



Vidya Jyothi Institute of Technology

(An Autonomous Institution)

(Accredited by NAAC & NBA, Approved By A.I.C.T.E., New Delhi, Permanently Affiliated to JNTU, Hyderabad)
(Aziz Nagar, C.B.Post, Hyderabad -500075)

Best Practice 1

1. Title of the Practice: Strengthening of Industry- Institute Collaboration

2. Objectives of the Practice

- To enhance the relationship between the Institute and industry.
- To promote participation of industry personnel in the development of curricula & high quality student projects.
- Memoranda of Understanding between the Institute and industries to bring the two sides emotionally and strategically closer.
- Visits of industry executives and practicing engineers to the Institute for examining research work and laboratories, discussions and deliver lectures on industrial practices, trends and experiences.
- Visits of faculty to industry for study and discussions or delivering lectures on subjects of mutual interest.
- To facilitate industrial training for students, internship programs and students' study tour programs
- To encourage entrepreneurial activities among the students
- To support consultancy/ training services using the institutional expertise

3. The Context

Interaction between institutions and industry is the need of the hour, for a healthy exposure of This of industrial atmosphere amongst technical students and subsequent placement of young graduating engineers in industries across the country. The Industry-Institute Partnership Cell (IIPC) of the institute is dedicated to promote the close interaction between industry and various departments of the institute. The cell is the bridge between the industry, the real world and the institute. Industrial exposure of the faculty is productive and supportive to guide students in the latest industrial practices. Likewise, Industries become aware of the recent developments and inventions in their fields, develop/implement projects for technologically driven economy.

IIPC prepares engineering students for jobs in multinational companies by updating them with newer technologies and engineering methodologies, thereby bridging the gap between industry and the academic institute. Indian industry, at present, has reached a crucial turning point where it has to face the dynamic demands of the competitive domestic and global markets wherein providing high quality products and services is inevitable. A need-based, effective, dynamic, responsive and human education system would be capable of addressing the challenge. The interaction between institute and industry is necessary to train and develop the right kind of manpower to sustain industrial growth. VJIT has set up an Industry -Institute Partnership Cell for the above purpose under the leadership of an expert team which has rich experience and exposure in both academics and industry. The ultimate aim of imparting professional education is to enable the students to be industry-ready, by providing exposure to current industry practices and to secure sustainable jobs in their respective platforms. The IIPC established in VJIT is determined to acquire aforementioned objectives.

4. The Practice

The institute endeavours in sustaining adherence with the industries and in establishing strong linkages with various industries across the departments such as:

- Centre of Excellence in Data Analytics with Qlik India, USA
- Centre of Excellence in Software Testing with Virtusa
- Centre of Excellence in Talent Sprint
- Centre of Excellence in the field of Manufacturing with Lean Technocrats
- MoU with GoHexa
- MoU with One Compiler
- MoU with FaceHiring
- MoU with Crampete
- MoU with Talentio
- Collaboration with Oracle
- Collaboration with Bennette
- Collaboration with Blue Prism
- Collaboration with Certiport
- MoU with Ajna Net works
- MoU with National Academy of Construction
- MoU with Smart Infrastructural Engineering Services Trust
- MoU with Unique Survey Solutions
- MoU with Hyderabad Institute of Electrical Engineering
- MoU with Balaji Electrical and Engineering works.
- MoU with ECI Engineering and Construction.
- MoU with Frugal Technologies
- MOU with NI Lab VIEW Academy
- MoU with Eduvance, Training Partner of ARM University Program & Cypress Semiconductors.

- Center of Excellence in Networking Laboratory with CISCO
- MoU with Cyient

5. Evidence of Success

A Centre of Excellence is set up in the 2017 supported by Qlik Software Company as a part of Industry Institute Interaction

- Data Analytics CoE
- Online Learning & Certification
- 143 Students and 4 staff are certified by Qlik till date.
- One Faculty got Award
- One Student Group got Award
- Two papers were published by our faculty

Center of Excellence in Software Testing with Virtusa

- Software Testing - CoE
- Job, Internship, Guest Lecture,
- Certification in in ISTQB and OJCP
- 80 students got placements
- 3 Staff completed Training
- 55 students and 3 staff are certified.

Center of Excellence in Talent Sprint

- Online Learning and Assessment Platform for all interested 3rd and 4th Yr students
- Hackathon
- Blue Prism Certification
- 83 Students are certified till date

Center of Excellence in the field of Manufacturing with Lean Technocrats

- Lean – “The Means for Leveraging Growth”.
- The Lean Technocrat certification is exclusively for **Electrical, Mechanical** Engineering students.
- Primary focus is on manufacturing industries for top-line growth.
- Lean Tech certification & Placements. Total 170 students Certified in 3 yrs

The following is the information of VJIT students who are certified by Lean Technocrat in 2017.

Outcome

Certification Training was given to 31 students, out of which 26 were qualified. These 26 students got the opportunity to attend special campus recruitment drives, supported by Lean Technocrats. Placements are gradually improved as represented in this graph.

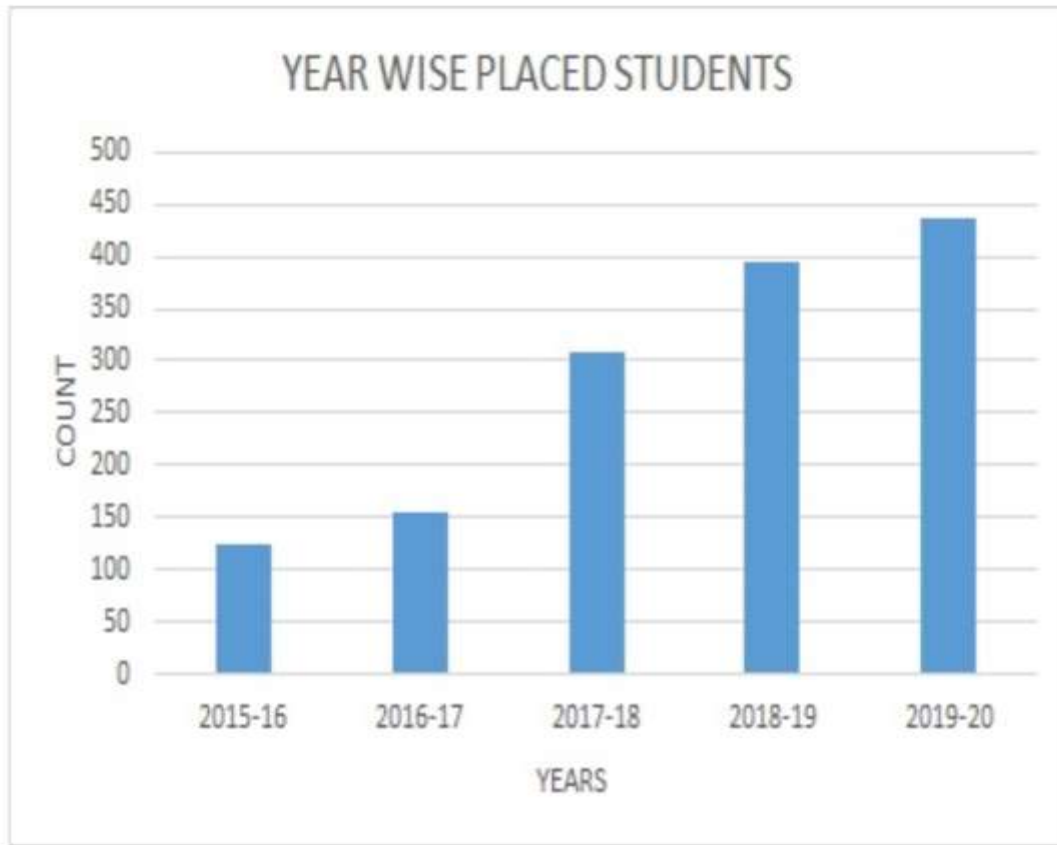


Fig.1: Placements report in year wise.

Companies who came for recruiting the Lean certified students:

S.No.	Company	Salary Package
1.	Dalal Plastic, Delhi	3.5 lakhs
2.	Everest India	3 lakhs
3.	Denso India, Hariyana	4.5 to 5 lakhs

4.	Schneider Electrical	Internship
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MoU with GoHexa

- Assessment Platform for Aptitude, Quant, Verbal and Coding.
- Also offers Software Industry Oriented Assessment Service free of cost.
- 480 students of 2017 – 21 batch and 478 students of 2018 – 22 batch are registered.

MoU with One Compiler

- Online Coding platform.
- Students can practice coding in 40+ Languages and Departments can create tests online.
- 426 students of 2017 – 21 batch and 477 students of 2018 – 22 batch are registered.

MoU with FaceHiring

- Career Counseling and Placement Assistance for 12 shortlisted placement coordinators from 6 engineering branches.

MoU with Crampete

- Virtual self learning tool on Programming.
- Total 80 students are certified till date

MoU with Talentio

- All 3rd and 4th Yr Registered
- Training, Assessment, Mentoring.
- Online Assessment support
- Till date about 5000 students are trained and mentored.

Collaboration with Oracle

- Online Learning opportunity for students.
- Till date : 60 students got certificates
- 142 students are trained in total.
- 102 students are trained in Database Design.
- 40 students are trained in Database programming with SQL

Collaboration with Bennette

- Faculty Training, Workshop for staff and students

Collaboration with Blue Prism

- Blue Prism Certification
- 83 are certified till date

Collaboration with Certiport

- Microsoft and AutoCAD Certification at VJIT.
- Total 722 students got certified.
- HTML : 215 certifications from 3rd and 4th Years.(CSE/IT and ECE branches)
- Database : 125 certifications from 3rd and 4th Years.(CSE/IT and ECE branches)
- Auto CAD : 385 Certifications from 3rd and 4th Years (Civil/Mech and EEE Branches)

MoU with Ajna Networks

- Guest Lectures, Alumni Connect, Recruitment
- One of the alumni of ECE department recruited 17 students from VJIT in 2018

MoU with National Academy of Construction.

- Guest Lecture, Internship, Students Visit, Project

- CIVIL Students availed field visit to several construction models in NAC. (50 Nos)
- CIVIL Students got placed in DEC Infra Pvt.Ltd. Hyd. after completing 1 month course offered by NAC (No. of offers 7)

MoU with Smart Infrastructural Engineering Services Trust

- Guest Lecture, Internship, Students Visit, Project
- 20 CIVIL students performed the project.

MoU with Unique Survey Solutions

- Guest Lecture, Value added courses
- Technical training given in 2018-19 to 15 CIVIL students along with two faculty

MoU with Hyderabad Institute of Electrical Engineering

- Certification Courses, Training for Student/ Internships.
- 19 internship, 2 placements from EEE students.

MoU with Balaji Electrical and Engineering works.

- Training & Project work for the students.
- 20 internships from EEE students.

MoU with ECI Engineering and Construction.

- To guide students for Mini & Major Projects.
- 40 internships from EEE students.

MoU with KGMECH Electro-Mechanical Pvt. Ltd

- Internships and Placements.
- Webinar - 70 EEE students and 10 faculty are attended

Frugal Technologies

- Students work on final year projects and trainings
- Faculty visits to update their knowledge on real time Engineering Problems

MoU with Eduvance, Training Partner of ARM University Program & Cypress Semiconductors.

- Certification Courses, Training for Student & Faculty research work in a ES area, Mini & Major Projects.
- Students are certified in two levels - Beginner and Expert levels.
- 161 students and five of our faculty were certified by ARM University, Cambridge, UK.
- Another 44 students and three of our faculty got certified under PSOC Semiconductors
- from Cypress semiconductors.

MoU with NI Lab View Academy

- Data Acquisition Laboratory with National Instruments
- Certification Courses, Training for Student & Faculty research work in a Lab VIEW area
- Mini & Major Projects and 3 students has done internship in the academic year 2018-2019 in NI lab view systems
- 100% CLAD Certification – 105 students and 6 faculty
- CLD Certification – 9 students

CISCO Networking Academy

- Three of our faculty are awarded with Merit certifications in CCNA course.
- These certified faculty trained 99 ECE students in acquiring CCNA certification.
- The current batch students have successfully completed their training.

MoU with Cyient

- recruitment and training of students

6. Please identify the problems encountered and resources required to implement the practice

Problems Encountered

- In few of the cases (of the CoE) the related certifications are expensive and hence it is difficult to sponsor all the students.
- A major problem was identified at the beginning where the CoE s could not run without skilled and certified internal faculty. This is to infer that it is difficult to retain skilled personnel which is really a challenging situation. After considering this point, initiatives have been taken to certify and upgrade the skillset of our faculty. Subsequently, today we have many of our faculty with certification and refined skills.

Resources required to implement practices

- Well-equipped computer labs with recommended software and hardware
- Journals and books for students to work on their specific areas
- Skilled human resource
- Showcasing of the acquired skills by the students.

Fruitful endeavour with collaboration of industries

- Students are trained and certified, and offered placement /internships/to carry out major projects.
- Students are trained as per the industry needs and are exposed to the latest trends of Industry.
- Faculty are exposed to the newer technologies which are included in the curriculum.
- Faculty share knowledge with the industry experts in their respective domains yielding to collaborative research projects.