

# Welcome to Department of Mathematics

## About

The Department of Mathematics was established in the year 2016

- In 2016 Mathematics, Physics, Computer Science (M.P.Cs) and Mathematics, Statistics, Computer Science (M.S.Cs) combination was introduced.
- Chemistry is added in the year 2018 - 2019 with combination of Mathematics, Physics, Chemistry(M.P.C)
- Data Science is added in the year 2020-2021 with the combination of Mathematics, Statistics, Data Science (M.S.Ds)
- Chemistry is added in the year 2020-2021 with the combination of Mathematics, Chemistry, Computer Science (M.C.Cs)
- Now the strength of our Department is around 417.
- The Faculty of Mathematics are well qualified and experienced lectures in Undergraduate teaching.

## Objectives:

### ➤ Objectives of our Department are as follows:

- Departmental Programs are focused on the spectrum where brilliants are given scope and the average students are encouraged.
- Reaching out to the needy and the less privileged has always been the aspiration of the department.
- Motivation is the key for the department.
- Persistent efforts are being made for the placement of the students.
- Department is a versatile department, it not only trains the students with mathematics as an optional subject but also renders its services to other departments.

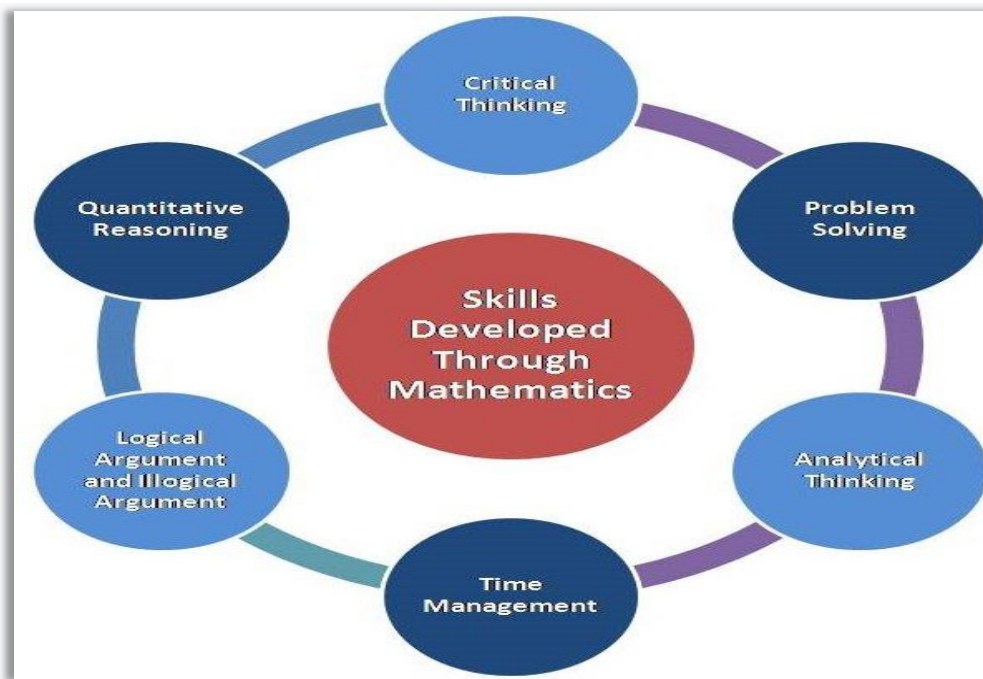
### ➤ The Department of Mathematics offers the following programs:**Under Graduate**

- B.Sc, MPCs (Mathematics, Physics, Computer Science).
- B.Sc, MSCs (Mathematics, Statistics, Computer Science).
- B.Sc, MPC (Mathematics, Physics, Chemistry).
- B.Sc, MSDs (Mathematics, Statistics, Data Science).
- B.Sc, MCCs (Mathematics, Chemistry, Computer Science).

## INTRODUCTION OF MATHEMATICS

- **Mathematics is the language of the universe** – but it can be understood by intellectual people
- **Mathematics is a tool** – by which we can understand electrochemical signals in our brain to secrets of the Space.

- **Mathematics is having full of Problems** – also having fixed solutions
- **“Mathematics can be defined as a branch of abstract science which deals with study of the Measurement, Properties and Relationships of quantities and sets using Numbers”**
- The best way to understand what mathematics is and what mathematicians work on – is to *do* mathematics.



## Vision

The department of mathematics develops calculating, computing, critical thinking, reasoning, problem solving and formulating the skills for the upcoming mathematicians.

## Mission

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## Student Profile:

Course name	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021
MPCS	34	30	90	78	52
MSCS	32	42	57	42	30
MPC			27	26	5
MPS				1	
MSDs					23
MCCs					3

## MATHEMATICS OUTCOMES (2019-20)

### Differential and Integral Calculus

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

### Differential Equations

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.

### Real Analysis

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

### Algebra

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.

### Linear Algebra

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

### Numerical Analysis

Outcome: Students realize the importance of the subject in solving some problems of algebra and calculus.

## Integral Transforms

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

## Analytical Solid Geometry

Outcome: Students understand the beautiful interplay between algebra and geometry.

## Theory of Equations

Outcome: By using the concepts learnt the students are expected to solve some of the polynomial equations.

## Logic and Sets

Outcome: After the completion of the course students appreciate its importance in the development of computer science.

## Number Theory

Outcome: Student uses the knowledge acquired solving some divisor problems.

## Vector Calculus

Outcome: Students realize the way vector calculus is used to addresses some of the problems of physics.

## Basic Mathematics

Outcome: Student realizes how the quantitative analysis will be an aid to decision-making process. Also the quantitative analysis how it will be linked with other information in making decisions.

## Mathematics for Economics and Finance

Outcome: Student were chiefly interested in learning the mathematics that had applications to economics and finance. Students gain a familiarity with economics and finance principles and are confident in applying them.

## Mathematical Modeling

Outcome: The focus is on those mathematical techniques that are applicable to models involving differential equations, and which describe rates of change. Student realizes some beautiful problems can be modeled by using differential equations. The students also learn how to use the mathematical technique in solving differential equations.

# Departmental Activities:-

## Rangoli



## Quiz





# National Science Day Celebrations



## Seminars:



## Workshop:-





## INNOVATIVE TECHNOLOGIES



## National Science day celebrations



**ప్రభుత్వ కళాశాలలో సైన్స్ ప్రదర్శన**

మహిళలకు శిక్షణ అందించే ఉద్దేశ్యంతో కళాశాల అధ్యాపకులు, నిపుణులు ప్రదర్శనలు

సాంఘిక, విజ్ఞానీయత, సాంస్కృతిక అంశాల ప్రయోగం ప్రభుత్వ మహిళా డిగ్రీ కళాశాలలో గురువారం పాఠిక శాస్త్ర విభాగం అధ్యాపకులు శాస్త్ర ప్రదర్శన నిర్వహించారు. అనంతరం సమగ్ర ఆవిష్కరణలో పాల్గొని అధ్యాపకులు, అనేక ఆసక్తికరమైన కార్యక్రమాలలో కళాశాల ప్రధాన అధికారి డి.వేదవతి, వారి శాస్త్ర అధ్యాపకులు, అధికారి కె.వి.కామలక్ష్మి పాల్గొన్నారు. ఈ సందర్భంగా శ్రీ హైదరాబాద్ నిపుణుల ఆధ్వర్యంలో పాఠిక శాస్త్రంలో ఉత్తీర్ణ అభ్యర్థులను దివ్యాత్మికంగా ఉత్సాహపరచే విధానాలపై విభాగం ప్రధాన అధికారి అధ్యక్షతన ప్రదర్శన ఏర్పడింది. ప్రదర్శన విలేజ్ వద్ద జరిగింది. ఉత్తీర్ణ అభ్యర్థులు ప్రధాన అధికారి అధ్యక్షతన ప్రదర్శన, ఉత్తీర్ణానుభవం, శిక్షణ అందించే పాఠ్యక్రమ దివ్యాత్మికంగా ప్రవహించారు.

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# SCIENCE EXHIBITION



# State level seminar





## Field visits



# Extension



## BEST PRACTICES

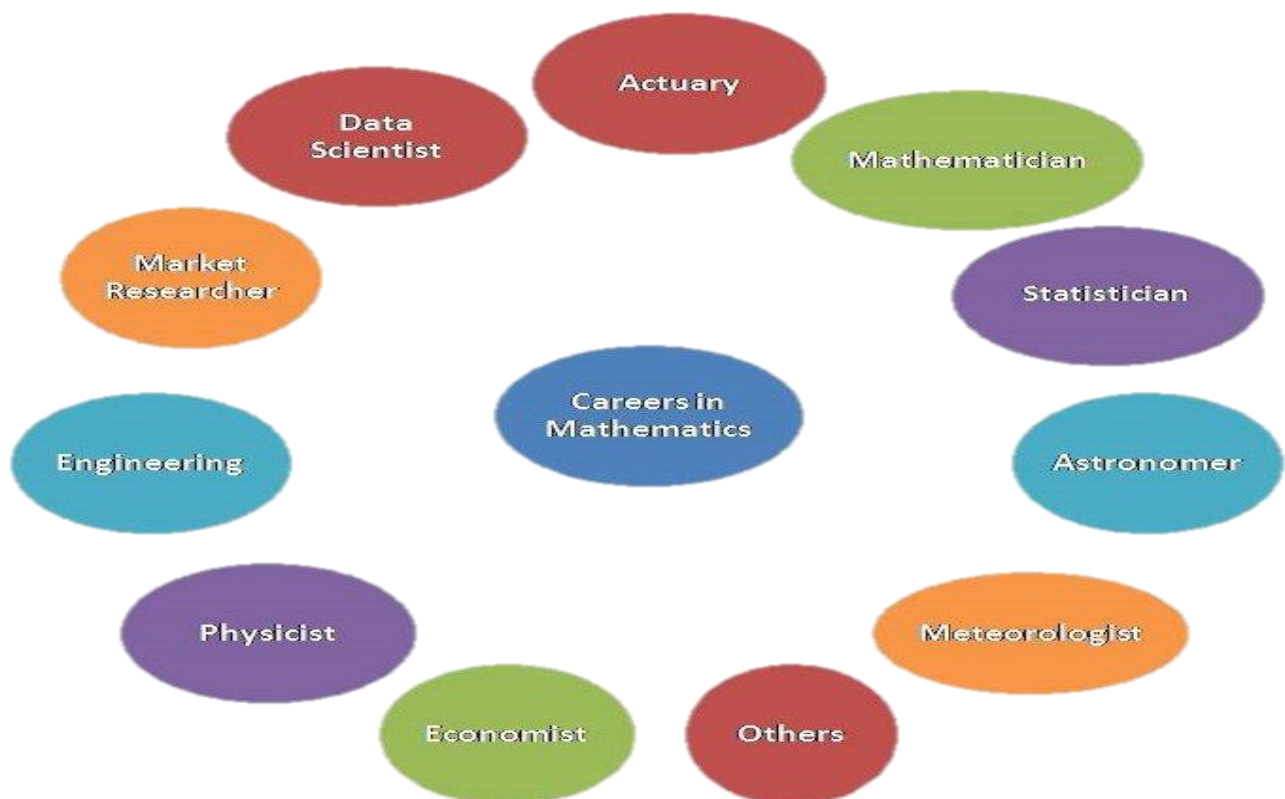
- Best practices followed in the Department
- Students are encouraged to follow the latest advancements in “Science and Technology across the world” and made to follow, collect information from various sources and exhibited and presented in seminars through charts and PPTs.
- On concept of ‘Science behind spiritualism, students come to know the importance of festivals of religions, power of healing chronic diseases by chanting divine words in scriptures etc. and their presentation in student seminars through charts and PPTs
- Concepts in the form of flash cards, Bhethala prasna ,concepts in play way method (cup and snake& ladder and rangoli games)
- Under ‘Student as Teacher’s programme students of the college done the role of teacher for the students of high school and junior college in the college compound.
- PG entrance coaching for final year students
- Field trips/Workshops/Extension Lectures/Career counselling, student seminars, quizzes, remedial coaching Classes
- Career scope after B.Sc.

## MENTOR MENTEE:-

<u>NAME</u>	<u>GROUP</u>	<u>STRENGTH</u>
❖ S.MAMATHA	III Students	140

## MENTOR MENTEE DUTIES:-

1. Attendance/ regularity of students to be monitored.
2. Student profile register.
3. Student progression register (with Internal, Assignment Marks).
4. Personal counselling sessions (confidentiality to be maintained).
5. Whatsapp group
6. Give time to time information to the students and maintain the proof of information given.
7. Guide the students to participate in various activities (Academic, Curricular, cocurricular).
8. I year students must be made aware of CBCS system (I year mentors).
9. To educate the students about the resources and student services at the college and also under the Umbrella of CCE.
10. Information regarding shortage of attendance to be sent to the parent through SMS.
11. Career Guidance, inculcate good interpersonal and communication skills along with leadership potential.





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