Gujarat Technological University
Graduate School of Engineering and Technology
Academia Industry Meet - 2022 (AIM-2022)

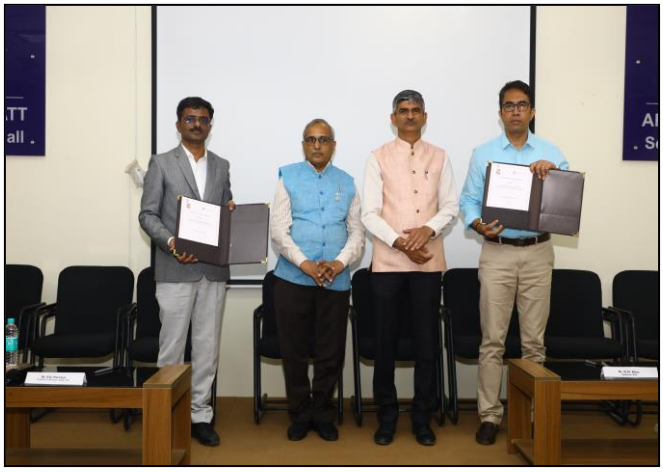
GTU-GSET has organised the first **"Academia-Industry Meet (AIM-2022)"** on April 2nd, 2022, with the goals of bridging the industry-academia gap, revising the curriculum to meet industry demands and worldwide standards, and establishing the Patent Culture, Quality Research, and Innovations. The event was graced by the Hon'ble Vice Chancellor, respected Registrar, BOG Member, invited renowned industrialists, and academicians.

The Vulnerability Assessment and Penetration Testing (VAPT) and Digital Forensics laboratory at GSET was formally inaugurated by the Hon'ble Vice Chancellor. The formal inauguration of the meet took place after the laboratory was inaugurated. The GSET fraternity has started a newsletter called "KANASH" to appreciate all of its stakeholders for their outstanding contributions to the institute's success. During the inauguration ceremony, dignitaries unveiled the newsletter and made it available to the public.

Dr. S. D. Panchal (Director, GSET) welcomed the delegates and provided an overview of the GSET. He emphasised that the institute was able to acquire funding for a project worth more than 25 lakhs in just three years, start consulting on VAPT, and construct state-of-the-art facilities in multiple domains.

On this occasion, GSET signed MoUs (Memorandums of Understanding) with prestigious organisations and industries such as Microcircuit Technology, Ahmedabad Kalpa Innovation Solutions, Ahmedabad, Prompt Equipment Pvt. Ltd. Ahmedabad, Pronesis Technology, Ahmedabad, and Control Case, Mumbai to establish potential collaborations with the industries based on various activities such as curriculum updates based on industry requirements, joint organisation of various training programs/skilled development programmes on advanced technologies for the students and faculty, internship and placement opportunities for the students, taking up research projects/consultancy projects jointly.

MoU with Microcircuit Technology



MoU with Kalpa Innovation Solutions

MoU with Prompt Equipment Pvt. Ltd

MoU with ControlCase International Pvt. Ltd.

Mr. Nirmt Patel, Founder, MicroCircuit Technology, Mr. Chirag Trivedi, Founder, Kalpa Innovation Pvt. Ltd. , Ms. Samntha Fernandes, Sr. Manager, Prompt Equipment Pvt. Ltd., Mr. Shashank Vaidya, Vice President, ControlCase International Pvt. Ltd., were signed MoU in august presence of Dr. Navin Sheth, Hon'ble Vice Chancellor, and Dr. K. N. Kher, Registrar with GTU-GSET.

Following the signing of the MOU, a panel discussion on subjects such as curriculum change with respect to industry needs, quality research and innovation culture, student internship programmes, skilled teachers, and so on took place. The following are the specifics:

Panel Discussion - 01:

Theme: **Curriculum revision based on industrial needs and global Standards–Closer Alignment across teaching, research and skills – student- centred Education – Promoting student-led clubs – Enhancing management**

Name of the Moderators:

Prof (Dr.) S D Panchal, Professor, & Director
Prof P. S. Mann, Associate Professor

- Formation of BoS and industry representation in it
- Can the OBE model for course curriculum help to frame syllabus at par with global standard?
- NEP-2020, new pedagogical structure (5+3+3+4) suggested along with keeping certain expectations at each stage, will it help to improve the skills at schooling level? So HEIs will get better inputs (in terms of students)
- How Student - led club culture helps to prepare the students in terms of managerial skill, communication skill and their involvement in extra and co-curricular activities?
- Intradisciplinary and Multidisciplinary learning activities and their impact on learning outcome.
- How the accreditation (of Institutes/courses) is impactful in meeting global education standards?
- Will the industrial policy need to be aligned with the academic curriculum of universities for a greater participation of all stakeholders.
- Is a National Research Promotion policy be the need of the hour like National Innovation and Startup policy?
- Can there be an equal role of Industry Mentor(s) like Academic Mentor(s) in skill development during academic progression of a student?
- Will the student clubs community participation can be a win-win situation in dealing with socio-economic problems at micro level?

Suggestions/Opinions by the Panellists:

- Need of greater participation of industry experts in framing of academic curriculum.
- Requirement of industry representation in framing skill based courses. And to replace the industrial representative in respective BoS after every 3 years of term.

- To focus on the 1st year basics concepts & fundaments through hands on practices and to make simple paradigm of understanding the course of study for the students. Also recommended to start open book exam for greater visibility of the outcomes.
- To include some value based courses to nurture human valuation, right understanding, and positive attitude among the students.
- To introduce social awareness and responsibilities among students through NSS or NCC clubs for their greater participation towards society and to ensure discipline among students.
- To encourage and provide platform to participate in national and international level such as Heckathons, Conferences etc.
- To focus on to develop interest of students in the subject for better performance and output.

Panelist of Panel -01

Sr No.	Name	Designation
1	Dr. Sanjay Kumar Joshi	Principal, Government Engineering College Bharuch
2	Dr. Jayesh Deshkar	Principal, V.V.P. Engineering College, Rajkot
3	Dr. Sanjay Shah	HoD, L D College of Engineering, Ahmedabad
4	Dr. Hiteishi Diwanji	HoD, L D College of Engineering, Ahmedabad
5	Mr. Jatan Raval	Manager, Net-Square Solutions Pvt. Ltd., Ahmedabad
6	Mr. Nikhil Shah	CEO, Nifa Electronics, Ahmedabad
7	Mr. Yash Diwakar	Senior Associate Consultant, Infosys Technologies, Bengaluru
8	Ms. Purbasha Rakshit	Sr. Analog Circuit Design Engineer, SingularityAIX, Gandhinagar
9	Dr. Urmil Parikh	Principal Engineer, Hitachi Energy

Panel Discussion - 02:

Theme: **Internships – Education 4.0 for Higher Order Thinking Skills to match the 4th Industrial Revolution**

Name of the Moderators:

Dr. R. A. Thakker, Adjunct Professor,
Prof. Gautam Makwana, Associate Professor

Agenda of Discussion:

- Challenges to address internship requirements in state-of-the-art technology
- Providing internships to a huge number of engineers passing out every year
- Exploring Virtual internship or online exposure of industrial environment, and development of required technical skills

Suggestions/Opinions by the Panellists:

Panellists shared their experiences and practices followed at their institutes and industries for arrangement of industry internships for the students. The following are some of the suggestions/opinions

- We can contact and take advantage of chamber of commerce to address internships requirements in the state-of-the-art technology as well as to provide internship to the large number of engineers passing out every year.
- Students should be encouraged and motivated to take advantage of research internships offered by IITs, research organizations and other eminent institutions.
- Virtual internships can also be a good option to provide exposure of industrial environment to the students on a large scale.
- The University should establish central monitoring system for evaluation of internship, and also provision of credits, should be awarded to the students, carrying out voluntary internships during break between semesters.

- Internship should be employment oriented or towards skill development in specific domain instead of just fulfilling academic requirements.

- As per NEP-2020, the target of 50 % graduates to have vocational education must be focussed by all higher education institutes to increase employability standard.

Panelist of Panel -02

Sr No.	Name	Designation
1	Dr. G P Vadodaria	Principal, GEC-Bhavnagar
2	Dr. Saurabh Pandya	Professor, L E College, Morbi
3	Dr. Narendra M Patel	Professor, Birla Vishvakarma Mahavidyalaya Engineering College, V V Nagar
4	Prof. M. T. Savaliya	Associate Professor, Vishwakarma Government Engineering College, Chandkheda
5	Mr. Nirmit Patel	Founder, Micro Circuit Technologies, Ahmedabad
6	Mr. Yatrik Goswami	Area Head, TOPS Technologies Pvt. Ltd, Ahmedabad
7	Ms. Utkarshi	HR, HackIT Technology and Advisory Services, India
8	Yamini Savaliya	HackIT Technology and Advisory Services, India

Panel Discussion - 03

Theme: **R & D - Quality Research, Innovations and Patent Culture - Research Collaborations with premier R & D Centers, Funding from Central agencies – Encouraging Joint Research Activities and Inter-Disciplinary Activities –Strategies to attract the bright students to Research Programmes**

Name of the Moderators:

Dr R A Thakker, Adjunct Professor,
Prof. S K Hadia, Associate Professor

Agendas of Discussion:

- How can industry contribute to the journey of PhD students in their research work?
- Can we have industries coming out with real life research problems of the level of Ph.D. work?
- What are the possibilities for industries to sponsor some Ph.D. students?
- How can we attract industry people to pursue Ph.D. study?
- Is it possible for a group of industries to come forward and develop some sector specific research centres with advanced resources?

Suggestions/Opinions by the Panellists:

Panelists agreed that we must take necessary steps to enhance quality of research work taking place in the institute. The following are some of the suggestions/opinions.

- We should develop an eco-system where industries are invited to contribute in research at various levels of study from under-graduate to Ph.D.
- Fulltime Ph.D. must be motivated rather than the part-time.
- Industry-sponsored Ph.D. student scheme must be incorporated.
- We should prefer problems suggested by various Government departments for Ph.D. study provided possibility of substantial scope of contribution.

- Applicability of research needs to be enhanced and for the same; real-life problems must be given for Ph.D. study and other research work or PG dissertation thesis.
- Students must be encouraged to publish their research work in standard journals for wide publicity.
- Filing of patents must be encouraged from commercial point of view.

Panellist of Panel -03

Sr No.	Name	Designation
1	Dr. Rajul Gajjar	Principal, LD College of Engineering, Ahmedabad
2	Dr. Rupesh P. Vasani	Director, SAL Education, Ahmedabad
3	Dr. Mayuri Mehta	Professor, SCET, Surat
4	Sh. Gurcharan Singh	Faculty of Cyber Crimes, CDTI, Ministry of Home Affair, Chandigarh,
5	Mr. Nandkishore Harikumar	CEO, Tsanct Technologies Pvt. Ltd., Kochi, Kerala.
6	Dr. Ritesh Sugandhi	Scientific Officer, IPR, Gandhinagar
7	Ms. Mitava Shah	SOC Analyst, eClinicalWorks, Ahmedabad
8	Dr. Kiran Parmar	Professor & Head, Electrical Engineering, Adani Institute of Infrastructure Engineering (AIIE), Ahmedabad







Panel Discussion – 04

Theme: **Academia Collaboration – Innovative Initiatives in Technical Education - Digital Learning Framework – Encouraging students towards entrepreneurship and start-ups - Problem-solving approach – Design Oriented teaching – Application Oriented learning – Promoting the Research and Innovation Quotient in the 21 Century Graduates.**

Name of the Moderators:

Dr S D Panchal, Professor & Director
Prof Komal Borisagar, Associate Professor

Discussion Points:

- Collaboration with nearby eminent research Institutes must be strengthened for resource sharing
- Need to explore and encourage use of IT technology in education
- Classroom teaching must focus on enhancing problem solving skills
- Need to orient and encourage students for entrepreneurship and start-ups
- Research and innovation approach must be fostered and nurtured from the beginning of college or even high-school days

Suggestions/Opinions by the Panellists:

- Effective mentoring system to be implemented to identify weakness and strength of the students and accordingly nurturing for develop skills, entrepreneurship, research culture, and national & social responsivities among the students. The University has to train the faculty for adequate mentoring process.

- Regular visit of faculty to eminent research institutes, industries, institutions to aware global demands and accordingly problem statement to given to UG/PG/Ph.D. students to solve social, local, national problems.

- To adopt IIT model, which is most successful model, in every institute instead of adoption of other models.

- As per NEP 2020 guideline some relaxation can be implemented to promote multidisciplinary innovation by connecting students via online medium to renowned industries.

- Revenue generation model to be implemented and share the revenue among the innovators, researchers. Required to frame policy for effective implementation.



Panellists of Panel -04

Sr No.	Name	Designation
1	Shri Utkanth Bhandari	BoG Member, Director at Streamline Controls Private Limited, Ahmedabad
2	Dr Sanjay Chauhan	Director and Professor – GTU Graduate School of Pharmacy
3	Dr. Aswin Prabhakar	Principal, GPERI, Mehsana
4	Dr H N Shah	Director, GIT ,Gandhinagar
5	Dr. Hiren Joshi	Professor, Gujarat University, Ahmedabad
6	Mr. Harish Chhib	Vice President of Middle East and Africa , Sophos, Ahmadabad
7	Mr. Shashank Vaidya	Vice President, Control Case, Mumbai
8	Mr. Chirag Trivedi	Founder, Kalpa Innovative Solutions, Ahmedabad
9	Dr. Kiran Parmar	Professor & Head, Electrical Engineering, Adani Institute of Infrastructure Engineering (AIIE), Ahmedabad
10	Dr. Indrajit Patel	Principal, Birla Vishvakarma Mahavidyalaya, Vallabh Vidyanagar.
11	Mr Parin Savla	Office 365 Consultant, Innoventix solutions, Ahmedabad

Panel Discussion – 05

Theme: **Qualified Faculty - Best Practices and Training Programmes to Teachers - Institutional Culture and Effectiveness**

Name of the Moderators:

Dr S D Panchal, Professor & Director
Prof Seema Joshi, Asst. Professor

Discussion Points:

- 50 Hrs domain specific training provision in NEP-2020
- Role of NITTTR and their objectives
- Faculty performance appraisal and linkage with rewards
- 360 Degree faculty evaluation practices
- Faculty must link themselves with their counterpart in reputed Institutes
- Mandatory exposure of best Institutes of our country
- Qualification enhancement from best Institutes of our country

Suggestions/Opinions by the Panellists:

- Industry 4.0 four pillars are important – 1. Competency, 2. Teaching – Learning Methodology, 3. Technical skills required by the industry or university, 4. Training
- It is required to upgrade teachers' skill as per their area of interest and as per the specific requirement of the Institute. Faculties should have to change their mindset of casual completion of any FDP/STTP for higher scale and training should have more weightage on hands on practices.
- Having policy of Award/Reward to the faculty members for their contributions.
- Faculty should be trained to develop MOOC Courses too.
- It is suggested to create an e-Magazine to enhance the content writing practices at student and faculty level. This will be helpful to update and upgrade the technical skills and writing.
- The 360° appraisal should be considered for reward/award of the faculty members instead of punishment/degradation of the faculty.

Panellists of Panel -05

Sr No.	Name	Designation
1	Dr. G P Vadodaria	Principal, GEC-Bhavnagar
2	Dr. Chirag Thaker	Professor, GEC, Rajkot
3	Dr. Kiran Parmar	Professor & Head, Electrical Engineering, Adani Institute of Infrastructure Engineering (AIIE), Ahmedabad
4	Dr. Vibha Patel	Professor, Vishwakarma Government Engineering College, Ahmedabad
5	Dr. Arun B. Nandurbarkar	Professor, Vishwakarma Government Engineering College, Ahmedabad
6	Mr. Shubham Khandewal	Consultant, Control Case, Mumbai
7	Ms. Samantha	HR, Prompt Equipment Pvt. Ltd, Ahmedabad
8	Mr. Jignesh Joshi	Compliance Officer, MSBC Group, Ahmedabad
9	Mr. Hetal Bhatt	Founder, Eletise Display LLP, Ahmedabad

The final year students of GSET have presented their project work and the first year students have prepared the demonstrated various projects on the occasion. Delegates visited various laboratories and interacted with the M.E. and Ph.D. students of the Institute. The delegates visited various research labs, facilities available in the Univeristy and explore various possibilities in view of industry usage. Control case, Mumbai and HackIT, New Delhi have conducted the placement for the final year students.

Design Innovation Council Visit

Student Poster Presentation

IoT Lab Visit

BOSCH (Automation) Lab Visit

The meet ended with the concluding remarks and vote of thanks by Prof. (Dr.) S. D. Panchal, Director, GSET.

Team of GTU-GSET

Chief Patron:
Prof. Navin Sheth – Hon. Vice-Chancellor – GTU

Patron:
Dr K. N. Kher – Registrar - GTU

Invitee:
Prof. S.D.Panchal – Director - GTU-GSET

Advisory Committee:
Prof, Rajesh Thakker, Adjunct Professor – GTU-GSET
GTU-GSET Industry Advisory Board Members

Organizing Committee:
Prof Sarman Hadia, Associate Professor GTU-GSET
Prof. Gautam Makwana, Associate Professor GTU-GSET
Prof. Komal Borisagar, Associate Professor GTU-GSET
Prof. Palvinder Singh Mann, Associate Professor GTU-GSET
Prof. Mahesh Panchal, Assistant Professor GTU-GSET
Prof. Seema Joshi, Assistant Professor GTU-GSET
Prof. Deepak Upadhyay, Assistant Professor GTU-GSET
Prof. Rutika Ghariya, Assistant Professor GTU-GSET
Prof. Raj Hakani, Assistant Professor GTU-GSET
Prof. Margam Suthar, Assistant Professor GTU-GSET
Prof. Hemal Nayak, Assistant Professor GTU-GSET
Prof. Mridul Seth, Assistant Professor GTU-GSET
Prof. Vagmin Joshi, Assistant Professor GTU-GSET

Overall Coordination:
Prof. Gautam Makwana, Associate Professor GTU-GSET
Prof. Seema Joshi, Assistant Professor GTU-GSET
