GUJARAT TECHNOLOGICAL UNIVERSITY

GRADUATE SCHOOL OF ENGINEERING AND TECHNOLOGY

"Academia-Industry Meet" (AIM-2023)

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Date: 13th April 2023

Nowadays, with the emphasis on "Make in India" and "Skill India," industry-academia partnerships are extremely significant. When it comes to promoting innovation, enhancing skilling and education systems, and consequently producing a highly skilled and committed workforce, academia and industry are the two most crucial key points. To establish the strong relation with research organizations and industry that promote research and consultancy and to encourage the innovative practices to produce innovators and entrepreneurs, GTU-GSET has organized the second "Academia-Industry Meet (AIM-2023)" on April 13th, 2023 The event was graced by the Hon'ble (I/C) Vice Chancellor, respected Registrar, Deans, BOG Members, renowned industrialists, and academicians. The coordinator of this event is Prof. Jignesh Amin, Professor, GTU-GSET.

Prof. S. D. Panchal, director of GSET, stated in his welcome speech that the objective of this meeting is to increase industry involvement in technology exchange in order to accomplish the goals of NEP 2020. **Dr. K. N. Kher**, GTU Registrar, appreciated GSET's efforts to build relationships with the industry by organising such events. He continued by saying that this kind of cooperation surely will enhance academic curricula as well. The **Honorable (I/C) Vice Chancellor, GTU** stated that it is crucial to encourage academic institutions to work with industries that

have cutting-edge technology for innovative economic growth in order to realise the Prime Minister of India's vision of making India a $5 trillion economy by 2024–25.

To conduct First keynote session, **Shri. Nirmal Jha**, Advisor (Industry Partnerships), IIT-Gandhinagar has been invited to address the gathering on the theme **"Challenges of Technical Institutions to meet Industry requirements in the view of changing dynamics of academia"**. Shri Nirmal Jha discussed about the ancient research, and digitization and the role of engineers in fields including health systems. He suggested that rather than focusing solely on globalisation, we should give more attention to local development. **Prof. G. P. Vadodariya** (Dean, Engineering, GTU), **Prof. Sachin Parikh** (Jt. Director, Directorate of Technical Education, Government of Gujarat) and **Prof. Sudeep**

Tanwar (Professor, Nirma University) have been invited to chair this key note session from academics as panelists.

The open discussion was held among the invited academicians and the Panelists (session chairs), and it opened with the statement that, according to NEP 2020, we have 10-15% of the curriculum that contributes to the Humanities and Social Sciences portion, and still we have scope to modify the syllabus that will aid in the development of design intent in students. Development of student's critical thinking ability is a need of an hour even though they have advantage of tools like ChatGPT, etc. however that will help only 20-30% in their performance. The session was concluded with the good remarks as technology up-gradation in institution is needed with industry support.

To conduct Second keynote session, **Shri Pranav Pandya**, Chairman and Director, GESIA IT Association has been invited to address the gathering on the theme **"Role of Industry to improve employability and to promote innovation and entrepreneurship at Technical Institutions"**. Mr. Pranav Pandya stated that in addition to the curricula that will meet the demand for the development of very specialized skills in the students, the institute's students would need to learn the modules created by industry experts. **Mr. Shahbaz Sheikh** (Manager, e-infochips), **Mr. Ashish Sorathiya** (Saksham Consultant), and **Mr. Utkanth Bhandari** (Streamline Controls Pvt. Ltd.), have been invited to chair this session as panelists.

Based on the keynote session, an open discussion was held among the invited renowned industrialists and the Panelists (session chairs). The discussion was opened by sharing the thoughts on introduction of practical exposure for the students during their academic curriculum.

During open discussion, some suggestions were received, such as improving the applicability of research and assigning real-life problems for Ph.D. studies and other research work or PG dissertation theses. Additionally, industries could step forward and establish some sector-specific research centres with cutting-edge resources, as well as focusing more on first-year fundamental concepts and foundations through hands-on practise. Concern raised by the gathering to opt core branches in engineering among students in upcoming year. The concern was addressed by the experts to introduce fundamentals of AI and ML in the curriculum of core branches to attract the attention of the students.
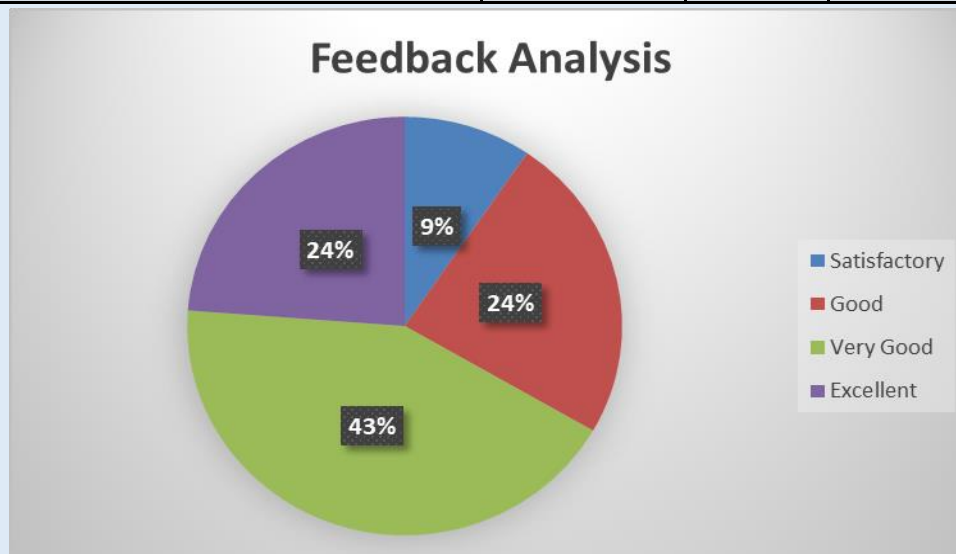

On this occasion, GSET has signed **MoU** (Memorandums of Understanding) with prestigious organization such as **GESIA IT Association** to establish potential collaborations based on various activities such as curriculum updates based on industry requirements, joint organization of various training programs/skilled development programs on advanced technologies for the students and faculty, internship and placement opportunities for the students, taking up research projects/consultancy projects jointly.

The placement drive has been also arranged for the students of GSET on the day of event. Massibus Automation and Instrumentation Pvt. Ltd. has conducted the interview process for the students of IoT. Mr. Bhargav Patel (Semester – 2, M.E. CE (IoT)) has been selected for the one year internship with stipend of Rs. 25000/-.

Feedback Analysis:

Industry Professionals/Academician Feedback				
Feedback on Curriculum/Facility				
Number of Academicians = 16				
	Satisfactory	Good	Very Good	Excellent
Relevance of present curriculum with industry requirement	2	5	9	5
Quality of the project work/dissertation work carried out by the student	-	8	8	5
Quality of lab infrastructure/equipment available in the institute	-	3	8	10

Feedback Analysis

- 9% Satisfactory
- 24% Good
- 43% Very Good
- 24% Excellent

Suggestions

- To have an introduction& training require to meet the industry expectations.
- Need to improve the infrastructure of semiconductor domain tools
- Industry oriented courses for skill should be carried out at University itself - like precasting production, rebarring, ISO auditing, concreting material testing, documentation procedures, marketing
- Concentrate on teaching-learning process and Need to change curriculum as per the industry need & as per the latest technology, Encourage problem and project based learning
- More interaction with industry professionals need to be arranged
- Internship to be strengthen
- Pedagogy implement for broad Thinking
- Suggestions to add following courses in curriculum:
  (1) Skill Development courses: Lab are utilized after office hours for skill development
  (2) Value added (non-credit) course: Example: QGIS, Revit which help to add more soft computing ability