

Sarvajanik Education Society
Sir P. T. Sarvajanik College of Science, Surat
(Autonomous)

Academic Audit Report for the Academic Year 2025-26

Department of Chemistry

Observation	• Good teaching-learning environment with committed faculty members and effective implementation of the curriculum. • Faculty members actively participate in seminars, conferences, workshops, and faculty development programmes. • Well-established departmental best practices that effectively support teaching, learning, research, and student development. • Excellent mentor-mentee system with regular interaction, counselling, and academic guidance for students. • A robust mechanism for collecting and analysing activity-wise student feedback, with evidence of continuous quality improvement. • Good initiative taken by the department for laboratory safety training among students. • Student centric pedagogical activity by flipped classroom.
Recommendation	• Increase the number of research publications in high-quality Scopus-indexed, high-citation journals. • Show the average h-index of the departmental faculty members. • Encourage faculty members to secure externally funded research projects and consultancy assignments. • Improve the Ph.D. student-to-faculty ratio by enrolling more doctoral scholars and expanding research supervision. • Encourage filing of patents, technology transfer, and innovation-based research outcomes.

Department of Physics

Observation	• Faculty members actively engage students through seminars, workshops, laboratory sessions, and skill-development programmes. • Laboratory facilities and academic resources are adequate to support the curriculum. • Student centric pedagogical activity by flipped classroom • Community engagement with the school students
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	• Sky gazing activity • Grants for students from SAC – ISRO • Grant received by faculty member from KCG, GoG.
Recommendation	• Include student photographs with proper captions as evidence in reports of all departmental activities for better documentation and accreditation purposes. • Organise and document Community Engagement activities, such as science outreach programmes, school visits, scientific awareness campaigns, rural technology demonstrations, or environmental awareness initiatives. • Encourage interdisciplinary projects integrating Physics with emerging technologies, such as: ▪ Artificial Intelligence and Physics (AI + Physics) ▪ Artificial Intelligence and Machine Learning (AI/ML) for data analysis, simulations, image processing, or predictive modelling.

Department of Mathematics

Observation	• The department demonstrates good academic practices and effective curriculum delivery. • Faculty members actively support students through lectures, tutorials, and academic guidance. Lecture by ex-student (successfully qualifying IIT-JAM exam) to motivate students is appreciable. • Student participation in academic activities is satisfactory. • Experiential learning opportunity for students sponsored by NGO. • Analysis of Question paper and result according to Bloom Taxonomy. • Collaborative activity with Physics Department.
Recommendation	• Promote interdisciplinary collaborations with other departments by organising lectures/workshops on applications of Mathematics, such as: ▪ Mathematics in Chemistry (modelling, quantum chemistry, reaction kinetics, etc.) ▪ Statistical tools for Botany and Zoology research. • Conduct hands-on sessions on statistical tests commonly used in life sciences, such as the t-test, Q-test, F-test etc. • Introduce certificate courses beyond the curriculum in areas such as Data Analysis, Computational Mathematics,

	Mathematical Modelling, Python for Mathematics, or Applied Statistics.
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Department of Botany

Observation	- The department conducts several academic and extension activities throughout the year. - Faculty members are actively involved in student-centric programmes and experiential learning. - Good efforts have been made in organising co-curricular and outreach activities. - Botany Fest was conducted - Grant through SSIP for preparation of Herbal Shampoo.
Recommendation	- Provide appropriate headings for each activity according to NAAC criteria/attributes (e.g., Experiential Learning, Community Engagement, Extension Activities, etc.). - Presentation of all extra/co-curricular activities should be brief and to the point. - Improve the systematic documentation of departmental achievements and activity reports. - Highlight measurable outcomes and student learning gained from each activity.

Department of Zoology

Observation	- The department has conducted a variety of academic and practical activities with active student participation. - Experiential learning initiatives are evident and contribute positively to student learning. - Internship of student as an outcome of Nobel Prize Lecture series funded by Alumni. - Students' centric activities in terms of Lion census, Tiger census and bird census through forest department.
Recommendation	- Avoid repetition of slides to improve the quality and flow of the presentation. - Present photographs of a single activity on one slide with appropriate captions for better visual documentation. - Include the Forensic Laboratory activity under Experiential Learning as it is an excellent example of hands-on learning. - Ensure all slide titles are centre-aligned for consistency and professional presentation. - Revise the student progression table headings to clearly distinguish categories such as:

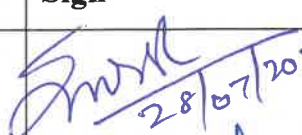
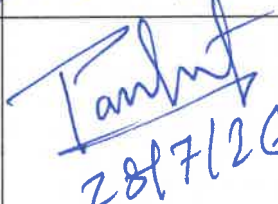
	▪ Higher Education ▪ Placement ▪ Competitive Examinations (NET/GSET/JAM/other national-level examinations) /Other Career Progression
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Department of English

Observation	• The department conducts academic activities that contribute to language development and student engagement through different activities. • Faculty members actively encourage participation in curricular and co-curricular programmes.
Recommendation	• Carry out a comprehensive analysis of question papers and examination results to identify learning gaps and prepare an action plan for the following academic year. • Use the findings of the result analysis to improve curriculum delivery and student performance. • Organise at least one faculty communication skills programme focusing on presentation skills, public speaking, classroom communication, and professional confidence.

Overall Recommendation	• Introduce Skill Enhancement Courses (SEC) and Value Added Courses (VAC) beyond the prescribed curriculum to enhance students' employability and multidisciplinary competencies. • Encourage students to undertake internships as an additional learning opportunity beyond the curriculum to gain practical exposure and industry experience. • Organise regular soft skills development programmes, including communication skills, leadership, teamwork, problem-solving, interview skills, and personality development. • Strengthen the Examination Cell by obtaining structured student feedback after question papers are shared/discussed, enabling continuous improvement in assessment practices. • Increase the number of experiential learning activities outside the curriculum, such as industrial visits, field-based projects, hands-on workshops, community engagement programmes, and interdisciplinary learning experiences. • Encourage faculty members to actively participate in national and international conferences, with emphasis on
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	delivering oral presentations to enhance academic visibility and professional networking. Clearly document the outcomes and impact of the Nobel Prize Lecture Series, knowledge gained, participant feedback, and any follow-up academic or research activities.
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Sr. No.	Name	Designation in the Committee	Sign
1	Prof. K. G. Suresh Professor, Department of Physics, IIT, Bombay	Chairperson	 28/07/2026
2	Dr. Harichandra Parbat Professor and Head, Department of Chemistry, Wilson College (Autonomous), Mumbai	Member	 28/7/26

Date: 28-07-2026

Place: SURAT