



# SARDAR PATEL UNIVERSITY

VALLABH VIDYANAGAR – 388 120  
GUJARAT



## THE RE-ACCREDITATION REPORT

### 1. EXECUTIVE SUMMARY

MAY 2016

# EXECUTIVE SUMMARY



## 1. Executive Summary

Sardar Patel University, established as a rural university in 1955 by its founders, Shri Bhaikaka and Shri Bhikhabhai. It is today what it is, thanks to the visionary leadership it has been blessed in all these years. The university has seen a lot of change in recent years. Sardar Patel University has always remained steadfast in its resolve, following sagacious words of those like Gaudino (1965) and Barnes (1986), to keep embracing change without losing its vision, mission and goals. It has been designing and implementing academic programmes year after year; following sound policies with regard to admissions, teaching-learning process, updating of syllabi by keeping a watchful eye on the needs of the job market to give its products a competitive edge in employment; and awarding and conferring degrees, besides innovating on its practices all the time, effective continuous evaluation process, planning and conducting research, estimating, generating and allocating fiscal resources, granting of affiliation and recognition to the institutions seeking association with it, liaising with government/semi-government and other social and philanthropic organizations.

The university was started with a noble and challenging cause of rejuvenating rural India through pursuit of Higher Education and Learning. The university is celebrating its glorious existence of 60 years and in fact, emerged as a model for rural development. It is worth to record that the university started with land donation and also financial assistance from the sons of soil, the modest farmers. Befittingly, the university fulfilled its mission and contributed to the development of the area and empowering the rural population with attributes of higher learning and research. Today, the university research especially in the areas of basic sciences is rated high at national and international levels.

Sardar Patel University is continuously striving to update and modernize its academic and research activities in tune with the local as well as global demands. It is boasted with a rich and well acclaimed alumni spread across the globe.

### 1. CURRICULAR ASPECTS

Sardar Patel University is an affiliating higher education institution offering multidisciplinary postgraduate courses in its constituent departments under various faculties covering from science, arts, home science, business studies, business management, library and information sciences and also technical subjects like pharmacy, electronics and applied courses such as Materials Science, Nanoscience and Technology, Biotechnology and Industrial Biotechnology etc. with a curriculum designed and updated keeping the modern developments and demands of the industry and society. The university has taken a bold step to start interdisciplinary postgraduate programmes in the emerging



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areas of Biomedical Science, Defence Science, Earth Science and also innovative subjects of Bioinformatics, Quality and Productivity Management to produce especially skilled human resource and equip them with necessary knowledge attributes to take up the challenges of modern industry. University is also one of the few in the country to offer specially designed courses such as Android Technology, Advanced Java Programming, Financial Mathematics, Environmental problems in India, Feminism and women's participation in Indian politics, electoral politics, art of film appreciation and personalized nutrition.

The ongoing inter and multidisciplinary courses in Industrial Biotechnology, Food Biotechnology, Nutrigenomics, Indian Political Economy and Political Sociology are fine tuned. All the PG programs are run in fully CBCS mode with core and elective options and also flexibility for credit transfer. The university also has introduced BEd and MEd in special education for mentally retarded, again a novel initiative to address the concerns of less blessed strata of society. In order to improve the employability of students, several value-added courses such as computer applications in Home Science, Community nutrition, communication technology, entrepreneurship, life enrichment, consumer protection and behavior are also added without dilution of courses needed to develop core competence.

The university regularly takes the feedback from stakeholders and analyse it to enrich the curriculum, modification of syllabus periodically and also to introduce specialized elective or value-added courses.

Some of the novel initiatives during the assessment period for enhancing quality of PG Degrees are summarized below:

- Making the students abreast of updates in their respective disciplines
- According top priority to industry-academia interaction for curriculum design/development and research
- Orientation Programmes to the students at the beginning of Academic year
- Deputation of teachers to Orientation and Refresher Programmes to keep themselves updated regarding their subject areas
- Encouraging inter-disciplinary approach both in curricular design and research programmes
- Introducing value-added courses
- Periodical revision of the existing syllabi
- Regular conduct of Faculty meets in the respective disciplines to make the curriculum compatible to meet contemporary societal needs
- Organizing guest lectures and training programs by top executives and Industrialists



- Involvement of faculty and scientists from PRL, Ahmedabad, SAC, Ahmedabad, AIIMS, New Delhi, ARDE, Pune, to design the new inter-disciplinary courses in the areas of Earth Science, Biomedical Science and Defence Science
- Periodical feedback from the Stakeholders of the University to provide vital inputs to the University to initiate quality sustenance and quality enhancement measures
- Strengthening of student support services in general and placement services in particular to improve employability of the students
- Offering programmes on Values & Moral ethics and NCC, NSS & Sports as value added courses to imbibe moral values and mould the students as responsible citizens

## 2. TEACHING-LEARNING EVALUATION

The university has a well-managed and transparent admission procedure. Admission to various courses offered in constituent departments is kept open for all and is strictly based on the merit of the marks obtained in the qualifying examination, and follows an inclusive and equal opportunity approach guided by the rules and regulations on reservations to different categories as stipulated by Government of Gujarat from time to time. The admission begins well in advance by issuing a notification in the leading news papers as well as by placing it on the university website. The university prospectus, a self-contained and guided document listing intake capacity in each of the courses, fee-structure, minimum eligibility and also percentage of intake seats for different categories namely, SPU, OUG (Other Universities in Gujarat), OTG (universities Other Than Gujarat), SC, ST, OBC, PwD and Minority, etc. The prospective candidate fill-in the admission form online and submit a printed hard copy. After due verification, the merit list is prepared category-wise and kept on the university website. The admission committee at departmental level allots the seats by personal counselling and as per merit. The continuous and persistent policy of State Government and university resulted an increase of number of girl students and the ratio of boys to girl has decreased to 1.14 in the current academic year. International students are directly admitted after obtaining equivalence certificate from National Accreditation Agencies. The admissions to professional courses like MCA, MBA and MPharm are governed by the State Level Admission Committee for Professional Courses (ACPC) based on Common Management Admission Test (CMAT) score. The admission to MPhil and PhD courses is strictly by a test as per UGC minimum standards 2009. The numbers of vacancies faculty wise along with the counseling dates are displayed well in advance on the university website. The admission cum counseling session is conducted by duly constituted departmental research committee. The interest and broad outline of intended research by the student, and the research interest of the faculty are taken into consideration in allotting the supervisor.



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Keeping the diversity of student profile in mind, each department conducts an orientation/induction programme to fresh students in presence of the seniors and faculty members to make them aware about the teaching-learning methodology adopted, experimental procedure of the laboratories, availability of student's facilities and amenities within the department and university campus. The academic schedule of given semester is decided well in time before its commencement and the students are made aware of various deadlines including the schedule of internal test as well as tentative dates of university semester-end examination.

The teaching schedule and methodology considers the needs of fast, slow and average learners. Special care is taken to ensure the overcoming of learning gap. The synopsis of lectures and units is provided before hand and the various sources of learning and self-study are briefed by the faculty members. The students are counseled about suitability of electives based on their interest and also options available for the research based projects. The use of ICT-enabled tools including online Internet facility is made by the faculty for clarity of explanation and demonstration. The students are provided access to computer lab and also departmental library facilities.

The university has a well-qualified faculty and encourages the younger ones for updation of the subject and teaching skills to attend orientation and refresher courses. In some cases, the junior faculties are advised to attend the class room lectures of the senior faculty. The faculty members are deputed to attend national/international seminar/conferences/workshops for their appraisal of current trends and approaches in their field. The departmental seminars are also arranged for wider discussion and exposure. The meritorious and fast learning students are rewarded with appreciation certificates and prizes. The remedial classes are arranged to the slow learners. The lectures and talks by eminent faculty from other reputed universities or institutions are regularly arranged under various programmes so that the faculty members as well as students get a benefit expertise and experience. The teachers are recruited as per the UGC and State Government norms and their promotions under Career Advancement Scheme are made as per verification and evaluation of Academic Performance Indicators, as defined by UGC. The teaching hours for a given course in a semester are strictly maintained and compensation of lectures during leave of absence is made by the respective faculties by exchanging their classes with other faculty and conducting the missed classes at later time. During the assessment period, number of teaching weeks is maintained more than 90 days per semester.

The students and other stakeholders are well informed about the succinct features of continuous evaluation system. The marks are divided into internal and external parts. The internal marks are subdivided into quiz, seminar/assignment/tutorial and test. The format of the test paper both at internal



as well external examination is designed to consist of multiple choices, short-answered and long-answered explanatory based questions. The marks are displayed on the notice board and students are shown evaluated answer-books of internal examination free of cost. Contact hours per course are shown in the time-table and students are encouraged to approach the teachers during this time and to discuss issues pertaining the learning as well as evaluation.

Sufficient care, caution and fairness are maintained in the evaluation process and any grievance is redressed instantly by the faculty members. The confidentiality about the student and his/her exam seat number is strictly maintained by bar-coding process from the examination hall to mark sheet printing. The marks are entered into the computer to the captured seat numbers. The answer-books of university semester-end examination are shown to the students after due application and the opportunity for re-assessment is given within 10 days of obtaining the mark sheet. The re-evaluation process is taken up by a separate cell looked after by a Vice-Chancellor's appointee. The course work is an integral part of MPhil and PhD programmes. A course on research methodology and analytical techniques or tools is a must. The completion of the course work, conducting the examination and evaluation are taken care by a core committee appointed by respective DRC.

Following are the some salient features introduced to enhance the quality of teaching, learning and evaluation:

- Transparency in admission process through inclusive practices
- Ensuring the diverse nature of students profile by admitting students belonging to different social groups namely SC, ST, OBC, PwD and Minority etc.
- Arranging summer programmes, internship and training schools to the students for partial project work at national level institutes or universities
- Provision of scholarships, free-studentships and fellowships to the above from Government as well as university's own resources
- Ensuring conducive learning environment with ICT-enabled classrooms, library and hostels
- Examination reforms:
  - **Pre-examination processes:** Time table generation, OMR, student list generation, invigilators, squads, attendance sheet, online payment gateway, etc.
  - **Examination process:** Examination material management, logistics, etc.
  - **Post-examination process:** Attendance capture, OMR based exam result, auto processing, generic result processing, certification, etc.
- Confidential and fair evaluation process



### 3. RESEARCH CONSULTANCY AND EXTENSION

Sardar Patel University is known for its research from its inception. The research is mainly sponsored by various programmes such as major and minor research projects of individual investigators, special funding to departments by national funding agencies under the programmes such as UGC-DRS, UGC-SAP, UGC-CAS, DST-FIST, GUJCOST, DST-PURSE, etc. The individual projects are sponsored by various agencies like UGC, DST, DBT, GSBTM, GUJCOST, UGC-DAE, BARC, MoEF, ICSSR, etc. Several major research facilities costing crores of rupees have been set up in the science departments that are useful for characterization, analysis, testing, evaluation and monitoring of performance of chemical compounds of biological or synthetic origin. Our university was one of the few in the country to have electron microscope in the early 80's. Continuing this tradition the research facilities of highest standard and modern techniques are set up.

The individual faculty members decide the themes of their own research work looking into the infrastructure available in their own labs. The departments covered under major funding as above have identified thrust areas. So faculty members are carrying out research work in their own domain as well as on the thrust themes of the individual departments. The visibility of the research output is reflected through the large number of research papers in journals of national and international repute. The impact of this research output can be seen from the citations and h-index. The Web of Science search reveals that the university has overall citations of about 13,500 and h-index of 47 based on the data scanned for the period from 2000 to 2016. DST, New Delhi has identified our university as one of the 30 universities in India to be covered under PURSE programme. Under this programme, several sophisticated equipments namely, Qudrapole LCMS, Preparative HPLC, GC with heads space group, Size exclusion chromatograph, Steady-state fluorescence Spectrophotometers, Simultaneous thermal analyzer system, Inductive coupled plasma (ICP), Inverted fluorescence microscope, Rheometer, Semiconductor analyzer and Isothermal titration calorimeter have been acquired, installed and used in a separately created central facility. Taking inspiration from this award the university has decided to initiate and inculcate inter-disciplinary academic and research programmes by creating Centre for Inter-disciplinary Studies in Science and Technology (CISST). Several research personal were appointed in the period: 2011-2014 and some are continued at present to run this facility. The other notable equipments are Single crystal X-ray diffractometer, Powder X-ray diffractometer and High resolution NMR spectrometer. A total of 12 Post Doctoral/Research Associates have undertaken their research during the assessment period.

The admission to MPhil and PhD programmes is handled by Departmental Research Committee (DRC) and the policies regarding the research are framed time to time by Board of Postgraduate Studies and Research, Faculty. The





timings of research laboratories and central facility are flexible and the equipments are used to the optimum time. These facilities are also extended to the researchers, students, faculty and scientists from outside the university including industries at a nominal charge. The charge collected is pooled into analytical service fund. This fund is utilized for maintenance purpose. Some of the major equipments are on Annual Maintenance Contract (AMC). Specialized technical personal are appointed on full-time basis to run these machines and ensure their maintenance. Our faculty members collaborate with other universities and institutes such as AIIMS, New Delhi, NEERI, Nagpur, ICTE, Hyderabad, BARC, Mumbai, IGIB, New Delhi to name a few. A total of 22 such collaborative projects are taken up during the assessment period.

During this assessment period, 70 major research projects (₹8,00,87,329), 25 minor research projects (₹39,32,400) were successfully completed with tangible results in terms of high impact publication and PhD degrees. At present 15 major research projects (₹6,38,48,969) and 5 minor research projects (₹12,08,000) are ongoing.

Besides the government funded projects, faculty members also handled industry sponsored projects. Thirteen of such projects with a budget outlay of ₹27,17,400 were completed during the assessment period and 2 such projects costing ₹5,50,000 are ongoing. The university has taken a novel initiative from its own resources to fund minor research projects under SEED GRANT MONEY for inculcating research culture in uninitiated faculty members. Under this scheme, forty two projects in the areas of science, humanities and social sciences with the overall budget outlay of more than 30 lakhs have been awarded and successfully completed. Some of these projects are converted into major research projects and thus fulfilled our objective.

The university has filed 6 patents in the last five years. The research output is remarkable and includes 323 PhDs, 538 MPhils, 572 MSc (Dissertation Projects), 1306 research papers in journals of national and international repute, 54 chapters in edited books, 71 books with ISBN number. The international impact of the published research work is noteworthy. As per the Web of Science source, for 1,432 of our papers, 13,428 citations are received at an average citation of 9.38 per paper. The overall h-index of the university is 47 for the period of 2000-2016.

- The university has organized 7 international level conferences, 79 national/state level conferences. The university is publishing following research journals :
  - Journal of Education and Psychology (Published by PG Department of Education) ISSN No. 0022-0590; OCLC No. 1782870.
  - Arth Vikas - Journal of Economic Development (Published by PG Department of Economics) ISSN: 0004-3567.



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- Prajna: Journal of Pure and Applied Sciences (Basic Science), ISSN No. 0975-2595; Indexed in Indian Science Abstracts.
- Prajna: Journal of Humanities, Social Sciences and Business Administration, ISSN No.2250-0901.
- “SYNERGY”: A Journal of Management (Published by Business studies department and M.B.A.) ISSN No. 0973-922X.

The faculty members and also our research students participated and presented papers in various national and international seminars/symposia/workshops/conferences and have won 84 awards for their research work. The majority of our faculty members have also served as a member of national organizing committee, resource persons, session chair persons, key-note speakers, guest faculty and also visiting professors.

Majority of our faculty members especially in Science subjects undertake analytical service as well as consultancy type work by analysing the samples received from the Industry and interpreting the results. A total of more than 600 such services were rendered to more than 40 organizations and an amount of ₹24,28,820 has been generated. The university has also signed MoU with 5 academic and research collaboration and co-operations.

As part of extension and social responsibility activities, our departments and university encourage our students in various cultural, social and extra-curricular activities. Our students regularly take part in university/zonal level Youth Festivals, Research Anveshans. Organization of blood donation camp round the year with the help of Red Cross Society is one of our notable social outreach programmes. Our Community Science Centre involves the students as volunteers in various science and outreach activities such as Science Exhibition, Sky Gazing, Sensitization towards nature and its conservation, Health and Nutrition awareness, Hygiene and sanitation programme, Old-age Homes and Care, prevention of Chronic and seasonal diseases, Clean India Programme, Road Safety, Digital India, and Cyber Safety, etc. Department of Home Science, Department of Social Work is actively engaged in community awareness programmes on low cost nutrition recipe, skill development programme for rural woman to generate their own income. Department of Home Science has designed special practicals for demonstration of home make processes like Tie and Dye, card making, handicrafts items, nail art. A special activity for the cognitive development for persons with disability is also arranged for the inmates of the nearby ANDH APANGJAN School. Our MBA and MSW students participated in systematic voter education programme. Several talks by specialist eminent personalities are arranged under the auspices of several chairs to promote the life enrichment and spiritual development.



Overall, our university in cooperation with several NGOs has made systematic and sincere efforts to make our students sensitized towards contemporary social issues, develop leadership qualities, improve their communication skills and capacity to plan and organize events, etc.

Following are the key initiatives and achievements:

- Creation of Central Instrumentation facility under DST-PURSE programme to house sophisticated equipments
- Promotion of inter-disciplinary academic and research activities through setting up of Centre for Interdisciplinary Studies in Science and Technology (CISST), by organizing special seminars/workshops, lecture series and award of inter-disciplinary research projects
- Starting M.Sc. programme in Earth Science, Biomedical Science, Defence Science with the involvement of expert faculty from PRL, SAC, Ahmedabad, ARD, Pune, AIIMS, New Delhi, etc.
- Winning hand-some grants from national agencies under CAS, DRS, SAP, GSBTM and DST-FIST etc.
- Encouraging and engaging collaborative research projects and industry sponsored research projects
- Initiation of award of SEED GRANTS for cultivating research culture
- Research based MSc Project Dissertations
- Optimum utilization of equipment facility and extending them to industry for analytical and testing purpose
- Deputation of faculty members and research students to national and international seminars and conferences
- Organization of national/state level seminars and conferences
- Creation of vibrant research culture through organizing research scholars seminar/meet and their project presentations
- Inclusion of practicals in Department of Home Science, related to malnutrition, skill development for self income generation of rural community
- Community outreach programmes through Community Science Centre and Community Radio Station
- Encouraging extracurricular and sports activities of the students at university and zonal level
- Undertaking survey-based projects such as Electoral Voter Education programme, arranging talks for life enrichment and spirituality development



#### 4. INFRASTRUCTURE AND LEARNING RESOURCES

The university has spread over 5 parts with the main campus admeasuring 21 acres where administrative block along with majority of departments and other facilities are located. The satellite campus-I admeasuring 28.9 acres houses the university quarters, balwadi, most of the hostels, MBA department and central school. The other parts of the campus with a total of 36 acres of land houses some of the departments and modern sports facility. Some of the outreach supports such as Community Science Centre, Community Radio Station are also located in the main campus. The university has both men and women hostels with a total capacity of more than 2100 seats and almost all of our students (male and female) are accommodated in this facility. A separate hostel for ST students and also one for reserved category students are also constructed and operated. The international students are provided with furnished accommodation in the university colony. Sports facilities with meeting the national and international standards are available to students, faculty members, staff and community. Recreation facilities such as Gymnasium, Yoga Centre, and other fitness related amenities are available in hostels. Our sports facility includes Basket ball, Cricket, Volley ball, Kabbadi, Kho-kho and Handball ground etc. A modern 400 meter athletic track is also built. The sports complex has Wrestling and Judo areas. A swimming of Olympic standard is planned and soon to be constructed. Many of our students have won zonal and national level awards in various sports. The university organizes youth festival annual basis and also hosts zonal-level meets.

All the faculty members and administrative staff are allotted university quarters on demand.

Besides 25 constituent departments, the university has several affiliated colleges numbering 90 with an enrolment of more than 43,000 students. Recently the university area got expanded with the inclusion of colleges from entire two districts namely Anand and Kheda. These 37 new colleges will be enrolling their students from next academic year onwards under our university. The colleges affiliated include Science, Arts, Commerce, Business Studies, Physical Education, Medical College, Physiotherapy College, Homeopathy College, Law College and Nursing, etc. Each of our constituent departments has ICT enabled classrooms, common rooms for boys and girls, seminar/auditorium, well equipped laboratories and departmental libraries. The university main campus houses central library known as Bhaikaka Library and a total number of more than 20,000 books are added during the assessment period. More than 2,40,000 books are stacked in the library. 24,000 thesis are uploaded into Shodhganga project. Access to 15,000 research journals is made available through Shodhsindhu. The library has modern reprographic facility. A notable achievement of the library is to bring out GYANGANGOTRI (a book of knowledge) in 30 volumes. 5 such volumes in Hindi are also published. Besides



university central library the university also hosts an NBHM-DAE REGIONAL LIBRARY IN HIGHER MATHEMATICS in the Department of Mathematics. 46 international journals are subscribed in print version and back volumes of 50 journals are available. More than 5,000 books in Mathematics are stacked.

The Health Centre of university is ably looked after by a full-time medical officer, staff nurse, lab assistants and technicians. Several diagnostics facilities such as ECG, CBC, Lipid profile, Liver function Tests, Kidney Function tests & Malaria and Typhoid are available in-house. There is a provision for in-patient care. The visits of various specialist doctors are arranged on weekly basis. These specialists include Physician, Gynecology, Ophthalmologist, etc. The services to the students and staff are made available free. The services are also extended to retired staff and also students from affiliated colleges.

### ICT infrastructure

The university has implemented web-based portal for automation of core university processes. Computer Centre has played a pivotal role for successful implementation of the portal and also continuing support for troubleshooting. Many departments are provided Wi-Fi facilities. The networking infrastructure is strengthened. Total internet users have gone up to 1000 including Wi-Fi users. The Work Flow System was developed and will be functional from the next academic year. This system will help in fast movement of files and help to establish a paperless environment.

The summary of various ICT facilities department wise and also in support services is shown below:

Sr. No.	Department	No of Computers	ICT Enabled Classrooms	No. of LCD Projectors in Dept.	IT Enabled Seminar Halls	Student Computer Ratio
1	Biosciences	59	06	06	01	03
2	Business Studies	66	06	07	01	07
3	Computer Science	209	08	10	02	01
4	Chemistry	40	06	06	02	03
5	Economics	35	01	02	01	05
6	Education	15	01	01	01	02
7	Electronics	51	02	03	01	01
8	Gujarati	19	01	01	01	07
9	Hindi	08	01	01	Shared Basis	20
10	History	03	01	01	”	55
11	Home Science	25	03	04	”	05
12	Library & Info. Sc.	38	02	03	”	01
13	Political	03	01	01	”	09



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Sr. No.	Department	No of Computers	ICT Enabled Classrooms	No. of LCD Projectors in Dept.	IT Enabled Seminar Halls	Student Computer Ratio
	Science					
14	Psychology	05	01	01	”	98
15	Sanskrit	05	01	01	”	22
16	Sociology	08	01	01	”	20
17	Materials Science	25	02	02	01	01
18	Mathematics	105	08	10	01	03
19	Business Administration (MBA)	113	07	08	02	01
20	Social Work (MSW)	21	01	04	01	25
21	Physics	88	01	06	01	02
22	Pharmaceutical Science	26	03	03	01	01
23	Statistics	152	08	10	02	01
24	University Instrumentation Centre (USIC)	04				
25	Centre for Interdisciplinary Studies in Science & Technology (CISST)	24	02	02	01	10
26	IQAC	02		01	01	
27	University Adm. Building (Main Office)	88				
28	Computer Centre	67	01	02		
29	Bhaikaka Library	31		01		
30	Humanities Building Office	49				
31	University Press	13				
32	University Museum	03		01	01	
33	M B Patel College of Education	33	01	03	01	06
34	University Health Centre	03				
35	Agro Economics	43	01	02	01	



Sr. No.	Department	No of Computers	ICT Enabled Classrooms	No. of LCD Projectors in Dept.	IT Enabled Seminar Halls	Student Computer Ratio
	Research Centre					
36	CC Patel Comm. Sc. Centre	02		02	01	
37	Community Radio Station	01				
<b>Total</b>		<b>1482</b>	<b>77</b>	<b>106</b>	<b>25</b>	<b>306</b>

The details of some of the hardware in the computer centre are as follows:

Processor/RAM	Make/ Brand	Total
Core (TM) i7/4gb	HP	04
Core (TM) i5/4gb	HP/Dell	17
Core (TM) i3/4gb	HP/Dell	10
Dual Core /4gb	HP/Dell/Acer	25
Core 2 Duo/2gb	HP/Dell/Compaq	03
<b>Laptops</b>		
Core 2 Duo/2gb	HP	03
Core (TM) i5/4gb	Dell	01
<b>Servers</b>		
Power Edge E410	Intel (R) - Xeon(R) CPU E5620	01
HP Proliant DL 380	Intel (R) - Xeon(R) CPU 2.8	01
IBM System x3650 M4	IBM (system storage)	01
IBM DS 3512	IBM (storage device)	01

**Proprietary softwares**

- SPU Management System
- Office 2007
- Adobe Creative Suite 6
- Visual FoxPro 9
- Windows Server 2012
- Windows Server 2003
- MS SQL
- Windows Server 2006 R
- Symentac Backup Recovery

**Internet node information**

Year	Internet Existing	Node Added	Speed Given to User
2010-2011	300	180	2Mbps
2011-2012	480	173	2Mbps
2012-2013	653	198	1Mbps
2013-2014	851	320	512Kbps
2014-2015	1171	129	256Kbps

**Servers**

Server Name	Model
Application Server	IBM System x3650M4
Backup Server	IBM System x3650M4
Database Server	IBM System x3650M4
Backup Server for MIS	Dell PowerEdge T410
UMIS Server	Dell Vostro 200
Antivirus Server	Dell Optiplex 3020

University Management Information System is used in undertaking various administrative activities like:

- PG Enrollment and UG Registration
- Fee Management
- PEC, FEC Generation
- PG Admission
- Pre-examination Activities: Time Table Generation, Examination Appointment, Seat Number Generation and Hall Ticket Preparation.
- Post-examination Activities : Marks Entry, Result Processing, Result Declaration, Marksheet Management, Convocation Management (Degree Certificate)
- Different Statistical Analysis Reports

The maintenance of university infrastructural facilities is a continuous process and monitor on regular basis. The necessary measures such as renovation, repair and new constructions are implemented through provisions made in annual budget.

**5. STUDENT SUPPORT AND PROGRESSION**

The university believes in a strong support and mentoring system to its students who comes mainly from rural areas. There are many-many support systems and activities that begin from admission process onwards. The students are mentored through entire academic session till their possible placement. The functional activities are summarized below:





- Pre-admission counseling
- Orientation programme
- Ragging free campus
- Hostel accommodation
- Teacher(s)-in-charge (take care of the day-to-day issues of the students related to classroom and laboratory facilities of the respective stream)
- Remedial classes
- Coaching programme for SC/ST
- Talent Search and Nourishment
- Industrial visit
- Soft skill development
- Physical education
- Health care
- Women cell
- Placement cell
- Socialization
- Youth welfare and Cultural activities
- Ethical character building
- Life enrichment

The health services are looked after by our health centre headed by medical officer. The hostels are managed by a warden and rector. The hostels are provided with 24 hours security and Wi-Fi facility. Physical Education and Sports sections arrange and facilitate various sports activity including coaching and participation in university/state/zonal competitions. Coaches and managers are appointed as per requirement. The sport facilities are kept opened from morning to late evening hours. The students from different social groups are guided by separately created cells and are made aware of various schemes such as scholarships, free-student ships and also fee waivers scheme etc. Each of the activity is looked after by teacher-in-charge at department level and students have free access to them.

Apart from classroom teaching, the students meet the faculty members during contact hours and also otherwise for getting the doubts clarified. In order to improve the soft-skills, the students are offered special skill-development programmes, are also exposed to the experts during the special lectures, seminar, workshop organized in the departments from time to time. The students are also guided for the MSc Dissertation wherever applicable.



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The financial support rendered to various categories of students and the amount of the benefit is shown below:

<b>[A] Scholarships/Fellowships/Free-Studentships etc. (in ₹)</b>						
	<b>2010-11</b>	<b>2011-12</b>	<b>2012-13</b>	<b>2013-14</b>	<b>2014-15</b>	<b>Total</b>
Dr Taraben N Patel Scholarship				10,800	11,200	22,000
Private Endowment Scholarship	8,340	14,400				22,740
Ratil Vallavjibhai Doshi Parivar Scholarship				14,400	14,400	28,800
Self-finance free Studentship	7,60,000	10,54,500	9,48,900	9,02,700	9,21,800	45,87,900
University fellowship	6,000	3,600				9,600
University free studentship	48,000	2,400				50,400
<b>Total</b>	<b>8,22,340</b>	<b>10,74,900</b>	<b>9,48,900</b>	<b>9,27,900</b>	<b>9,47,400</b>	<b>47,21,440</b>
<b>[B] Research Scholarships/Fellowships (in ₹)</b>						
	2010-11	2011-12	2012-13	2013-14	2014-15	Total
CSIR (Council of Science and Industrial Research)	4,78,802	9,54,165	13,97,658	11,34,708	6,86,123	46,51,456
Deputation				1,54,724		1,54,724
Dr DS Kothari Postdoctoral fellowship Scholarship	1,68,935	1,59,600	7,67,648	6,90,967		17,87,150
Indira Gandhi Scholarship for Single Girl Child	1,60,000	1,40,000	30,000			3,30,000
Inspire Fellowship				12,32,581	21,00,000	33,32,581
JRF (Junior Research Fellowship)	-2,44,641	22,63,113	20,11,059	17,95,871		58,25,402
NBHM	72,000					72,000
PG Merit for rank holder Scholar	1,70,000					1,70,000
RGNF (Rajiv Gandhi National Fellowship)	1822440	38,75,831	16,55,560	6,97,365		80,51,196
<b>Total</b>	<b>26,27,536</b>	<b>73,92,709</b>	<b>58,61,925</b>	<b>57,06,216</b>	<b>27,86,123</b>	<b>2,43,74,509</b>



<b>[C] Category wise Scholarship (in ₹)</b>						
	2010-11	2011-12	2012-13	2013-14	2014-15	Total
Baxipanch Scholarship	8,73,942	6,22,121	13,14,084	16,18,510	34,29,965	78,58,622
EBC Scholarship	20,400	24,000	21,600			66,000
Gujarat Higher Education Scholarship	1,000	13,000	600			14,600
Handicap Scholarship	3,000	18,000	27,000	30,000	18,000	96,000
Minority Scholarship	46,500					46,500
Miscellaneous Scholarship	1,76,570	5,000	5,000			1,86,570
SC Scholarship	8,14,543	19,05,063	40,06,992	33,09,985	36,50,162	1,36,86,745
ST Scholarship	90,785	27,24,461	43,66,508	44,62,704	59,75,270	1,76,19,728
<b>Total</b>	<b>20,26,740</b>	<b>53,11,645</b>	<b>97,41,784</b>	<b>94,21,199</b>	<b>1,30,73,397</b>	<b>3,95,74,765</b>

Following table gives the percentage of students received financial assistance during the assessment period.

<b>Year</b>	<b>Scholarships/Fellowships/Free-Studentships etc. (in %)</b>	<b>Research Scholarships/Fellowships (in %)</b>	<b>Category wise Scholarship (in %)</b>
<b>2014-15</b>	<b>4</b>	<b>0</b>	<b>52</b>
<b>2013-14</b>	<b>3</b>	<b>2</b>	<b>36</b>
<b>2012-13</b>	<b>3</b>	<b>1</b>	<b>27</b>
<b>2011-12</b>	<b>3</b>	<b>1</b>	<b>27</b>
<b>2010-11</b>	<b>3</b>	<b>1</b>	<b>22</b>

The International Students Centre (ISC) provides and facilitates the information about the various courses offered, admission procedure, eligibility criteria, fee to be charged etc. to international students and also arrange for their admissions. The ISC coordinates all the activities related to the admission of international students through a Single Window System. It coordinates with Indian Council for Cultural Relations (ICCR), Union Ministry of External Affairs (MEA), Union Ministry of Human Resource Development (MHRD), Union Ministry of Home Affairs (MHA), and with different Embassies and Consulates for various purposes including assisting the international students to obtain Student or Research Visa, Scholarships etc. A total of 84 international students were admitted during the assessment period.

Coaching for NET/SLET and other competitive examinations especially for the benefits of SC/ST, OBC and Minority students along with the General category students is given. Due to university efforts, about 115 students got success in



## NAAC – Reaccreditation Report

UGC-NET examinations and about 50 students have cleared GATE, NET-JRF and SLET exam. Our students are counseled to take up higher studies. This resulted in the progression of about 650 students from Postgraduation to MPhil and about 350 students from Post graduation to PhD during the assessment period.

The participation of students in sports and cultural activities is encouraged by adjusting their academic and examination related schedule and also providing sufficient financial support along with other required kits. The Career and Counseling Cell (CCC) overall monitors the placement of students through Departmental Placement Cell. About 450 students were placed in various companies, educational institutes and other enterprises before the announcement of their exam result.

The general grievances of students are adequately addressed both at departmental and university level. Special cells are created to address the issues related to SC/ST, Women students and also general students. Annual health check-up of all students by the university health centre is a regular activity. The health centre is made available outside the office hours to the students.

Following is the gist of various student related support services offered by university:

<b>For whom</b>	<b>Type of support services available</b>
<b>Overseas students</b>	<ul style="list-style-type: none"><li>• International Student Center (ISC), Sardar Patel University provides general support.</li><li>• Logistic support is provided with the consent of the university.</li><li>• International Student Center has provided accommodation in the University staff colony with separate rooms. Also we provide furniture, electric equipments like refrigerator, water purifier, and hot water geyser.</li></ul>
<b>Physically challenged / differently-abled students</b>	<ul style="list-style-type: none"><li>• Ramp facility.</li><li>• In Gynodaya Examination Building and Department of Computer Science, lift facility is available.</li><li>• Extra time, efforts and guidance is given to the needy students.</li><li>• Special arrangement in classrooms as well as in the laboratories.</li><li>• Information pertaining to their financial and other academic benefits is provided in time.</li></ul>



<p><b>SC/ST, OBC and economically weaker sections</b></p>	<ul style="list-style-type: none"> <li>• SC/ST &amp; OBC fellowship (State Government Sponsored) is given to these students.</li> <li>• UGC NET Coaching Centre at University level.</li> <li>• Stakeholders are informed via circular from the University for Reservation Policy and various scholarships.</li> </ul>
<p><b>Students participating in various competitions/conferences in India and abroad</b></p>	<ul style="list-style-type: none"> <li>• Students are motivated by senior faculty for attending various competitions/conferences and necessary guidance about Government monetary system is also given.</li> <li>• By providing the financial support from the department as per university rules.</li> </ul>
<p><b>Health centre, health insurance etc.</b></p>	<ul style="list-style-type: none"> <li>• University Health Centre (UHC).</li> <li>• UHC operates medical checkup and provides free medicines.</li> <li>• Students are also provided information about nearby hospitals to take the advantage.</li> <li>• Medical check-up.</li> </ul>
<p><b>Skill development (spoken English, computer literacy, etc.)</b></p>	<ul style="list-style-type: none"> <li>• Different educational training programmes or awareness programmes by placing the relevant information's time to time on student notice board as received directly or indirectly from Government/Non-Government Agencies/Institutions etc.</li> <li>• In Humanities and Social Science departments, a course is offered for all students to develop computer skills.</li> </ul>
<p><b>Performance enhancement for slow learners</b></p>	<ul style="list-style-type: none"> <li>• Re internal test is available for slow learners.</li> <li>• Remedial Classes are conducted as and when required.</li> <li>• Extra classes and personal guidance is given to slow learners. Students can contact faculty as and when required for guidance.</li> <li>• Assignments, personal guidance is provided by subject teachers.</li> </ul>
<p><b>Exposure of students to other institutions of higher learning/ corporate/business houses, etc.</b></p>	<ul style="list-style-type: none"> <li>• Department encourages students for participation in various academic, co-curricular activities.</li> <li>• Students are also permitted for attending conferences, workshop and symposium etc.</li> </ul>
<p><b>Publication of student magazines</b></p>	<ul style="list-style-type: none"> <li>• Students are provided an opportunity to publish their articles or other materials to display on the departmental notice board.</li> </ul>



## 6. GOVERNANCE, LEADERSHIP AND MANAGEMENT

The university had good fortune of distinguish personalities as Vice-Chancellors. The founder Vice-Chancellor Dr Bhailalbai D Patel (popularly known as Bhaikaka and on whose name our university library is known), is in fact the architect of modern Vidyanagar township. Being a professional Engineer, he took up personal and professional interest in designing various buildings and facilities and also mapping up of the campus as a whole. The successive vice-chancellors have followed his vision and added more and more facilities along the sides of university growth. The second Vice-Chancellor, Shree Babubhai Jashbhai Patel went on to become the chief-minister of the state. The other vice-chancellors who succeeded further are Dr Maganbhai D Patel, Shri Ishvarbhai J Patel, Shri Rameshbhai S Mehta, Dr Ramanbhai D Patel, Dr Ranchhodbhai M Patel, Shri Krishnalal N Shah, Dr Kantibhai C Patel, Dr Dilavarsinh D Jadeja, Dr Vithalbhai S Patel, Dr Pravinchandra J Patel, Dr Bharatkumar G Patel and Dr Harish Padh. Many of these personalities are from our campus and especially Department of Chemistry produced three of them.

The Governance of University is highly participative and encourages democratic discussions and debates before any policy is made and executed. The Vice Chancellor is Chief Executive Authority and the Governor of the State is the Chancellor by Act. The policy and decision making process is done by various statutory and non-statutory committees. The statutory committees are Senate, Syndicate, Academic Council, Faculty, Board of Postgraduate Studies and Research, Board of Studies, Finance and Establishment Committee, Building Committee, Library Committee, College Development Council and Board of Sports, etc. The other committees include Exam Reform Unit, Selection Committees for Teaching and Non-teaching staff and Scientific Equipment Purchase Committee at the university level. Several sub committees are formed at university as well as department level from time to time to look after admission, internal examination, purchase, discipline, etc. Each department has a Departmental Research Committee that looks after all the matters related with Research. The power of authority of administration flows from Vice-Chancellor to Registrar and Head of the Department. The academic and exam related matters flow from Vice-Chancellor, Dean and Board of Studies. The term and constitution of each of these authorities is well-defined in our statute.

The university has well-qualified faculty members who keep themselves continuously updated with the knowledge. We provide leadership and quality enrichment measures on academic and examination related matters to our affiliated colleges/institutes.

Even though the power of authority of administration lies at apex level, the input and guidelines come from various subcommittees involving teachers and administrative staff on various issues and this enables the growth and grooming



of leadership at various levels. The teaching and non-teaching staffs are encouraged and exposed to modern technology based tools so that their competency and ability to address the modern challenges in the Higher Education sector is enhanced. Budgetary provisions are made from various sources namely recurring receipt, grant from state government as well as central government agencies on an annual basis under well-defined expenditure heads. We have a well-developed financial management system that takes care of overall financial health of the University. The expenditure is made as per the delegation of the power at different levels and it is monitored by internal auditing system. The university has devised its own resource mobilization in the form of self-financed courses, external examination and generous donations from philanthropists and our alumni.

The university has a well cut-out vision and mission for academic, research and extension activities. The motto of university is *Excellence Matters*. It is striving hard to improve and enhance teaching-learning process, research development, a sound value system among students, promotion of use of technology, strategic planning of financial resources, planning and development of Human resources, Community engagement programmes and internationalization of Education, etc.

## 7. INNOVATIONS AND BEST PRACTICES

The university has taken lot of initiatives and established a green audit system. Under this, the environmental aspects of the campus namely, tree conservation and plantation and use of technology for sustainable development are covered. Some of the examples are as follows:

**Energy conservation:** The University is taking several measures for energy conservation. With a view to conserve electricity, conscious efforts of switching off are made, when electricity is not required. Instructions to run air conditioners on energy saving mode is given. Energy-saving fixtures, lamps, lighting control systems are being installed.

**Use of renewable energy:** Solar energy harvesting systems have been installed at various places in the university campus for generating electricity to save electricity bills. Such installations with single or dual axel tracking systems have been installed in the University office, MBA Department, Physics Department, Agro Economic Research Centre. It has resulted into total power generations of 9 KWh. The solar water heaters are used in three of our hostels to get twenty-four hours of hot water supply with zero carbon emission. These systems are helping in reducing carbon emission, have low maintenance and are labor free. Along with the hybrid solar system, a wind mill system has been installed on the roof of Physics Department. On these installations, an MSc Laboratory, a Class room, department and Head's office are working.



**Water harvesting:** The University has taken initiatives in rain water harvesting which helps in ground water recharge, salinity control and maintenance of soil humidity. Such installations have been made at University colony ground, University Guest House, University Women’s Hostel, Vice-Chancellor Bungalow and Community Science Centre. This has helped in minting the ground water table in the campus.

**Check dam construction:** No scope of check dam construction in this region of the state.

**Efforts for Carbon neutrality:** Various departments and distant campuses are observing Vehicle Free Day on regular basis, helping the environment to reduce carbon emission. Conscious efforts are made for the restricted use of air conditioners to reduce the greenhouse gases along with CO<sub>2</sub>. With a view to eliminate the carbon foot-prints and emissions, laboratories of Department of Chemistry are supplied with natural gas-based connection. Even a natural gas-based, back-up generator supplies electricity, in case of power failure.

**Plantation:** The University has regular drives for plantation to maintain green coverage of the main campus as well as distant campuses. These movements are supported by different environment conscious organizations and Government Forest Department of GoG. Green campuses have been developed with such efforts at Computer Science Department and Bio Science Department.

**Hazardous waste management:** No department in general has generation of hazardous waste. Biomedical waste generated by health centre is segregated and then handed over to ‘Samvedna’ an agency authorized to handle and dispose of such kinds of waste. Departments like Chemistry, Biosciences and Home Science where there is a use of chemicals and biological materials; the disposal of waste is done as per the prescribed rules and norms.

**E-waste management:** Computers with old version have been given to an NGO for the purpose of education free of cost. The other E- waste is disposed off through tendering to the parties who are handling the disposal of such waste.

**IQAC:** IQAC has been a facilitator between academics and administration wings. Following initiatives are implemented during the assessment period:

- Implementation and actual execution of Choice Based Credit System (CBCS) at Under-Graduate and Post-Graduate level across the Faculties of the university
- Implementation of UGC Minimum Requirements for PhD (Including PhD Entrance Test and PhD Coursework)
- Arrangement of workshops and seminars on quality improvement parameters
- Facilitation in signing of MoUs and Patent Filing etc.





- Redesign of examination papers and proportion of weightage between internal and external across the Faculties of the university.
- Familiarization and Training to both teaching and non-teaching staff members of the university and affiliated colleges and institutions for examination related issues namely paper setting, assessment and conduction of examinations.
- Implementation of UGC Career Advancement Scheme (CAS) and arrangement of assessment process through Academic Performance Indicators (API)
- Ensuring the speedy disposal of CAS cases
- Acting as nodal agency for AISHE and uploading of necessary information.
- Handholding and assisting new colleges and institutions for getting recognition under 2(f) and 12(b) of UGC
- Coordinating the planning and distribution of funds to various department and sections from planned grants of 11<sup>th</sup> and 12<sup>th</sup> plans
- Arrangement of workshops and programmes for under graduate, postgraduate and PhD students to display their creativity through projects under Anveshan programme.
- Arrangement of convention and research scholars meet
- Preparation of brief appraisal of efforts made to initiate and familiarize the preparation of Sardar Patel University for AAA, KCG, Gujarat and Next Cycle of Reaccreditation (NAAC)

Other notable innovations and practices planned and implemented are

**Signing of MoUs:** MoU with Government of Gujarat and District Collectors for the preparation of Women Development report for the districts of Dang and Panchmahal. MoU with Papua New Guinea University of Technology LAE, PNG to implement academic and research collaborations. MoU with University of Turku Finland, Tooltech, Pune for developing Centre of Excellency in Biotechnology for affordable health. MoU is also signed for Collaborative project on “Pre-clinical Pharmacokinetic Study of Aphrodisiac Phytocontituent” between CISST and Ramanbhai Patel College of Pharmacy.

**Implementation of CBCS System:** Several seminars and workshops were arranged to frame the guidelines and smooth implementations of CBCS system in undergraduate as well as postgraduate programmes as a whole.

**Examination Reforms:**

- Indication of the name of the student and name of the department/college in the students Grade Card/Mark-sheet and Degree Certificate of the students
- Observation of Answer-book in all semesters/year undergraduate and postgraduate examinations



- Preparation and implementation of question paper style format for all CBCS Examination
- Examination Autonomy to all concerned department where single/unique postgraduate course is offered
- Decentralised Undergraduate BA/BCOM/BSC/BCA/BBA/BSW-I Semester examination which are offered in various affiliated colleges
- Decentralised all Practical Examination of Undergraduate and Postgraduate Courses conducted at various Departments/Colleges/Institutions.
  - Deposit of examination remuneration in bank account

**University Management System:** The enrolment process is made online. Part of the examination process is automated.

**Medical facility:** Extension of the facility to retired university employees.

**Inter-disciplinary Academic and Research Programmes:** New MSc Courses in Biomedical Science, Defense Science and Earth Science are introduced with the active collaboration from national laboratories such as PRL, SAC, Ahemadabad. Granting of inter-disciplinary projects, arranging national level seminars and workshop in inter-disciplinary topics and also lecture series are other features to promote this activity. Creation of Central facility of equipments under DST-PURSE programme and establishment of CISST with involvement of faculties from Department of Physics, Chemistry, Biosciences, Mathematics and Statistics, Computer Science and Electronics, as a common platform for discussion and deliberations are contributing to this effort. Similar centre in the areas of Humanities and Social Sciences is already planned.

**SEED Money for Research:** To create and promote research among the teachers of the departments and affiliated colleges who have not been approached for funding for research, SEED money is granted in the form of minor research projects.

**Personal Proficiency Development Fund (PPDF):** The University has created Personal Proficiency Development Fund out of Overhead Budget of the various research schemes granted by the different funding agencies with a view to meet research and educational activities; to purchase international books, journals and e-journals; to subscribe research journals; to participate in seminar, symposia, conference (to meet TA/DA and Registration fees); to purchase learning materials, scientific equipments, Laptops; and to depute the teachers to attend seminar, conference etc. with a permission of the teacher who has credit amount in his PPDF.



**Group Insurance Scheme:** This scheme is available to all teaching and non-teaching staff. Every employee contributes per month to this scheme. In case of a premature death of an employee, the amount is paid to kith and kin of the deceased. If the employee retires after attaining superannuation or voluntary retirement, an employee is paid the amount of his/her contribution after certain deductions.

**Teacher welfare fund:** Sardar Patel University Teachers Welfare Fund (SPUTWELF) has been created to provide financial assistance to member – teachers who have been compelled to abstain from work owing to prolonged illness, serious physical or mental disability, provided he/she is on leave. Moreover, other welfare activities are undertaken for the members and their families. In the event of death of a member, his/her nominee is given financial assistance in case of full-time salaried teachers as well as part-time salaried teachers.

**KALYANNIDHI:** Sardar Patel University Non-teaching Staff Welfare Fund (KALYANNIDHI) has been created to provide financial assistance to its member, who have been compelled to abstain from work on leave without pay owing to prolonged illness, serious physical or mental disability; to provide financial assistance to the legal heir of the member in case of death of the member and to provide financial assistance to the member who retires from the university service.

**Preparation of Audio Book for Blind People’s Association:** “Tattvamasi” by Shri Dhruvbhai Bhatt, a well known Gujarati Novel cum Life enriching and guiding story depicting the life on the banks of river Narmada, and a recipient of ‘Rashtriya Sahitya Academy Award’ was selected and audio book was prepared utilizing honorary services from an expert announcer and reader and was recorded, edited and prepared at the University’s Community Radio Station.

**Sardar Patel University Community Outreach and Extension Programme - A Pilot Project:** Continuing the mission of the University of “Resurgence of Rural India” by taking education and applications of study and research in various disciplines of knowledge to the doorsteps of rural areas, and prepare the citizens and leaders of new free nation as envisioned by Sardar Vallabhbhai Patel, the University undertook a pilot project of SARDAR PATEL UNIVERSITY COMMUNITY OUTREACH AND EXTENSION PROGRAMME.



## The SWOC Analysis of the University

### STRENGTHS

- Conducive surroundings for teaching, learning and research.
- Well-qualified and experienced faculty.
- Well furnished and equipped laboratories and library.
- Student-friendly administration.
- Strike and stress free campus.
- Urban amenities in a rural background.

### WEAKNESSES

- More vacancies of faculty positions.
- Delay in administrative decisions in operative research projects (in some cases).
- Less number of students from outside the state.
- Less number of successful candidates at UGC-NET and other national competitive examinations.

### OPPORTUNITIES

- Potential for involvement of industries in academic and research programme.
- More MOUs with other universities in the country and abroad.
- Can evolve into a nodal centre of learning in the state.
- Wide scope for amalgamation of traditional subjects into inter-disciplinary areas of teaching and research.
- Can attract more international students.

### CHALLENGES

- Enhancing the share of extra moral funding for research from state as well as central government agencies and industries.
- Coaching and motivating students to succeed in national level competitive examination including UGC-NET.
- Eliminating the mind block among faculty and other stake holders especially students to pursue teaching and research programme in emerging and evolving areas of discipline.
- Motivating faculty for revision of syllabus in tune with employability, skill-upgradation and value-addition.
- Alumni network at university level.