

PROFILE OF THE DEPARTMENT

1. **Name of the Department** : **COMPUTER SCIENCE**
2. **Year of establishment** : 1993-1994
3. **Names of Programmes / Courses offered** :

Name of the course (UG)	Year of starting
MPCs	1993-1994
MECs	2003-2004
MSCs	2003-2004
B.Com (Computer Applications)	1996-1997
BBM	2010-2011

4. **Interdisciplinary courses and departments involved** :
 - Interdisciplinary Elective – Functional ICT
5. **Annual/ semester/choice based credit system** : Semester
6. **Participation of the department in the courses offered by other departments:**
 - Curriculum development, Instruction and Evaluation
7. **Number of teaching posts sanctioned and filled : (Professors/Associate Professors/Asst. Professors)**

	Sanctioned	Filled
Asst. Professors	6	6

8. **Faculty profile with name, qualification, designation, specialisation (D.Sc./D.Litt./ Ph.D./M.Phil., etc.)**

Name	Qualification	Designation	Specialization	No. of Years of Experience
Sri. M. Murali Mohan Reddy	M.Sc.,PGDCSA, M.Phil., (Ph.D)	HOD & Asst. Prof.	Digital Electronics, Adhoc Networks& Data	19

Name	Qualification	Designation	Specialization	No. of Years of Experience
			Warehousing	
Smt.K.Devakimani	M.Sc., PGDCA	Asst. Professor	Data Structures	12
Sri.S.Gururaja Rao	M.Sc., PGDCA, M.C.A. M.Phil	Asst. Professor	Data Mining	12
Sri. M. Vishnuvardhan Reddy	M.C.A.	Asst. Professor	.NET programming	03
Smt. A. Apsara Banu	M.C.A.	Asst. Professor	Networks	03
Sri. P. Jagadish Gupta	M.C.A.	Asst. Professor	Internet Technologies	02

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

In all programmes near 10% syllabus is covered by eminent guest faculty from the industry to give real time exposure to the students on practices and technology used in the industry.

10. Programme-wise Student Teacher Ratio

Name of the Programme	Student – Teacher Ratio
MECs	55:1
MPCs	60:1
MSCs	60:1
B.Com (CA)	55:1
BBM	55:1

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

	Sanctioned	Filled
Academic support staff (Technical)	2	2
Administrative staff	2	2

12. 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

13. Departmental projects funded by DST-FIST; DBT, etc.; total grants received NIL

14. Research facility / centre with NIL

15. Publications:

- Number of papers published in peer reviewed journals (national / international) - 3

16. Details of patents and income generated NIL

17. Areas of consultancy and income generated NIL

18. Faculty recharging strategies

- Workshops and Seminars
- Faculty enrichment programs
- Consultancy Services and Real time projects

19. Student projects

- Percentage of students who have done in-house projects including inter-departmental – 20%
- Percentage of students doing projects in collaboration with industries / institutes – 5%

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

NIL

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

- 16 days Workshop on functional ICT to the 30 staff members (both teaching and non-teaching) of Sri Sai Baba National Degree College.

22. Student profile course-wise:

Name of the Course	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
MPCs	102	41	37	80	86
MECs	175	40	33	85	95
MScs	112	28	37	95	96
B.Com (CA)	332	37	37	80	85
BBM	65	41	14	83	87

23. 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
B.Sc.,	10%	85%	5%	-
B.Com (CA)	20%	75%	5%	-

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

- WASE (Wipro- BITS Pilani Partnership) – 18
- TCS Ignite - 19
- GATE – 11

25. Student progression

Student progression	Percentage against enrolled
UG to PG	70%
Employed	
• Campus selection	20%
• Other than campus recruitment	5%
Entrepreneurs	5%

26. Diversity of staff

Percentage of faculty who are graduates	
of the same parent university	80%
from other universities within the State	10%
from other universities from other States	10%

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

28. Present details about infrastructural facilities

- a) Library : **Reference library – Titles :: 200 Volumes :: 200**
- b) Internet facilities for staff and students:
BSNL 10mbps NME-ICT project internet connection
- c) Total number of class rooms : **3**
- d) Class rooms with ICT facility : **2**
- e) Students' laboratories : **3**
- f) Research laboratories : **NIL**

29. Number of students of the department getting financial assistance from College:

- 90% of the students covered by govt. welfare scholarships.

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

- All the programs in the Department started after obtaining through feedback from all stakeholders and need assessment exercise based on demand ratio.

31. Does the department obtain feedback form

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

All the faculty members of the department as the members of the Board of Studies participate in the discussions about curriculum and teaching-learning-evaluation before passing resolutions and forward them to the academic council for approval.

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

Department conducts the teacher evaluation by students with an anonymous feed-back form in regular intervals apart from the teacher-student in-formal interactions to obtain feedback. The students are allowed to express their independent views on teachers' performance and curriculum, the faculty of the department analyses the feedback meticulously for any initiatives necessary in the matter.

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

The department has various channels viz. comments on college facebook page, e-mails and chats to collect and document responses on curriculum from the alumni. The suggestions and views regarding the improvement in the curriculum presented to the members of Academic Council after through discussions in the BOS for its approval with or without modifications. As a result of this 360° feedback, our curriculum reflects the recent modern trends and enables our learners to meet the emerging needs and face the global challenges.

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

- D. Madhusudhan Babu (Techdemocracy LA, USA)
- P. Raghavendra Prasad (National Blood Service, London, UK)
- D. Raghavendra (Project Lead, Dallas, Texas, USA)
- N.Anjan Reddy (Software Engineer, Miami, Florida, USA)
- C.Gayathri (System Analyst, Australia)
- M.T.Venkata Subbaiah (Baltimore, Maryland, USA)
- P. Arunkumar Reddy (Project Lead, USA)
- K. Krishnaveni (Project Lead, USA)
- C.V.Shyam Kumar (Goldman Sachs, Bangalore)
- S. Seshi Kiran Gupta (Wipro Technologies, Bangalore)
- K. Ramana Kumar (CRL., Pune)
- P. Yesurathnam Babu (Relience Communications, Hyderabad)
- R. Ramnath (MahindraSatyam, Hyderabad)
- G. Naveen Kumar (Assistant Manager, Vodafone Essar Ltd., Pune)
- Khajapeer Mulla (Tata Consultancy Service, Hyderabad)
- C.Narasimha Reddy (Sr. Associate @ Cognizant, Bangalore)
- M.Raghavendra (NTT Data Americas, Hyderabad)
- K.Saran Kumar (Sr. Test Analyst, Collabera, Bangalore)
- S.Sravan Kumar (IT Analyst Tata Consultancy Services, Hyd.)
- R.Sreenath (Aricent Technologies, Bangalore)
- Nagarjuna Gowd (TCS, Bangalore)
- T.Lokeswar Reddy (Oracle, Hyderabad)
- B.M.Nanda Gopal (TCS, Hyderabad)
- Anantha Hari Babu (Associate, India Theatrical Distribution ,Hyd.)

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

- Student workshop on e-content development by external experts
- Special lecture on Cloud Computing by G. Naveen Kumar, Assistant Manager, Vodafone Essar Ltd.,
- Special lecture on JQuery – New kind of java script library by B.M.Nanda Gopal (TCS)
- Student workshop on Software Project Management Cycle
- Student workshop on website design and development

- Student workshop on Using DHTML and CSS in website design and development
- Workshop on Search engines and browsers – Google Chrome VS Microsoft IE
- Student seminar on Mobile Apps - design and development

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

- Class room teaching through PPTs, Slides, Flow charts and audio visual teaching aids (for examples and experiments)
- Presentation by a panel of teachers or students
- Webcasts and Podcasts
- Debate on current issues by students
- Adobe E-learning suite
- Textbook assignments, Reading assignments in journals and supplementary books
- Gaming and Simulation

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

- Slip tests, seminars and interactive sessions to monitor learning outcomes
- Remedial classes for slow learners

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

Students and faculty of the department are actively participating in various extension activities of two social arms of the college – SAGE and WEC viz. participating in health camp, Blood donation camp, clean and green programme, campus beautification programme, traffic control assistance conducted by college and other local Non-Governmental Organisations.

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

- Workshops and seminars with experts from industry.
- Interactive sessions with alumni who are settled as Project Leads in IT Industry.
- Presentations on emerging trends in the industry by panel of experts.
- Peer awareness programs on functional ICT

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

No

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

SWOC Analysis is a strategic planning methodology used in the department

to evaluate the Strengths, Weaknesses, Opportunities, and Challenges.

Strengths

- Focus on soft skills and Industry-relevant curriculum
- **Remedial** coaching for slow learners and participants in extra-curricular activities.
- **Beyond** syllabus inputs to advanced learners.
- State-of-the-art laboratories, ICT centre and E-classrooms
- Well stocked departmental library and other learning facilities.
- Student-centered teaching-learning practices.
- Highly motivated, committed and dedicated experienced teaching faculty and technical staff.
- **Eminent** visiting faculty for beyond syllabus coverage for better vertical mobility.
- **Evaluation** of teachers by the students and alumni.

Weaknesses

- **Gap** between target and practice in adopting multidimensional innovative teaching methods.
- Moderate comprehensive skills of students
- **Deteriorating** book reading habit

Opportunities

- Providing necessary parallel inputs and orientation for career planning.
- Counselling by professional career counsellors.
- **Promoting** interactive teaching-learning practices.
- **Moving** towards case based teaching-learning.
- **Effective** addressing the needs of differential requirements.
- Use of web technology for student and teacher progression

Challenges

- **Mitigating** external interferences to adhere to academic schedule.
- **Difficult** to integrate the teaching-learning practices with fast changing needs of industry.
- **Mitigating** attention-span deficiency of learners

39. Future plans of the department.

- Stating of PG courses in Industry-Academia Collaboration
- Establishment of a Research Centre
- Preparing proposals for real-time Open source E-governance projects as consultancy service
- Work for UGC major and minor research projects
- Introduction of self-employable add-on courses
- Deploying a large-scale campus-wide Wi-Fi (WLAN) for mobile computing devices.