

# GTU INNOVATION COUNCIL

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Student Startup Support System (S4)	Gujarat Technological University, Ahmedabad	GTU Innovation Council (GIC)

## Report on 4<sup>th</sup> Innovation Sankul Day Celebration

**Date:** 14<sup>th</sup> February, 2015

**Time:** 05:00 pm to 09:00pm

**Venue:** Paryavaran Mandir, Ahmedabad.

GTU Innovation Council (GIC) is the 1<sup>st</sup> large scale innovation ecosystem trying continuously to bring the culture of innovation all across the university and its associated ecosystem during the past four years. This was the 4<sup>th</sup> consecutive year for recognizing the deserving candidates in the Award ceremony.

GTU Innovation Council celebrated the 4<sup>th</sup> GTU Innovation Sankul Day on 14<sup>th</sup> February 2015 in the eminent presence of Shri Babubhai Navalawala, Advisor to Chief Minister, Government of Gujarat, who was the Chief Guest on the occasion. Shri Swami Sarvasthanandji of Ram Krishna Mission, Rajkot and 'a very honorable member of the GTU family', according to Dr Akshai Aggarwal, was the Guest of Honor. More than 300 students, Faculty Members, Deans, Principals and other stakeholders joined the celebrations of the evening.

This year on the 4<sup>th</sup> Sankuls Day, GTU Innovation Council presented the 3<sup>rd</sup> **Pedagogical Innovation Awards** to recognize and appreciate the excellent work done by students, Faculty Members, Principals/Directors and other stakeholders in GTU. The 2<sup>nd</sup> **Students' Co-Creation Awards for Leadership and Excellence (i-SCALE)** to scout, recognize and award student-led initiatives in the fields of innovation, technology development, pedagogy, leadership, entrepreneurship and similar other endeavors were also presented. One more set of awards titled '**GIC Innovate to Impact (i2i) Awards**' were initiated this year. On this occasion GIC also honored stakeholders for their association and contribution to set milestones for GIC-GTU activities.

Shri J.C. Lilani, I/C Registrar of GTU gave the introductory speech on the efforts of the GTU Innovation Council and briefed about the various activities being conducted by the GTU and GIC in the context of the innovation and promotion of the same at University level by providing the platforms to the students

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through Research Week, Patentrack, Conferences, Techfest etc. Shri Lilani also briefed about awards categories and key parameters of the same.

Dr. Akshai Aggarwal, Hon'ble, Vice Chancellor of Gujarat Technological University (GTU) said that GTU Innovation Sankuls have played a major role for colleges by being in touch with the industries. The aim of the awards is to strengthen the linkage between colleges and industry, linkage between college to college and linkage between students and research. The awards are for students and their groups who have done something to help the society. GTU Innovation Council's first objective is to nurture creativity and innovation within the University community; it has been designed to act as a catalyst of change for the whole of the society. The Council targets to create a management system, which uses the existing structures and facilities by bringing them together for working for innovation.

He expressed the concern that engineering and technical education in India is not at par with developed countries. Policy and protocols do not make a university great, but the work in classrooms, laboratories and workshops play the most important role in it. It is the pursuit of excellence that makes GTU proud. GTU Innovation Council has set up 25 GTU Innovation Sankuls, which are regional communities of GTU educational institutions and the industries in the region. Dr. Aggarwal also praised the initiatives taken by the GTU Innovation Council during his speech.

Shri Babubhai Navalawala, Advisor to Chief Minister expressed his feelings in these words: It is very unfortunate that there are no structural changes visible in our education system since independence. So I used to be highly pessimistic about our education system. But after watching the awards ceremony, my heart is now full of hope and confidence. I can now see long lasting change. There is need of propagating the excellent work of GTU outside Gujarat State about what is happening in GTU. The University, the Faculty Members and the students here are having focused mind-set and clear objectives.

Swami Sarvasthanandji of Rajkot said that a German University is impressed by the innovation work done at GTU. Don't create people who seek jobs, but create people who will become job creators. He advised students to make all round efforts for innovation. Through innovations, students can be helpful to society and to the poor.

Dr. Akshai Aggarwal, Shri J.C. Lilani, Shri Babubhai Navalawala, Swami Sarvasthanandji and Mrs. Shakun Aggarwal appreciated awardees of the 4<sup>th</sup> Sankuls Day in all the three categories of the awards of PIA, i-SCALE and i2i. They also appreciated internal and external stakeholders of the University, including the Sankul Committee Members and the GIC students (Fellows and Associates) for their contribution towards the progress of the University.

Mr. Hiranmay Mahanta, Honorary Director of GTU Innovation Council said that GTU Innovation Council had received around 650 plus nominations from across the Gujarat state out of which 58 profiles nominations were selected for the award by experts. All the 58 selected nominations were awarded for the unique efforts made towards innovation in academia and industry. Mr. Mahanta also shared the information related to i-SCALE Awards and the concept behind introducing the GIC innovate to Impact (i2i) Awards. During the program GIC presented 30 Awards to PIA category Nominations, 13 teams

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across the Gujarat were presented with 2<sup>nd</sup> i-SCALE awards while 8 innovative projects were awarded 1<sup>st</sup> GIC i2i award against 300 plus received nominations.



(Dr. Akshai Aggarwal, Hon'ble VC, GTU, Shri J.C. Lilani, I/C Registrar, GTU, Shri Swami Sarvasthanandji, RKM, Rajkot sharing views on the occasion. )

Shri Babubhai Navalawala, advisor to CM, Gujarat and Council of Deans gave away a special award to Dr. Akshai Aggarwal, for his unique leadership and contribution to higher education of Gujarat. Mr. Hiranmay Mahanta, MD, Techpedia was awarded a special Gold Medal on behalf of GTU by Dr. Akshai Aggarwal, Hon'ble VC, GTU for his extraordinary voluntary contribution towards efforts of innovation and student entrepreneurship in the State of Gujarat.

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## List of Awardees for Pedagogical Innovation Awards (PIA)

Sr. No.	Nominee Name	Please briefly explain various innovation activities that you have promoted / or contributed to, in the past 2-3 years at your Department/Institute/Sankul etc.	Brief explanation about innovations you have introduced as the leader in your field for setting innovation culture (e.g. being a faculty, principal, director, administrator, Sankul Co-chair, Sankul director, Udisha Club/innovation Club coordinator, trustees, industry co-chairs, industry person, TPOs etc.)
1.	Bhasker Vijay Kumar Bhatt  (Sarvajanic College Of Engineering & Technology)	Attended and completed IPR seminars along with Design Thinking approach FDPs at GTU. He invited as an Expert Speaker by the Institute of Engineers (India) - South Gujarat Local Center with a theme on Design Thinking in Engineering.	Concept of Design Thinking to students of almost branches of SCET. For final year projects conducted seminar sessions for students of all branches at SCET and SNPITR&C, Umrahk. Seminar on Ideation in engineering and Design Engineering at SCET; at SNPIT R&C, Umrahk. Pivotal in organizing Project Showcase 2014 (in civil engineering branch). Expert trainer/ mentor during Four 3-day FDP organized by GTU for Design Engineering.  Unique efforts to promote Design Engineering program.
2.	Chitrlekha Nahar  (Saffrony Institute of Technology)	Advisor of an international competition 'SAEINDIA-Baja 2015' for which I had no experience earlier. Organized RC Aircraft training by Aerotrix of Skyfilabs – May and June 2014 for 4 days.	The mentioned activities / events initiatives will help in the holistic development of student which in turn will make student to be self-confident and can sustain in any personal and professional situations.  Unique efforts to promote Design Engineering program.
3.	Dr. Bhagwanjee Jha  (Dr. B.B.A. Government Polytechnic, Karad (DP))	Improvement in the labs via preparing files in the lab only. Improvement in the class rooms; to motivate students to make specific lecture note for each subject. Class room subject-wise log book for teaching planning and strategies making get possible and visualized by going through the log book.	Stress on serious thoughts on social, public related engineering problems, which can be studied by the students under guidance of a faculty. We have been able to clean grey water up to more than 90% and that too at low cost, by gravity process. Still, we are working on the treatment process, modifying it further for 100 % treatment.
4.	Dr. J. B. Rana  (Dr. B.B.A. Government Polytechnic, Karad (DP), Silvassa,)	Implemented a novel software based on-line students' attendance system since Jan 2015. This way, the new undergoing methodology has induced enhanced self-motivations in faculties for timely completion of syllabus, and students towards more learning accountability, dutifulness and result oriented studies.	Provided UT administration sponsored free laptop to students of 2013-14. OSTC workshops, organized in the institute, recognized as Nodal center in Valsad sankul. Conceptualization and designing of state-of-art workshop for mechanical engineering department were carried out and submitted to the PWD for construction, which was completed last year.

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5.	Dr. Kaushal Bhupendrabhai Parikh  (Government Engineering College, Dahod)	A special effort for research in the civil engineering specifically for the restoration technique using the glass fiber polymer sheet was made. More than 40 ALVCOM lectures were delivered at the BISAC without disturbing the duties at the institute to explain the fundamentals related to the civil engineering and this process is also in the continuation.	To provide the design guidelines for the specific research work, extensive experiments were performed. An analytical study using software and mathematical studies were carried out.
6.	Dr. Nirbhay Chaubey  (ISTAR, Vallabh Vidyanagar)	Established a Special Interests Research Group of Ad Hoc Networking, ISTAR and conducted 2 National Workshop. Contributed in design of MCA, GTU Syllabus, some of them are Fundamental of Network, Advance Networking, Data Structure and Sensor Network etc.	Organized many Programming Contest/ Workshop/ Seminar/ Conferences/ Quiz etc. at State and National and International Level for benefits of Students and Faculty Members across India. Being as a Placement Co-coordinator, helped our MCA students to get their project work and placement in reputed IT companies.
7.	Dr. Rupesh Vasani (SAL Institute of Technology & Engineering Research)	SAL Institute of Technology & Engineering Research has been ranked on the 5th Position as Emerging Institute of India by Times of India in the year 2014. Our Approach to Deploy Six Sigma in our education. Encouraging and facilitating students to do projects for specific organizations (e.g. Flow Tech Valves, Indo Air compressors, Pixel Technologies) leading to the use of completed projects to be used by the organizations for a larger social cause. Awarding the 'best student project' to one student in each branch in the subsequent Alumni Meet.	The students are guided for their projects & filed 110 patents in a single day & broke Limca Books of Records as well as World Record India, 2013. List of 110 projects are given below. It includes International projects with 8 projects in which grants have been already received by the government Officials & are awarded with medal & trophy by GTU, AICTE, E- India Summit, 2013, World Education Summit 2013 & various other organizations.
8.	Dr. Samir B. Patel  (Grow More Faculty of Engineering)	Complete Administration System has been made online using GOOGLE APPS (OPEN SOURCE); Online Course Portal has been created for all the students of Degree Engineering and Diploma Engineering. All Semester subject course files of Degree and Diploma are available to students on single click. It can also be viewed on their mobile devices.	The link for access to GMFE and GMFDE portal is : <a href="https://sites.google.com/a/growmore.ac.in/course-files-degree-engineering/">https://sites.google.com/a/growmore.ac.in/course-files-degree-engineering/</a>
9.	Dr. Sapna Desai  (Pioneer Pharmacy)	"ANAEMIC SURVEY", The Survey was organized on Saturday 27th feb 2014 at Sikandarpura Primary School, Ajwa Road (Vadodara) with the Co-coordinator and	As a faculty, I have organized various innovative programs for the awareness of people. "ANAEMIC SURVEY", creating awareness on food poisoning & adolescence, entertaining, encouraging & inspiring the

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	Degree College, Vadodara)	27 enthusiastic members of GIC creating awareness on food poisoning & adolescence, place - Bal Gokulum, Vadodara, date - 19th April 2014, entertaining, encouraging & inspiring the Gokulum's poor children.	Gokulum's poor children, creating awareness on malaria & drug addiction.
10.	Dr. Sohil D. Pandya  (SVIT, Vasad)	Pedagogical Innovation Promoted in the subject of MCA by motivating and promoting students to develop Android App and deploying them to Google Play Store.	Motivating students to become entrepreneur in collaboration with S4.
11.	Dr. V M Patel, (Shankersinh Vaghela Babu Institute of Technology)	At our campus, we have initiated the Soft skill club, WMTC club, OSTC club, Robotics club to consolidate the innovation at our place.	Further, we have started GTU Innovation Council in which I have promoted the activities of introducing Moodle (Virtual Notice Board) and its usage for students, Academic Pedagogical Meeting. To promote the extra-curricular environment, we have promoted TeKVIDEN (A State Level Technical Symposium) and ERP has been actively observed, having frequent meetings with parents.
12.	Dr. Vipul M. Vekariya  (Noble Group of Institutions, Junagadh)	NobTech-2015, a Project Exhibition has been proved as an opportunity for the students of Engineering, Pharmacy and Management domain to display their innovative and creative ideas. Open Source Technology Club is established in Noble Group of Institutions (NGI). It avails the initiative of Spoken Tutorial Project-IIT Bombay.	ORACLE ACADEMY: To arrange interactive sessions with industry experts INTERNATIONAL STUDENTS EXCHANGE PROGRAM: Students learn the international course from Laurentian University, Ontario which helps them to cultivate many new technological aspects.
13.	Dr. Ashit S. Pandya  (Government Polytechnic-Rajkot)	5 Research papers published in international journals during last year and till now around 20 papers published at various journals/conferences. In liaison with Rajkot Municipal corporation 30 cement benches were erected in the campus of the institute to transform campus aesthetically.	Executed around 11 MOUs with various industries during last to last Vibrant summit organized by Government of Gujarat. Rendering services as a Chairman of ISTE - Rajkot Chapter. FDP on MATLAB organized under ISTE.
14.	Dr. Capt. C.S. Sanghvi (LDCE)	He is the back-bone for the extracurricular activity in GTU	
15.	Dr. Mukeshkumar Gandalal Patel	Coordinator-Board of Sports, GTU Convener-State Cadet Corps syllabus – GTU Zonal Secretary-Board of Sports, Gandhinagar Zone, GTU Member of	As the Director of physical education, I created the following set-ups at my present place. I developed 'Department of physical education, sports and youth affairs' (sports complex) in SK PATEL CAMPUS, Visnagar.

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	(Sankalchand Patel College of Engineering, Visnagar)	Purchase committee-Sports, NSS, and cultural activities at GTU.	I have also served an important role in developing the syllabus of various physical education related elective subjects in BA,BCOM,BSC,MA,MCOM,MSC courses of HNGU-Patan.
16.	Hardik Patel  (Grow More Faculty of Engineering)	Open Source Technologies: I am promoting Open source technologies since last 2 years. When GTU was going to establish Open source technologies club (OSTC) at university i have also contributed in logo designing process of OSTC and promotion of GTU-OSTC.	Entrepreneurship: GMFE is running an entrepreneurship cell [e-cell]. As a Faculty I helped in the establishment of the E-cell and become part of it. To promote E-cell in campus we had organized "Bungah fest" in 2014 in which student came up with their own creative ideas and show cash their talent regarding business.
17.	Himanshu K Gajera (Om Engineering College, Junagadh)	We conducted many workshops about open source software that really need in industry, society or in research field like, latex, libreOffice, Pyhon, PHP, FreeCad, Scilab, etc.	We also implemented Moodle an open source education management system for smooth coordination between students and faculties. We took initiative to spread open source environment in Junagadh as well as colleges of Rajkot zone.
18.	Hitesh Kumar Purohit  (L. E. College, Morbi)	Technical Video Sessions and Robotics Workshops were conducted. As result, teams combined from different branches, took part in events across the states and come up with winning ranks in robotics. This culture was followed for next years.	Always a Civil Engineering projects were Group Activity. One Project for All. In addition to that Poster and Paper Presentations were the activities; students did of course with technical subjects in their own disciplines.
19.	Jayprakash Nagindas Jain  (BVM, Vallabh Vidyanagar)	We have arranged technical visits in power plant, small scale and medium scale and large scale industries like FINE CAST, ANUPAM INDUSTRIES, SWISS GLASS COAT, GMM LTD, ELECON ENGINEERING COMPANY and so on.	Students and others are infirmed about work and administrator culture and various project9 on going, past and about future. We gave thought to think, ideation, design, methodology, implementation, quality check, reliability.
20.	Mr. P. R. Kadiwar  (Om Engineering college)	As a part of creating technical awareness about engineering among society we organized A mega technical event "Manifest-14" at Hajiyani Baug (Municipality Ground) Junagadh during 28th to 30th march 2014.	We also promote different national level championship like NRC-14, ROBOZEST -14 in association with different IIT's for providing automation exposure to the students at national level.
21.	Prof. Rajvi Parikh  (GCET, VV Nagar)	I have started the workshop series for Design engineering subject	Design thinking workshop creates the environment that will enable students to think beyond boundaries.
22.	Prof. Amita Acharya  (L. J. Institute of	1) She had jointly conducted a massive skill gap analysis of total 535 BE and MCA students. The process was to screen all the students on a 5 point scale over 25	Interacting with all the students and taking them through the ABOVE process was an innovative idea of knowing the stuff before selling them.

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	Computer Applications)	parameters. Each student was given a detailed report which was actually a diagnosis for them. This improved the placements of the institute for that batch. Now this process is conducted every year for all the students interested for placements.	
23.	Prof. Kandarp M Joshi  (Shree Swami Atmanand Saraswati Institute of Technology, Surat)	For the final year students soft skill and aptitude development sessions are started. These students have total 40 hours programme on Friday and Saturday without disturbing regular teaching. Students have 2 hrs. in extra time for this activity. MOU with Industrial organization Surat Engineering Vikas Association (SEVA) for research and support quality management in SMEs.	1. JOB - Hard skill and Soft skill developments. 2. Higher study: Competitive exam and foreign study (especially Germany) and 3. Entrepreneurship - Skill require for become entrepreneur - also includes hard & soft skills.
24.	Prof. Mehul M. Baraiya  (Om Engineering College, Junagadh)	After the detailed analysis of the industrial requirements, we concluded that the syllabus which is offered by the university is not enough to place the students in the industries.	We are giving student training in Hi-tech Transpower Ltd, Synergy Transformers, Creating Castings Ltd., Austin Engineering Company Ltd., JBS Constructions, Water Shed, Mattest, Gujarat Housing Board, Su-Kem Infotech, Infinity infoway, Khel Online, Mu-tech lab, HD2 technology etc. through which we have reached at new heights in placement activities.
25.	Prof. Mitul K. Patel  (Shree Swami Atmanand Saraswati Institute of Technology)	As per the current trends in technology, open source technologies are the demand of students. I have organized various workshops on Linux, Libreoffice, JAVA, C & C++, Blender, Php-MySQL, Python, Netbeans, Scilab, etc.	Being OSTC Coordinator of my institute, I have conducted number of workshops on various open source technologies which are relevant in each branch of my institute. Being head of department of computer engineering department, I always encourage my students to go for open source technologies.
26.	Prof. Satyadev Vyas  (Ahmedabad Institute of Technology)	Have promoted Design Engineering in my Institute in all branches. I have about 25 years of Industry Research Experience, hence guided many projects and helping the Institute in contacting industry for project purpose.	In my branch, I have made sure 3rd Sem students understand what Design Engineering is. And even with shortage of time, most of students have done good work.
27.	Sunil A Bakhru  (BVM Engineering	Together ( I and Prof. J N jain) we have pioneered "Project Expos" experiment from June 2013, achieved good success and have made it a regular feature at	We have started Project Fairs at BVM. In every odd semester, we make our final year students display their Project Posters, and in the even semester, we make them display their working projects.



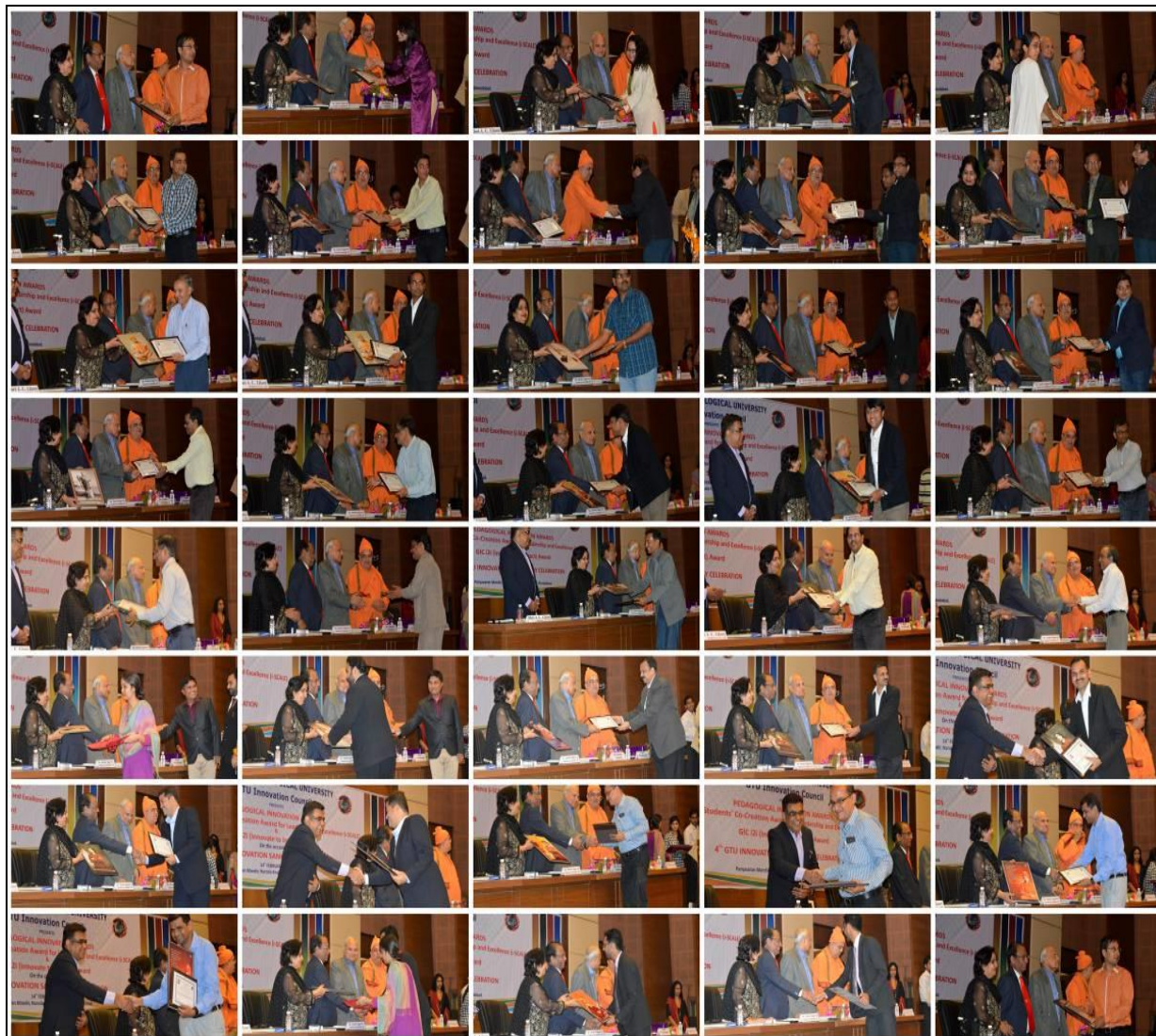
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	College)	BVM during each semester. In these project expositions, on a particular day in each semester, we make ALL the final year students of BVM, of all the disciplines, display their projects to the industries.	
28.	Vithalani Chandulal Harilal  (GEC, Rajkot)	Guided 5 UG Projects every year including Industry defined project.	Guiding 8 PhD students, Published 22 papers in Journal, conference and seminar. Develop laboratories under TEQIP
29.	Yusufzay Imran Khan Mh. Yusuf Khan  (Om Institute of Engineering & Technology, Junagadh)	I have by now presented two international and one national level paper in my respective subject. I have by now delivered more than 11 online lectures in GTU Active Learning Initiative taken up by GTU. I have coordinated 1st Live Panel Discussion in GTU Active Learning Initiative. The panel discussion was on Problems and Remedies of Teaching English in Technical Education and Methodologies of Teaching English.	I am making maximum use of Technology and Virtual Class Room. I use PPTs which I use for GTU Active Learning in my own class rooms too and I have seen drastic change in students by using this technique.
30.	Dr. Sachin P. Parikh  (V.V.P. Engg. College, Rajkot)	initiated industry institute interaction cell students' progress monitoring system initiated micro level analysis system of students attendance and mid semester result	initiated industry institute interaction cell students' progress monitoring system initiated micro level analysis system of students attendance and mid semester result
31.	Dr. Chirag Vibhakar  (V.V.P. Engg. College, Rajkot)	I have developed High Voltage Laboratory and providing modern state of art facilities at department level. Two of our staff members Prepare for Energy Audit examination under my guidance. I am working as a project guide of 2 groups at UG Level and as a guide of 3 PG Scholars. I have purchased Matlab and Mipower Software tool for developing simulation techniques of faculties and students.	I am working in this institute as a coordinator of Industry Institute Interaction Cell, in this cell we have signed MOUs with various industries in which students of pre final year undergo vocational training and get technical exposure in pre final year only. These training sessions are arranged on every Saturdays and Sundays so that teaching load is not disturbed. Last Year we have signed MOUs with 130 industries and in this current academic year we have signed MOUs with 135 industries.

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Awardees-Pedagogical Innovation Awards (PIA) receiving appreciation form dignitaries

**List of Awardees for Innovative Students' Co-Creation Awards for Leadership and Excellence  
(i-SCALE) Awards**

Sr. No.	Initiative Name	Abstract	Team Members	Guide Name
1.	Invention of Food Processing Machines and technology to help the society  (A.D Patel Institute of Technology)	We have invented 7 Food Processing machines which can produce different Food Processing items with preservation of quality and its nutrition at cheaper cost, A kind of social activity. We Fabricated all machines in college workshop by our own and won 10 NATIONAL LEVEL COMPETITIONS. Product has 3 Patents pending and completed CONSULTANCY in 09 Food Processing Industries which includes Windsor biscuits and Mirali agro products Chikh dara. We had won BEST DESIGN AWARD From SIEMENS. ( <a href="http://www.gtu.ac.in/ImpCircular/GTU_Student_Honors_Summary.pdf">http://www.gtu.ac.in/ImpCircular/GTU_Student_Honors_Summary.pdf</a> )	Monarch Shah Nikunj Machwan Nehir Soni Makhadamali Surpura	Dr. R.K Jain
2.	"SETU"-EK KADI (A.Y Dadabhai Technical Institute, Kosamba)	Social activity run under "SETU"-EK KADI, we full fill basic requirement of clothes of pre-village people. For this we collect clothes from people whose clothes are no more in use but it can be usable for other people. And distribute to them who are in need. We also collected spiritual articles from daily newspaper and forwarded it to Vridhhashram.	Paragkumar Akabari Keyur Bhuva Jignesh Solanki Ketan Kathiriyaa Denish Thummer	Mr. Pranav A Patel
3.	GT Motorsports – Formula Student team GTU (L.D College of Engineering, L.J Institute of Technology)	A high-performance engineering project that is extremely valued by universities and usually forms part of a degree-level project Viewed by the motorsport industry as the standard for engineering graduates to meet, transitioning them from university to the workplace. The kite-mark for real-world engineering experience. India has over 60 universities including IIT's & The NIT's with some Tier! Universities participating in such competitions. Unfortunately out of this huge number there was no team participation from Gujarat region, may it be lack of knowledge, unawareness of program, Lack of Funds, Lack of interested students, Lack of skillful workers etc. GT Motorsports is the 1 <sup>st</sup> of its kind Indian team to have students from various colleges working as one under the GTU leadership.	Devak Bhardwaj Manan Bhavsar Shubham Mangukiya	Mr. Mazar Shaikh
4.	Pharma Innovators	The Pharma Innovators (PIs) is the group of people who were dedicated to do anything to uplifting their field of work for the favor of society and for human wellbeing. It is the	Arihant Kumar Singh Ashutosh Tripathi	Dr. Sapna Desai

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	(Pioneer Pharmacy Degree College)	group enthusiast students who were having willingness to serve the society and nation by becoming experts in the field of medicine and healthcare. The 33 innovators made a health awareness education program among the people in which, the information regarding the treatment of these diseases was provided, here our audiences were Students of different schools, Poor children of Bal Gokulum, Grandfathers & Grandmothers of Old age home, Female villagers of Sikandaepura Village, Health conscious people and a common man.	Kasturi Malakar	
5.	The Entrepreneurship Cell (Gandhinagar Institute of Technology)	The Entrepreneurship Cell (S4 Extension Center of GIT) is the first student driven club of college and first S4 extension center of GTU which was setup with the aim to encourage innovative ideas, projects and promote student entrepreneurs from our college. Team members were responsible to spot innovative ideas, prototype or a working model, motivate and guide students towards entrepreneurship. Student got the opportunity to sharpen interpersonal skills as well as marketing and management. Impact at student level was great; we were able to sensitize the culture to more than 150 students directly by opening up membership model.	Shrey Shah Kaushik Akiwatkar Arhant Shah Raj Mehta Dhruvin Bhatt	Dr. N.M Bhatt
6.	e-swasthya  (Universal College of Engineering and Technology, M P University, L D College of Engineering)	It is India's first e-commerce in health and wellness product chain. These services are given at door step with discount and free home delivery. Initiated in Ahmedabad and is going to expand in other cities too.	Yash Shah Nidhi sureshkumar lad Punj surendrakumar vyas	
7.	Student Startup Support System Extension Centre  (SAL Institute of Technology & Engineering Research)	SAL Student Start-up Support System is an extension center of GTU Innovation Council's S4 Initiative. The Council targets to create a management system, which uses the existing structures and facilities by bringing them together for working for innovation. The council has decided to document every single success and to make the information available to all the stake-holders to develop self-confidence in the whole of the system. One key aim of this mission is to develop inter-relationship for national and international collaborations for innovation in the fields of Science, Engineering, Technology and Management. The Innovation	Kashyap Agravat Krunal Patel Kalp Bhatt Nelshi Patel Parth Patel	Dr. Rupesh Vasani

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		Council has started strategic steps to establish a close and continuing inter-action between the industries & businesses and the students & faculties in all the undergraduate and postgraduate courses and the faculty members in GTU.		
8.	Invincible  (L D College of Engineering, Silver Oak College of Engineering & Technology, L D College of Engineering, L J Institute of Engineering & Technology)	The NGO is a social initiative undertaken by young students to empower youth by bringing change in the fields of adventure, awareness, nature Education, value Education The objective is to provide adventures for youth. Make the youth sound by values and virtues. Spreading awareness of Nature Education, Heritage and Environmental Issues. PROJECTS UNDERTAKEN BY THE NGO: Project SPARSH, Project ADVANATURE, Project UDGHOSH	Rushiraj Mori Himani Chauhan Krupa Mehta Dhaval Senjaliya Kishan Pandya	Dr Pallav Desai
9.	Remarkin  (L D College of Engineering)	Remarkin is an e-learning portal to learn coding in an interactive, entertaining and engaging way. It provides an opportunity to users to learn coding with theory, practical and with easy user assessment. Remarkin working to change and bring a new era of e-learning experience. We are innovating user's learning style and relation with our online learning portal. In Remarkin, we have created a virtual character named "Alex", user's digital friend who teaches coding by chatting! He chats with users to provide messages as instructions to teach them coding, making it interesting and engaging.	Tarun Mangukiya Hemen Ashodia Arpan Rank Prakash Suthar	Yash Raithatha
10.	Youthemism  (Indus Institute of Technology & Engineering, St. Xaviers College, SAL Institute of technology and engineering)	Youthemism was founded on the vision "Igniting Young Minds to Innovate and Achieve their dreams". Youthemism is one of its kind companies in India, working on Youth Capital Development. We focus on 5 pillars of Youth Development. Leadership, Academics, Extra Curricular, Cognitive Brain Development and Skill Development. We work with trainers having corporate training experience of more than 15 years. NLP (Neuro Linguistic Programming), one of the least explored yet most important aspects of cognitive brain development is untouched in India and we deliver them to the youth through workshop modules at most minimal costs. We also work with various corporate to get data regarding employability requirement and we consecutively take action to make them more employable in	Antariksh Parikh Krishna Sutariya Nihar Bhagat Nisarg Shah Jay Devnani Aaditya Gandhi	Akash Mehta

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		every essence. Youthemism is not just a company, it's a philosophy.		
11.	Personality Development Cell  (Lukhdhirji Engineering College Morbi)	In a semi-urban setting featuring not-so-fine-tuned presentation skills, especially in technical domain, a need was felt to bring it to competitive level-field. On the land of pure antonymous sound of English, I with my team mates have initiated the endeavor for the cause of personality development among all the students of our college, by establishing a Personality Development Cell (PDC). It was observed from the historical data that Despite technical competence, many deserving candidates from the institute were found lacking and lagging in communication skills to present his/her ideas, resulting in below-par employment. So with the objective to bring the culture-shift from the view-point of presentation skills.  Since last year includes Expert Lectures by industry personnel/alumni/entrepreneurs, Expert faculty sessions, Aptitude sessions, Technical training and quizzing, extempore, group discussions, with active participation from UG students, career guidance sessions have been arranged.	Shubham Rathi Hannan Malik Hemang Bhatt Trilok Joshi Siddharth Sen Anish Sikarwar	Prof. Uday K Chhaya
12.	Students' Initiatives For Sustainable Career  (Parul Institute of Engineering & Technology)	Our Initiatives are divided into two categories: E-Club Activities and Entrepreneurship Club (EDC Cell). Students' Council Activities: Organizing academic & Extracurricular activities like Tech Fests, Cultural Fests, Guest Lectures, Workshops, Motivational Speaker sessions & Day Celebrations. The core motive of our club is to spread awareness about the intricacies of Entrepreneurship & Entrepreneurial Ecosystem among students and faculties of various fields like Engineering, Management, Computer Application, Diploma Studies, etc.  We took part in various activities like NEN, Tata First DOT and National Entrepreneurship Challenge which was being conducted by IIT Bombay. Inside our club we organized various entrepreneurial workshops, speaker sessions, innovative games & competitions to inspire budding entrepreneurs and support them by mentoring, consulting and providing necessary resources such as seed funding, network, etc.	Vivek Kumar Bangar Aman Batra Akash Parmar Shaily Mehta	Prof. Yash Chawla
13.	Scholar Student Success Oriented Team (S3OT)	In the group we have made team of 51 scholar students from different branches. Meaning of S3OT – (Scholar- who has the vision in their life, Student-the person who want to something in their life, Success-path of achievement goal,	Vasvelia Yash Pareshbhai Kotadiya Bakul Popatbhai	Prof. R J Padariya

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<p>(Om Engineering College, Junagadh)</p>	<p>Oriented-towards direction, Team-formation of the members) As a part of this team goals and objectives, Our team has initiated the Industrial-Parent Meet with the great technical efforts and guidance by the faculties and Principal. we are also doing the Saturday-Sunday Special training in substations and other industries like Hi-tech Transpower Ltd, Synergy Transformers, Om power Ltd, Creating Castings Ltd., Austin Engineering Company Ltd., JBS Constructions, Water Shed, Mattest, Gujarat Housing Board, Su-Kem Infotech, Infinity infoway, Khel Online, Mu-tech lab, HD2 technology which would be very much beneficial to us for getting job and improving out technical skills as per the industrial requirements.</p>	<p>Bhadja Hiten Sarvaiya Brijraj Dholakia Ridham K Nawaz Ghodi Robin Ranjan Maitreya Rana</p>	
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Awardees- Innovative Students' Co-Creation Awards for Leadership and Excellence (i-SCALE) receiving appreciation form dignitaries

**List of Awardees for GIC Innovate to Impact (i2i) Awards**

Sr. No.	Title of Innovation	Abstract	Innovator Team Members and Institute	Guide Name
1.	Jomon	We developed a system of a Bipedal humanoid robot which was able to replicate the human movements based on actual movements made by the controlling personnel. Instead of controlling the robot using Unnatural Buttons/Software etc. we decided to control the robot by the movement of the limbs & the angle which it made with other limbs, by using rotary pots. The main objective was to overcome the difficulties in controlling complex robots by giving them the exact movement which we want to be replicated on the other end.	Akash Paul, Pavan Ramchandani  (Vyavasai Vidhiya Prathisthan Engineering College, Rajkot)	No
2.	Optimization of real time data acquisition and control system for plasma heating experiment on Tokamak	The VME based Ion Cyclotron Resonance Heating (ICRH) Data Acquisition Control system (DAC) is commissioned for remote operation of heating experiment on SST1 Tokamak. ICRHDAC is physically distributed into two sections at RF Lab and SST1 hall. Apart from VME which having the real time server with different IO devices, it consists Linux terminal which has been connected via Ethernet network for experimental operation by user interface (UI). The application software with user interface has been responsible for synchronization of the different connected systems, parameters transmission and storage. Both DAC systems are running on master/slave configuration when synchronization mode operation is needed.	Rameshkumar Joshi  (Shantilal Shah Engineering College, Bhavnagar)	Manoj Singh Parihar
3.	Anti reflux raft forming chewable tablet of Dexamprazole	The purpose of this research work was to formulate anti reflux raft forming chewable tablets of Proton pump inhibitors using a raft forming agent along with antacid and gas generating agent. Various raft forming agents were used in preliminary screening. Tablets were prepared by wet granulation and evaluated for raft strength, acid neutralization capacity, weight variation, % drug content, thickness, hardness, friability, in vitro drug release. Raft strength was affected by the amount of different polymers, selection of different buffering agent. A Simple lattice design was used in present study for optimization. A Drug excipient compatibility study showed no interaction between drug and excipients. Stability study of optimized formulation showed that tablets were stable at accelerated environment condition.	Chothani Pritibahen Bipinbhai  (Matrushree V.B Manavar College of Pharmacy, Dumiyani)	Dr. H.M Tank



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4.	Synthesis and Evaluation of 2-substituted phenyl 4-chromone derivatives as a new class of antimalarial agent	Malaria is one of the most serious, complex, and refractory health problems facing humanity this century. Some 300-500 million of the world's people are infected by the disease, presenting over 120 million clinical cases annually. Due to rapid emergence of resistance against already available marketed drugs on Plasmodium falciparum, there has been a constant demand of the newer molecules with better efficacy and reduced resistance. In the present work, 2- substituted phenyl 4-chromones were designed by esoteric replacement of the quinolone ring present in ELQ-300, a compound under clinical trial with chromone ring. Two series of compounds were synthesized with diarylamine and diaryl ether side chain respectively. The compounds were synthesized by the designed synthetic scheme and characterized with TLC, melting point and spectral data. Docking analysis of the compounds was carried out with mitochondrial bc1 complex (PDB Code 3CX5) using GLIDE 4.5 (Schrodinger, Inc.). The compounds were evaluated for the in vitro antimalarial activity on Plasmodium falciparum using Chloroquine as reference drug.	Anumeha Katiyar Mr. Sunil Patel Mr. Prakarsh Buch (A.R College of Pharmacy & G.H Patel Institute of Pharmacy, Vallabh Vidyanagar)	Dr. Vipul M Vaghela
5.	Automated Agriculture Drip Tube Winding Mechanism	Generally, drip irrigation systems are used in agriculture for effective use of water. In this system the drip tube winding is done manually that is very time consuming, tedious and needs hard work. Also labours are very demanding and hardly found for this work. And it takes whole day or two for winding drip tube in one acre land. Our team suggested a very cheap and easy solution. We are developing automatic drip tube winding mechanism Using tractor and winding wheel without using electricity. Instead of 34 Labour, this can Be handled by only one person. Also it is a cheaper, very effective and less time Consuming solution for farmer which lasts long for a life time.	Rodheliya Ajay A Delvadiya Krunal G Bhetariya Ravi P Rangholiya Maulik T  (Saraswati College of Engineering and Technology)	Prof. Karmjitsinh Bihola
6.	Handicap Support Device	This is a vehicle designed for handicap person who have disability in their legs, This handicapped vehicle can be propelled by wiggling the front steering wheel which is attached to two pivoting wheels touching the ground. It harnesses the natural forces of inertia, centrifugal force, gravity, and friction in order to drive the car forward and backward. It does not require a power source such as batteries, fuel, pedals, or gears it simply runs on the Person's ability to wiggle the steering wheel. It can be operated indoors and/or outdoors, though it works best on a smooth, flat surface.	Vishrut Bhatt Sumanth Mudaliar Ashay Joshi Kushal Dave  (L. J. Polytechnic)	Harshul Brahma bhatt

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7.	Aashirwad A Three In One Stick for Old Aged people & Modification in Sugarcane Juice Machine	It is three in one multy purpose stick for old aged people. If person want to walk with the support with two hands then it can be possible by opening linkages connected to hinges. If we close the linkages then person can use it with one handle. So at that time, the same stick can be used as single stick. If person wants to seat if he tired, then by opening legs, it can be used as a chair.	Purvesh Jayeshbhai Dodia Bhagirathi Dodia Bhaumik Nayak Rutu Nayak  (Silver Oak College of Engineering & Technology)	----
8.	Straut Agua : Solar Hot Water Generator	The energy needs of Indian Industry are primarily supplied by coal and oil of which is related to electricity, but two thirds are related to heat. A large part of this heat is required in the form of hot water. The Industries currently use natural gas, coal or biomass as a fuel to heat air. A typical small industry consumes about 20 to 30 MMBTU per day for hot air. However the resulting emissions and increasing cost of fossil fuels are a grave concern. To address the problem of supplying industry with greener sources of hot air we have developed a product called STRAUT Agua, a solar hot water generator which is a fully developed, tested and ready to deploy. AERO has a specially designed Heat Collection element which makes it very efficient with water as a fluid. The successful working prototype is already operational. The maximum temperature of 90 C can be achieved by this solution, which covers all major process air heat application of industries.	Sharad Parekh  (Universal College of Engineering & Technology)	----

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Awardees- GIC Innovate to Impact (i2i) receiving appreciation form dignitaries

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## List of special Awardees-GTU Stakeholders

Sr. No.	Name	Designation	Area of Recognizance
1.	Prof. Naresh Jadeja	Deputy Director, GTU	Efforts in Automobile Engineering Research group in GTU
2.	Dr. Keyur Darji	Research Associate, Centre for Global Business Studies (CGBS), GTU	Contribution for strengthening CGBS
3.	Dr. N.M. Bhatt	Dean, GTU	Efforts in Design Engineering in GTU
4.	Dr. Yogesh Chauhan	Prof., GCET	GTU board of cultural activities
5.	Prof. Hardik Trivedi	A.P., SAL Technical Campus	GTU board of Cultural activities
6.	Prof. Jagruti Shah	Project Coordinator Vishwakarma Yojana, GTU	Vishwa Karma Yojana Project

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GTU Stake Holders receiving appreciation form dignitaries for their contribution at various University level activities

## List of Special Awardees-External Stakeholders of GTU

Sr. No.	Company	Name of Organization
1.	Ms. Krishna Joshi	Vyavasai Vidhiya Prathisthan Engineering College, Rajkot ( For her contribution towards pedagogic efforts at GTU Innovation Council)
2.	Prof. Bhavesh Parmar	L.D College of Engineering, Ahmedabad (( For his contribution towards pedagogic efforts at GTU Innovation Council)
3.	Mr. Pankaj Shah	Past President, Gujarat Electronics & Software Industries Association (GESIA) ( For his efforts toward industry academia linkages )
4.	Mr. Tejas Mehta	HeadStart Networks/ Start-up Saturday Program ( for his efforts towards making a student start-up ecosystem)

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5.	Prof. Mihir Shah	Professor of VGEC, Chandkheda, ( for his Contribution to CiC3 efforts at GTU Innovation Council )
6.	Mr. Sohil Patel	Co-Founder Printajoy, (for C-i-C3 activities contribution)
7.	Mr. Jatin Chaudhri	Co-founder and CEO, Point10 ( For helping to build student start-up network)
8.	Mr. Ateet Bajaj	Founder, Start51 ( for his unique efforts towards efforts of Crowd funding at GTU Innovation Council)
9.	Prof. Rohit Radhakrishnan	Silver Oak College of Engineering Technology, Ahmedabad ( For his efforts in Design Engineering initiative in GTU)
10.	Mr. Kumar Manish	Head, Strategic Communications at Centre for Green Mobility and Communications Consultant ( for his support to CFI at GTU IC)
11.	Mr. Haren Shah	Sankul Co-Chair, Chairman, Peach Technovations Private Limited, Gandhinagar ( For his persistent efforts to S4, student entrepreneurship endeavors)
12.	Mr. Amitsingh Gohil	Executive Director, TiE, Ahmedabad ( for his efforts to promote start-up ecosystem)



GTU External Stake Holders receiving appreciation form dignitaries for their contribution

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GIC Fellows and Associates being appreciated by dignitaries for their voluntary contribution towards efforts of GTU innovation Council and student Start-up Support System

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A few more moments of the 4<sup>th</sup> Sankuls Day to cherish forever!

**Report compiled and edited by:**

Prof. Gagandipsingh Khanduja (Assistant Professor)  
Kaushik Akiwatkar (S4 Development Coordinator)  
Kalp Bhatt (GIC Fellow)

Previous Reports:

1. Report of 3<sup>rd</sup> Sankuls Day celebrations at <http://www.gtu.ac.in/circulars/14Jun/06062014.pdf>
2. Report of the Pedagogical Innovation and i-SCALE Awards at [http://www.gtu.ac.in/circulars/14Oct/The3rdGTUUSD\\_October\\_2014.pdf](http://www.gtu.ac.in/circulars/14Oct/The3rdGTUUSD_October_2014.pdf)
3. Call for 2015 Awards at [http://www.gtu.ac.in/circulars/15feb/02022015\\_01.pdf](http://www.gtu.ac.in/circulars/15feb/02022015_01.pdf)