Centre for Interdisciplinary Studies in Science and Technology (CISST)

SARDAR Patel UNIVERSITY
VALLABH VIDYANAGAR
CISST – A Brief Profile

Sardar Patel University, a public University in the state of Gujarat, named after the Iron Man of India, Sardar Vallabhbhai Patel, has a long standing tradition of commitment to teaching and research in Higher Education. Keeping in mind an integrated approach to holistic development and realizing the need of a multidisciplinary approach in Teaching and Research, a Centre for Interdisciplinary Studies in Science and Technology (CISST) has been recently established. CISST has got the academic and research wings. The research wing is sponsored by Department of Science and Technology (DST), New Delhi under PURSE (Promotion of University Research and Scientific Excellence) program.

Aims & Objectives of CISST

- CISST aims to be a hub for interface of much desired dimension of multidisciplinary approach to teaching and research towards excellence
- To follow an integrated approach that leads to holistic development and multidisciplinary skills for satisfying the emerging needs of the society
- To meet the contemporary demands of interdisciplinary approach by interweaving different time honored disciplines of study and research to generate knowledge required for using emerging new fusion technologies
- To act as nodal centre for utilizing the existing brain pool on the campus for developing a core group and themes of research in interdisciplinary areas
- To facilitate the amalgamation of different topics either within a discipline or across the disciplines
VISION

Establishment of a knowledge hub in the Western India for development and promotion of entrepreneurship based on interdisciplinary skills of Science and Technology to cater the contemporary societal needs in the globalization era of cut throat competition.

MISSION

Distinct features of CISST

- Conducts / Organizes Interdisciplinary Lecture Series
- Provides Financial support for Interdisciplinary Research Projects
- Provides Central Instrumentation Facility (CIF)
- Provides Central Computational and Network Facility (CCNF)
- Organizes specialized Workshops and Hands-on Experience Sessions
- Participation and involvement of all the basic Science Departments in the Interdisciplinary Science Research
- The strength of CISST is the strength of the Science Departments and the policies of the University
- University is recognized by UGC as a Centre of Potential for Excellence in Polymers
  - Two of Science Departments of University are recognized as UGC Centers for Advanced Studies;
  - More than Ten Departments have been inducted as UGC-SAP departments
  - More than eight departments are covered under DST – FIST program

The Science Departments participating in and contributing to CISST are:

Department of Biosciences, Department of Chemistry, Department of Computer Science, Department of Electronics, Department of Home Science, Department of Materials Science, Department of Mathematics, Department of Physics and Department of Statistics.

Infrastructure

Multipurpose seminar hall with ICT Facilities, Networking and Computational Facility, Central Instrumentation Facility (LC-MS, Rheometer, Inverted Fluorescence Microscope, Milli-Q water system and Spectrofluorimeter etc) and many more are under procurement.
Human Resource (Upon the completion of recruitment process)

Research Personnel
Research Scientists 2
Research Associates 6
JRF and SRF 2
Research Assistants 13
Retired Scientists 3

Faculty Members
Assistant Professors 2

New Academic Programs
To bring in desired flexibility in teaching programme so essential for interdisciplinary approach, the University has implemented, at UG and PG levels, the Semester System as well as Choice Based Credit System (CBCS). To begin with the academic activities of CISST, University has decided to start following academic programmes (Four Semesters) leading to Master’s Degree in Applied Science with following specializations:

- Biomedical Science and Technology
- Earth System Science
- Defense Science and Technology

Eligibility
Candidates having a Bachelors of Science in Basic Science, Applied Science, Technology, Medical Science, Agricultural Science and other related areas are eligible to apply for this Course.

Future Plan
The CISST intends to get evolved into a School of Interdisciplinary Studies in Science, Technology and Social Sciences to encompass intense activity in Teaching and Research through a network model of collaborative linkages at national and international levels.
Collaborating Departments

DEPARTMENT OF BIOSCIENCES
UGC-SAP (DRS), UGC-SAP II (DSA), UGC-COSIST and DST-FIST programs

DEPARTMENT OF CHEMISTRY
UGC – Center for Advanced Studies and DST –FIST (Level II) sponsored

DEPARTMENT OF MATHEMATICS
UGC-SAP-DRS Programme and NBHM Regional Library Program of DAE

DEPARTMENT OF PHYSICS
UGC-SAP department

DEPARTMENT OF STATISTICS
SAP-DRS Level- I and DST FIST

DEPARTMENT OF HOME SCIENCE
Gujarat Government Innovative Program and UGC- Innovative Program, UGC- SAP

DEPARTMENT OF MATERIALS SCIENCE
UGC Centre for Advanced Studies (Phase-II)
GUJCOST Center of Excellence in Nanomaterials and DST -FIST level II

DEPARTMENT OF ELECTRONICS

DEPARTMENT OF PHARMACEUTICAL SCIENCE

DEPARTMENT OF COMPUTER SCIENCE
UGC Innovative Program

The Nodal Officer
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