019-20	LINEAR ALGEBRA	K.SHIVA NAGENDRA BABU	
13	2020-21	DIFFERENTIAL EQUATIONS	S.GANESH	
L 4	2020-21	ABSTRACT ALGEBRA	B.SRAVANI	
15	2020-21	NUMERICAL ANALYSIS	B.DURGA PRASAD	



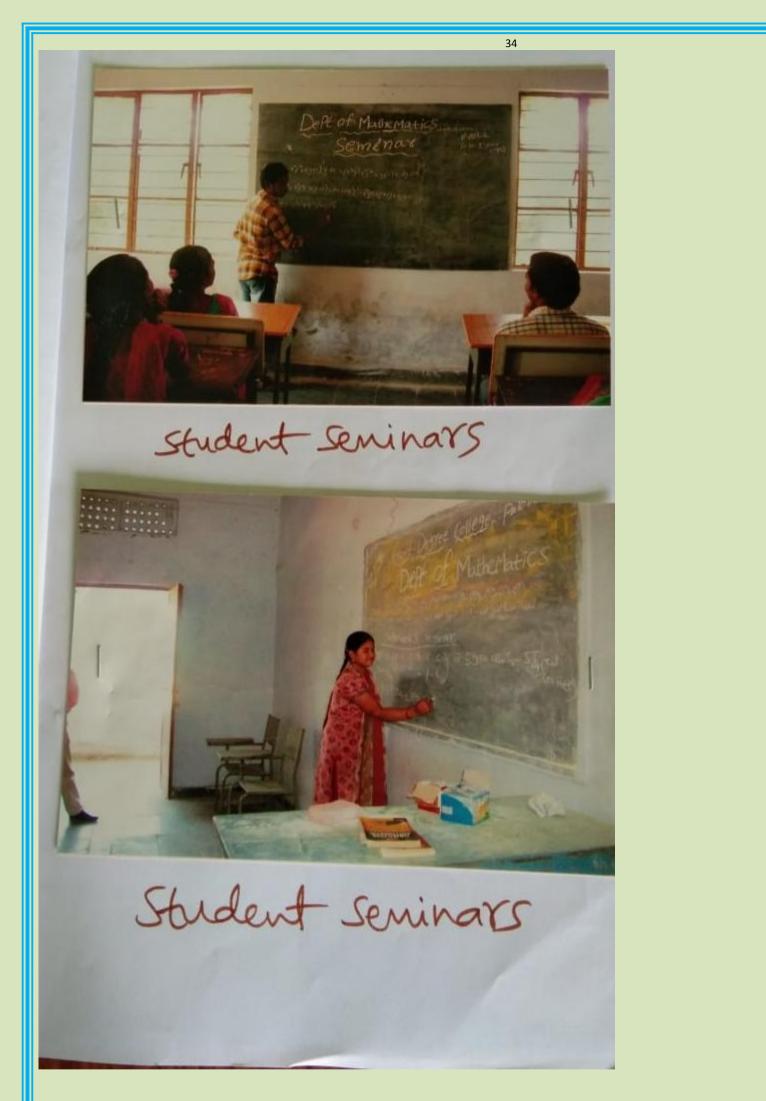
STUDENT SEMINARS - PHOTOGRAPHS







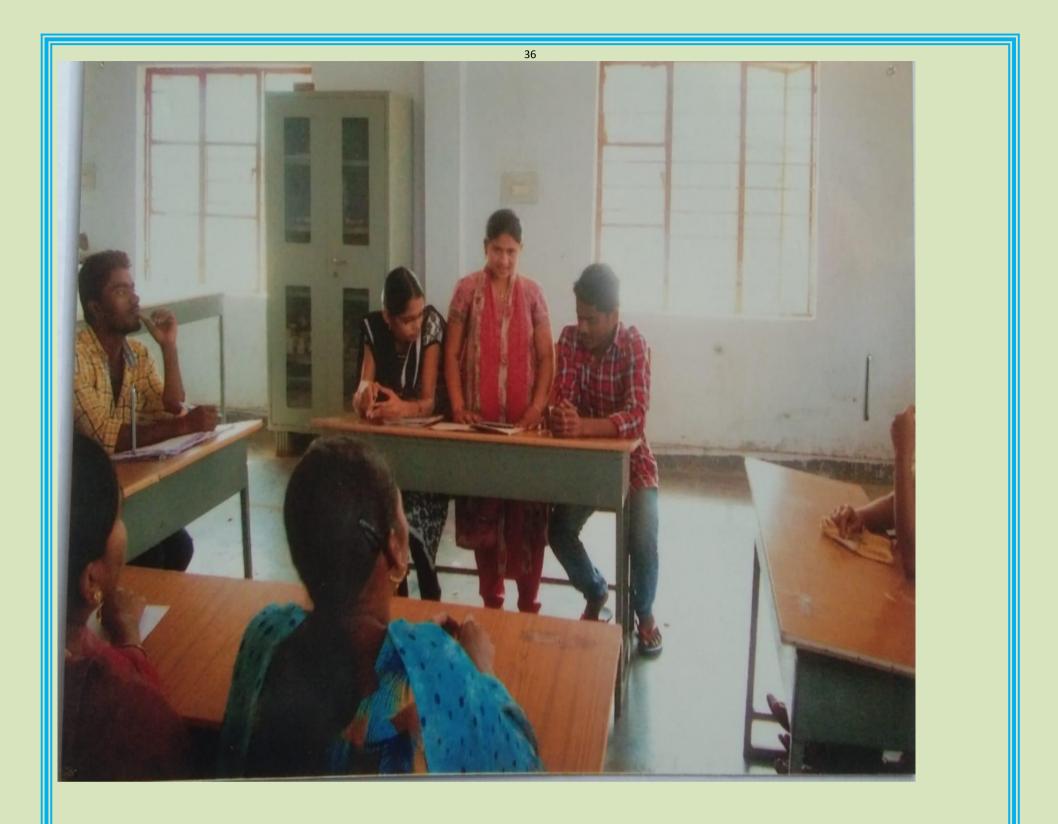


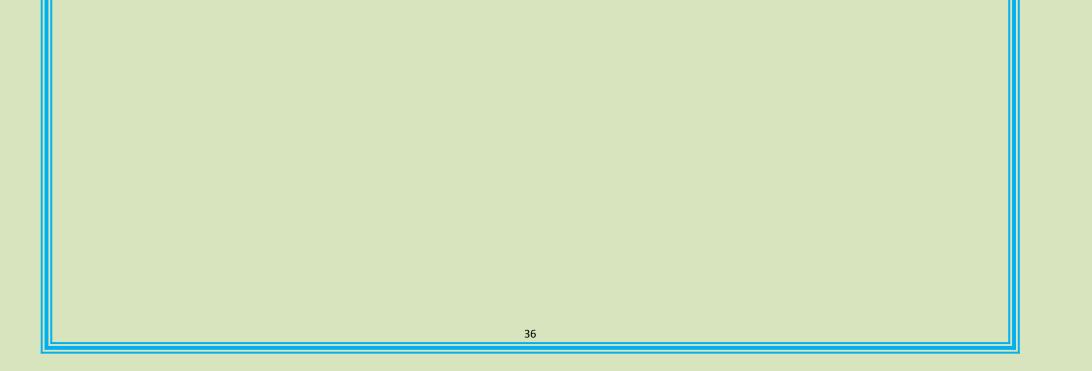




GDC, PALONCHA DEPARTMENT OF MATHEMATICS QUIZ PROG. & GROUP DISCUSSIONS

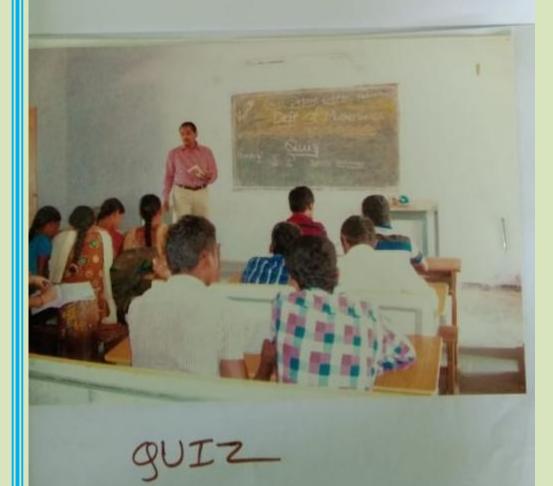


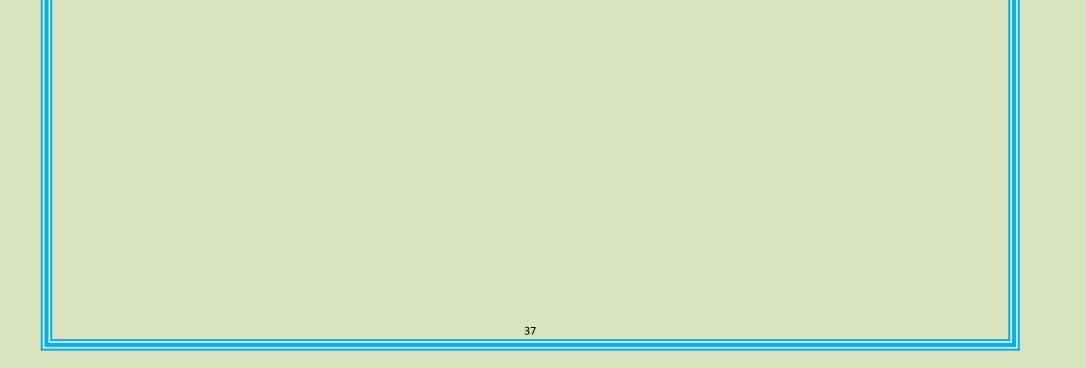






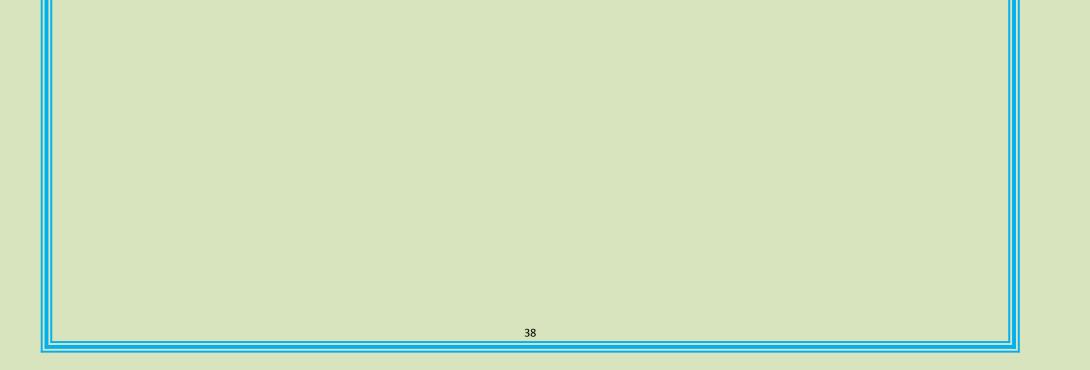
GUIZ PROGRAMME





Academic Innovative Activity - Extension Lecture

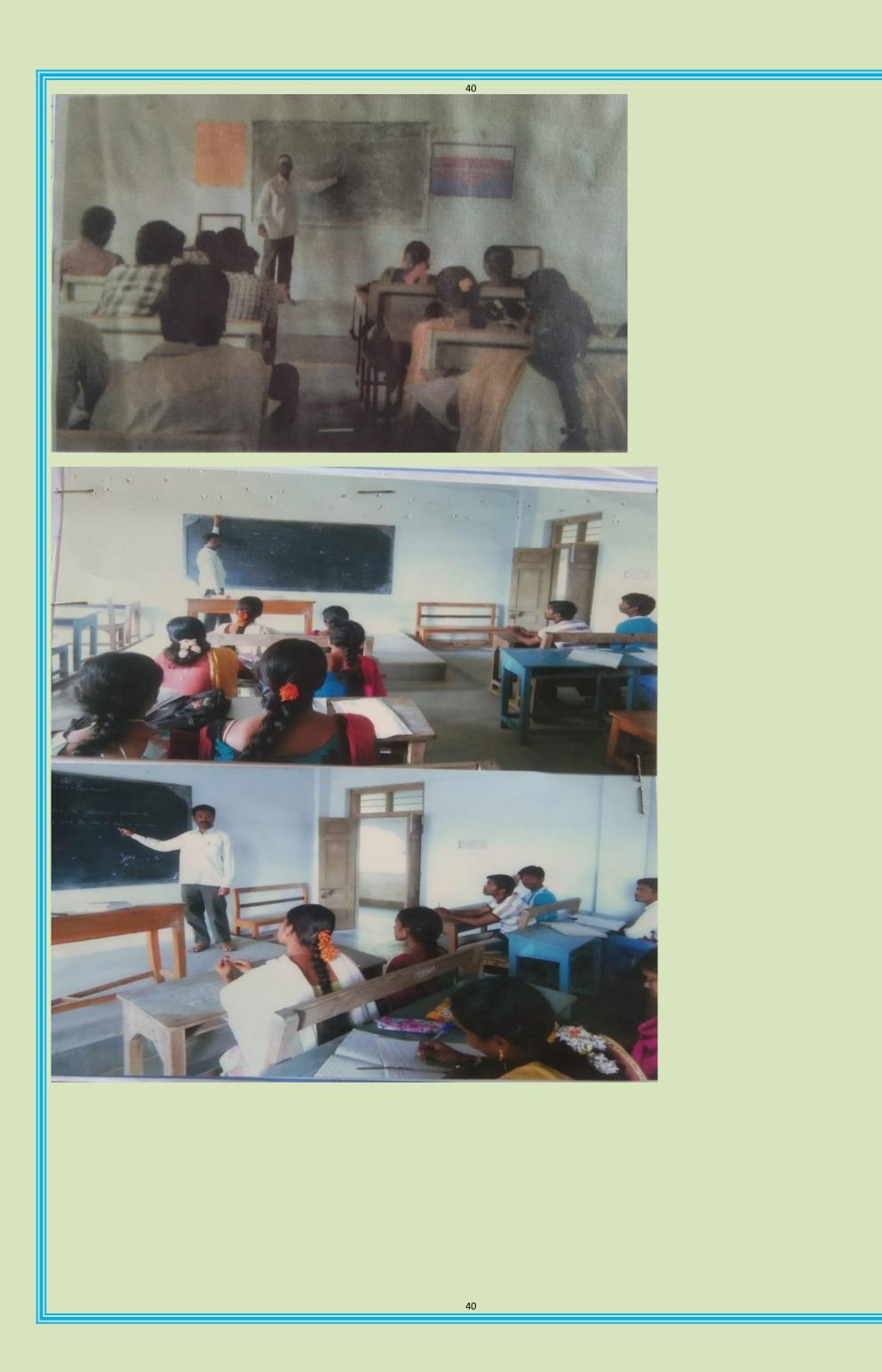
S.NO.	YEAR	DATE	NAME	DESIGNATION/NAME OF COLLEGE	TOPIC NAME
1	2016-17	25-09-2016	Smt. Padma Madam	Asst. Professor; SRAS Government Arts & Science College, Kothagudem	RINGS AND FIELDS
2	2017-18	5-2-2018	R.Naga Raju	Lecturer, Government Degree College, Bhadrachalam	REAL ANALYSIS
3	2018-19	4-2-2019	V.Kishore Babu	Lecturer, Kakatiya Degree College, SATHUPALLY	DIFFEREN TIAL EQUATIO NS
4	2019-20	29-8-2019	R.Naga Raju	Lecturer, Government Degree College, MANUGURU	VEDIC MATHEM ATICS
5	2020-21	26-3-2021	Kum. B.Saritha	Lecturer; J.V.R. Government Degree College, SATHUPALLY	VEDIC MATHEM ATICS



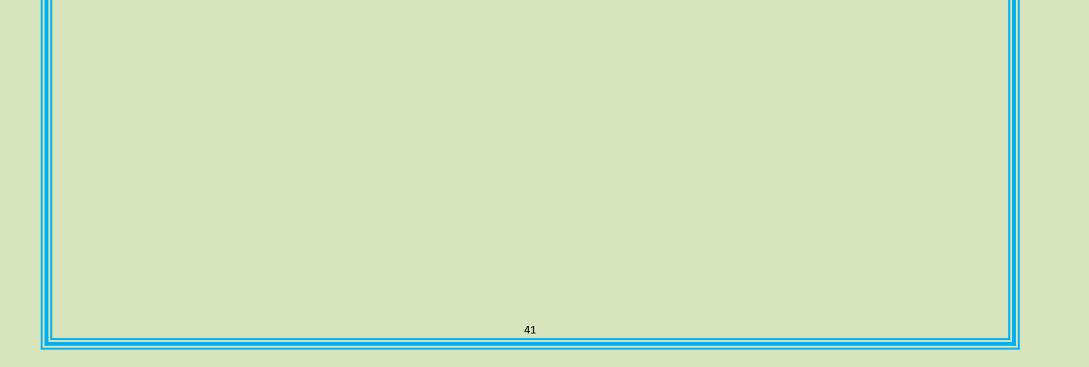
EXTENSION LECTURES



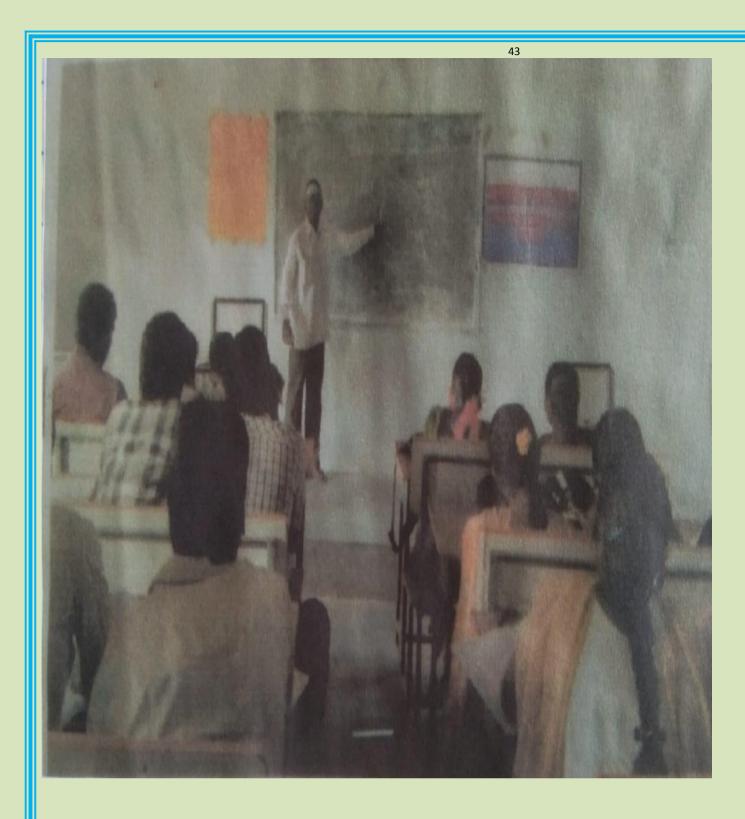


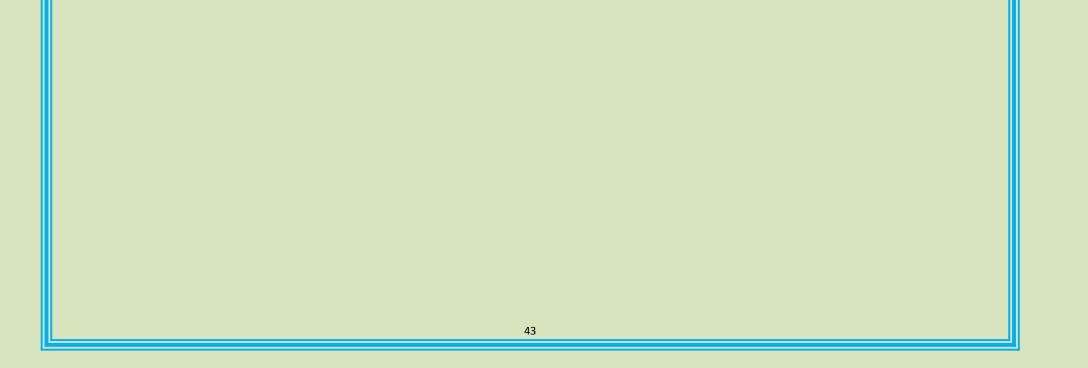












MATHEMATICS DAYCELEBRATION











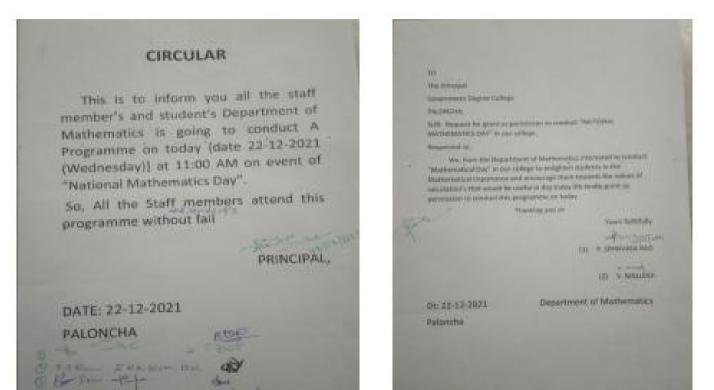
MATHS DAY CELEBRATIONS





MATHEMATICS DAYCELEBRATION

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MATHS DAY CELEBRATIONS

See.

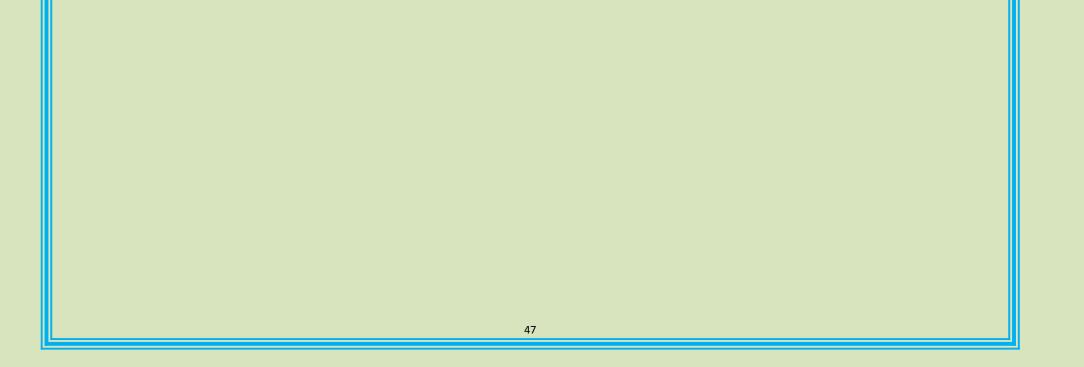
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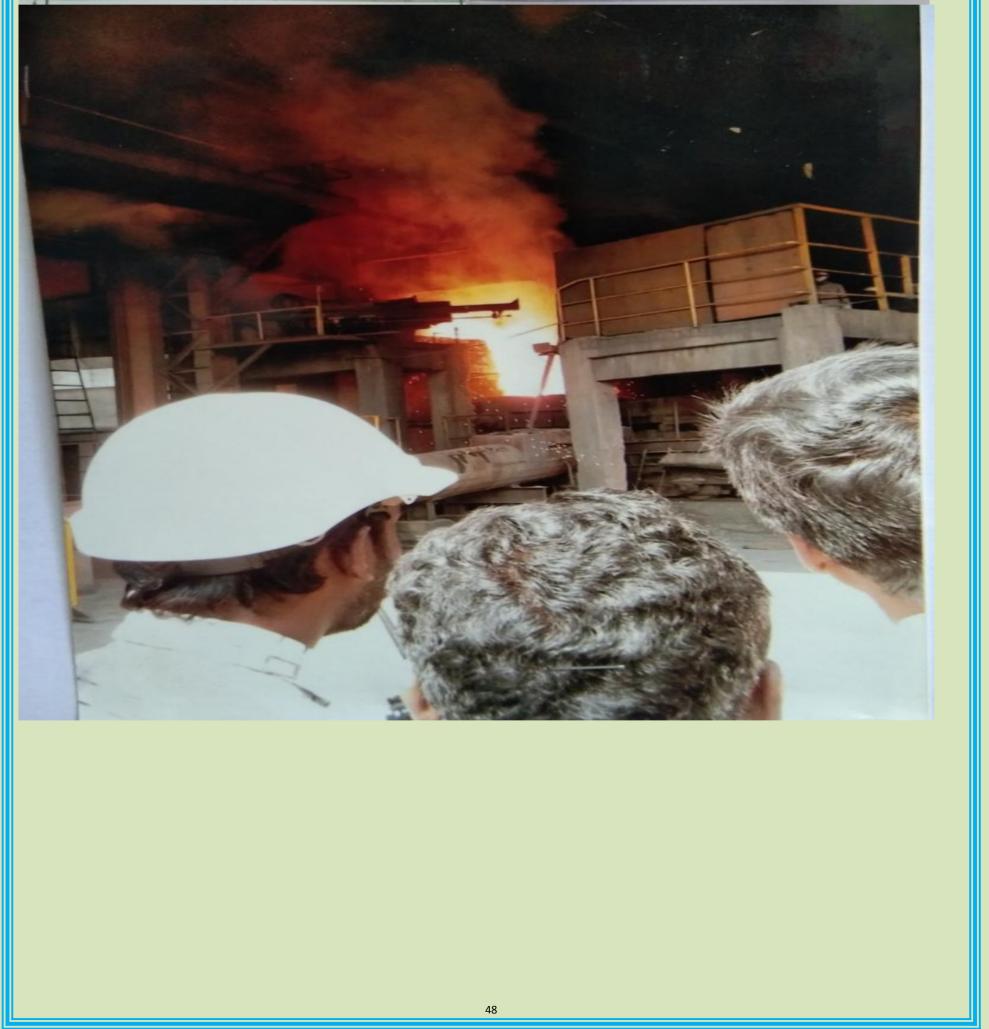
FIELD TRIPS

S.NO	YEAR	NAME OF THE	No. Of	Partnering	Nat
		TEACHER	Student	institutiions/Industry/Resear	ure
		INVOLVED/ORGANISE	S	ch Lab with Contact Details	of
		R			Link
					age
1	2016	P.SRINIVASA RAO	12	NAVABHARAT VENTURES,	FIEL
	-17			PALONCHA	D
					TRIP
					S
2	2017	P.SRINIVASA RAO	12	NMDC, PALONCHA	FIEL
	-18				D
					TRIP
					S
3	2018	P.SRINIVASA RAO	09	NMDC, PALONCHA	FIEL
	-19				D
					TRIP
					S
4	2019	P.SRINIVASA RAO	12	K.V.SUB STATION,	FIEL
	-20			PALONCHA	D
					TRIP
			10		S
5	2020	P.SRINIVASA RAO	12	NMDC, PALONCHA	FIEL
	-21				D
					TRIP
					S



FIELD TRIP PHOTOGRAPHS

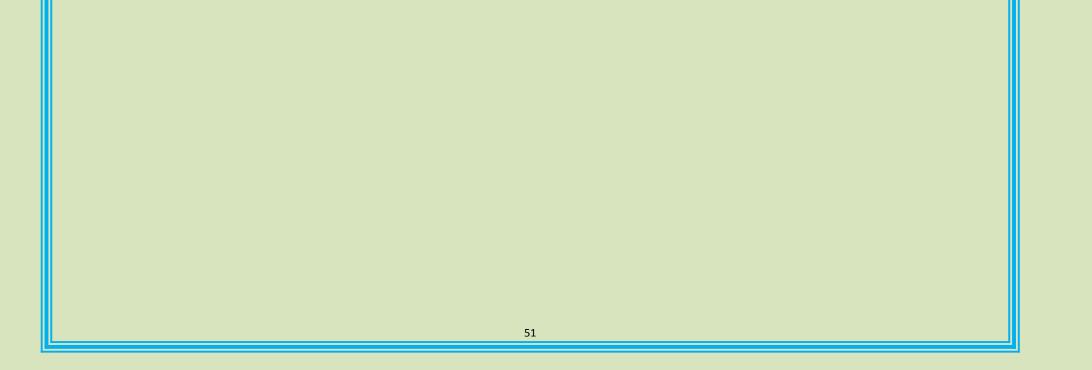






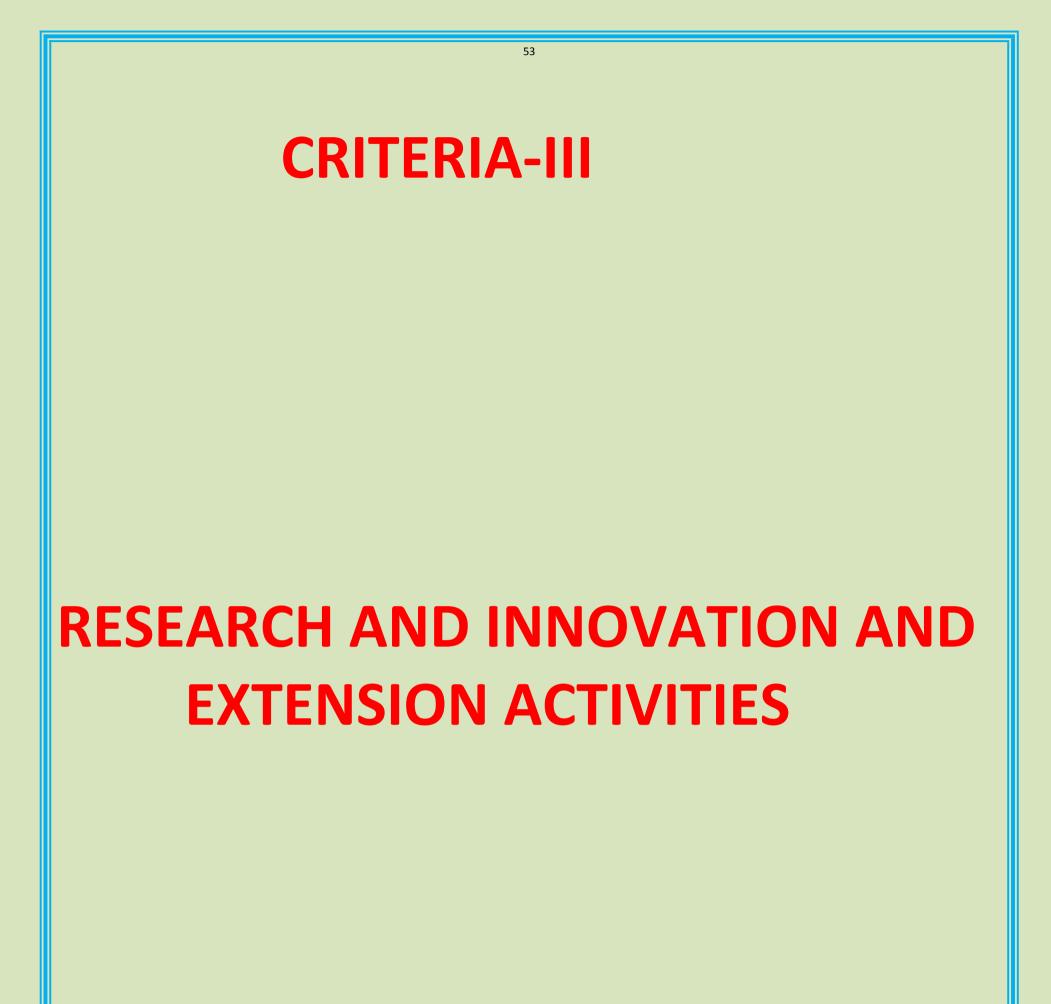


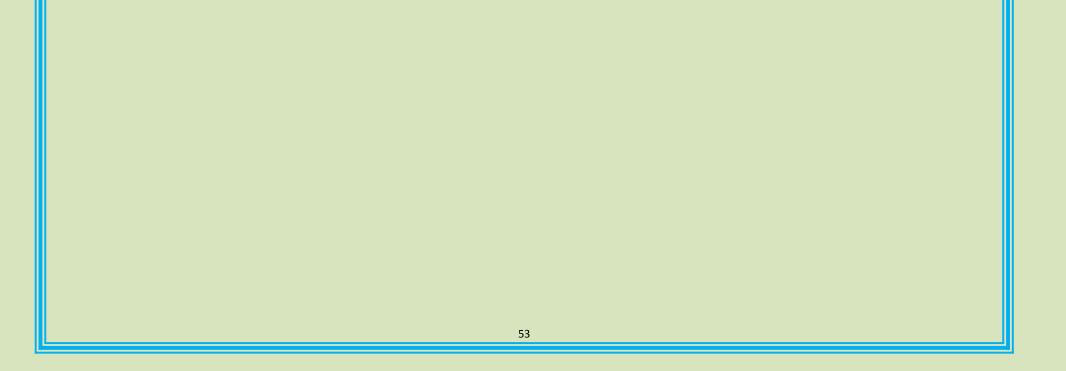




STUDENT STUDY PROJECTS

S.NO.	YEAR	NAME OF TEACHER	NO. OF	RESEARCH	NAT
		INVOLVED/ORGANISER	STUDENTS	TOPIC/SU	URE
				BJECT	OF
					LINK
					AGE
1	2016-17	P.SRINIVASA RAO	3	FIRST ORDER DIFFEREN TIAL EQUATIO NS	STUDY PROJEC TS
2	2017-18	P.SRINIVASA RAO	2	ARYABHA TTA RESEARCH ES	STUDY PROJEC TS
3	2017-18	P.SRINIVASA RAO	3	MICRO ELECTRON ICS (ON DIGITAL LOGIC TRAINER)	STUDY PROJEC TS
4	2018-19	P.SRINIVASA RAO	3	ABOUT SRINIVASA RAMANUJ AN	STUDY PROJEC TS
5	2018-19	P.SRINIVASA RAO	3	BRILLIANT MATHEM ATICIANS	STUDY PROJEC TS
6	2019-20	P.SRINIVASA RAO	2	INTERNAT IONAL MATHEM ATICIANS - FINDINGS	STUDY PROJEC TS
7	2019-20	P.SRINIVASA RAO	2	FUN WITH MATHEM ATICS	STUDY PROJEC TS
8	2020-21	P.SRINIVASA RAO	3	COLLEGE LAND MEASURE MENTS	STUDY PROJEC TS

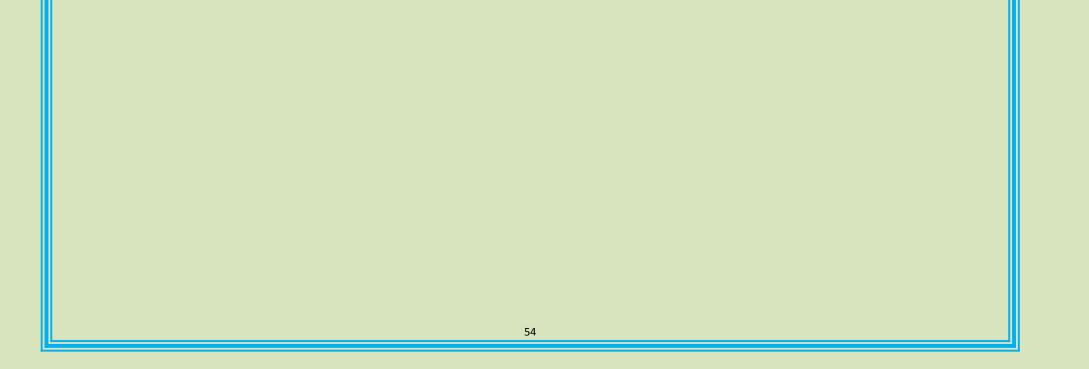




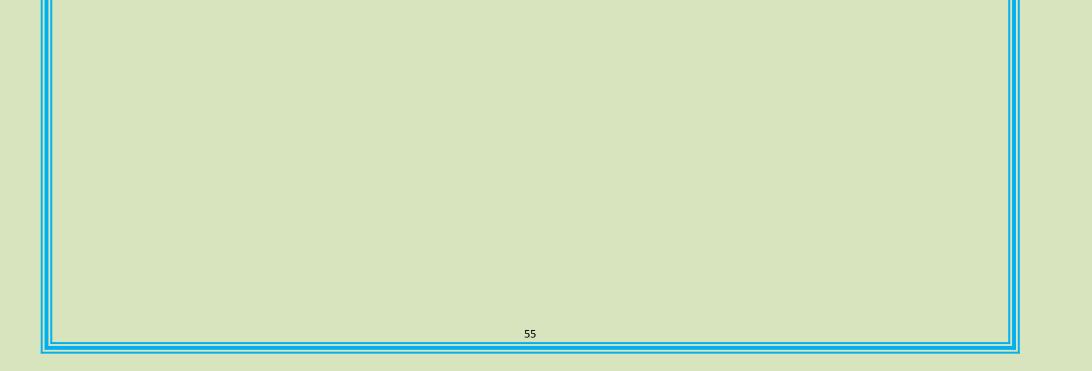
They function in co-ordination with one another to create and transfer knowledge, for monitoring and addressing the issues related to enhancement of research, innovation and entrepreneur skills among the faculty and students, thus fostering overall growth. The Institute has also followed research & development guidelines.

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The faculty are empowered to take up research activities by utilizing the existing facilities provided by college like research journals, equipments, technical lab, computer lab, internet and library. Publication of research outcome in UGC recognized peer reviewed journals and above also upholding the ethics in research activities by avoiding plagiarism are our worth mentioning practicesl



CRITERIA-IV INFRASTRUCTURE AND LEARNING RESOURCES

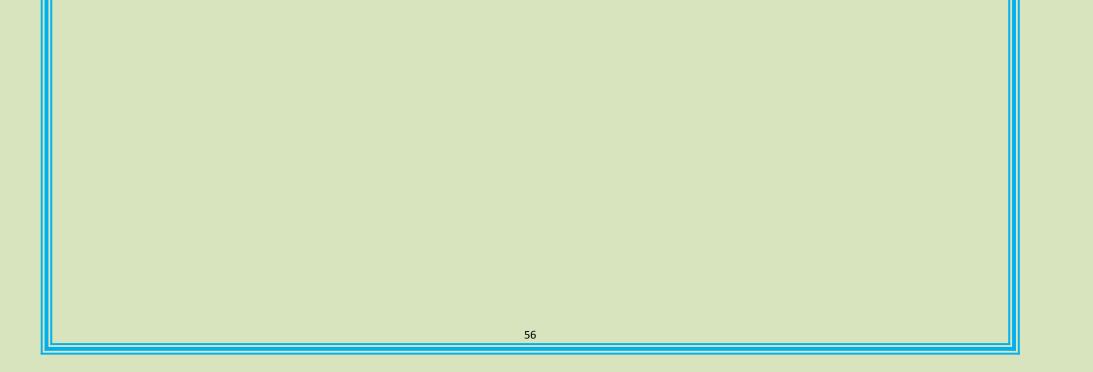


INFRASTRUCTURE AND LEARNING RESOURCES

DEPARTMENTAL LIBRARY

Department of Mathematics has a Library with 5 Prescribed Books, Post Graduation Entrance Study Material, 15 Reference Books, 10 P.G. standard books

S.NO.	BOOKS	No.
1	Prescribed Books	05
2	Post Graduation Entrance Study Material	01
3	Reference Books	15
4	P.G. STANDARD BOOKS	10

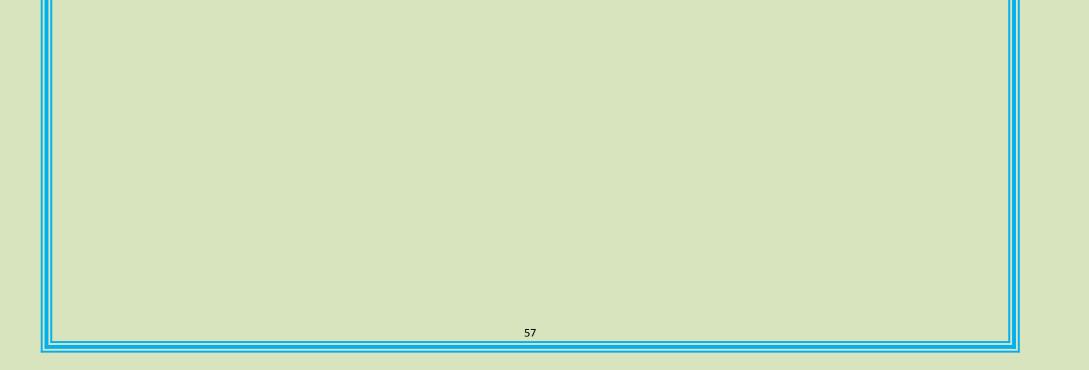


CRITERIA-V

STUDENT SUPPORTIVE AND PROGRESSION

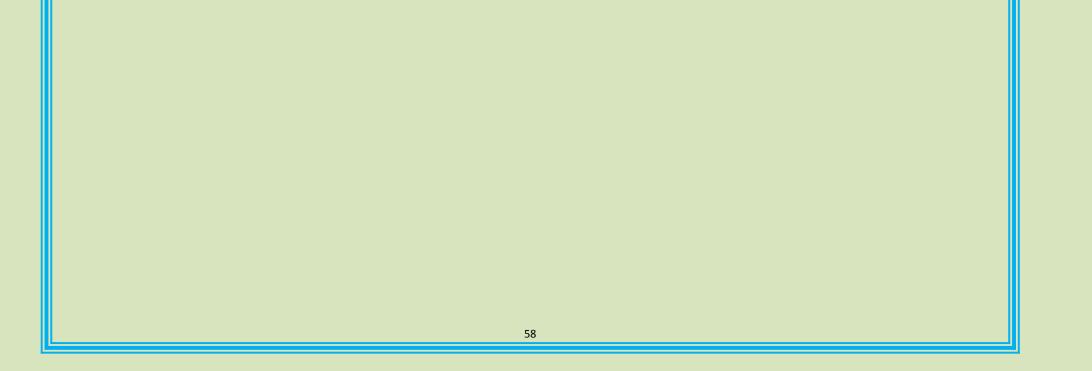
STUDENT PLACED IN ANY POSITION

S. No	Ye		Name Employe r or personal fi rm with contac t	Packag		Remark ref no., co py attach ed
1	20 16- 19	GANDURI SUSMIT HA	RELIANCE MART	2 LACK		ROLL NO/ H.T.No: 08 1 17 4001



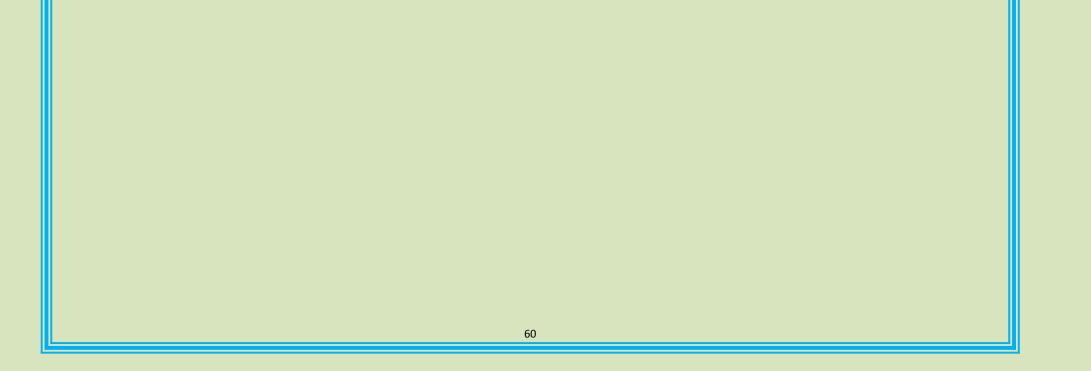
STUDENT PROGRESSION

S.NO	NAME OF STUDENT	GRADUAT E FROM	PG/B.Ed.	YEAR	INSTIT UTE NAME
1	CH.RAMU	B.Sc.,	M.Sc.(physic s)	2016 -17	OSMA NIA UNIVE RSITY
2	B.NAVEEN	B.Sc.,	M.A.(HINDI)	2016 -17	KAKATI YA UNIVE RSITY
3	M.MADHU	B.Sc.,	M.A.(HINDI)	2016 -17	KAKATI YA UNIVE RSITY
4	CH.LAXMA N	B.Sc.,	M.A.(HINDI)	2016 -17	KAKATI YA UNIVE RSITY



	59							
NAME OF STUDENTS PROGRESSING TO HIGHER EDUCATION DURING THE YEAR								
YEAR	NAME OF STUDENT ENROLLING INTO HIGHER EDUCATION	PROGRAMME GRADUATED FROM	UNIVERSITY/INSTITUTION	NAME OF PROGRAMME ADMITTED TO				
2016- 17	CH.RAMU	B.Sc.,	OSMANIA UNIVERSITY	M.Sc.,(Physics)				
2017- 18	K.SAI KUMARI	B.Sc.,	ITDA B.Ed., COLLEGE, BHADRACHALAM	B.Ed.,				
2017- 18	MUTYALA RAO	B.Sc.,	MOTHER TERESA COLLEGE, PALONCHA	B.Ed.,				
2018- 19	G.BHAVANI	B.Sc.,	MOTHER TERESA COLLEGE, PALONCHA	B.Ed.,				
2018- 19	P.PRABHU KUMAR	B.Sc.,	ITDA B.Ed., COLLEGE, BHADRACHALAM	B.Ed.,				
2019- 20	R.REVATHI	B.Sc.,	GEETHAM COLLEGE, SATHUPALLI	M.Sc.,(MATHEMATICS)				
2020- 21	MATTIPALLY UPENDAR	B.Sc.,(M)	J.V.R. GOVERNMENT DEGREE & PG COLLEGE, SATHUPALLY	M.Sc.,(PHYSICS)				
2020- 21	BATHULA DURGA PRASAD	B.Sc.,(M)	J.V.R. GOVERNMENT DEGREE & PG COLLEGE, SATHUPALLY	M.Sc.,(PHYSICS)				
2020- 21	VEMULA TEJA	B.Sc.,(M)	J.V.R. GOVERNMENT DEGREE & PG COLLEGE, SATHUPALLY	M.Sc.,(PHYSICS)				
2020- 21	DEVALLA CHINNI KRISHNA	B.Sc.,(M)	J.V.R. GOVERNMENT DEGREE & PG COLLEGE, SATHUPALLY	M.Sc.,(PHYSICS)				
2020- 21	PAMARTHI VINAY	B.Sc.,(M)	J.V.R. GOVERNMENT DEGREE & PG COLLEGE, SATHUPALLY	M.Sc.,(PHYSICS)				
2020- 21	A.KUSHAL KUMAR	B.Sc.,(M)	J.V.R. GOVERNMENT DEGREE & PG COLLEGE, SATHUPALLY	M.Sc.,(PHYSICS)				
	59							

			60	
2020-	BADAVATH	B.Sc.,(M)	J.V.R. GOVERNMENT	M.Sc.,(PHYSICS)
21	MADHU		DEGREE & PG COLLEGE,	
			SATHUPALLY	
2020-	PALAPOLE	B.Sc.,(M)	J.V.R. GOVERNMENT	M.Sc.,(PHYSICS)
21	SWETHA		DEGREE & PG COLLEGE,	
			SATHUPALLY	
2020-	NIMMALA	B.Sc.,(M)	J.V.R. GOVERNMENT	M.Sc.,(PHYSICS)
21	SATYA ANIL		DEGREE & PG COLLEGE,	
	KUMAR		SATHUPALLY	
2020-	GADDAM	B.Sc.,(M)	J.V.R. GOVERNMENT	M.Sc.,(PHYSICS)
21	PRAVEEN		DEGREE & PG COLLEGE,	
			SATHUPALLY	
2020-	ΚΑΚΑΤΙ	B.Sc.,(M)	J.V.R. GOVERNMENT	M.Sc.,(PHYSICS)
21	PAVAN		DEGREE & PG COLLEGE,	
			SATHUPALLY	
2020-	CH.SAIRAM	B.Sc.,(M)	J.V.R. GOVERNMENT	M.Sc.,(PHYSICS)
21			DEGREE & PG COLLEGE,	
			SATHUPALLY	





GOVERNANCE

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LEADERSHIP AND MANAGEMENT

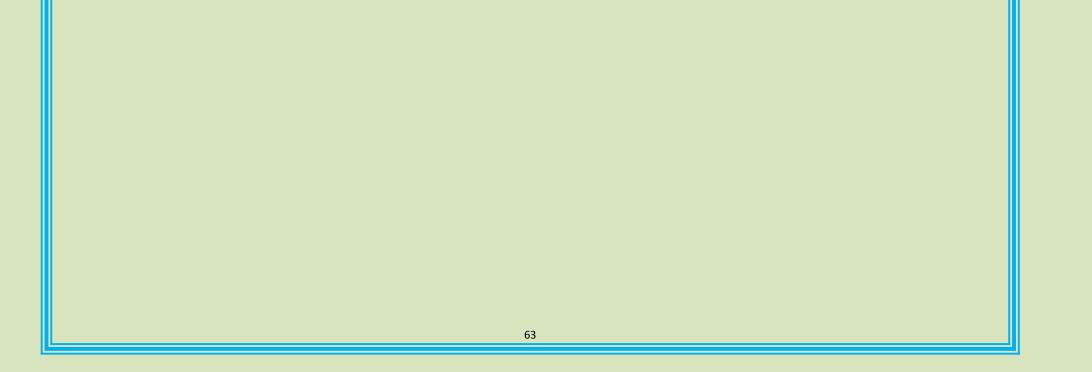
DEPARTMENTAL MEATINGS

At the departmental level Departmental level, Department faculty members meet at neccessary days to discuss academic matters like Distribution of syllabus among the faculty review of coverage of syllabus and result analysis and course out comes, important date to celebrate, etc.,

5.NO.	ACADEMIC YEAR	NAME OF THE DEPARTMENT INCHARGE	DESIGNATION
L	2016-17	P.SRINIVASA RAO	LECTURER
2	2017-18	P.SRINIVASA RAO	LECTURER
3	2018-19	P.SRINIVASA RAO	LECTURER
4	2019-20	P.SRINIVASA RAO	LECTURER
5	2020-21	P.SRINIVASA RAO	LECTURER

CO-ORDINATOR/MEMBER OF VARIOUS COMMITTEES

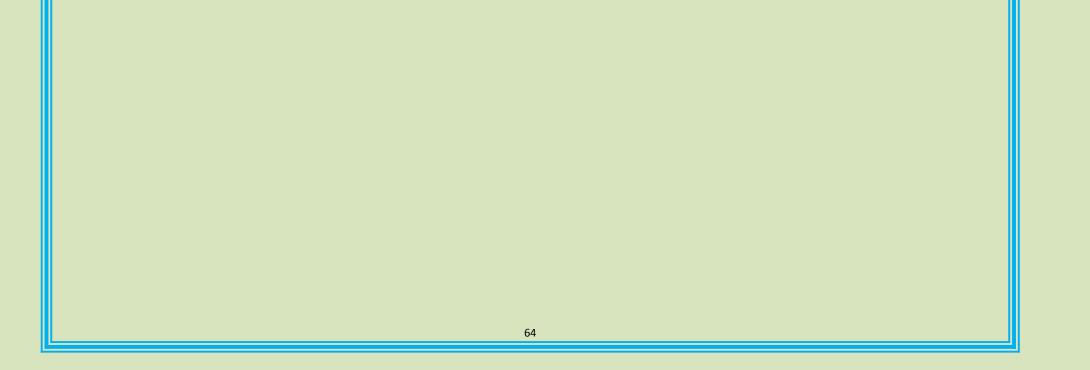
S.NO.	ACADEMIC	NAME OF	CO-	COMMITTEES
	YEAR	FACULTY	ORDINATOR	MEMBER
1	2016-17	P.SRINIVASA RAO		(1)TSKC & PLACEMENT CELL (2)CAREER GUIDANCE CELL/DEET (3)COMPUTER RESOURCE CENTER/COMPUTER LAB (4) BC MINORITY CELL
2	2017-18	P.SRINIVASA RAO		(1)TSKC & PLACEMENT CELL (2)CAREER GUIDANCE CELL/DEET (3)COMPUTER RESOURCE CENTER/COMPUTER LAB (4) BC MINORITY CELL
3	2018-19	P.SRINIVASA RAO		(1)TSKC & PLACEMENT CELL (2)CAREER GUIDANCE CELL/DEET (3)COMPUTER RESOURCE CENTER/COMPUTER LAB (4) BC MINORITY CELL
4	2019-20	P.SRINIVASA RAO		(1)TSKC & PLACEMENT CELL (2)CAREER GUIDANCE CELL/DEET (3)COMPUTER RESOURCE CENTER/COMPUTER LAB (4) BC MINORITY CELL
5	2020-21	P.SRINIVASA RAO		(1)TSKC & PLACEMENT CELL (2)CAREER GUIDANCE CELL/DEET (3)COMPUTER RESOURCE CENTER/COMPUTER LAB (4) BC MINORITY CELL



STUDENT SUPPORT AND PROGRESSION

Record of Student Representative / Monitoring Class

					Re
					ma
					rk
S.					Ref
No	Ye	Class and S	Name of CLASS rep. with Ad	Durati	. N
•	ar	ection	m No.	on	0.,
	201				
	6-	B.Sc.(M) I Yea		ONE YEA	
1	17	r	174002	R	
	201	B.Sc.,(M) II Ye	· ·	ONE YEA	
2	6-17	ar	1164005	R	
		B.Sc.,(M) III Y			
	201	ear	CHILAKAMARRI LAXMAN, H.T.No: 081	ONE YEA	
3	6-17		154005	R	
		B.Sc.,(M) I Ye			
		ar			
	204				
4	201 7-18		MAMILLAPALLI REVATHI, H.T.No: 081 184004	ONE YEA R	
-	201	B.Sc.,(M) II Ye		ONE YEA	
5	7-18	ar	PUSAM LAXMI, H.T.No: 081174003	R	
		B.Sc.,(M) III Y			
	201	ear		ONE YEA	
6	7-18		MOOD RANI, H.T.No: 081164008	R	

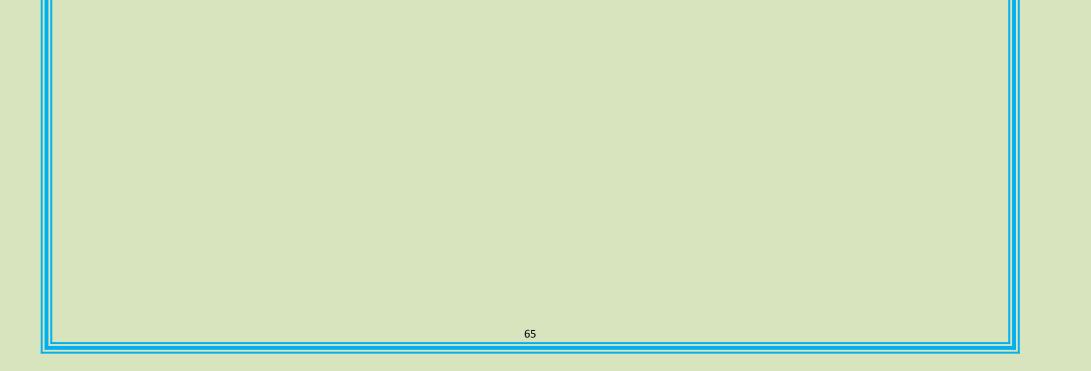


Record of Student Representative / Monitoring Class

S.N					Remark
0.	Year	Class and Section	Name of CLASS rep. with Adm No.	Duration	Ref. No.,
7	2018-19	B.Sc.(M) I Year	MATTIPALLY UPENDAR, H.T.No: 081194103	ONE YEAR	
8	2018-19	B.Sc.,(M) II Year	MAMILLAPALLI REVATHI, H.T.No: 081184004	ONE YEAR	
9	2018-19	B.Sc.,(M) III Year	PADDAM PRABHU KUMAR, H.T.No: 081174002	ONE YEAR	
-		B.Sc.,(M) I Year			
10	2019-20		SHAIK SUBHANI, H.T.No: 081204009	ONE YEAR	
11	2019-20	B.Sc.,(M) II Year	FRANCES DEEVANA, H.T.No: 081194205	ONE YEAR	
12	2019-20	B.Sc.,(M) III Year	K.SHIVA NAGENDRA BABU, H.T.No: 081164007	ONE YEAR	

Record of Student Representative / Monitoring Class

S. No					Remark
	Year	Class and Section	Name of CLASS rep. with Adm No.	Duration	Ref. No.,
13	2020- 21	B.Sc.(M) I Year	GONELA AKSHAYA, H.T.No: 081214109	ONE YEAR	
14	2020- 21	B.Sc.,(M) II Year	KANTE SEETHA MAHALAXMI, H.T.No: 081204108	ONE YEAR	
		B.Sc.,(M) III Year			
	2020-				
15	21		MATTIPALLY UPENDAR, H.T.No: 081194103	ONE YEAR	



Record of

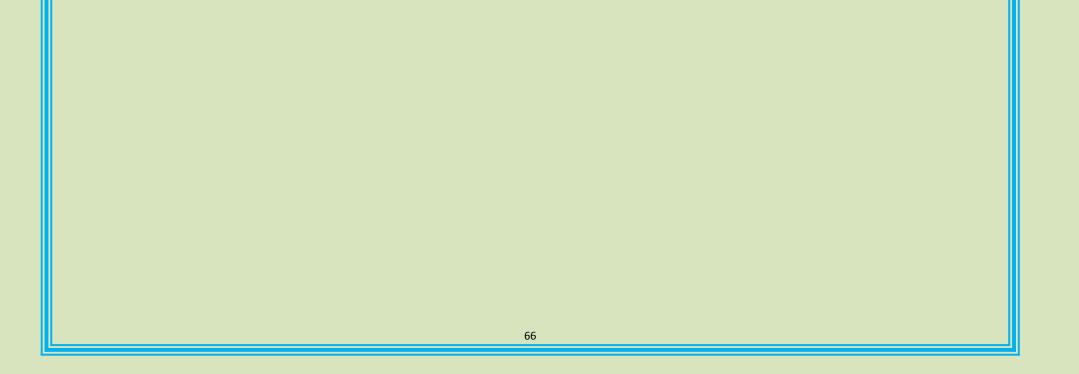
Student Girls Representative/Monitoring Class

0					
S					
•					D
N					Remar
0				-	k Ref.
•	Year	Class and Section	Name Girls rep. with Adm No.	Duration	No.,
1	2016-				
	17	B.SC(MPC) III YEAR	KUNJA PRAMEELA, H.T.No: 081154007	ONE YEAR	
		B.SC(MPC) I YEAR			
2	2017-				
~					
	18		BANOTH SWATHI, H.T.No: 081184002	ONE YEAR	
		B.SC,(MPC) II YEAR			
2	2018-				
3					
	19		AZMEERA VINODA, H.T.No: 081184001	ONE YEAR	
		B.SC(MPC) I YEAR			
	2019-				
			KANTE SEETHA MAHALAYMI, H T.No. 004204400		
4			KANTE SEETHA MAHALAXMI, H.T.No: 081204108	ONE YEAR	
	2020-				
5	21	B.SC(MPC) III YEAR	GALLA RACHEL, H.T.No: 081194206	ONE YEAR	

Allotment of

Teacher to Students as Mentor

S.No	YEAR	Class and Section	Name Teacher	No. of Students	Ref.No. List atta ch
1	2016-17	B.Sc.,(MPC) II Year	P.SRINIVASA RAO	13	YES
		B.Sc.,(MPC) I Year			YES
2	2017-18		P.SRINIVASA RAO	05	
		B.Sc.,(MPC) II Year			YES
3	2018-19		P.SRINIVASA RAO	05	
		B.Sc.,(MPC) III Year			YES
4	2019-20		P.SRINIVASA RAO	05	
		B.Sc.,(MPC) I Year			YES
5	2020-21		P.SRINIVASA RAO	27	
6	2021-22	B.Sc.,(MPC) III Year	P.SRINIVASA RAO	14	YES



INSTITUTIONAL VALUES

CRITERIA-VII

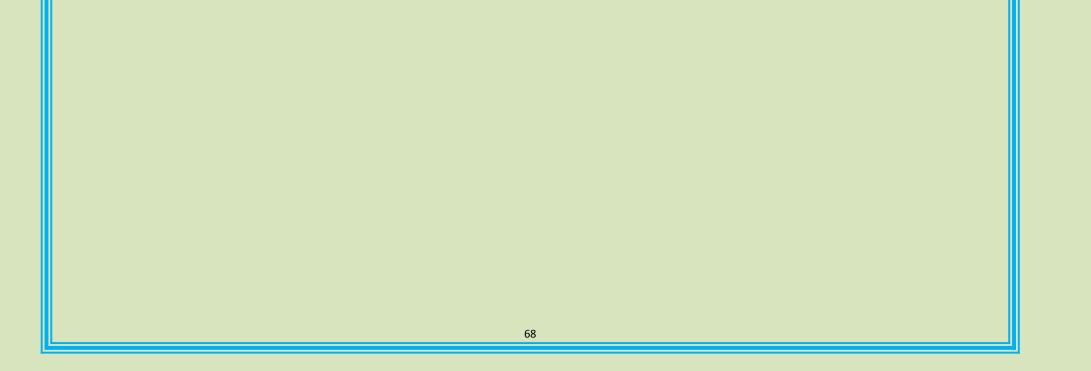
67

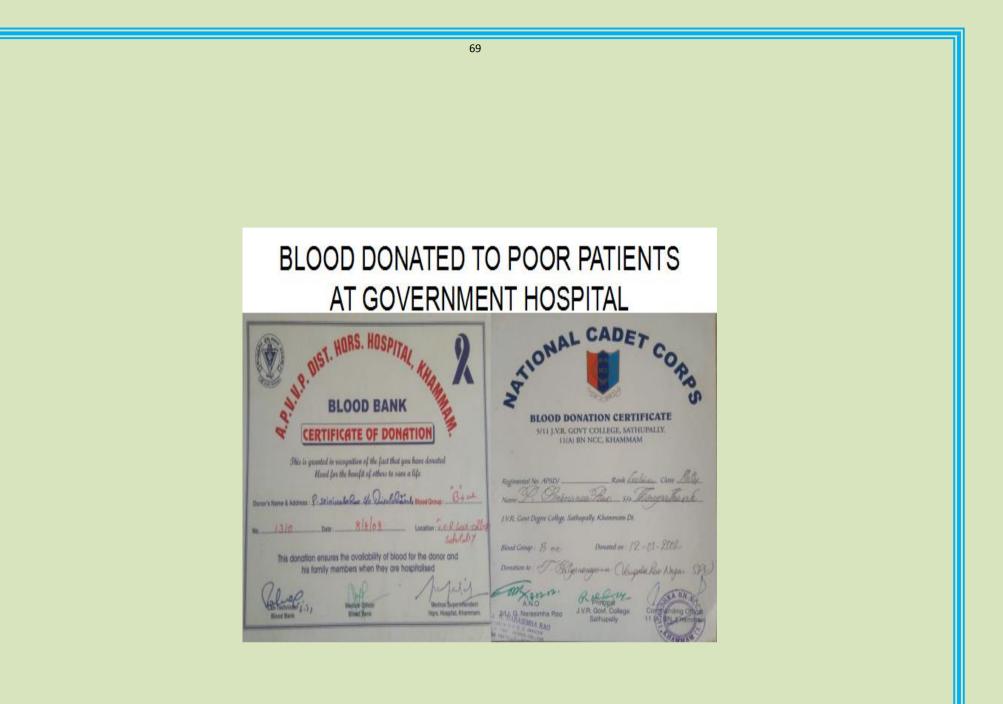
AND BEST PRACTICES

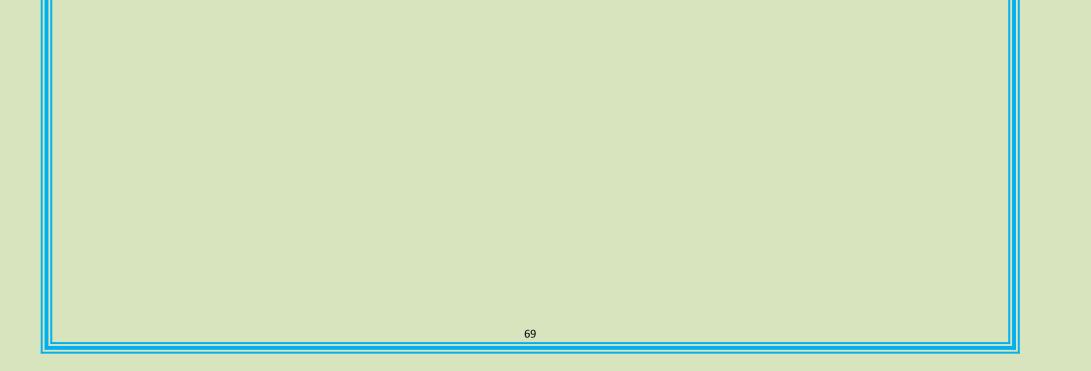
INSTITUTIONAL VALUES AND BEST PRACTICES

68

To impart the vital skills and foundational knowledge of Mathematics. •••• To deepen the skills gained through the course work. ••• To critically understand the society and develop consciousness inorder to motivate them to serve the mankind. ••• It is an innovative initiation taken by the department of Mathematics to promote a value-based education to the government school students in and around the college. ••• The college motivates staff & students to actively participate in community service for the neighborhood school students.







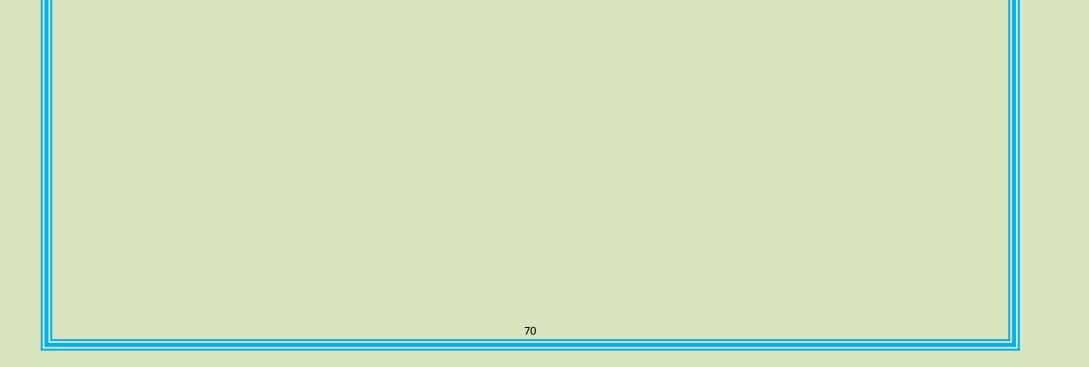
CERTIFICATE OF CULTURAL & LITERARY

70

CERTIFICATE CULTURAL & LITERARY
This Certificate is awarded to Kumar / Kumari MA. Stinivass Roo. Maths. S10. D10. who participated in <u>Perception & Expression</u> stood as <u>Mathienel gestures</u> conducted on the occasion of College Day Celebration 2011 -200
Werge Principal

Using ICT Tool for Effective Teaching in Class Room 2016-17

							Resource o	
S.N		Class and Pa		Number of Stu	ICT tool	Name of the T	r techniqu	Web Lin
0.	Date	per Code	Title of Lecture	dents Present	used	eacher	e used	k
	16-8-		DIFFERENTIAL E			P.SRINIVASA		
1	2016	l year	QUATIONS	4	РРТ	RAO		
	26-8-					P.SRINIVASA		
2	2016	II YEAR	REAL ANALYSIS	9	PPT	RAO		
	2-9-		VECTOR CALCUL			P.SRINIVASA		
3	2016	III YEAR	US	9	ppt	RAO		



Using ICT Tool for Effective Teaching in Class Room 2017-18

S N 0		Class and Pape r Code	Title of Lecture	Number of Students Present	ICT tool u sed	Name of the Te acher	Resource or techniq ue used	W e b Li n k	
1	5- 9- 20 17	I YEAR	D.E's	4	РРТ	P.SRINIVASA RAO			
2	6- 9- 20 17	II YEAR	REAL ANALYSIS	4	РРТ	P.SRINIVASA RAO			
3	7- 9- 20 17	III YEAR	SOLID GEOMET RY	11	РРТ	P.SRINIVASA RAO			
4	8- 9- 20 17	I YEAR	D.E'S	4	РРТ	P.SRINIVASA RAO			
5	11- 9- 20 17	II YEAR	ABSTRACT ALG EBRA	4	РРТ	P.SRINIVASA RAO			
6	13- 9- 20 17	III YEAR	LINEAR ALGEBR A	11	РРТ	P.SRINIVASA RAO			
7	14- 9- 20 17	I YEAR	D.E'S	4	РРТ	P.SRINIVASA RAO			
8	20- 10- 20 17	II YEAR	REAL ANALYSIS	4	РРТ	P.SRINIVASA RAO			
9	23- 10- 20 17	III YEAR	NUMERICAL AN ALYSIS	11	РРТ	P.SRINIVASA RAO			
				71					

Using ICT Tool for Effective Teaching in Class Room 2018-19

S								w
N								eb
0	Date	Class and P aper Code	Title of Lecture	Number of Students Present	ICT tool u sed	Name of the Te acher	Resource or techniq ue used	Li nk
1	30-7- 2018	I YEAR	D.E's	20	РРТ	P.SRINIVASA R AO		
2	31-7- 2018	II YEAR	REAL ANALYSIS	4	РРТ	P.SRINIVASA R AO		
3	1-8- 2018	III YEAR	SOLID GEOMETR Y	5	РРТ	P.SRINIVASA R AO		
4	2-8- 2018	I YEAR	D.E's	18	РРТ	P.SRINIVASA R AO		
5	4-8- 2018	II YEAR	ABSTRACT ALG EBRA	4	РРТ	P.SRINIVASA R AO		
6	7-8- 2018	III YEAR	LINEAR ALGEBR A	5	РРТ	P.SRINIVASA R AO		
7	10-8- 2018	I YEAR	D.E's	18	РРТ	P.SRINIVASA R AO		
8	13-8- 2018	II YEAR	REAL ANALYSIS	4	РРТ	P.SRINIVASA R AO		
9	14-8- 2018	III YEAR	NUMERICAL AN ALYSIS	5	РРТ	P.SRINIVASA R AO		

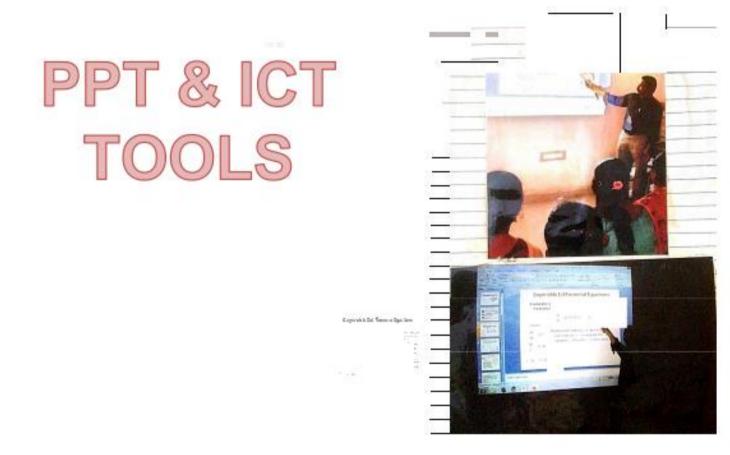
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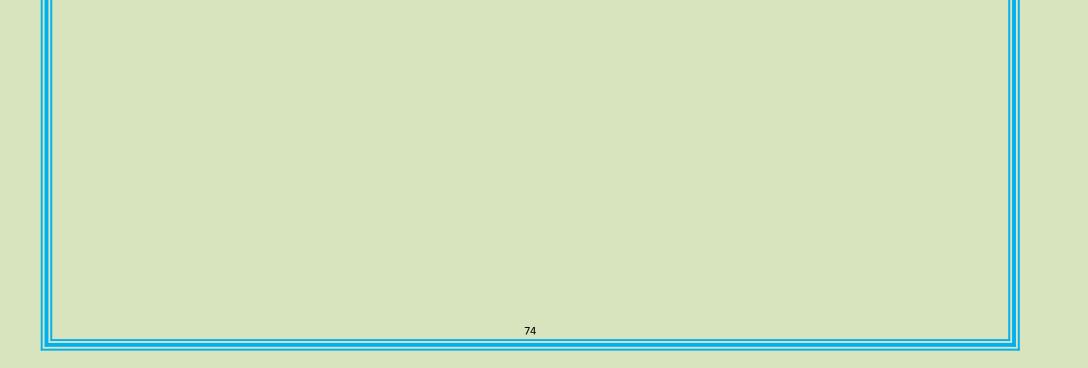
Using ICT Tool for Effective Teaching in Class Room 2019-20

S.No.	Date	Class and Paper Cod e	Title of Lecture	Number of Students Present	ICT tool u sed	Name of the Te acher	Resource or technique us ed	Web Lin k
1	22-7- 2019	I YEAR	D.E's	24	РРТ	P.SRINIVASA R AO		
2	23-7- 2019	II YEAR	REAL ANALYSI S	22	РРТ	P.SRINIVASA R AO		
3	24-7- 2019	III YEAR	SOLID GEOMET RY	05	PPT	P.SRINIVASA R AO		
4	25-7- 2019	I YEAR	D.E's	26	РРТ	P.SRINIVASA R AO		
5	26-7- 2019	II YEAR	ABSTRACT ALG EBRA	24	РРТ	P.SRINIVASA R AO		
6	27-7- 2019	III YEAR	LINEAR ALGEB RA	05	РРТ	P.SRINIVASA R AO		
7	31-7- 2019	I YEAR	D.E's	21	РРТ	P.SRINIVASA R AO		
8	1-8- 2019	II YEAR	REAL ANALYSI S	18	РРТ	P.SRINIVASA R AO		
9	2-8- 2019	III YEAR	NUMERICAL AN Alysi	05	РРТ	P.SRINIVASA R AO		

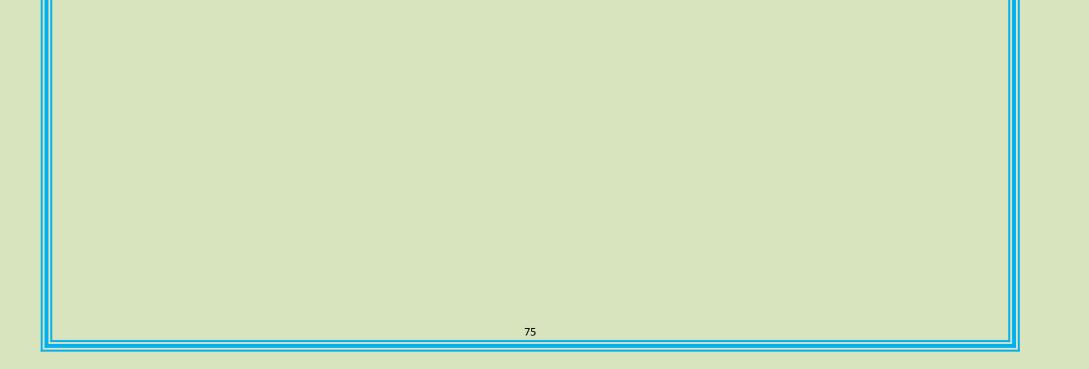
Using ICT Tool for Effective Teaching in Class Room 2020-21

			74			
				No. Of Students Attended		Web Link
S.No.	Date	Class	Title of Lecture		Name of the Teacher	
1	3-4-2021	I YEAR	DIFFERENTIAL EQUATIONS	24	P.SRINIVASA RAO	
2	6-4-2021	II YEAR	REAL ANALYSIS	21	P.SRINIVASA RAO	
3	7-4-2021	III YEAR	SOLID GEOMETRY	16	P.SRINIVASA RAO	
4	8-4-2021	I YEAR	DIFFERENTIAL EQUATIONS	27	P.SRINIVASA RAO	
5	9-4-2021	II YEAR	ABSTRACT ALGEBRA	23	P.SRINIVASA RAO	
6	12-4-2021	III YEAR	LINEAR ALGEBRA	18	P.SRINIVASA RAO	
7	15-4-2021	I YEAR	DIFFERENTIAL EQUATIONS	21	P.SRINIVASA RAO	
8	17-4-2021	II YEAR	REAL ANALYSIS	19	P.SRINIVASA RAO	
9	19-4-2021	III YEAR	NUMERICAL ANALYSIS	16	P.SRINIVASA RAO	





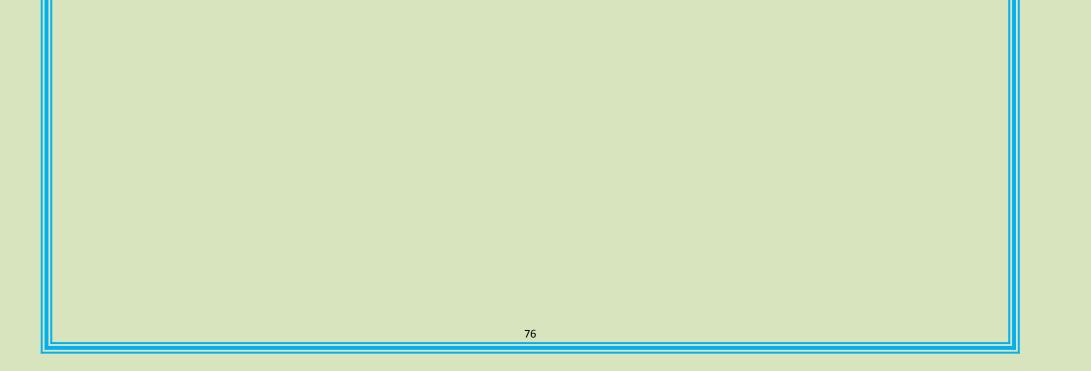
NUMERICAL ANALYSIS (PER DEGALA			2016-1-	7.	
santic problem: Given sints = 0.7071 sinses of	SiNO	Dote	Class	PPT/ICT	No: of st
	1	(6-8-2016	B.SC. I IYEAN	Differential Glade	4
by using any mathed of Enterrelation.	2-	17-8-2016	B SCITTY PERMY	Real Analysis	10
x 45° 50° 52° 55° 60	3	19-8-2016	B-SC-/III year	Solid Geometry	9
tes) 0.7071 0.1000 :	1	20-8-2016	B.SCI I.Year	Differential	4-
The difference table is a few BYEN BYEN	5	23-8-2016	B. SCAT YEAR	and the second	12
15 0.7071 0.0529 -0.0057 -0.0007	6	26-8-2916	B-SCITTE Xear	Linear Albeba	9
4000.011 -0.000	7	27-8-2016	B.Sc., I Year	Differentialors	4-43
55 0.8192 0.0168	8	1-9-2016	B.SC. JT. Year	RealAnalsse	12
By Newton's interrelation formula, we have By Newton's interrelation formula, we have Raturn) & HOUT W. Afront - 21 21 Haturn) & HOUT W. Afront - 21 21	9	2-9-2016	B.SCOTTE Year	Numeric (Andyse	9
$(a+uh) = f(v) + \frac{1-a}{2} = \frac{52-75}{2} = 1+7$ $(st) = 0.7071 + 1+7 \times 0.0589 + \frac{(1+7)(0-2)}{2} \times (-0.0)$ $+ \frac{(1+7)(0-2)(-0.0)}{3!} \times (-0.0)$ $(st) = 0.7071 + 0.081 + (-0.001595 + 0.000)$ $(st) = 0.7071 + 0.081 + (-0.001595 + 0.000)$ $(st) = 0.7071 + 0.081 + (-0.001595 + 0.000)$ $(st) = 0.7071 + 0.081 + (-0.001595 + 0.000)$ $(st) = 0.7071 + 0.081 + (-0.001595 + 0.000)$		fui lectro		PALONGHA- Bhadradni Kotha	A second s



YOUTUBE LINKS

Sl.No.	NAME OF THE LECTURER	YOUTUBE LINKS ABOUT MATHEMATICS SUBJECT CLASSES IN THE DEPARTMENT OF MATHEMATICS
1	P.SRINIVASA RAO	https://youtu.be/t371T_By3l8
2	P.SRINIVASA RAO	https://youtu.be/RrwUZ9HGyDs
3	P.SRINIVASA RAO	https://youtu.be/t371T_By3l8
4	P.SRINIVASA RAO	https://youtu.be/ErJ5NgzXDIg
5	P.SRINIVASA RAO	https://youtu.be/CPXq5-t7PvA
6	P.SRINIVASA RAO	https://youtu.be/znQ7-Pvftwl
7	P.SRINIVASA RAO	https://youtu.be/YucaHtMe00o
8	P.SRINIVASA RAO	https://youtu.be/9vu-NtKtg6A

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MEI	MORAN	DUM OF WITH UNDERSTANDING	
S.N O.	DATE OF MOU	NAME	R E M A R K S
1	20/08/20 16	Department of Maths, Government Degree college, BHADRACH ALAM	3
2	11/09/20 17	Department of Maths, Government Degree college, MANUGURU	
3	10/08/20 18	Department of Maths,SR Government Arts & Science college, K OTHAGUDEM	
4	25/07/20 19	Department of Maths, Government Degree college, YELLANDU	
5	08/04/20	Department of Maths, Government Degree college, MANUGURU	

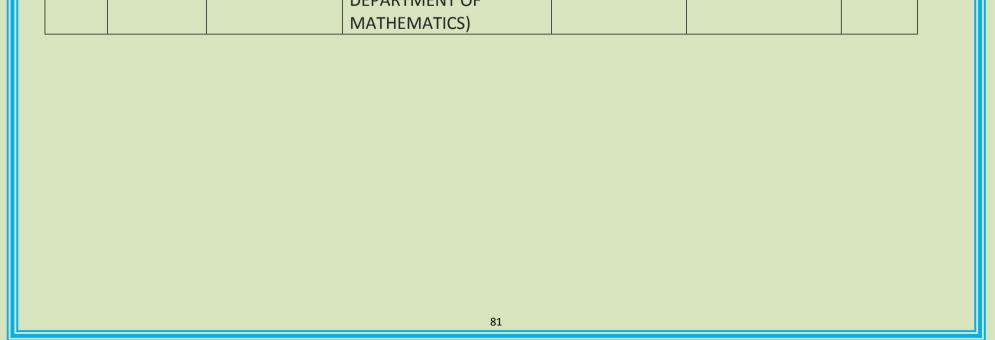


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S.N O.	NAME OF THE TEACHE R	DESIGNATI ON	PROGRAMME TITLE		ORGANIZED AND SPONSERED BY	PROG RAM ME COND UCTE D DATE S & DURA TION
1	P.SRINIVA SA RAO	LECTURER IN MATHEMATICS	NATIONAL LEVEL WEBINAR ON SKILL DEVELOPMENT	WEBINAR	DEPARTMENT OF LIBRARY SCIENCE, GDC, PALONCHA	18-5- 2020
2	P.SRINIVA SA RAO	LECTURER IN MATHEMATICS	E-QUIZ SERIES ABOUT ANALYSIS	QUIZ	A.P.C.MAHALAXM I COLLEGE FOR WOMEN, THOOTHUKUDI	9-6- 2020
3	P.SRINIVA SA RAO	LECTURER IN MATHEMATICS	NATIONAL LEVEL e-QUIZ on MATHEMATICS AND IT's APPLICATIONS	QUIZ	LORDS INSTITUTE OF ENGINEERING & TECHNOLOGY, HYDERABAD	12-6- 2020
4	P.SRINIVA SA RAO	LECTURER IN MATHEMATICS	ALL INDIA NATIONAL LEVEL ONLINE QUIZ ON GENERAL STUDIES	QUIZ	GOVERNMENT DEGREE COLLEGE, IBRAHIMPATNAM , R.R.DISTRICT, TELANGANA	15-6- 2020
5	P.SRINIVA SA RAO	LECTURER IN MATHEMATICS	NATIONAL LEVEL e-QUIZ ON MATHEMATICS	QUIZ	VIVEKANANDA COLLEGE, AGASTHEESWARA M, KANYA KUMARI DISTRICT, TAMILANADU, PIN: 629701	15-6- 2020
6	P.SRINIVA SA RAO	LECTURER IN MATHEMATICS	NATIONAL LEVEL ONLINE QUIZ IN MATHEMATICS & APTITUDE	QUIZ	ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY & CONDUCTED BY DEPARTMENT OF MATHEMATICS	19-6- 2020
7	P.SRINIVA SA RAO	LECTURER IN MATHEMATICS	ONEDAY FDP WEBINAR ON "THE EMERGING ONLINE EDUCATION, POST COVID-19 ROLE OF TEACHERS AND STUDENTS (IQAC CELL)	FDP WEBINAR	CONDUCTED BY IQAC CELL, SRI DURGA MALLESWARA SIDDHARTHA MAHILA KALASALA, VIJAYAWADA	19-6- 2020
8	P.SRINIVA SA RAO	LECTURER IN MATHEMATICS	ONLINE MATHEMATICS QUIZ IN JUNE 2020	QUIZ	MAHATMA JYOTHIBA PHULE	19-6- 2020

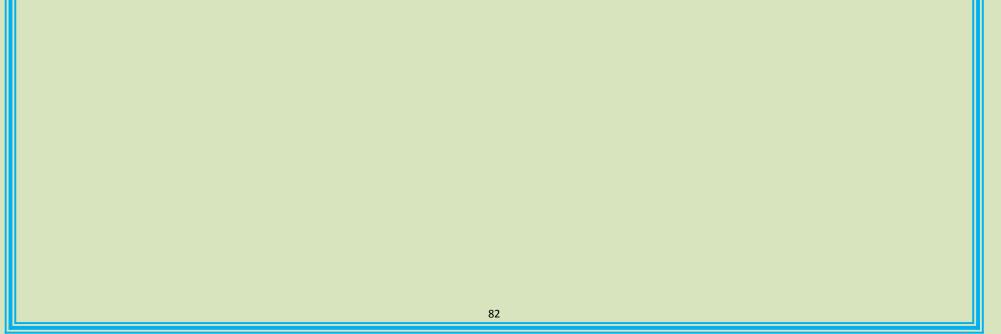
			79			
					 TELANGANA BACKWARD CLASSES WELFARE RESIDENTIAL DEGREE COLLEGE FOR WOMEN, WARGAL, SIDDIPET DISTRICT 	
9	P.SRINIVA SA RAO	LECTURER IN MATHEMATICS	ONLINE APTITUDE QUIZ	QUIZ	PLACEMENT AND NSEED CELL, NANDHA ARTS AND SCIENCE COLLEGE, ERODE- 52, TAMILNADU, INDIA	19-6- 2020
10	P.SRINIVA SA RAO	LECTURER IN MATHEMATICS	ONEDAY NATIONAL WEBINAR ON "YOGA TRAINING THE PRACTICAL SESSION" CONDUCTED ON THE EVE OF INTERNATIONAL YOGA DAY	WEBINAR	GOVERNMENT DEGREE COLLEGE, YELLANDU, BHADRADRI KOTHAGUDEM DISTRICT	21-6- 2020
11	P.SRINIVA SA RAO	LECTURER IN MATHEMATICS	ONLINE QUIZ COMPETITION ON "ENGINEERING MATHEMATICS" (ORGANISED BY THE DEPARTMENT OF HUMANITIES & MATHEMATICS)	QUIZ	G.NARAYANAMM A INSTITUTE OF TECHNOLOGY & SCIENCE (FOR WOMEN), SHAIKPET, HYDERABAD- 500104	JUNE 2020
12	P.SRINIVA SA RAO	LECTURER IN MATHEMATICS	ONLINE NATIONAL LEVEL WEBINAR ON INTERNATIONAL YOGA DAY (ORGANISED BY EKBHARATH SHRESHTHA BHARAT (ESEB) CLUB & NSS UNIT	WEBINAR	GOVERNMENT DEGREE COLLEGE, PALONCHA	21-6- 2020
13	P.SRINIVA SA RAO	LECTURER IN MATHEMATICS	ONLINE QUIZ ON "NAAC AWARENESS QUIZ-2020"	QUIZ	MAHABUBNAGAR VIDYA SAMITHI (M.V.S.) GOVERNMENT ARTS & SCIENCE COLLEGE (A), CHRISTNAPALLY, MAHABUBNAGAR , PIN: 509001, TELANGANA	JUNE 2020
14	P.SRINIVA SA RAO	LECTURER IN MATHEMATICS	NATIONAL LEVEL ONLINE FDP ON "DIGITAL SKILLS FOR SMART TEACHING"	FDP	RAJA DORAISINGAM GOVERNMENT ARTS COLLEGE, SIVAGANGA- 630561, TAMILNADU	22-6- 2020 TO 23- 6-2020
15	P.SRINIVA SA RAO	LECTURER IN MATHEMATICS	"WEBINAR ON APPLICATIONS OF FUZZY MATHEMATICS"(ORGANI	WEBINAR	POPE's COLLEGE (A), SAWYERPURAM	22-6- 2020

			80			
			SED BY THE DEPARTMENT OF MATHEMATICS)			
16	P.SRINIVA SA RAO	LECTURER IN MATHEMATICS	E-QUIZ ON HIGHER MATHEMATICS (ORGANISED BY DEPARTMENT OF MATHEMATICS)	QUIZ	PARVATHY'S ARTS & SCIENCE COLLEGE, WISDOM CITY MADURAI MAIN ROAD, DINDIGUL- 2	24-6- 2020
17	P.SRINIVA SA RAO	LECTURER IN MATHEMATICS	"DIFFERENTIAL TRANSFORMS AND SERIES SOLUTIONS OF NON-DARCY MOMENTUM EQUATION" (CONDUCTED BY DEPARTMENT OF MATHEMATICS, KPRIET)	WEBINAR	KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY (A), AVINASHI ROAD, ARASUR, COIMBATORE- 641407	25-6- 2020 TO 26- 6-2020
18	P.SRINIVA SA RAO	LECTURER IN MATHEMATICS	ONLINE QUIZ IN GROUP THEORY (ORGANISED BY DEPARTMENT OF MATHEMATICS)	QUIZ	SR & BGNR GOVERNMENT ARTS & SCIENCE COLLEGE (A), KHAMMAM	26-6- 2020
19	P.SRINIVA SA RAO	LECTURER IN MATHEMATICS	ONLINE NATIONAL WEBINAR ON MATHEMATICAL APPLICATIONS ON DIFFERENTIAL EQUATIONS JOINTLY ORGANISED BY DEPT. OF MATHS (UG & PG)	WEBINAR	SIR C.R.REDDY COLLEGE, ELURU, ANDHRA PRADESH	26-6- 2020
20	P.SRINIVA SA RAO	LECTURER IN MATHEMATICS	TWO WEEK NATIONAL LEVEL ONLINE FACULTY DEVELOPMENT PROGRAMME (FDP) ON SKILL DEVELOPMENT AND COMEPTENCY ENHANCEMENT FOR COLLEGE TEACHERS	FDP	GOVERNMENT DEGREE COLLEGE, PARKAL, WARANGAL DISTRICT, TELANGANA	17-6- 2020 TO 30- 6-2020
21	P.SRINIVA SA RAO	LECTURER IN MATHEMATICS	ONLINE WEBINAR ON "MATHEMATICA & APPLICATIONS OF MATHEMATICS" (ORGANISED BY DEPARTMENT OF APPLIED SCIENCES, MATHS & HUMANITIES)	WEBINAR	MAHATMA EDUCATION SOCIETY'S PILLAI COLLEGE OF ENGINEERING, DVK.M.VASUDEV AN PILLAI CAMPUS, SECTOR-16, NEW PANVEL-410206	27-6- 2020 TO 29- 6-2020
22	P.SRINIVA SA RAO	LECTURER IN MATHEMATICS	ONLINE QUIZ PROGRAMME ON "NATIONAL LEVEL e-QUIZ ON MODERN INDIAN HISTORY"(ORGANISED BY DEPARTMENT OF HISTORY)	QUIZ	SR & BGNR GOVERNMENT ARTS & SCIENCE COLLEGE (A), KHAMMAM	5-7- 2020
23	P.SRINIVA	LECTURER IN	ONLINE GENERAL	QUIZ	GIRRAJ	8-7-

			81			
	SA RAO	MATHEMATICS	MATHEMATICS QUIZ (ORGANISED BY DEPARTMENT OF MATHEMATICS)		GOVERNMENT COLLEGE (A), NIZAMABAD	2020
24	P.SRINIVA SA RAO	LECTURER IN MATHEMATICS	NATIONAL LEVEL e-QUIZ COMPETITION ON MATHEMATICS (ORGANISED BY DEPARTMENT OF MATHEMATICS)	QUIZ	NTR GOVERNMENT DEGREE COLLEGE (W), MAHABUBNAGAR	8-7- 2020
25	P.SRINIVA SA RAO	LECTURER IN MATHEMATICS	"ONE WEEK ONLINE INTERNATIONAL FDP ON ADVANCED MATERIALS & MATHEMATICAL TOOLS" (ORGANISED BY FIRST YEAR ENGINEERING DEPARTMENT)	FDP	AMAR SEVA MANDAL'S GOVINDRAO WANJARI COLLEGE OF ENGINEERING & TECHNOLOGY, NAGPUR	10-7- 2020 TO 14- 7-2020
26	P.SRINIVA SA RAO	LECTURER IN MATHEMATICS	NATIONAL LEVEL ONLINE e-QUIZ (ORGANISED BY DEPARTMENT OF MATHEMATICS, GDC (SCIENCES)	QUIZ	GOVT. DEGREE COLLEGE (SCIENCES), NAGARKURNOOL DISTRICT PIN: 509209	11-7- 2020
27	P.SRINIVA SA RAO	LECTURER IN MATHEMATICS	WEBINAR ON "EFFECTIVE LIFE MANAGEMENT THROUGH YOGA & LIFE SKILLS IN THE CHANGING ENVIRONMENT (ORGANISED BY DEPT. OF ZOOLOGY)	WEBINAR	GOVERNMENT DEGREE COLLEGE, BELLAMPALLY, MANCHERIAL DISTRICT	15-7- 2020
28	P.SRINIVA SA RAO	LECTURER IN MATHEMATICS	FIVE DAYS FDP ON ICT TOOLS	FDP	PRIYADARSHINI DEGREE & PG COLLEGE, NEHRU NAGAR, KHAMMAM	23-7- 2020 TO 27- 7-2020
29	P.SRINIVA SA RAO	LECTURER IN MATHEMATICS	NATIONAL LEVEL QUIZ ON ARITHMETIC (ORGANISED BY DEPARTMENT OF MATHEMATICS)	QUIZ	GOVERNMENT DEGREE COLLEGE, JAMMIKUNTA, KARIMNAGAR DISTRICT	1-8- 2020 TO 12- 8-2020
30	P.SRINIVA SA RAO	LECTURER IN MATHEMATICS	ONLINE NATIONAL LEVEL e-QUIZ ON MATHEMATICS (ORGANISED BY DEPARTMENT OF	QUIZ	GOVERNMENT DEGREE COLLEGE (SCIENCES), NAGARKURNOOL	10-8- 2020 TO 17- 8-2020





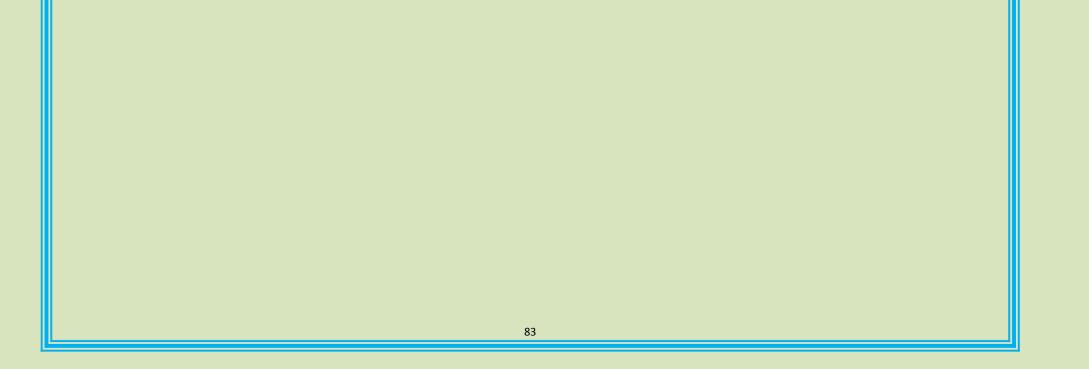


HARITHA HARAM PROGRAMME

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FUTURE PLANS:

- To strengthen the department it is proposed to apply for sanction of well equipped laboratory, well established Departmental Library and supervisory ship.
- To develop interdisciplinary add on courses.
- To intensify Extracurricular activity in the department.
- Participation in Institutional Social Responsibility and Extension activities.
- For quick and accurate internal evaluation of the student performance.

