

**SUM GOVERNMENT DEGREE COLLEGE**

**KONDANAGULA**

*Department of Mathematics*



**K.ASHOK KUMAR**

**M.Sc,(P.hd)**

**Lecturer in Mathematics.**



# Brief analysis

S.NO	PROFILE OF THE DEPARTMENT	RESPONSES
1.	Name of the Department	Mathematics
2.	Year of Establishment	1989
3.	Number of Teachers sanctioned and present position	01 and 01
4.	Number of Technical Staff	Nil
5.	Number of Teachers and Students	01/54
6.	Ratio of Teachers to Students	1:54
7.	The year when the curriculum was revised last	2019
8.	Number of students secured ranks in universities	Nil
9.	Number of books in the Departmental Library, if any	20
10.	Number of Computers	Nil





# About Department Of Mathematics

In the year 2008, the college introduced Department of Mathematics with different combinations at UG level keeping in view the need for strengthening its Physical Sciences Wing and growing Competition in the IT and Science fields. Previously the department of Mathematics under the OSMANIA UNIVERSITY up to 2010, After 2010

– 2011 academic year this department converted to the PALAMUR UNIVERSITY. The department of Mathematics has been

providing excellent Learning platform for the science students to shine forth, N Srinivasulu Goud is the In-charge of the Department Mathematics for more than two years. With the passage of time year, Till today a admission into UG courses is a great demand

***Our motto : Dear Math, I love***



# DEPARTMENT INFORMATION



Name of the Department: **Mathematics**

Present Faculty:

Name	Position	Contact	Email
<b>K.Ashok Kumar</b>	<b>Head of the department</b>	<b>9849991676</b>	<b><a href="mailto:ashokkumar2028@gmail.com">ashokkumar2028@gmail.com</a></b>

Names of Programmes / Courses offered : **UG-B.Sc.(MPC,MPCs)** Names of

**Interdisciplinary courses and the departments/units involved:**

**Physics, Chemistry, Computer Science.**

➤ Annual/ semester/choice based credit system (programme wise): **Semester** Participation of the department in the courses offered by other departments: **TSKC,**

➤ **Computer Science, Physics.**



# Vision and Mission:

## Vision

- To spread the knowledge of Mathematics and it's applications to youngstudents through teaching and learning.

## Mission

- To bring up the innate talent in Mathematics.
- To develop a positive aptitude towards Mathematics.
- To develop logical skills in Mathematics among the students.
- To develop creative thinking in Mathematics among the students.
- To develop problem solving ability among the students.
- To provide a back ground for relating techniques to solve real

***Our motto : Dear Math, I Love You .***

**Department POs and PSOs**

S.No	Program Outcomes	Program Specific Outcomes
1	Enabling students to develop a positive attitude towards mathematics as an interesting and valuable subject of study.	Think in a critical manner.
2	Ability to analyze a problem, identify and define the computing requirements, which may be appropriate to its solution.	Know when there is a need for information, to be able to identify, locate, evaluate, and effectively use that information for the issue or problem at hand.
3	A student should get a relational understanding of mathematical concepts and concerned structures, and should be able to follow the patterns involved, mathematical reasoning.	Acquire good knowledge and understanding in advanced areas of mathematics chosen by the student from the given courses.
4	Introduction to various courses like group theory, ring theory and number theory.	Formulate and develop mathematical arguments in a logical manner.
5	Ability to pursue advanced studies and research in pure and applied mathematical science.	Understand, formulate and use quantitative models arising in social science, Business and other contexts.



## Number of Teaching posts :

	<b>Sanctioned</b>	<b>Filled</b>
<b>Lecturers</b>	<b>01</b>	<b>01</b>


Faculty profile with name, qualification, designation, specialization,

<b>Name</b>	<b>Qualification</b>	<b>Designation</b>	<b>Specialization</b>	<b>No Of Years of Experience</b>
<b>K Ashok kumar</b>	<b>M.Sc,(Phd).</b>	<b>Lecturer</b>	<b>Mathematics</b>	<b>20</b>





## Biography of the Faculty member:

Name of the candidate	<b>K ASHOK KUMAR</b>	
Date Appointment	29-08-2002	
Date of birth	26-06-1974	
SSC	Completed in 1991 at ZPHS , Wanaparthy	
Intermediate	Completed in 1993 at Govt. Junior college, , Wanaparthy.	
Under Graduate B.Sc (MPC)	Completed in 1996 at Govt. Degree College , Wanaparthy, Under Osmania University	
Post Graduate M.Sc Mathematics	Completed in 1998 at Kakathiya University Of Warangal.	
Address	H.No 41199/2,Wanaparthy,Wanaparthy(m) Dist : Wanaparthy, T.S 509103.	



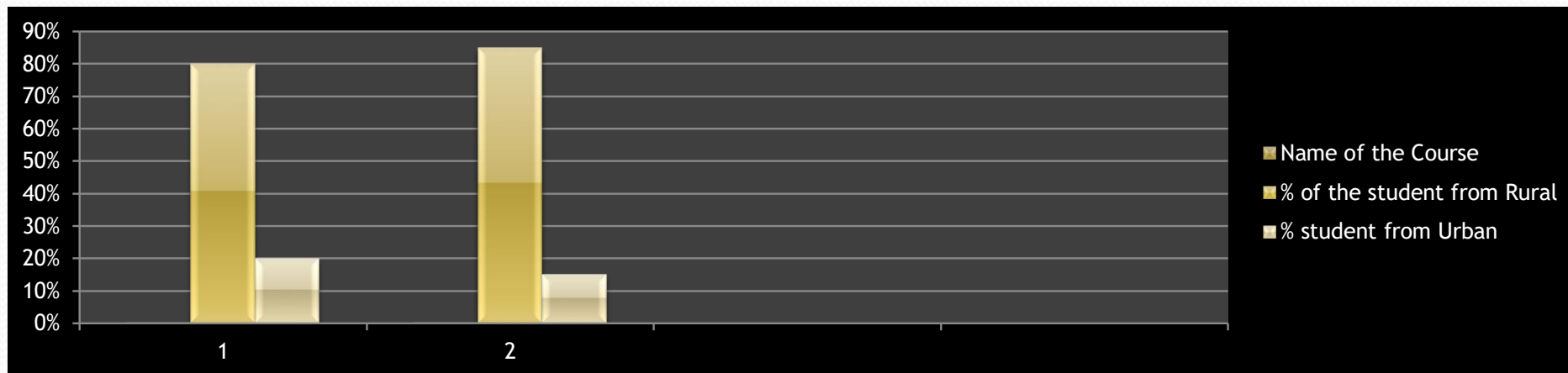


## Student profile programme /course wise for the AY 2021-22:

Name of the Course (refer question no. 4)	Intake	Number of students Joined	Percentage of joined
B.Sc Physical Science ( MPC,MPCS)	60	28	47%

## Diversity of Students:

Name of the Course	% of students from rural	% of students from urban
B.Sc(MPC& MPCS,)	80%	20%
	85%	15%



## Work load particulars:

Name of the lecturer	Theory	Tutorial
<b>K ASHOK KUMAR</b>	<b>15</b>	<b>09</b>





# Dept. of Mathematics Time Table -2021-22

Day	Period-1 10:00 am -11:00am	Period-2 11:00am- 12:00am	Period-3 12:00am - 1:00		Period-4 1:30pm - 2:30pm	Period-5 2:30pm-3:30pm	Perio-6 3:30pm - 4:30pm	
<b>Monday</b>		<b>Maths</b>	<b>Maths</b>	<b>Lunch Break</b>		<b>SEC-1</b>	- - - -	
<b>Tuesday</b>		<b>Maths</b>	<b>Maths</b>		---- -	<b>Maths- Tutorial</b>	<b>SEC-1</b>	
<b>Wednesd ay</b>	<b>Maths</b>	<b>Maths</b>				----	<b>SEC-1</b>	
<b>Thursday</b>		<b>Maths</b>	<b>Maths</b>		---- -	<b>Maths- Tutorial</b>	- - - -	
<b>Friday</b>	<b>Maths</b>	<b>Maths</b>	<b>Maths</b>				----	
<b>Saturday</b>			----			<b>Maths</b>	----	<b>SEC-1</b>



# Syllabus

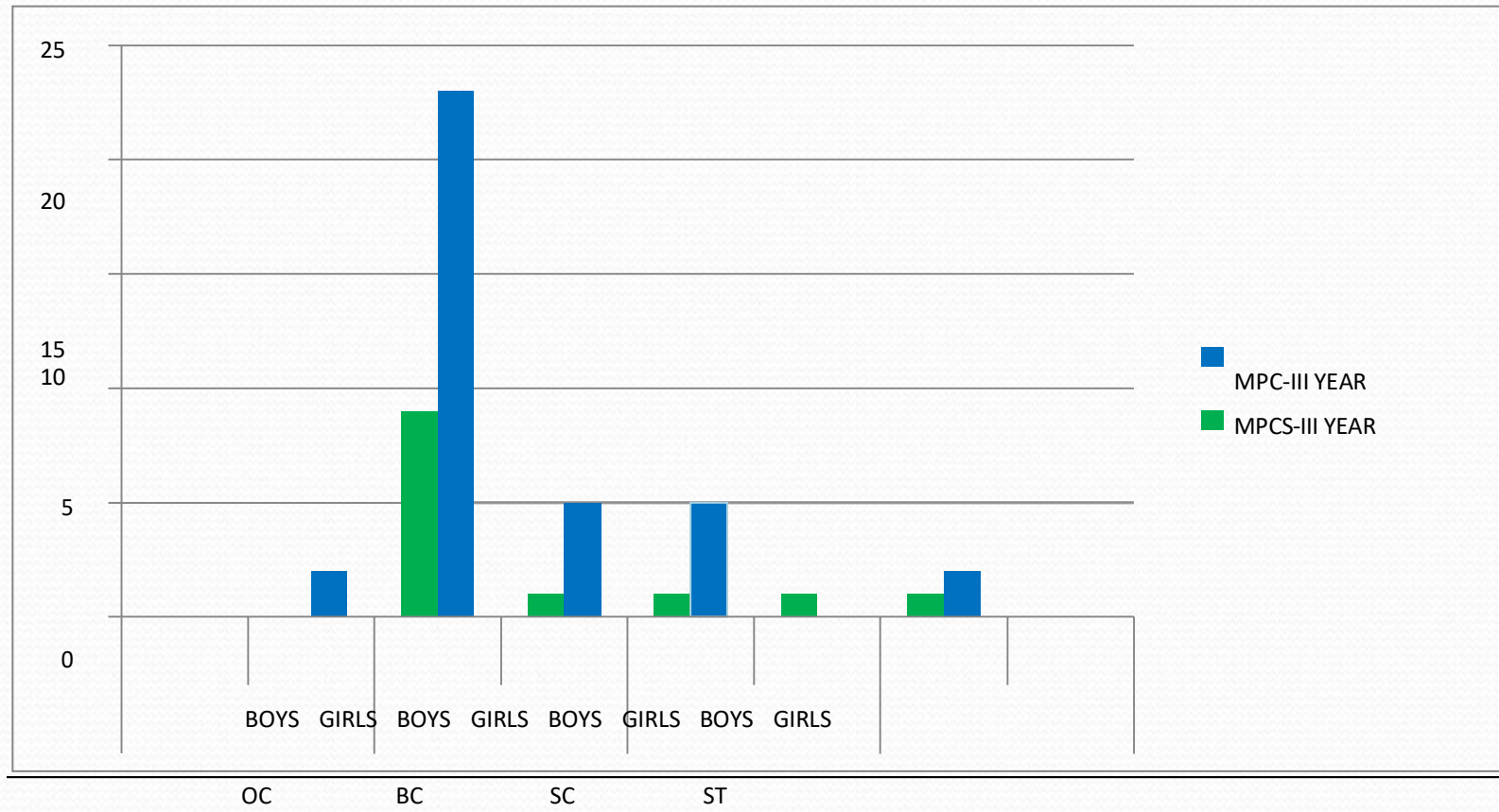
Paper	Semester	Subject	Hours/ per week	Hours/per week		Max. Marks	Credits
				Theory	*Tutorials		
DSC - I	I	Differential & Integral Calculus	6	5	1	100	5
DSC - II	II	Differential Equations	6	5	1	100	5
DSC - III	III	Real Analysis	6	5	1	100	5
DSC - IV	IV	Algebra	6	5	1	100	5
DSC - V	V	Linear Algebra	6	5	1	100	5
DSE – VI(A)	VI	(A) Numerical Analysis	6	5	1	100	5
DSE – VI(B)	VI	(B) Integral Transforms	6	5	1	100	5
DSE – VI(C)	VI	(C) Analytical Solid Geometry	6	5	1	100	5
SEC-I	III	Theory of Equations	2	2	-	50	2
SEC-II	III	Logic & Sets	2	2	-	50	2
SEC-III	IV	Number Theory	2	2	-	50	2
SEC-IV	IV	Vector Calculus	2	2	-	50	2
Generic Elective	V-A*	1.Basic Mathematicsor 2.Mathematics of Finance & Insurance	4	4	-	100	4
Project/ Optional	VI*	Mathematical Modelling	4	4	-	100	4



## Student social status for the academic year 2021-22

2021-22	OC		BC		SC		ST		TOTAL	
	BOYS	GIRLS	BOYS	GIRLS	BOYS	GIRLS	BOYS	GIRLS	BOYS	GIRLS
MPC -I YEAR	0	0	0	0	2	0	1	0	3	1
MPCS -I YEAR	0	0	3	4	2	2	3	2	7	8
MPC-II YEAR	0	0	5	0	1	1	3	1	10	1
MPCS-II YEAR	0	0	1	1	2	0	1	1	5	1
MPC-III YEAR	0	0	2	2	1	2	2	1	5	5
MPCS-III YEAR	0	0	0	1	0	0	0	0	0	1



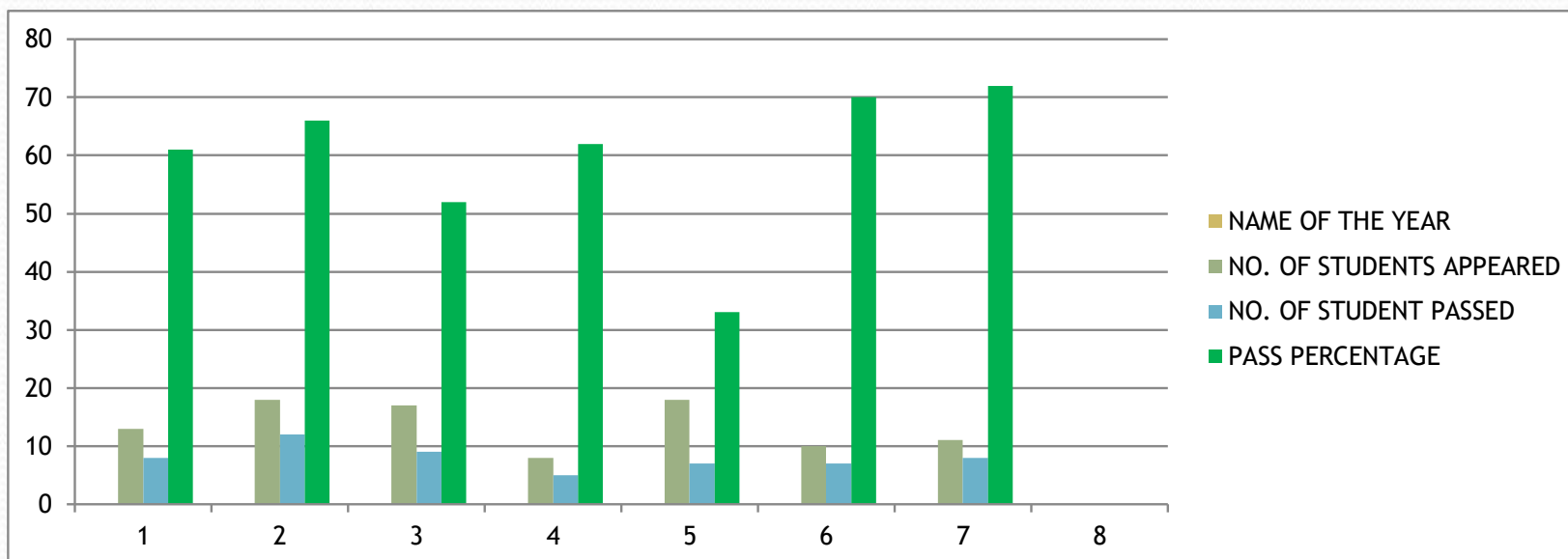






## Year Wise Result analysis:

NAME OF THE YEAR	NO. OF STUDENTS APPEARED	NO. OF STUDENT PASSED	PASS PERCENTAGE
2015-16	13	8	61
2016-17	18	12	66
2017-18	17	9	52
2018-19	8	5	62
2019-20	18	7	33
2020-21	10	7	70
2021-22	11	8	72





# TOPPERS IN MATHEMATICS:

YEAR	PAPER	NAME OF THE STUDENT	ROLL NO	GRADE (GPA)
2021-22	MATHEMATICS-I	M.SHIREESHA	2103-3051-468-1011	O
		U.RAJU	2103-3051-468-1019	O
		U.ANUSHA	2103-3051-468-1018	A+
	MATHEMATICS-II	MD SAMREEN	2003-3051-468-1010	O
	MATHEMATICS-III	MD RIYAZ	1903-3032-468-027	A+
2020-21	MATHEMATICS-I	V.SUNAYANA	2003-3051-468-048	A+
		L.HEMANTHKUMAR	2003-3051-441-007	O
		M.BIKSHAPATHI	2003-3051-441-008	O
		J.ANIL	2003-3051-468-002	O
	MATHEMATICS-II	SAI PRASHANTH	1903-3018-468-033	A
		K.HARIKRISHNA	1903-3051-441-006	O
		M.BHARGAVI	1903-3051-441-008	O
	MATHEMATICS-III	D.BHARGAVI	<b>1803-3051-441-004</b>	<b>O (9.28)</b>
		G.ANJALI	<b>1803-3051-441-005</b>	<b>O</b>

2019-20	MATHEMATICS-I	M.ASHOK	1903-3051-441-011	A+
		K.ANUSHA	1903-3051-441-007	O
		SHEIK JAREENA	1903-3051-441-013	O
		D.HARISH	1903-3051-468-004	O
	MATHEMATICS-II	C.GOWRI	1803-3051-441-003	O
		D.BHARGAVI	1803-3051-441-004	A+
		N.SATISH	1703-3051-441-504	O
	MATHEMATICS-III	D.USHARANI	1703-3051-441-010	O
MATHEMATICS-IV	D.USHARANI	1703-3051-441-010	O	
2018-19	MATHEMATICS-I	N.AKASH	1803-3051-468-052	O
	MATHEMATICS-II	D.USHARANI	1703-3051-441-010	O
	MATHEMATICS-III	J.ANJANEYULU	1603-3051-441-506	A+
		K.SANDYARANI	1603-3051-441-508	A+
		P.SHIVALEELA	1603-3051-441-512	O
V.DIVYA		1603-3051-441-513	O	



# TEACHING

(In addition to black board teaching)

➤ ICT enabled teaching is done in blended modes through different platforms as shown below

➤ **Online classes**

➤ **YouTube Lectures**



## **LEARNING (In addition to classroom learning):**

1. Guest lectures
2. Subject quizzes (online and offline)
3. Study projects
4. Elocution
5. Seminars
6. Group discussions
7. Essay writing
8. Field visit/work
9. National Science Day celebrations
10. National Mathematics Day Celebrations



## Extension Lectures:

- Ch Salman Raj, given lecture on Memory on Mathematics, GDC Kolapur on 11-12-2015.
- Bala Krishna, given lecture on Laplac Transformation, GDC Amarabad on 15-12-2016.
- Ch Salman Raj, given lecture on Reimanna Integration, GDC Kolapur on 14-07-2018.
- Srinivasa Goud, given lecture on Numerical Analysis ,GDC Pebber on 16-10-2018.
- Bala Krishna, given lecture on Reimanna Integration, GDC Ambrabad on 4-11-2019.
- S Ramesh Babu, given lecture on Differential Equations, GDC Kolapur on 21-02-2021.
- N Narsimha, given lecture on Eigen Values and Eigen Vectors, GDC Nalgonda on 29-09-2021.

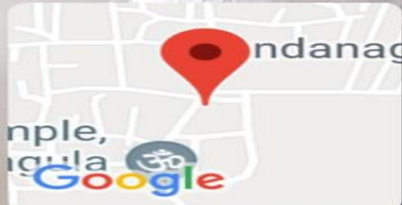
Dept of Mathematics

Date: 29/09/2021

Extension Lecture

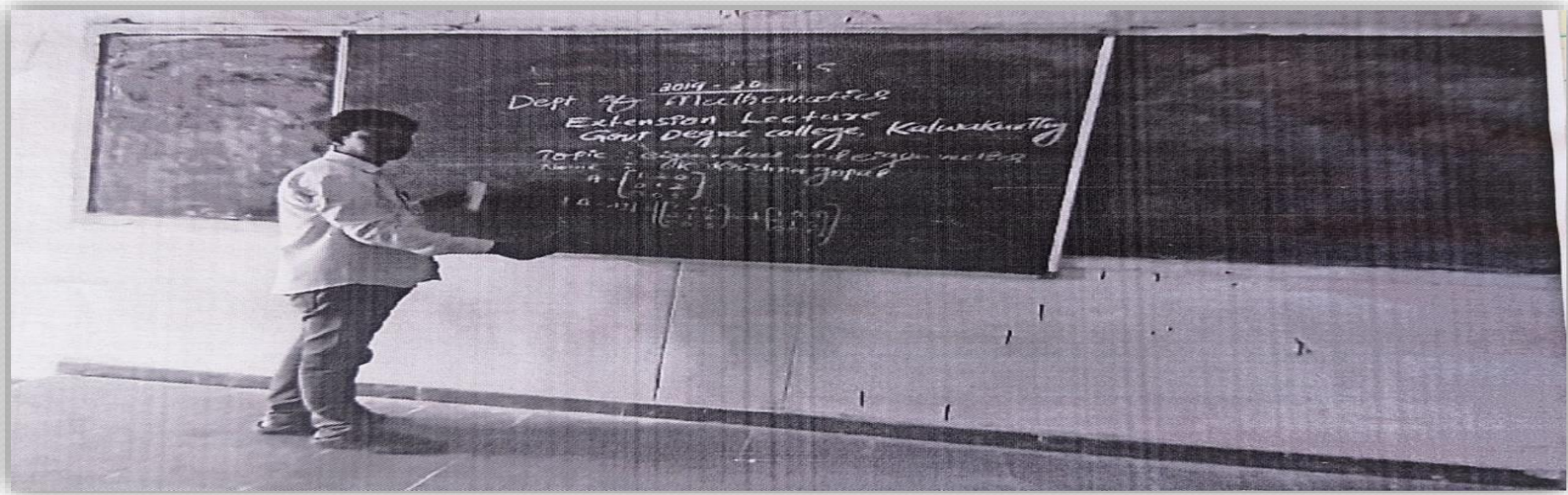
Name of the Lecturer: N. Narsimha

Topic: Eigen values & Eigen vectors



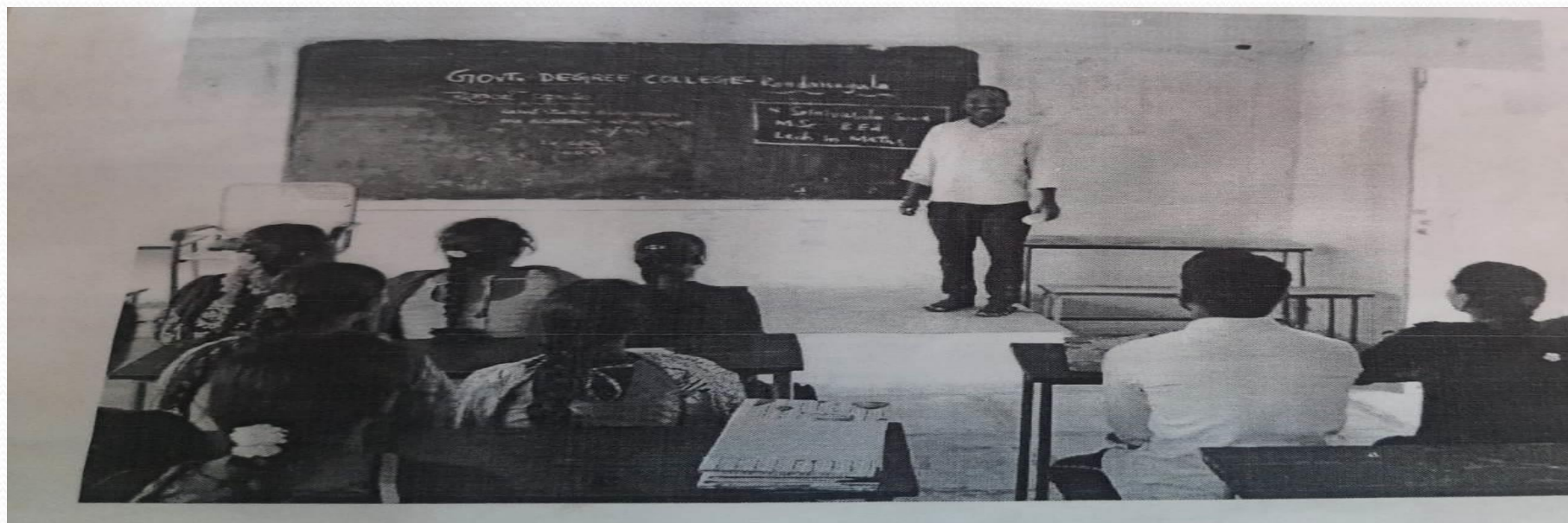
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22

**Bala Krishna giving extension lecture on 01-03-2021**



N

**Srinivasu Goud giving extension lecture on 01-03-2021**





## Student seminars:

We have conducted seminars from the academic year 2015-16 to 2019-20.

<b>Name of the student</b>	<b>Class</b>	<b>Date</b>	<b>Topic</b>
N jyothe	B.Sc (MPC) III YEAR	13-11-2015	Line Integral
G Naga Vinodini	B.Sc (MPC) III YEAR	10-07-2015	Differential operators
Y Gayathri	B.Sc (MPC) III YEAR	03-08-2015	Vectors
S Vijaya Laxmi	B.Sc (MPC) II YEAR	25-07-2015	Straght Line
G Nagesh	B.Sc (MPC) I YEAR	09-09-2016	First Order and First Degree D.E
Srikanth	B.Sc (MPC) II YEAR	09-10-2017	Group Theorems
Raghavendar	B.Sc (MPCS) II YEAR	10-09-2018	Sequences
D Bhargavi	B.Sc (MPC) II YEAR	03-10-2018	Fundamental Theoram
G Naresh	B.SC(MPC) I YEAR	04-11-2019	Difference calculus
Haritha	B.Sc (MPCS) I YEAR	18-12-2019	Difference calculus
Pudhivi Raj	B.SC(MPC) III YEAR	10-02-2021	Eigen Values and Eigen Vectors
C Sangeetha	B.SC(MPCS) III YEAR	12-02-2021	Vector calculus
G Naresh	B.Sc (MPC) III YEAR	16-05-2021	Laplace Transforms



**Jyothi B.Sc (MPC) III YEAR , giving**



**G Nagesh B.Sc (MPC) III YEAR , giving**



# Learning by Student Study projects:

S.No	Name of the Students	Topic	Academic year
1	V Divya Shiva leela Krishna veni Anjaneyulu bhargavi	Ring Theory	2016-17
2	A prasanth M Srikanth N Mukesh P Shiva Leela	Linear Algebra	2017-18
3	C Ganesh Ch Gouri D Bhargavi G Anjali B Bhagya Rani Sarana	Real Life In Mathametics	2018-2019
4	G Naresh M Bhargavi P Ramadevi D Haritha D sailaja C Sangeetha	Differencial Equations	2019-20

5	G Prudivi Raj C Sangeetha J Raju M anusha	Method of Undetermind co efficient	2020-21
6	M Anush M malleth T ramadevi Sk jareena J raju	Fourier series	2021-22

# Infrastructure and Learning:

- The department maintain separate departmental library consisting of consisting of Useful books to the students.
- The department is maintaining previous question papers and question bank.
- The department is giving notes ansupplied the reading and printed materials.
- The department explaining YouTube mathematics videos.
- The department providing M.Sc entrance bits and questions.
- We have provided printedquestion papers every exam.



# Mathematics day celebration:

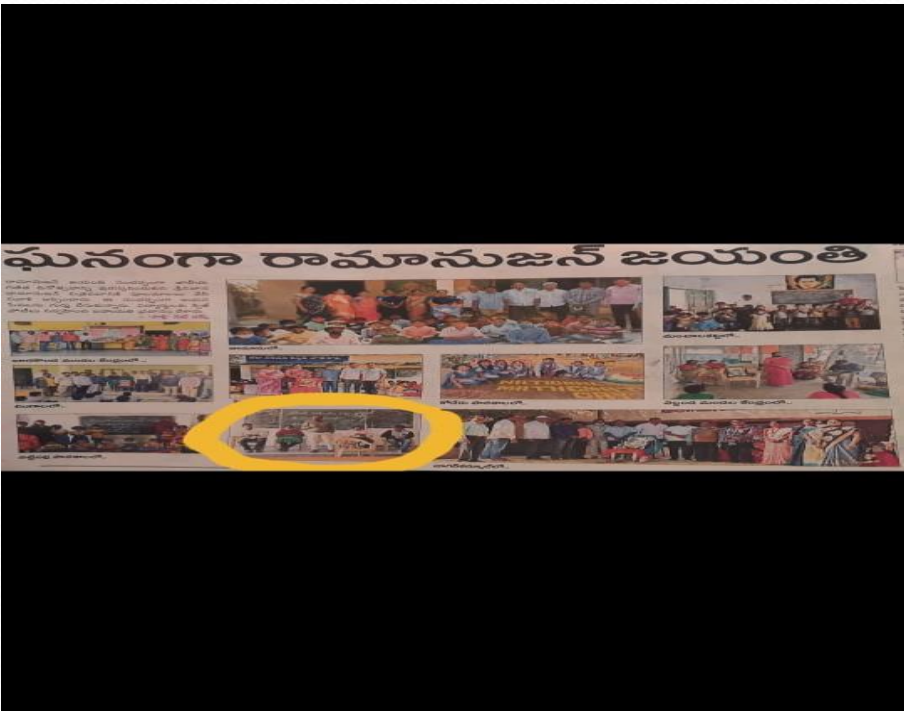
## Followed by the events:

- ❖ Invitation
- ❖ Inauguration
- ❖ Vandematharam
- ❖ a small dram
- ❖ movie presentation
- ❖ felicitation
- ❖ individual speech by students
- ❖ individual speech by lecturers
- ❖ Speech by the head of the department, principal and chief guest.
- **REFRESHMENT**
- **CULTURAL ACTIVITIES**

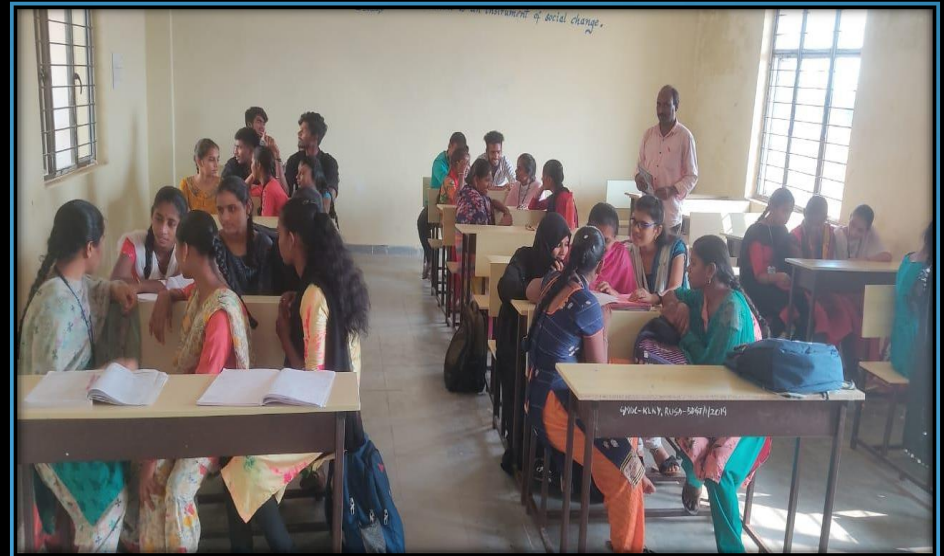


**Mathematics Day**



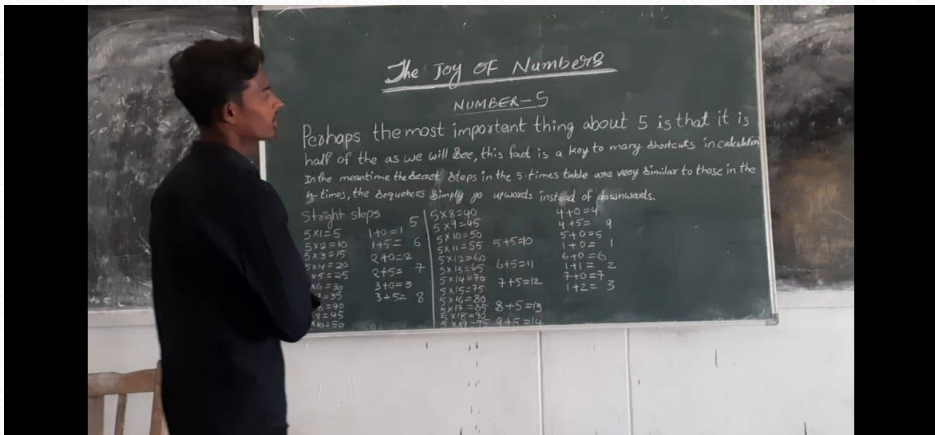




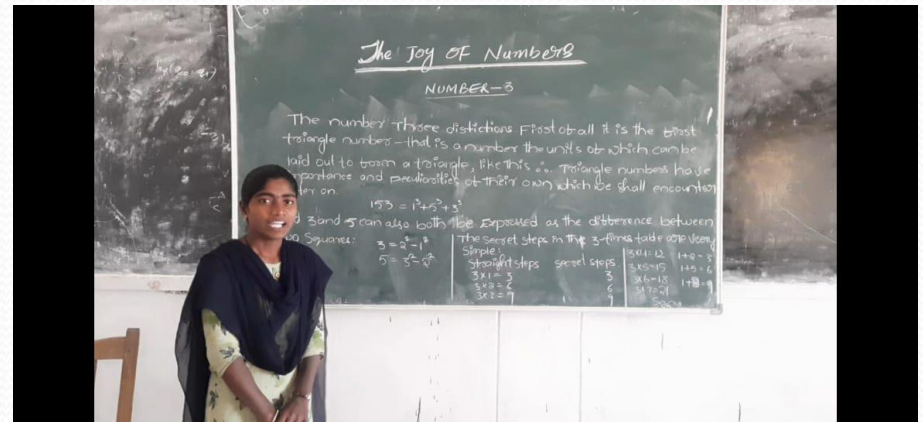




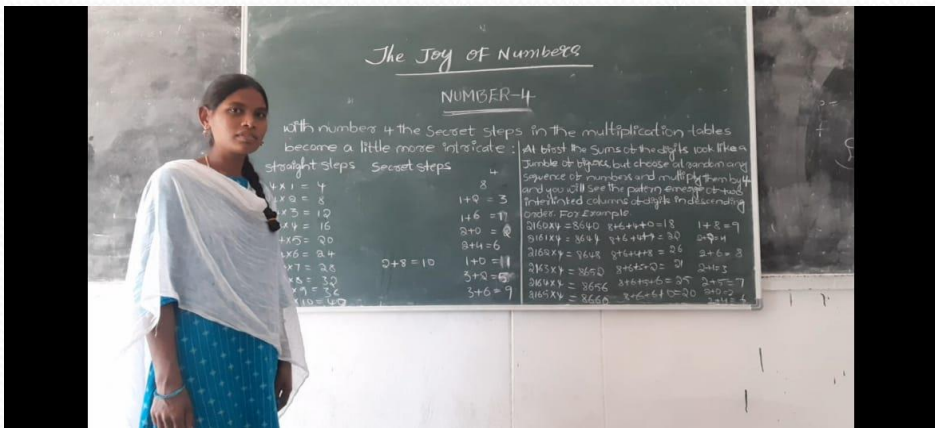
# STUDENTS SEMINAR



Seminar By Varma



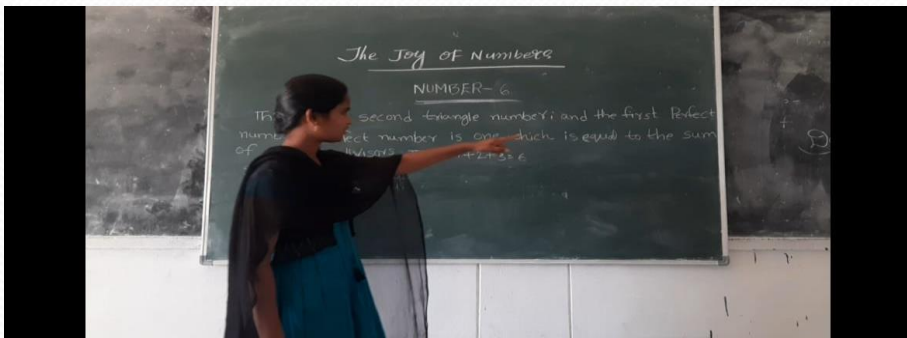
Seminar By Venkata Ramana



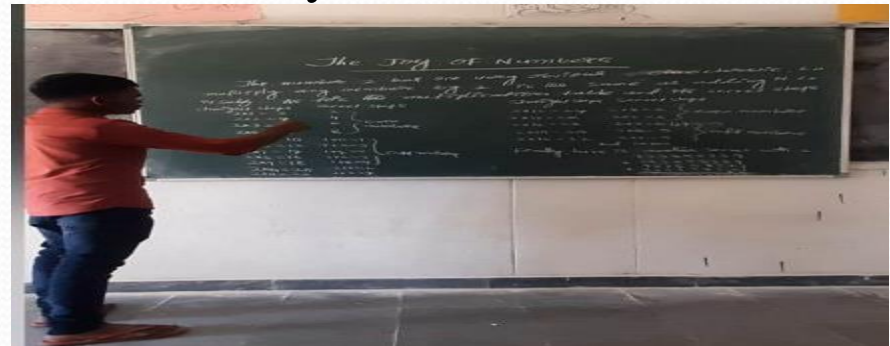
Seminar By Bhargavi



Seminar By Samreen



Seminar By Savithri



Seminar By Naveen



# EXAMS





# CAMPANING





## Student Support Activities:

- ❑ **Career Guidance & Future Employment**
- ❑ **Study Material**
- ❑ **Remedial classes**
- ❑ **PG Entrance Coaching**
- ❑ **Mentor-Mentee System**
- ❑ **Certificate Courses**
- ❑ **Celebration of Welcome, Farewell Graduation Days**

## FUTURE ACTION PLAN:

- ✚ To Enhance Departmental Library
- ✚ To Conduct Workshop on Modern Trends in Mathematics.
- ✚ MOUs with University Colleges.





THANK YOU