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#### Overview

#### **Dr.P.BABU RAO, M.Sc., M.Phil., Phd**

The Department of Mathematics has been handling Math for B.Sc. at undergraduate level from the year of establishment since 1975. In the field of mathematical education, SAS Degree College's Mathematics Department is a shining example of both academic brilliance and inventiveness. The department is renowned for producing graduates who excel in a range of fields, including pure mathematics and the applied sciences, as well as for its rigorous curriculum, dedicated faculty, and commitment to developing students' mathematical prowess. The goal of the mathematics department is to help students gain a deep understanding of mathematical concepts and procedures. Students who take a wide range of algebra, calculus, geometry, and other courses develop the analytical abilities necessary to confidently and accurately tackle difficult problems. Regardless of their level of mathematical proficiency, every student is challenged and supported in their academic path by a curriculum that is carefully designed to match their needs.

The faculty members of the mathematics department are motivated educators committed to supporting the intellectual growth of their students, in addition to being authorities in their fields. Students are encouraged to explore mathematics outside of the classroom under their guidance through research projects, competition participation, seminars, and workshops in order to deepen their understanding of the subject.

The SAS Degree College Mathematics Department acknowledges that teaching mathematics requires the use of contemporary technologies. Students can investigate how mathematical ideas are used in real-world contexts and cultivate transferable skills—which are highly valued in today's growing market—with the aid of modern equipment. With a variety of

extracurricular activities and events, the mathematics department promotes intellectual community and academic interests.

Through opportunities for joint research and guest lectures by eminent mathematicians, students can connect with like-minded people and share their passion for mathematics. All things considered, the mathematics department at SAS Degree College is proof of the institution's commitment to offering excellent training. With a solid basis in mathematical theory, practical skills, and a supportive learning environment, the department prepares students for success in both their academic and future careers and undertakings.

## Programmes Offered

Programme	Programme Name	Group/Subject
UG	BSc	Mathematics, Physics, Chemistry ( TM)
		Mathematics, Physics, Chemistry ( EM)

CBCS system is followed for all UG/PG programmes Programme wise Student Profile (Current year data)

	Name of the Group	Students enrolled	
		Male	Female
	Mathametics, Physics, Chemistry ( TM & EM)	18	14
	Grand Total	18	14

Teaching methods adopted to improve student learning

- Mentoring method
- Lecture Method
- Black board teaching
- LMS
- Power point presentations
- Class Seminars
- Group Discussions
- Quiz programmes
- Study Assignments
- Guest lecturers
- Study projects

- Remedial coaching for slow learners
- Remedial coaching for Moderate learners
- Remedial coaching for Advanced learners
- Field trips
- Science tour

#### SGK analysis of the department and Future plans Strengths

- Highly Qualified faculty ( CSIR NET , UGC-NET and State Level Eligibility Test )
- Student-Centered Teaching (SCT)
- Teacher-Centered Teaching (TCT)
- Good infrastructure and well established Laboratory.
- Driven by our mission statement of imparting knowledge to all
- Harmonious relationship among the members of the management, staff, students and parents
- Teachers firmly believe in lifelong learning
- Integration of teaching and research
- High success rates in examinations as compared to University results
- Representation by faculty members in Board of Studies contributing to curriculum design and implementation
- Wide range of extension, co-curricular and extra-curricular activities
- Student feedback analyzed and used for improvement in all processes
- Optimum utilization of resources
- Teaching aids for ICT enabled teaching
- Student-friendly services
- Gender-friendly premises
- Eco-friendly premises

#### Weaknesses

- Limitation of space
- Diverse student community with poor socio-economic background
- Paucity of time for the teachers for research work
- Most of the students are of first generation

#### Opportunities

- Exploring possibility of collaborative research with research institutions
- Exploring the starting of new Job-oriented courses
- Guiding the students for higher education entrance exams like JAM,CUCET and State University's

#### Challenges

- Keeping pace with the rapid changes in higher education
- Sustaining quality along with access
- Providing resources for marginalized students
- Generation of resources for upgradation of infrastructure

- Minor and Major Projects
- About Research and Publications

#### Future Plans

- To improve enrolment of students.
- To start multidisciplinary job oriented courses.
- To conduct a national seminar/Workshop/Symposia.
- Planning to conduct a Job Drive for computer and Non Computer based.