



Best, Innovative and Unique Practices of Gujarat University

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Best Practices



1. Environment Friendly Practices

Gujarat University deals with all types of waste, including solid, liquid and gas. In some cases, waste can pose a threat to human health. A large share of waste management is done in collaboration with Ahmedabad municipal solid waste management system. Re use, reduce and refuse are main principals of our working pattern.

The most common products recycled include aluminium such as cans, copper such as wire, old steel furnishings or equipment, polyethylene bottles, glass bottles and jars, are sent to appropriate place for recycling.

Recoverable materials that are organic in nature, such as plant material, food scraps, and paper products are recovered through composting. The resulting organic material is then recycled as much or compost for agriculture and landscaping purposes.

Many methods of avoidance like reuse of second hand products, repairing broken items instead of buying new ones, designing products to be refillable or reusable such as cotton instead of plastic shopping bags are also adopted.

We have also diploid a waste water treatment plant at our hostel. This recycled water is used for nonpotable purposes, such as landscape, toilet flushing, dust control, construction activities etc. in addition water recycling provides tremendous environmental benefits, such as decrease in diversion of fresh water from sensitive ecosystem, it reduces pollution it saves energy, etc...

2. Jan Sikshan Sansthan

The scheme of Jan Shikshan Sansthan has its genesis formerly known as Shramik Vidyapeeth, was established in 1967, by the then Ministry of Education and Culture, Government of India to cater to the vocational and general education needs of Industrial workers and urban slum dwellers.

The Ahmedabad – Shramik Vidyapeeth was established in 1976 known as Jan Shikshan Sansthan. Established in 1975-76. It was the second oldest institutions among all the Jan Shikshan Sansthan in India. The first

Shramik Vidyapeeth was established in Mumbai in 1965. Since 1976 Shramik Vidyapeeth, Ahmedabad (Now onward 2000 Jan Shikshan Sansthan) is working under the aegis of Gujarat University.

In the year 2000, the scheme was renamed as Jan Shikshan Sansthan and its coverage was extended to rural areas covering non-literates, neo-literates and persons having rudimentary level of education. The Scheme of JSS in being successfully implemented with public and private partnership since last 50 years. These NGOs are playing a vital role in providing vocational training at doorstep of the beneficiaries in the unreached areas.

Hon'ble Prime Minister of India has launched the National Skill Development Mission on 15.07.2015 on the occasion of World Youth Skills Day. The Mission has been developed to create convergence across sectors and states in terms of skill training activities. Government of India further decided that the Vocational Education component of Adult Education Scheme under the Ministry of HRD should be carried out within the Pradhan Mantri Kaushal Vikas Yojana under the Ministry of Skill Development Entrepreneurship. (MSDE).

The Scheme of Jan Shikshan Sansthan was consequently transferred from MHRD to MSDE. MSDE has kept its original mandate intact and renamed it as Scheme of Support to Jan Shikshan Sansthan (NGOs) for Skill Development. The committee met several times and discussed at length the various aspects and suggested uniformity, transparency, flexibility, credibility, branding, system of assessment and certification to meet requirements and standards of MSDE.

CONCEPT

- JSS is conceived as an institute for conduction skill up gradation programme in Non-formal mode in rural and urban slums of a district. It

would also provide academic and technical resource support to target groups in both urban and rural areas.

- JSS would offer vocational and skill development programmes for non/neo-literates and persons having rudimentary level of education up to 8th Standard in both industrial/urban and rural areas and other school dropouts beyond 8th standard i.e. up to class 12th with a cap of 20% of total beneficiaries per year.
- The programmes would be based on the polyvalent or multi-dimensional approach.

OBJECTIVES

- To improve the occupational skills and technical knowledge of the non/neo-literates and persons having rudimentary level of education up to 8th Standard and other school dropouts beyond 8th standard i.e. up to class 12th to raise their efficiency, increase productive ability and enhance their livelihood opportunities.
- To identify and promote traditional skills in the district.
- To create a pool of master trainers working across the department / agencies of skill development through training / orientation programme.
- To collaborate and coordinate with other departments/agencies working in the field of skill development.
- To widen the range of knowledge and understanding of the social, economic and political systems and create awareness about the environment.
- To promote national values and to align with national programmes.
- To promote self employment and facilitate to get financial support including loans/for the target group through linkage with credit and consortium membership.

3. Utility Store VidhyaShree

VidhyaShree is a souvenir shop and a utility corner for and by the students of Gujarat University. The souvenir shop is created to avail souvenirs of the University in form of T-shirt, Stationery, Trophy, Bags, and Blazers etc. Utility corner is created to help deprived students of the University. Utility corner is managed by student's volunteers for the students. The mechanism is devised in such a way where in students and teachers of the university donate utilities like Books, Clothes, Electronic Items, Personalized Items like rugs, blankets, Cots, Pillows, and Cycles etc. will be made available to deprived students.

4. Knowledge on Wheels (KOW)

Gujarat University has purchased and modified exclusive bus with Ten Computers on board to impart literacy of computers to under privilege of the civilians of the city. So far 20 programs have been conducted on KOW.

5. Samutkarsh

Gujarat University has adopted five villages Ognaj, Khoraj, Lapkaman, Jaspur & Lilapur for making transformational change in Rural Development processes by providing skills and education.

6. Samras Hostel

Government of Gujarat and Gujarat University established ten story separate hostel for the students belonging to reserve category (SC, ST, and OBC). The hostel can accommodate one thousand Boys and one thousand Girl students at a time. Facilities like food, accommodation and health are provided at very nominal rates.

7. Gujarat University Health Centre

Gujarat University has established health centre with modern facilities where students, teachers and community are charged 50 paisa per case while staff of the university along with family members are given these benefits free of cost.

8. SAMPADA

Gujarat University has its institutional repository where teachers can deposit their Research Article, Papers, Project Works on SAMPADA.INFLIBNET.AC.IN website. Students and teachers from affiliated colleges can access this repository.

9. MYLOFT (My Library on Finger Tips)

The initiative is first of its kind in the world; the concept is based on an android application where a large number of e-content subscribed by Gujarat University Books, Magazines & Journals is stored and accessible to the user community of Gujarat University. Which can be downloaded by students & teachers of the University without paying charges, audio version is also available for divyang students.

10. Procession of Constitution

Gujarat University yearly organises two times processions of the constitution (divided in 3 original & rare necessary) on elephant in city of Ahmadabad to aware & exhibit the original constitution of India to Civilians, students & Teachers. The procession is held two times in a year 24 January and 26 November every year.

11. Guruvani 90.8 FM - Radio Unbound

To enrich the community, mainly students of more than 200 colleges affiliated with Gujarat University about its Courses and career options while at the same time providing them with enriching and fulfilling edutainment programmes. Gujarat University Community Radio, Guruvani, 90.8 FM came into existence in 30th March, 2012 and since then it has more than 300 educational and awareness programmes in its bank. The programmes cover various fields like education, science, art & culture, information technology, language; these programmes have been recorded by the academicians and students of Gujarat University. These programs have helped in exchange of

information, networking of groups, provision of skills and training; and all these are undoubtedly key elements of developing the student community. It has empowered the university students and various communities to use radio to promote themselves and to speak directly to the peers.

12. Use of RFID Technology

Gujarat University has spent Rs. 61 Lakhs to install RFID Technology so far 2,25,000 Books have been covered in this project.

13. Gyan Yatra

Gujarat University has started initiative “Gyan Yatra” since 2018 for teaching and non teaching staff of the University. So far 100 teaching staff and 50 non teaching staff visited top universities and institution of the world.

14. ANVESHNA

Anveshna is a Global Lecture series started by Gujarat University since 2017. So far 25 lectures have been arranged in which more than 1000 faculty members participated and no 25 eminent personalities across world were invited as Resource person.

15. Regular Placement Camp and campus to corporate Training

Gujarat University is regularly organising MEGA Placement Campaign and Job Fair. So far Gujarat University has organised 16 such programmes in last two years.

16. Honorary Doctorate Degree

Gujarat University for the first time started giving honorary degree to the world famous personality and made extra ordinary contribution in their field. In 2018 Gujarat University has awarded 6 of such degrees to outstanding personality.

17. Research Scholarship

Students who are not associated with any of the institution and doing PhD from Gujarat University will get stipend of Rs. 1000 from Gujarat University.

18. Knowledge in box

Knowledge is Box (KIB) is specifically designed for visually impaired students where in they can listen any book in 10 different language of India in Audio Form.

19. Other Library Initiatives

- 24*7*365 on demand of students for competitive exams
- Self circulation by using RFID / self circulation system
- Mobile rack system for space management in library
- Library user orientation program
- Remote Access Service
- Smart card for Library users
- Special Facilities for DIVYANG (Text to Audio Convert Facilities)
- Use of renewable energy
- Water Harvesting
- Various societal initiatives by Gujarat University Library
- Workshop on Ethical practices for research scholars and faculty members
- Student charter by Gujarat University Library
- IRNS (Indian Research Network Information System)

20. Department of Journalism

Special Program **“GAON CHALE HUM”** (Lets go to Village) is special Initiative we consider as a best practice. We believe that rural development is a real development of India. All media professional supposed to study issue of rural development, so we are providing rural exposure as a compulsory part of

learning process in our both courses. As a part of study media student must stay in villages in the various Part of Gujarat and India. They should learn the basic lesson of Grassroots development 360-degree exposure real and diverse Indian Society. Due to this practice we realized that student is more sensitive And committed professional in media industries. As a part of this Initiative we are doing three things.

- In the Master's in Development Communication course one-month NGO internship is compulsory. Students are going various villages in India through the different NGO. They must submit report and certificate of NGO after the completion of internship.
- Fifteen-day compulsory stay in rural areas of Gujarat. They have 100 marks of weight age for the course work of rural exposure.
- In Master of Mass Communication & Journalism as a part of development communication subject they have two or three weeks of NGO / Rural Internship compulsory after the third semester student of MMCJ are not getting full mid-term vacation, during vacation time they must go for village exposure internship for three weeks. They have fifteen-mark weight age for this compulsory course work.

As a department the major outcome of this process is, we observed lots of changes in the perception of the student regarding real rural India. This grassroots exposure is helping them to be more sensitive, committed and competent media professional.

With the help of donation, we established library with bunch of Books. We have almost many important books about media & Communication. As we teach film as a communication tool, so in our library we have established separate portion for various award-winning films as well as reputed & entertaining TV serials.

21. Department of Chemistry

1. **Deep Emphasis on Practice Problems:** This helps students to develop better skill to apply course knowledge in solving more tangible or actual “real life” problem.
2. **Integrated Lab–Lecture Experiences:** Chemistry is an experimental science; therefore, our department believes in getting students hands-on experience with experimental techniques and key chemical phenomena. We have observed that integrating early lab experiences with the relevant lecture material is critical to building student intuition in the subject.

22. Department of Botany

- GUBS promotes staff and students through healthy competition and skill up gradation.
- Staff and students take up community services for awareness of health, cleanliness, climate, water use etc.

23. Department of Gujarati

We initiate and motivate the students to read poems and text in the class rooms to groom them for fluency in the language. Students development & Social activity

24. Academic Staff College

- Ranked as 15th in All India Ranking of ASCs by NAAC (First in Gujarat)
- E-journal: Publication of Peer- reviewed National journal of research
E-Resources
- Organised course with renowned and qualitative training partners like IIM, Ahmedabad and Gtep UK
- Learner centered approach

25. Department of Commerce

- Publish the assignments submitted by M.Com students in the form of book.
- Encourage JRF and Ph.D. students to deliver lectures in other Universities.
- JRF students of the Department are invited every year to give lectures on Financial management and Carbon Credit to students of Department of Botany, Gujarat University.
- Created a cluster of departments – School of Commerce, Department of Earth Science, School of law and Department of Journalism. School of Commerce arranged a lecture on legal literacy which was delivered by Prof. Kaushik Raval on 18th September, 2018 and attended by students of all the four departments.

26. Department of Computer Science

- Computer labs are available for entire day (10 am to 6 pm) so that the students can perform lab tasks or access Internet throughout the day
- State of the art computer lab with Internet as per the IT industry demands
- Incorporation of open source technologies in the curriculum to support Nation by reducing expenses
- One to one counseling to students for career decisions and placements
- Joint coordinated placement activity of students and teachers, achieving almost 100% placement for PG degree students
- One to one personal psychological support to the students. This is possible since the student strength is limited .
- Teaching sessions & guest lectures by industry experts to impart knowledge of latest trends and technologies
- Students are motivated to participate in events of other institutes for knowledge sharing and exposure
- Students are motivated to conduct departmental events & Tech Kaushalya where they invite students from other institutes. This helps to build leadership qualities and teamwork.

- Regular celebrations of Teacher's day, Environment day, Birthdays among teachers and students.
- Dept. provides extended support to other departments for IT related solutions / knowledge sharing related to IT
- Dept. provides extended support to other departments, UGC HRDC, KCG to impart digital literacy
- Dept. carried out ePG Pathshala project funded by MHRD to generate knowledge in the form of open access content. MOOCs in few subjects is being developed
- Transparency in internal exams by displaying of answer books
- Transparency in attendance with the help of e-Sampark portal
- Effective teacher-student communication for assignments, subject plan, etc with the help of e-Sampark portal.
- Library is regularly updated to incorporate new trends and technologies
- internal IMS for transparency and digital record keeping
- Emphasis on research for final year level students in M-Tech and in MCA
- Practical examination for most of the subject helps students to apply the theory knowledge
- Enough lab timing to practice practical and understand the practical concepts of a subject
- Provide informal consultancy to different Govt. organizations like AMC, Police, GMDC, INFLIBNET, KCG by developing projects for them. Thus, Dept. gives students opportunity to solve real life problems
- Use of ICT in teaching and learning. Digital learning as supplementary teaching aid as access to epG pathshala modules prepared by faculty of the department.

27. Department of Education

- Field Activity work with student
- Social activity to teach

- Student and elitraret person
- In hospital give some fruit and Nursing work
- Old age person we spent time and take blessing.

28. Department of Labour Welfare

- Emphasis on extensive practical field work component in addition to theory courses and industry academia interaction.
- Focusing on grooming and the presentation skills of the students for better final placements
- Student learning centric Teaching learning pedagogy includes participative methodologies like case studies, field visits etc.
- Counseling students for academic, placement and personal difficulties.
- Facilitating summer internship and final placement of the students.

29. Department of Life Science

- Instrumental and skill centric practical's were incorporated / promoted, motivated students for summer training at reputed industries.
- Industrials and research organization visit.
- Obtained training report from students in the form of assignments and presentations as seminars.

30. Department of Mathematics

- Teaching mathematics with a focus on number sense encourages students to become problem solvers in a wide variety of situations and to and view mathematics as a discipline where thinking is important.
- Whole-class discussion following individual and group work improves student achievement

- Teaching that incorporates students' intuitive solution methods can increase student learning, especially when combined with opportunities for student interaction and discussion.
- Giving students both an opportunity to discover and invent new knowledge and an opportunity to practice what they have learned improves student achievement.
- Focusing instruction on the meaningful development of important mathematical ideas increases student learning.
- National Mathematics Day is celebrated every year on 22nd December at the department.

31. Department of Philosophy

- At master level, one special paper in the form of dissertation is kept. It has provided to be a good exercises for an academic contemplation and academic writing.
- At post-graduate level, students prepare two seminars per semester as a part of their curriculum.
- For academic betterment, Quiz Competition is organized.
- Two Book reviews are done by each student per semester in addition to academic activities.
- Department organizes every year seminar on Sanskrutik Swaraj – Ek Darshanik Vishleshana.
- Department organizes every year Seminar and Exhibition on Glorious Path of Yoga.
- Faculties of Department are encouraging students to present a paper at National, International conferences held out of Gujarat and joining them all to the seminar.
- Students of the department are visiting the college where Philosophy subject is running and there they do Career Counseling for studying Philosophy.

- Department making students to do research on the Department's Core Area – Philosophy in Gujarat.
- Department helping students to get Fellowships and as a result two students get National Fellowship.
- Department's Research scholars maintain and manage the books the C.V. Raval Study Centre and they help other students to take advantage of the centre.

32. Department of Psychology

- Every year we organize various workshops on REBT (Rational Emotive Behavior Therapy), CBT (Cognitive Behavior Therapy), Rorschach Ink Blot Test (Projective test) etc. for the students of M.A., M. Phil., Ph. D. and P.G.D.C.P.
- One month internship at the Government Mental Hospital Ahmedabad for students of M.A.

33. Department of Sanskrit

- We use multiple evaluation tools to examine all possible skills and aspects of each student which makes the evaluation process more comprehensive and provide continuous support to the students to grow in multiple directions. We classify the students in to homogeneous groups depending upon the performance in the examinations and their learning abilities. Each group is guided and motivated by the teachers personally and through remedial classes. Learning possess is made interesting by conducting group discussions, seminars, projects and fieldwork. For making learning process result orientated, students feedback is obtained after each session. We motivate students to continuously improve their performance in the classroom and the examination.

- Department has ongoing activity named as “SANKHYADEEP”. It is an academic, social and cultural forum as per the guidance of the faculties for the benefits of the students. Under this forum department arranges Study tours, visit to Educational and Research Institutions, visits to Industries, organizing lectures of eminent experts on interdisciplinary subjects. Under this forum we invite motivational speakers, experts of various disciplines and renowned persons as resource persons to develop creativity, self confidence, communication skills, and stress management skills decision making skills for total personality development of students. We also invite notable alumni of the department who are outstanding in their fields. They share their success stories with the students and guide them for their better carrier

34. Department of Library & Information Science

- ◆ Providing One Month Internship to Bachelor and Master level students in hi-tech libraries of Ahmedabad and nearby.
- ◆ Students are encouraged to develop at least one Information Product, so that analytical and critical thinking ability of student is enhanced, innovative ideas can generate and students are able to become an Infopreneur.

35. Department of Physics

Department is DST-FIST & DRS-SAP supported department.

Physics is a discipline where thinking and imagination are important to understand subject. Hence students are encouraged to take project of their choice as a part of M.Sc. Study.

Quiz Tests (4 in a Semester), Assignments (16 in a Semester), Viva-Voce are the regular practice for continuous evaluation of students. In addition to these, regular internal test for both theory and practical.

Teaching Physics & Electronics with a focus on NET / GSET and other competitive examinations and mentoring students for such examinations.

Motivation is provided to M. Sc. students to peruse M. Phil. & Ph. D. programmes. As a result, at present in the department we have 60+ students.

Research is also an integrated part of the department. Good quality publications, citations and h-index are reflecting our practice of research activities.

Research students are encouraged to participate in various conferences, seminars, workshops, etc. This gives visibility to students and in general to the department.

With the support of the University and GSA, department is organizing following state level competitions every year:

- (i) Best Research papers in Chemical Sciences, Mathematical Sciences, Life Sciences, and Physical Sciences
- (ii) Best teachers awards for UG and PG teachers in Chemical Sciences, Mathematical Sciences, Life Sciences, Pharmaceutical & Medical Sciences and Physical Sciences
- (iii) Best teachers awards for School Science & Mathematics teachers in Class V-VIII and Class IX-XII
- (iv) Best Ph.D. Thesis awards for Chemical Sciences, Mathematical Sciences, Life Sciences, Pharmaceutical & Medical Sciences, Pharmaceutical & Medical Sciences and Physical Sciences
- (v) Nobel Prize Power Point Presentation Competition

With the support of the University and GSA, department is organizing following state level competitions every year:

- (i) Science Communicator Award
- (ii) Best Ph.D. Thesis awards for Space Science & Technology
- (iii) Best Ph.D. Thesis awards for Geology

36. Department of Statistics

1. We use multiple evaluation tools to examine all possible skills and aspects of each students which makes the evaluation process more comprehensive and provide continuous support to the students to grow in multiple directions. We classify the students in to homogeneous groups depending upon the performance in the examinations and their learning abilities. Each group is guided and motivated by the teachers personally and through remedial classes. Learning possess is made interesting by conducting group discussions, seminars, projects and fieldwork. We motivate students to continuously improve their performance in the classroom and the examination.
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3. Department has registered an association of the teachers and students of Gujarat passed out with statistics subject named as “Gujarat Statistical Association” in the year 1969, registration number: E2502, Ahmedabad. Under this we promote study, teaching and research in the subject statistics in theoretical and applied fields and provides a platform to academicians, researchers, and professionals to share their views and experiences. The

association is also publishing two research journals (i) Gujarat Statistical Review (GSR) (ii) Sankhya Vignan for the benefits of the teachers and students.

37. B. K. School of Business Management

- Institute has setup an IIIC cell with an objective to establish strong industry connects, conduct workshops; such as MDP, FDPs with collaboration with industry and provide suggestions for process improvement as well as curriculum improvement
- Institute follows an outcome base education by developing course plans with objectives and outcomes. Curriculum gaps are plugged through design based experiments, additional courses (management academy having 12 PG diploma programs) other than the curriculum and evaluated systematically through different assessment tools.
- The institute has launched Alumni Portal to connect with the alumni and utilize their services, like Guest Lectures, Internship opportunities, placements, etc.,
- Institute organizes “Campus to Corporate” – 1 week program for students, regular training & placement is imparted in the area of communication skill and aptitude to the students to make them employable
- MBA is the only program in whole university where students are encouraged to pursue internships / (SIP) during the vacations and acquire necessary problem solving skills.
- Institute organizes INYS, Quest- Student Research Convention, Renaissance, Tedx regularly, The institute regularly encourages the students to compete in external competitions like tech fests, paper presentations and idea and innovation contests and so on.
- Unique teaching learning pedagogy - To develop the conceptual skills, to identify & formulate and solve problems innovatively, students undertakes Case Studies and Simulation Exercises. Case analysis develops decision

making skills under simulated conditions and highlights the fact that the real situations are more complex than what the students learn in theory class viz. Debate / Role Play / Business Games / Aptitude & Tech. Skill Dev. / Soft Skills Development / Value Aided Courses / Concept Classes / Workshops / Industrial Talk are the different teaching methods adopted by the institute

- The institute undertakes to publish all the Research Articles presented in the conferences in the form of Book Proceeding. The institute every year conducts 02 International conferences (INYS and Maritime conference)
- Students' feedback about teachers' performance and follow-on action implemented
- Awareness workshop on human value and professional ethics are frequently held.
- Ragging is an undesirable social offence which is totally banned in the campus.
- At our institute, both at the Post graduate level and at Ph. D level, faculty members, soon after completion of project work, insist students to publish their research work as well as their own research work in reputed indexed journals.
- The college engages industrial visits to acquaint the students with practical knowledge every year
- The college takes sports and cultural programme to provide an exposure and boost the hidden talents of the students
- As per the directives of hon'ble Prime Minister of India, college conducted the Abhiyan to make awareness of cleanliness among the students (Swachh Bharat Abhiyaan)
- French class in Maritime management - To make the students job ready
- With a view to promote curriculum and extra-curriculum activities the Institute has various clubs like movie club, finance club etc.
- Sectorial PG Program like Health Care Management, Material Management, Banking and Insurance etc. are introduced.

- Development of MOOC, E-learning by faculty members
- To involve students in research in the early stage of career and for Culture of research and inculcating a habit of quest for excellence amongst the students R & D cell was established. R & D cell publishes “Research Digest”- Newsletter every year and published one ISBN book with students’ research reports every year.

38. Department of Microbiology

The best practices of our Department focus on those aspects of development of students which evolve from classroom teaching competence, laboratory fundamentals and applications. Different aspects of student aptitudes are identified and strengthened so that they become successful professional in life. Besides, the focus on overall development of personality is targeted. Sensitization towards environment, pollution control, society growth, awareness and compassion is focused by different ways.

- An Add on program for M.Sc. final year students called SKILL (Scientific Knowledge and Intelligent Laboratory practices) has been initiated by the Department of Microbiology and Biotechnology since January 2018. This is as per the suggestions given by NAAC and engages hours up to 30 with two credits are being offered.
- FDP (Faculty Development Program) of five days has been initiated by the Department of Microbiology and Biotechnology. Faculty of different colleges and universities can also attend a one-day or two-day specialized training program.
- Newly registered students (M.Sc., MPhil and Ph.D.) are encouraged to plant a tree with a request to nurture it for two years.
- Students and teachers are requested to allot one hour per week for cleanliness campaign.

- Students are directed to undertake internal beautification of the Department for example, Murals, wall decorations, models and charts.
- The department strongly focuses on Environment and sustainable societal development. Topics selected for dissertations include development of bacterial biofertilizers, bioremediations and biotechnological solutions, fungal cellulose degradations, dye degradations using consortia, e waste solutions etc.
- The department has initiated a student society- MiBit. (Microbiology Biotechnology Society) to help the students in co curricular and extracurricular growth.
- Industrial Academia interactions are promoted by inviting experts for talks.
- The Department has started a ECO club and helps in collection of data to assess and predict climate change.
- Industrial visits are organized. Students are encouraged to complete dissertation at different industrial labs and manufacturing units.
- Birth anniversary of renowned scientists are celebrated .198 birth anniversary of Louis Pasteur was celebrated on 27 Dec.
- Thalassemia – awareness and testing was organized in collaboration with Green Cross.
- Annual day celebrations to show case student talent is organized.
- The Department has a Smart Classroom which empowers the students with e learning. Also, biographies, case studies are shown in this multimedia room.
- Extension activities – pulse day celebration is held, where dieticians are invited to talk about role of pulses and collection and distribution of pulses is done at Kanya Blind School.

Students are encouraged to participate in all community services activities, sports day etc as organized by Gujarat University.

39. Department of Sociology

Sociology Department of Gujarat University was established in 1954. The department was instrumental under the guidance of then Head and Professor Dr. Taraben Patel for conducting the survey of Other Backward Classes in the State of Gujarat. This tradition guided the faculty and students for new approaches and projects for overall development of the students of sociology and sociology at large. Our department has introduced a concept of **Class without Walls** (Sociology in practice) as part of semester 1 & 2 curriculum. This course paper is fieldwork based and has some theoretical aspects. Students are not supposed to study in the classroom but they have to interact with common people. There are some glaring examples about this course.

- **Class without Walls** : Generally in India and particularly in Gujarat, women are not allowed to participate in a funeral due to traditional beliefs. We at department wanted to change the mindset of the parents as well as the students. During last five years, we organized Sociology Class in one of the Ahmadabad's Crematoriums. Our students also visited graveyards of Hindus and Muslims to understand funeral related traditions. One can see the impact of this experiment in development of more liberal attitudes of the girl students and their parents. As a part of class without walls course, students visited different NGO's, conducted surveys about contemporary social issues and interacted with marginal sections of society like HIV positive people, sex workers and sweepers.
- **Village Survey** : Rural Sociology is one of the important branches of sociology. Our students are city based and their rural exposure is limited in nature. To build a bridge between classroom and rural society, we started organizing one day village survey exercise since last 15 years. During this period, our students and faculty visited 11 villages which are 20 to 30 K.M. away from Ahmedabad. Household survey of this villages provided insight for field research as well as classification and analysis of quantitative data to students.

- **HIV AIDS Prevention Intervention** : Our department is among the first in India for introducing a course on Social Dimensions of HIV AIDS in India. Since 1998, faculty and students of the department participated for HIV / AIDS prevention activities among sex workers of Ahmedabad City. More than 25 students of the department are contributing as social workers in different NGO's of the state for HIV AIDS prevention projects. These projects are supported by NACO, New Delhi. Our department provided training and technical assistance to various NGO's of Gujarat State, India and Nepal for HIV / AIDS prevention.

40. Department of Law

University School of Law is one of the premier Institutions imparting P.G Degree in Law leading to LL.M of the state of Gujarat. Apart from the regular teaching school has following some of the best practices for quality education along with maintaining healthy atmosphere with the students in the campus. The best practices, the School follows are:

- Regularly organizing conferences/Seminars/Workshop on the contemporary issues of Law.
- Invites eminent speakers in the field of Law.
- Convening regularly parents meetings.
- Addressing grievances of students.
- Organizing regular academic tours to different institutions related law.
- Discussion of the Land mark judgments through Play way method.
- Inculcating social responsibility amongst the students.

41. Department of Geography

Survey and Field Visits : Surveys and Field Based studies of the area help the students to interact with the people at micro level and understand the nexus

between people, resources and the areas. This will help them to develop a practical based approach and understanding to address the area based problems such as natural disasters, resource crunches and social, cultural and economic deprivations.

Field based techniques such as Participatory Research Appraisal (PRA) help students to understand the dynamics of the demographic scenario and effective implementation of Government programmes.

Encouraging and Motivating the Students for a healthy competition through group discussion, e-quiz, e-presentation, e-assignment etc.:

The department conducts frequent group discussions, e-quiz, e-presentation and e-assignment to encourage and motivate the students for healthy competition and to appear for the competitive exams and civil services examination. Such efforts provide constant encouragement to students to appear for UGC NET, SLET, GPSC, UPSC examination etc. It improves their general knowledge.

42. Department of History

The department of History, Gujarat University, Ahmedabad practices myriads of curricular, social, cultural and academic utilitarian practices. Following are the two best practices of History.

New practices in the Domain of Innovative and Creative Research

The accompaniment of exploring innovative and problem-solution-oriented contextual areas of historical research by professional practicing historians from the inception of academic journey of the department of history, Gujarat University, Ahmedabad is reflected in multi-pronged research activities of its faculties. The premium priority of research choice in the domain of contemporaneously emerging innovative and creative areas of history had been made by the faculties of 1970s and 1980s. Business history, entrepreneurial history, urban history and peasant studies, therefore, commendably explored

with penetrative societal impacts. This historical research legacies and traditions transferred and transmitted to the present professional historians of the department in the 1990s. It is the academic responsibility of the present faculties to further carry this historical research tradition, intensify and diversify it by incorporating applied areas of research into its broad horizon. The research scholars have embarked on exploring maritime medical and medical histories, tribal medicine, disease, epidemic and microbial history, medical geology, history of proto-globalization, maritime environmental and environmental history, environmental geology, tribal history, etc. The faculties have published commendable research works on these areas of applied historical research from reputed publication houses of the world.

New practices in Frequent Syllabi revision and restructuring

Regular revision and restructuring of post graduate history syllabus for the suitability to the present social and natural environments is an innate goal of the history department. Social and natural problems are rooted in history. Historical solutions are largely non-reactive or least reactive, hence worth adaptive. Learning from history produce ideal solution to social and natural problems. It is because history repeats itself. Following lesson is always guiding tower while revising and restructuring history syllabus at post graduate and M. Phil. Level. Recently, post graduate history syllabus has been restructured and new problem-solution-oriented courses like History of Science and Technology, Maritime India, Environmental History, Ahmedabad as Heritage City, etc. have been introduced.

43. Department of Persian & Urdu

Our Department organized 'Urdu Day' on 9 sept, 2017 on the occasion of birthday of great poet of Urdu Dr. Allama Iqbal. All the students were present on this celebration. In this program we discussed about the importance of

Urdu and its origin. Some good scholars of Urdu participated in this program. There were many Urdu Lovers present here, many professors from different colleges and also number of students from different colleges were present as audience.

44. Department of Political Science

The Department of Political Science, Gujarat University is a dynamic community of faculties and students. We strive to study and impart traditional sub-areas of Political Science with innovative methods like group discussions, focus group, field studies apart from traditional classroom teaching.

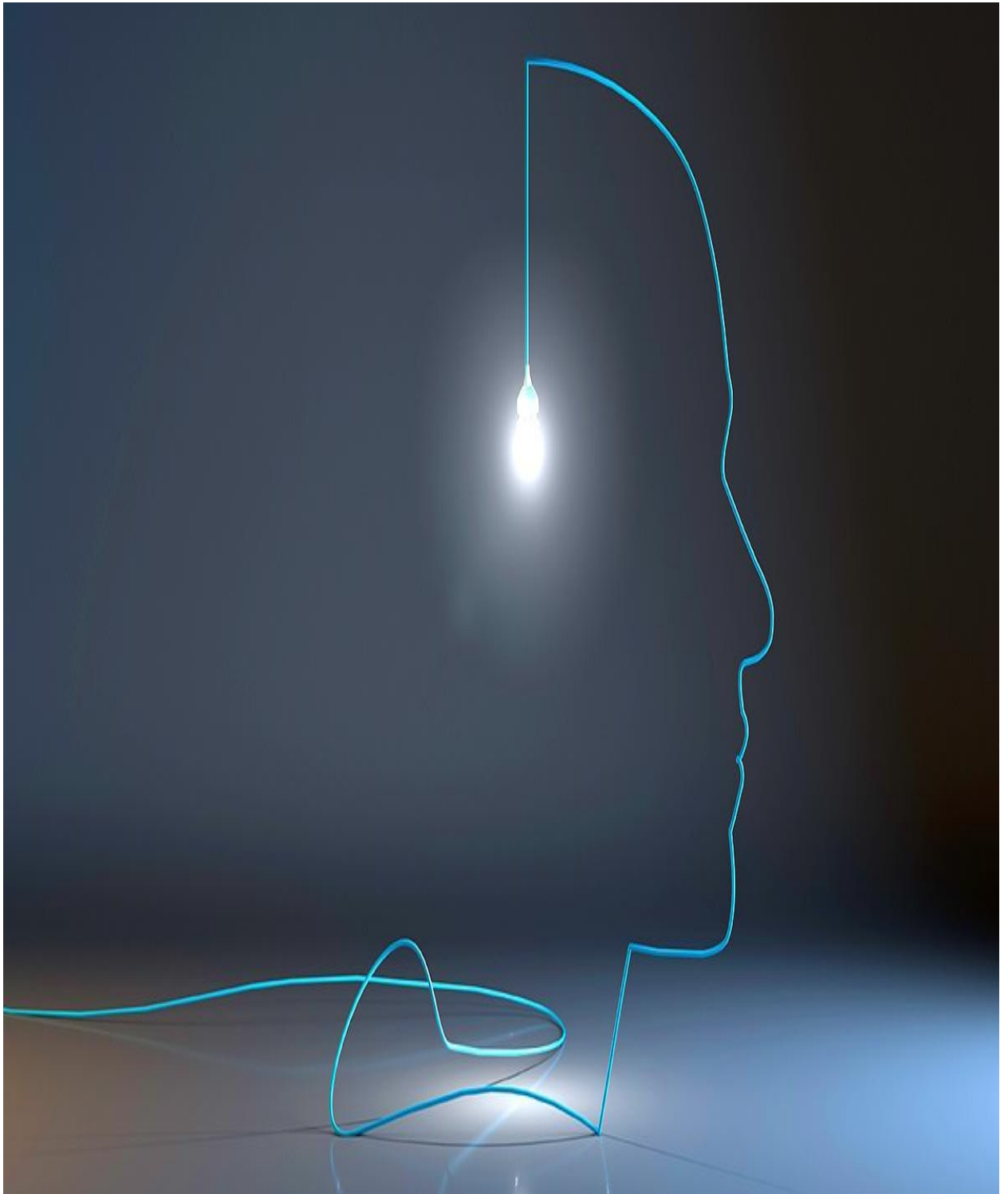
The Department of Political Science, Gujarat University runs a “book club” and “News Paper Club”. The students of the department share their books and discussions are arranged. The News Paper Club discusses daily political news in supervision of departmental faculties.

45. Department of Economics

Teaching is a governing factor in the process of learning. Teacher is an educator, role model and identification for the students. Good teaching practice has substantial, sustained and positive influence on the thoughts and acts of the students. In the Department of Economics, we continuously strive to provide the best learning experience to our students. Our mission is to identify the Department as a Center for Teaching Excellence and for that we continue to improve our teaching practices. Towards this end we create a positive and safe learning environment; encourage good communication between the teachers and students; provides opportunities for active participation of students by way of interactive teaching; pursue teaching and learning as scholarly activities; infuse a desire in students for life-long learning; provide timely and appropriate response and feedback on the teaching assignments;

and bridge the language and cultural barriers among the students by adopting a balanced approach.

Unique & Innovative Practices



Gujarat University Startup and Entrepreneurship Council (GUSEC)

1. Gujarat University Startup and Entrepreneurship Council (GUSEC) have been recognized a Nodal Institute (NI) for disbursing startup funds under the Scheme for assistance for Startups / Innovations of Government of Gujarat. Through this startup funding scheme, startups / innovators can avail a funding assistance of up to Rs. 10 lakh for prototype development, up to Rs. 10 lakh for marketing assistance, and a sustenance allowance of Rs. 10,000 per month for up to 12 months. To apply for assistance under the scheme, startups / innovators should apply using the www.startupgujarat.in online portal by creating a user, and selecting 'Gujarat University Startup and Entrepreneurship Council (GUSEC)' in the 'Nodal Institute' field of the Application Form.

1. Eligibility Criteria for Startup Gujarat Grant
2. To apply for Startup Gujarat Grant

SSIP Grant: GUSEC Surge, more broadly, 'Startup Urge', is a resource-access program for innovative ideas and early-stage startups. Surge encompasses all type of resources an early-stage startup founder requires from validators to mentors to prototyping funding to take their startup to the next stage. Surge focuses on enabling startups to create a minimum viable product which could be tested in markets and could contribute to a more robust pilot product for the startup. Surge gives access to a grant funding in form of resources of up to INR 2 lakhs for startups which they could leverage to build MVPs and prototypes. The fund is focused to achieve a fast-track for startups and to put them on the path of early traction through which they are set to scale. Currently, Surge is funded through the grant received by

GUSEC under the Student Startup & Innovation Policy of Government of Gujarat. To apply for SSIP grant.

GUSEC Jump Start: It is an early - stage pre - seed fund created to enable incubated startups of GUSEC to source a grant of Rs. 40,000 to prove their concepts. Two iterations of Jump Start, first in 2016 and next in 2017, have together funded 37 early-stage startups through a collaborative fund sourced from the Gujarat Corporate Social Responsibility Authority (GCSRA). Some of GUSEC's most promising startups such as Chaaipani, Alagrand, BEMRR, We Hear, ieacon, etc. have been funded under the Jump Start program. To apply, kindly fill up the incubation form.

2. **Patent & Trademark support:** GUSEC provides patent and trademark support through an IP Cell which is a facilitator for supporting IP-related matters of students, faculty and startups supported by Gujarat University. Any student or faculty can file a patent and get a reimbursement of up to the full expense borne for filing the patent, as per prior approvals accorded by the aforementioned IP Cell. To apply for Patent or Trademark support.

3. **Co-working space**

- a. A 200 - seater, air-conditioned co-working space spread across 12,000 square feet area with well-lit ambiance and ample of space for meetings and collaborations. The space is open every day, including weekends, and features different type of seating's. Surrounded by common university lawns, botanical gardens, GUSEC is also perfect for those outdoor meetings you always wanted to do.
- b. GUSEC startups avail unlimited, unrestricted super - fast internet, and by fast we mean really fast. A 1 GBPS leased - line over the National Knowledge Network ensures entrepreneurs and innovators at

GUSEC are always connected to the world through blazing fast Wi-Fi and LAN connectivity.

- c. CCD coffee machine for the teams to offer to their clients or share among the team during the meetings.
- d. Common resources including Refrigerator, Microwave oven, Medical Kit, Common Stationary, Printing service etc. for daily use.

4. Infrastructural Support

- a. Auditoriums, conference halls and classrooms: Startups can get access to all auditoriums, conference halls and classrooms in the university campus for meetings, events and get - together, at low - or no - cost. Over 10 auditoriums and conference halls of different sizes, and over 100 classrooms are available on request.
- b. Specialized laboratories: Over 40 laboratories across a spectrum of specializations, from computer science to physics to climate change to forensic science, startups have full access to all such labs across all academic departments of the university.
- c. Multimedia research centre: Startups also can take benefit of the UGC -sponsored Electronic Multimedia and Research Centre (EMMRC) in the university campus that is equipped with state - of - the - art audio - video recording studio and necessary equipment for producing industry - grade audio - visual content including your product videos, crowd funding sequences, etc.

5. University Library: The Gujarat University Library houses over 3.5 lakh books, and provides access to over 1.6 lakh eBooks. All facilities available at the university library are extended to incubated startups upon request.

6. Software access to incubated startups:

- a. Grammarly : For proofreading and correcting your copy.

- b. Adobe Creative Cloud : The entire Adobe Creative Cloud suite.
 - c. Envato Elements : Stock photos, templates and fonts.
 - d. Statista : Market research and business intelligence.
 - e. Moqups : Create great wireframes, mockups, diagrams and prototypes.
 - f. Animaker : Creating great branding and marketing videos on the fly.
 - g. Biteable : For the best explainer videos of your startup.
 - h. Apple Sketch : Use it for UI, mobile, web and even icon design.
 - i. Bizplan : Create effective business plans and pitches.
 - j. Canva : Create graphics, better!
 - k. Udemy Enterprise : Access to all of Udemy courses, for free.
7. **University Sports Complex:** Startups have access to the state - of - the - art sports facilities available at the sports complex within the university premises for necessary leisure and recreation
8. **Mentorship:** Incubated startups also have access to GUSEC Mentor Board, a board of external subject experts from a wide array of industry verticals and specializations, for mentorship and guidance. GUSEC is under the process of forging relations with investors and other funding agencies to provide tangible funding support to incubated startups.
9. **Associations:** GUSEC has partnered with prominent organizations to avail their service / products at low or no cost for incubated startups.
- a. **Amazon Web Service (AWS) Cloud Credits :** Startups at GUSEC can avail \$1,000 in AWS credits valid for 1 year starting from the incubation date. Premium AWS Business Support for 2 Months, Free access to the AWS Essentials 1 day web-based (normally ~\$600/course), plus 8 tokens for self-paced labs (normally ~\$30/lab).
 - b. **Google Cloud and G Suite Credits :** Startups can also avail \$20,000 in Cloud and Firebase credit from Google Cloud, along with up to 10 free users on G Suite for 12 months.

- c. **Digital Ocean Cloud Credits** : Startups can avail \$500 one-year credit for 12 months, free technical training, mentorship, priority support, and an opportunity to connect with other startups, accelerators, and investors.
- d. **Msg91** : Startups can avail a benefit of 25K SMS credits per month (40,000 SMS credits per month to those startups who have raised funds) for 6 months, courtesy of Msg91.
- e. **edu.in email** : Startups incubated at GUSEC shall also be eligible for an edu.in email addresses which accompany unlimited Google Drive storage on the account.
- f. **Intercom** : Intercom standard version for only US\$49 per month, for GUSEC startups.
- g. **Hub Spot** : All GUSEC startups are also eligible for the Hub Spot startup program, with 90% discount for Seed Stage startups on all Hub Spot software.

10. List of publications available at GUSEC:

- a. Dailies
 - i. The Times of India
 - ii. The Indian Express
 - iii. Economic Times
 - iv. Mint
- b. Periodicals
 - i. Harvard Business Review
 - ii. The Economist
 - iii. National Geographic
 - iv. Outlook
 - v. Auto car
 - vi. India Today

Programs:

- **Activate** : GUSEC Activate is a student engagement program structured to promote entrepreneurship and innovation across the Gujarat University ecosystem. The program drives various entrepreneurship-oriented sessions like inspirational talks, workshops, etc. giving students enough exposure to start-up as well as access to various opportunities to work on their ideas as well as inspire others to do the same. The Activate program not only works in the direction of idea enablement but also drives idea generation across colleges by motivating students to work on problems around them. Activate is a platform for young entrepreneurs to bring their ideas on the table, have them validated; and later be driven to a path of a full- fledged startup. It's designed to be focused growth model in universities where students would work on identifying and solving real-world problems.
- **GUSEC Trigger:** Under the Trigger initiative, it is targeted to sensitize at least 2000 faculty members of Gujarat University by the end of 2018, and all faculty members by the end of 2019, regarding necessary understanding around entrepreneurship and innovation. It is further proposed to provide comprehensive training to at least 500 GUSEC Institute Faculty Coordinators by the end 2018. The Trigger initiative is a comprehensive framework to involve faculty members as a key stakeholder in the startup and innovation movement of the University and the initiative plays a key role in trickling down major initiatives proposed under this policy.
- **GUSEC Liftoff:** Liftoff is a program curate to enhance the on boarding process of startups at GUSEC in a structured way. It is composed of an array of sessions, boot camps, and workshops, which are focused to grow the analytical as well as creative thinking skills of the startups. Liftoff encompasses the following:

- Design Thinking - Design thinking is an iterative process structured to allow innovators, and entrepreneurs to understand the user, challenge their own assumptions, and redefine problems, in an attempt to identify alternative strategies, and solutions that may not be instantly apparent.
- Ideation & Validation - The process of ideation and validation, delivered through expert sessions, and internal reviews, focuses on sharpening the ideas, using the inputs obtained from design thinking, and market responses, post which, the startups put their minimum - viable - product into market.
- S - Grills - S - Grills are focused on involving external scrutiny for startups, along with enabling GUSEC to analyze the progress of each startup. S -Grills encompass a process involving one - to - one startup - to - panel discussions, helping startups analyze, and strategies, their future product - plan and their journey forward.
- Lean Innovation - This module introduces startups to lean methodology for startups. A lean startup has a flat management structure, and makes use of its resources in a flexible manner. Such a startup trades long, rigid, and expensive development cycles for shorter, iterative ones that focus on three phases: build, measure and learn.
- Business Model Canvas - Business Model Canvas is a strategic management, and lean startup template for developing new, or documenting existing, business models. It is a visual chart with elements describing a firms, or product's, value proposition, infrastructure, customers, and finances. It assists firms in aligning their activities by illustrating potential trade - offs. Each startup prepares a respective business model canvas, which helps them constantly evaluate their progress.

- Legal - Each startup is allocated legal help from incorporation, to tax registrations, to compliances, in order to ensure that the legal structure of the startup is established well, since its start, and compliances are maintained.
- **Her START** : A boot camp based focused program for empowering women entrepreneurs through mentorship, training and funding.
- **GUSEC Industry Interexchange Impact Initiative (i4)** : The Industry Interexchange Impact Initiative (i4) is designed to bring industry at the doorsteps of startups supported by GUSEC and create a unique market access opportunity for startups and innovators. This is done through dialogues, specifically arranged to facilitate networking and garner feedback, as well as by organizing special sector-specific events. For instance, the first i4 event was a forum to connect education-focused startups to trustees and principals of over 40 schools of Gujarat.
- **Town Halls** - A hand holding sessions with innovators for building their ideas and helping them apply for the incubation.
- **Docknings** - An informal monthly get together of the incubated startups for discussing their achievements, milestones, challenges etc in order to help each other.

GUSEC in Numbers

- **Total Startups supported so far - 155**
- **Total Number of students sensitized about startups and entrepreneurship - 47K**
- **Total Number of jobs created - 290+**
- **Cumulative Revenue generated by startups - 2.8 Crores**
- **Total Number of startups funded - 47**
- **Total Number of product startups - 25**

APJ Abdul Kalam Research Park (CERI)

Gujarat University plans to introduce the second phase of CERI which will Host the followings Centres of Excellence for Research: Institute of Indic Studies, THIC (Technology and Heritage preservation Interpretation Centre), GU - PIER (the park for Industrial, Extension and Research), Institute of Industry Academia Collaboration, Research & Innovation, FAB LAB, Institute of Diaspora & International Studies, Centre for Post Doctoral Research (CPDR), Centre of Excellence Pharmacognosy, Plant breeding & Conservation, Centre of Excellence - Vector Borne Diseases Research, Centre of Excellence Toxicology, Centre of Excellence Anthropological Research, Centre of Excellence Forensic Pharmacology, Centre of Excellence Genetic Counselling, diagnosis and Genome analysis, Centre of Excellence Material Science & Nanotechnology, Centre of Excellence Advance Chemistry & Supramolecules, Living Laboratory

GUPIER

The Park for Industrial Extension and Research (PIER) i.e. the Research Park will adopt a sustainable model allowing industries to establish their Research and innovation units within the park at a cost subsidized through means of credits for involving with academicians and students.

Current Interfacing

- **Global agencies:** World Health Organization (WHO), UNICEF, Lemelson Foundation and Bill & Melinda Gates Foundation
- **Central agencies:** DSIR, DRDO, BIRAC, NITI and NEB
- **State agencies:** GPCB, GSBTM, Gujarat Police
- **Industry partners:** Google Inc., Face book, IBM, Wipro, Sun Pharma, Zydus, Troikaa, and Intas.
- **Long-term lease:** Select industry partners will be offered lease at the PIER for 3 - 10 years. Against the lease the partners will be required to pay a monthly

rent, alongside one-time fee, as according to the area occupied. The industry partners will need to follow a minimum academic interexchange (MAIX) credit accruing structure, which shall be annually reviewed, in order continue availing facilities at the PIER.

- **Selection of industry partners** : Collaborative partners shall be mutually selected upon the consent of the PIER management and the respective Industry partner. A competent committee comprising internal and external stakeholders of the PIER shall be entrusted with the responsibility of such partner selection and relevant approval.
- **Short-term lease** : Short - term lease shall be offered to small companies, startups and other beneficiaries. This lease shall be between 1 and 3 years, and the occupants shall only be required to pay a subsidized rent and adhere to an appropriate minimum academic interexchange (MAIX) credit accruing structure.

4. Technology Business Incubator (TBI)

GUSEC is awarded Technology Business Incubator (TBI) by Department Science and Technology, Government of India. Business incubation has been globally recognized as an important tool for economic development and job creation. National Science and Technology Entrepreneurship Development Board is supporting Technology Business Incubators primarily in and around academic and technical institutions to tap potential technology ideas and innovations for venture creation by effectively utilizing expertise and existing infrastructure already available with the host institution. Technology based new enterprises are typically characterized as high risk and high growth ventures, and as such, they require an enabling environment like TBI to enhance the prospects of success.