

PROFILE OF THE DEPARTMENT

1. Name of the Department & its year of establishment

Mathematics UG : 1981, PG : 2005

2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

UG level : B.Sc PG level : M.Sc.,

3. Interdisciplinary courses and departments involved

Interdisciplinary Elective : General Mathematics for non-mathematical students

4. Annual/ semester/choice based credit system: Semester System

5. Participation of the department in the courses offered by other departments

- Curriculum development, Instruction and Evaluation

6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors)

	Sanctioned	Filled
Associate Professors	02	02
Asst. Professors	06	06

7. Faculty profile with name, qualification, designation, specialization (D.Sc./D.Litt./ Ph.D./M.Phil., etc.)

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. students guided in the last 4 years
Dr.M.Ravindra	M.Sc. M.Phil., Ph.D.,	Associate Professor	Magneoto Hydro Dynamics	29	3
Dr.Y.Rajendra Prasad	M.Sc. M.Phil., Ph.D.,	Associate Professor	Magneoto Hydro Dynamics	29	2
Smt.T.Suvarna	M.Sc. M.Phil. (Ph.D.)	Asst. Professor	Fluid Dynamics	6	

Kum.K.Gayathri	M.Sc. B.Ed. (M.Phil.)	Asst. Professor	Fluid Dynamic s	4	
Smt.E.Mahojani	M.Sc.	Asst. Professor	Fluid Dynamic s	3	
Sri.K.Raghavendra Prasad	M.Sc. B.Ed.	Asst. Professor	Fluid Dynamic s	1 ½	
Kum.K.Sowmya	M.Sc.	Asst. Professor	Fluid Dynamic s	5 Months	
Kum.Malathi	M.Sc.	Asst. Professor	Fluid Dynamic s	3 Months	

8. Percentage of classes taken by temporary faculty – programme-wise information:

- B.Sc., - 10% by guest faculty
- M.Sc., - 20% by guest faculty

9. Programme-wise Student Teacher Ratio:

- UG : 50:1 PG : 17:1

10. Number of academic support staff (technical) and administrative staff: sanctioned and filled:

Nil

11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise:

Nil

12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received:

Nil

13. Research facility / centre with:

S.K. University recognized Research Centre.

14. Publications:

Publications : Dr.M.Ravindra 2 (National)

- A paper on Hydromantic Channel Flow through a Porous Medium with Prescribed Discharge ACTA Ciencia Indica in 2002.
- A paper on MHD Thermal Convection Flow through a Porous Medium in

a Non-Uniformly Heated Vertical Channel with Internal Heat Sources in
‘ACTA Ciencia Indica – 2002’

15. Details of patents and income generated:

Nil

16. Areas of consultancy and income generated:

Nil

17. Faculty recharging strategies:

- Participation in National and International seminars
- Attending staff refresher courses and workshops

18. Student projects:

- percentage of students who have done in-house projects including inter-departmental – 10%
- percentage of students doing projects in collaboration with industries / institutes

19. Awards / recognitions received at the national and international level:

NIL

20. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

Seminars conducted on

- Number Theory Prof.K.N.Venkata Siva Murthy, Retired, Professor of Mathematics in August 2011
- Real Analysis Prof P.R.V.Prasad Rao, Professor of Mathematics in September 2011

21. Student profile course-wise:

Name of the Course	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
B.Sc.,	357	180	177	75%	76%
M.Sc.,	SVURPGCET	17	27	88%	89%

22. Diversity of students

Name of the Course	% of students from the College	% of students from the State	% of students from other States	% of students from other countries
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Name of the Course	% of students from the College	% of students from the State	% of students from other States	% of students from other countries
UG & PG	10%	90%	--	--

23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?

- Three PG students cleared SLET
- Several of our students have been selected for various positions in Nationalized Banks, Railways, LIC, Educational Institutions etc.

24. Student progression

Student progression	Percentage against enrolled
UG to PG	75%
PG to M.Phil.	4%
Ph.D. to Post-Doctoral	2%
Employed <ul style="list-style-type: none"> • Campus selection • Other than campus recruitment 	15%

25. Diversity of staff

Percentage of faculty who are graduates	
of the same parent university	75%
from other universities within the State	25%

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.

Nil

27. Present details about infrastructural facilities

- Library** - Departmental Library with nearly 100 books
- Internet facilities for staff and students** - Internet facility for Staff is available
- Total number of class rooms** – UG – 12 ; PG – 02
- Class rooms with ICT facility** --
- Students' laboratories** --
- Research laboratories** - Research Centre

28. Number of students of the department getting financial assistance from College.

90% of the students covered by govt. welfare scholarships/endowments/SBF

29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.

Yes. Based on the feedback from our Alumni, Principals of Degree and Engineering Colleges, Professors especially from the department of Mathematics, S.K. University and Newspaper advertisements for various positions, we found that M.Sc. Mathematics has much potential for teaching positions and research.

30. Does the department obtain feedback from

a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?

Yes. The faculty found that the existing curriculum is best suited. Based on the feedback, class seminars, group discussions, quizzes have been arranged for the students.

b. Students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?

Yes. The junior faculty have been advised to teach as per the learning levels of the students. The students satisfied with the content of the curriculum the learning methods of class seminars, group discussions, quizzes have been arranged for the students.

c. Alumni and employers on the programmes and what is the response of the department to the same?

A Research Centre was started in the department as per the feedback from alumni and the employers of the Degree and Engineering Colleges in the area.

31. List the distinguished alumni of the department (maximum 10)

- Dr.V.Sugunamma, Associate Professor, Sri Venkateswara University, Tirupati
- Dr.K.Sulochana, Asst.Professor, Intel Engineering College, Anantapur
- Dr.K.Madhusudhan Reddy, Asst.Professor, Sri Venkateswara Engineering College, Anantapur
- Sri S.V.Ranga Reddy, Development Officer, LIC, Hindupur
- Sri A.B.Ramprasad, Asst. General Manger, Co-operative Central Bank, Anantapur
- Dr.M.Ranga Reddy, Principal, Sreenivasa Ramanujam Institute of Technology, Anantapur
- Dr.Sreenivas, Controller of Examinations, Gokaraju Rangaraju Engineering College, Hyderabad
- Smt Padma, Advocate, Anantapur
- Sri K.L.Hari Prasad, Customer Support Engineer, Digitech peripherals, Hyderabad
- Sri P.Harinath, Analysis Support Engineer, Network solutions private

limited an IBM company, Bangalore

32. Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts.

Special Lectures were arranged by inviting the following Professors:

- Dr.Y.Purushotham Reddy, Senior Lecturer in Mathematics, Govt. College, Anantapur
- Dr.A.Mallikajruna Reddy, Professor of Mathematics, S.K. University, Anantapur
- Dr.K.Shobhalatha, Associate Professor, S.K. University, Anantapur

33. List the teaching methods adopted by the faculty for different programmes.

Interactive and participative method, questioning and eliciting answers

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?

We regularly review the learning outcome and conduct remedial classes for slow learners for better results.

35. Highlight the participation of students and faculty in extension activities.

Students participate in the activities of NSS, NCC, ECO Club and Red Ribbon Club

- Mr.K.Krishna, II B.Sc. (MECs), NSS Volunteer participated in two special camps at Siddarampuram village in November 2010 and January 2011. He also participated in educational and adventure camps at New Delhi and Kulumanali, Himachala Pradesh from 14th to 23rd November 2011.
- L.Suresh Kumar, II B.Sc. (MECs) also participated in the two special camps at Siddarampuram. He also participated in Adventure Camp in Kulumanali in July 2012.
- Many students have been voluntarily donating blood to the poor patients at Govt. General Hospital, Anantapur
- Many of our students won prizes in various cultural activities at University and State level.
- Our students are also active members of ECO and Red Ribbon Clubs keeping the campus clean, conducting awareness programmes for students and villagers on HIV/AIDS, the importance of Blood Donation, seasonal diseases etc.

36. Give details of “beyond syllabus scholarly activities” of the department.

Conducted Seminars on

- “Mathematics Present, Past and Future”
- “The Importance of Mathematics in Modern World”
- Conducted Class Seminars and awarded prizes to the meritorious students.

37. State whether the programme/ department is accredited/ graded by other agencies. Give details.

Nil

38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department

Strengths

- Highly qualified and experienced faculty
- Research Centre
- Departmental Library
- Good infrastructure

Weaknesses

- Absence of replacements of grant-in-aid teachers on their retirement
- Overcrowded class rooms
- Lack of suitable teaching technology

Opportunities

- Junior faculty can work for research degrees in the Research Centre

Challenges

- Retention of faculty
- Facing large classes
- Teaching in English medium for the students with Telugu medium and rural background
- Completion of syllabus as per the time schedule of the examination due to loss of working days due to bandhs, strikes etc.

39. Future plans of the department.

- The Department is planning a Two day workshop on “Fluid Dynamics “
- Doing quality Research by strengthening research centre.
- To strengthen the departmental library with periodicals and research journals
- To take the students on education tours to the institutions like Indian Institute of Science, Bangalore.