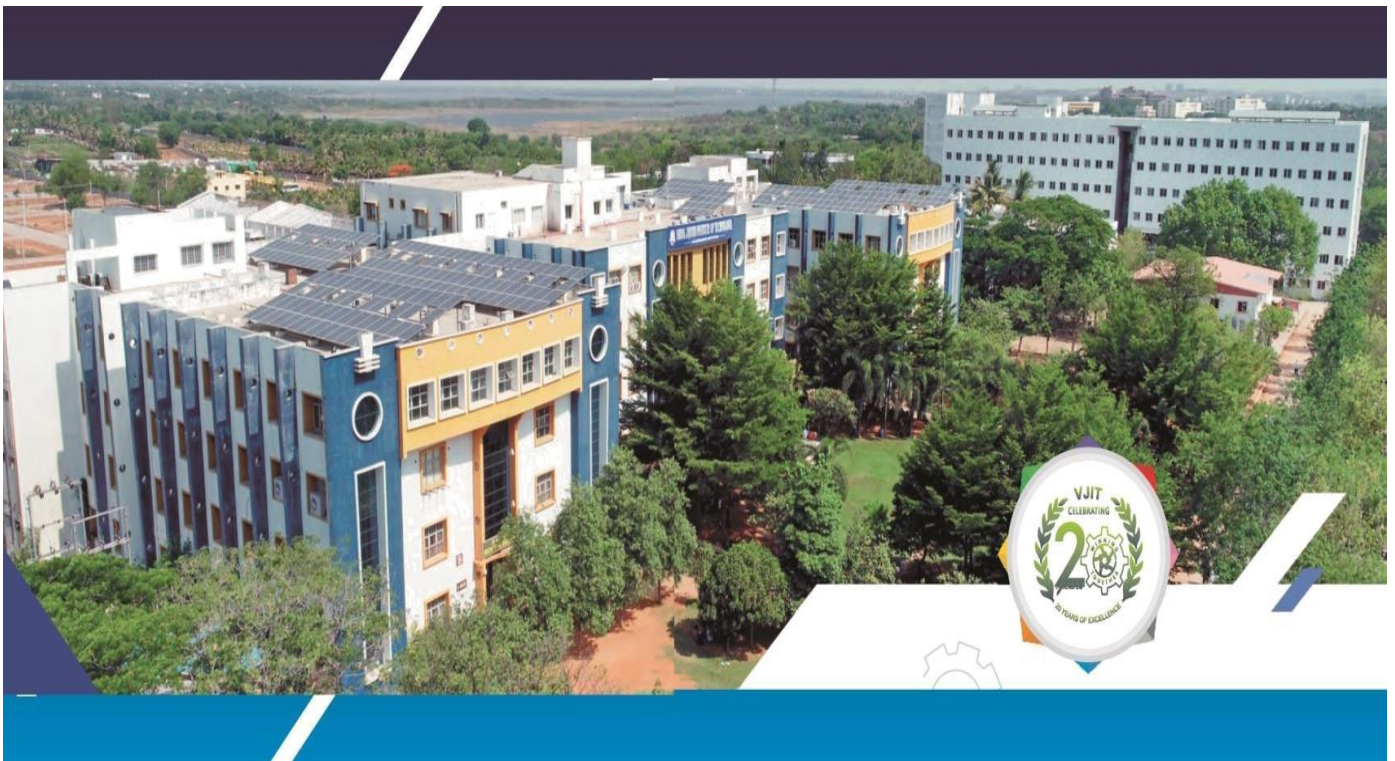




**VIDYA JYOTHI**  
**INSTITUTE OF TECHNOLOGY**  
AN AUTONOMOUS INSTITUTION

## BEST PRACTICES





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# **BEST PRACTICE – I**

## **STRENGTHENING OF INDUSTRY – INSTITUTE COLLABORATION**



# Vidya Jyothi Institute of Technology

## (Autonomous)

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(Aziz Nagar, C.B.Post, Hyderabad -500075)

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### Academic Year-2022-23

#### 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 strategically closer.
- Visits of industry executives and practicing engineers to the Institute discussions and to deliver lectures on industrial practices, trends and experiences.
- Visits of faculty members 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 among technical students and subsequent placement of young graduating engineers in industries across the country. The Industry-Institute Interaction Cell (IIC) of the institute is dedicated to promote close interaction between industry and various departments of the institute. Industries are aware of the recent developments and inventions in their fields; develop/implement projects for technologically driven economy. The cell is the bridge between the industry, the real world and the institute. Industrial exposure of the faculty members is productive and supportive to guide students in the latest industrial practices.

IIC of VJIT 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 academia. 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 Interaction Cell 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 and providing exposure to current industry practices is to enable the students to be industry-ready and to secure sustainable jobs in their respective platforms. The IIC established in VJIT is determined to acquire aforementioned objectives.

#### **4. The Practice**

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

1. Centre of Excellence in Data Analytics with Qlik India, USA
2. Centre of Excellence in Software Testing with Virtusa
3. Centre of Excellence with EPAM
4. MoU with Face Hiring
5. MoU with ExceIR Solution
6. MoU with Talentio
7. MoU with Rubicon Skill Development Private Limited
8. Collaboration with ITE- Oracle
9. Collaboration with Infosys Spring Board
10. MoU with The SS Group of Company (SSGC)
11. MoU with The Copperbelt University Zambia
12. MoU with EE Engineering construction services(EEECS)
13. MoU with Dr. Fixit Institute of Structural Protection & Rehabilitation
14. MoU with KG MECH Electro-Mechanical Pvt. Ltd
15. MoU with Hyderabad Institute of Electrical Engineering
16. MoU with Premier Engineering Industries.
17. MoU with Adeptus Servo Mechatronics Pvt Ltd.
18. MoU with Engineering Staff College of India(ESCI)
19. MoU with CISCO Networking Academy
20. MoU with Metronix.
21. MoU with Sapient Systems
22. MoU with Skyroot Aerospace Private Limited
23. MoU with ITCA-TSC, Bengaluru
24. MoU with IBC Media
25. MoU with Blue Prism
26. MoU with Talent Sprint Private Limited
27. MoU with GoHexa Technologies Private Limited
28. MoU with V.R.K.Industries
29. MoU with One Compiler
30. MoU with Crampete Private Limited
31. MoU with Gong Labs Private Limited(Coffeee.io)
32. MoU with DTM Geo civil Consultancy(International),Melbourne
33. MoU with CADD Centre Training Services Private Limited
34. MoU with Edunet Foundation
35. MoU with Thibstats Media Private Limited
36. MoU with Hyderabad Instruments Transformers Private Limited
37. MoU with Association of Lady Entrepreneur of India
38. MoU with Osmaina Technology Business Incubator
39. MoU with CSIR-Indian Institute of Chemical Technology
40. MoU with University of applied sciences kaiserslauten Primasens,Germany
41. MoU with Wallaga University

## 5. Evidence of Success

S.No.	Name of the CoE/MoU	Purpose/Outcome of MoU	No.of Certifications/Outcome
1	Qlik	<ul style="list-style-type: none"> <li>Online Learning &amp; Certification</li> <li>One Faculty member got Award from Qlik</li> </ul>	50
2	Virtusa	<ul style="list-style-type: none"> <li>Job, Internship, Guest Lecture,</li> <li>Certification in ISTQB and OJCP</li> </ul>	91 students got selected 11 Certifications
3	EPAM	<ul style="list-style-type: none"> <li>Graduate training and hiring program</li> <li>Technology specific training programmes &amp; certifications</li> </ul>	12 students placed and 60 students are trained
4	Face Hiring	<ul style="list-style-type: none"> <li>Linked in access to students</li> </ul>	500
5	ExceIR Solution	<ul style="list-style-type: none"> <li>Student Training, Internships and Projects an advanced</li> <li>Sessions on advanced technologies</li> </ul>	100+ students participated in the sessions
6	Talentio	<ul style="list-style-type: none"> <li>3<sup>rd</sup> and 4<sup>th</sup> year students registered</li> <li>Training, Assessment, Mentoring.</li> <li>Online Assessment support</li> </ul>	2000+ students benefited
7	Rubicon Skill Development Private Limited	<ul style="list-style-type: none"> <li>Soft Skills training</li> </ul>	1188
8	ITE-Oracle	<ul style="list-style-type: none"> <li>Online certifications.</li> </ul>	400
9	Infosys Spring Board	<ul style="list-style-type: none"> <li>LMS Platform</li> </ul>	10
10	SS Group of Company (SSGC)	<ul style="list-style-type: none"> <li>Internships, Guest Lectures, Projects, Training Sessions and Tutorials.</li> </ul>	15 Students placed in the company.
11	The Copperbelt University Zambia	<ul style="list-style-type: none"> <li>Online Internship, International Conference</li> <li>Student Training, Internships and Projects</li> </ul>	1)10 Students Participated Online Internship Programme (22.08.2022 to 17.09.2022) 2)Jointly Organized International Conference on Advancements in Construction Materials on 28.04.2023 & 29.04.2023
12	EE Engineering	<ul style="list-style-type: none"> <li>Technical talk, Internship and</li> </ul>	1)13 Students availed

	construction services (EEECS)	placement	Internship and completed two batches Major Projects. 2)1 student placed in the company.
13	Dr. Fixit Institute of Structural Protection & Rehabilitation	<ul style="list-style-type: none"> <li>Workshop, Certification Courses</li> </ul>	1)one day Seminar on Distresses Vis – A- Vis Durability of Concrete (07.01.2023) 2)A certificate Course on water proofing Protection of Concrete Structures on (20.03.2023 & 21.03.2023)
14	KGMECH Electro-Mechanical Pvt. Ltd	<ul style="list-style-type: none"> <li>Internships and Placements.</li> </ul>	6 Students availed Internship
15	Hyderabad Institute of Electrical Engineering	<ul style="list-style-type: none"> <li>Internships and Placements.</li> </ul>	5 Students availed Internship
16	Premier Engineering Industries.	<ul style="list-style-type: none"> <li>Internships, Trainings, Industry Visits and Academic Projects</li> </ul>	
17	Adeptus Servo Mechatronics Pvt Ltd.	<ul style="list-style-type: none"> <li>Trainings, Guest Lectures and Academic Projects</li> </ul>	
18	Engineering Staff College of India(ESCI)	<ul style="list-style-type: none"> <li>R&amp;D Certifications, Industrial Visits ,Guest Lectures, Projects and Internships</li> </ul>	2 FDP's Conducted
19	CISCO Networking Academy	<ul style="list-style-type: none"> <li>Student Training, Internships and Projects</li> </ul>	Networking Training and Placement
20	Metronix.	<ul style="list-style-type: none"> <li>Job Oriented Training, Industry Visits, Certification Programs , Placements, Teal Time Industry Oriented Projects</li> </ul>	
21	Sapient Systems	<ul style="list-style-type: none"> <li>Job Oriented Training, Industry Visits, Certification Programs, Placements, Teal Time Industry Oriented Projects</li> </ul>	
22	Skyroot Aersopace Private Limited	<ul style="list-style-type: none"> <li>Training and Multidisciplinary Research related to Nano Satellites</li> </ul>	Research and Sub systems design
23	ITCA-TSC, Bengaluru	<ul style="list-style-type: none"> <li>Satellites Education/ Training/ Multidisciplinary Research &amp; Developmental Projects</li> <li>Design, Development, lunch, and tracking of a Nano satellite</li> </ul>	1)Project is under Process and is going to lunch in the month of June 2023 2)50 students and 8 faculty members are part of this project

## 6. Problems Encountered

- The cost of a few of the coveted certifications of COEs is more and hence supporting all students for certification is a challenge.

- There is a need for more skilled and certified faculty members for smooth functioning of the CoEs. IIC of VJIT has taken an initiative to upgrade the skill set of VJIT faculty Members. Subsequently, today many of the faculty members of VJIT are certified trainers.

#### **Resources required to implement practices**

- Well-equipped computer labs with recommended software and hardware are available
- The library has a sizable collection of books and journals pertaining to engineering, science, and management studies.
- Highly qualified and trained faculty members are available in VJIT.

#### **Fruitful endeavor with collaboration of industries**

- Students receive placement, internship, and major project assistance after completing training and certification.
- Students receive instruction in line with industry demands and are exposed to the most recent developments in the field.
- Through the IIC, faculty members are introduced to the newer technologies which are consequently included in the curriculum.



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### Academic Year-2021-22

#### 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 with EPAM
- MoU with One Compiler
- MoU with FaceHiring
- MoU with Crampete
- MoU with Talentio
- Collaboration with ITE- Oracle
- Collaboration with Infosys Spring Board
- Collaboration with Blue Prism
- MoU with The SS Group of Company (SSGC)
- MoU with Hyderabad Institute of Electrical Engineering
- MoU with KGMECH Electro-Mechanical Pvt. Ltd
- MoU with Premier Engineering Industries.
- MoU with CIM Technolgies.
- MoU with Adeptus Servo Mechatronics Pvt Ltd.
- MoU with Reliable Environmental Services.
- MoU with Engineering Staff College of India(ESCI)
- MoU with ITCA-TSC, Bengaluru

#### **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
- One Faculty got Award from Qlik
- One Student Group got Award

**Center of Excellence in Software Testing with Virtusa**

- Software Testing - CoE
- Job, Internship, Guest Lecture,
- Certification in in ISTQB and OJCP
- 3 Staff completed Training

**Center of Excellence with EPAM**

- Graduate training and hiring program
- Technology specific training programmes & certifications

**MoU with One Compiler**

- Online Coding platform.
- Students can practice coding in 40+ Languages and Departments can create tests online.

### **MoU with FaceHiring**

Career Counseling and Placement Assistance

### **MoU with Crampete**

- Virtual self learning tool on Programming.

### **MoU with Talentio**

- 3<sup>rd</sup> and 4<sup>th</sup> year students registered
- Training, Assessment, Mentoring.
- Online Assessment support
- Till date about 500 students are trained and mentored.

### **Collaboration with ITE-Oracle**

- Online Learning opportunity for students.

### **Collaboration with Infosys Spring Board**

- Access online credit based industry courses and new age industry role Specific learning paths and certifications as part of approved self-study MOOC's

### **Collaboration with Blue Prism**

- Blue Prism Certification

### **MoU with the SS Group of Company (SSGC)**

- Internships, Guest Lectures , Projects , Training Sessions and Tutorials.

### **MoU with Hyderabad Institute of Electrical Engineering**

- Certification Courses, Training for Students, Placements and Seminars.

### **MoU with KGMECH Electro-Mechanical Pvt. Ltd**

- Internships and Placements.

### **MoU with Premier Engineering Industries.**

- Internships, Trainings , Industry Visits and Academic Projects

### **MoU with CIM Technologies**

- Internships, Trainings and Academic Projects.

### **MoU with Adeptus Servo Mechatronics Pvt Ltd.**

- Trainings, Guest Lectures and Academic Projects

#### **MoU with Reliable Environmental Services.**

- Industrial Visits ,Guest Lectures and Internships

#### **MoU with Engineering Staff College of India(ESCI)**

- R&D Certifications, Industrial Visits ,Guest Lectures, Projects and Internships

#### **MoU with ITCA-TSC, Bengaluru**

- Satellites Education/ Training /Multidisciplinary Research & Developmental Projects
- Design, Development, launch, and tracking of a Nano satellite
- Project is under Process and is going to launch in the month of June 2023
- 50 students and 8 faculty members are part of this project

#### **6. 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 members. This is to infer that it is difficult to retain skilled personnel which are really a challenging situation. After considering this point, initiatives have been taken to certify and upgrade the skill set of our faculty Members. Subsequently, today we have many of our faculty are with certification and trained by authorized agencies.

#### **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 members are exposed to the newer technologies which are included in the curriculum.



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# **BEST PRACTICE – II**

## **PRAYUKTHI**



# Vidya Jyothi Institute of Technology

## (Autonomous)

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**Academic Year-2021-22**

**AQAR NAAC: Best Practice –II-2022-23**

1. **Title of the practice: PRAYUKTHI- Employability, Entrepreneurship & Higher Education**

PRAYUKTHI is an innovative endeavor at VJIT focused on empowering students from reserved categories (SC/ST), fostering their ability to excel among their peers.

This initiative intends to instill confidence in these students by addressing their present needs and enhancing their future prospects."

"At VJIT, PRAYUKTHI is recognized as a distinguished and commendable practice, designated as Best Practice 2. It focuses on driving and fostering significant progress in the academic journey and personal development of students from reserved categories."

2. **Objectives of the Practice**

- To motivate SC/ST students for higher education, acquire government jobs and other professional jobs.
- To train the SC/ST students for exercising expertise in the arena of soft skills, communication skills, interpersonal skills and preparing them to face interviews and get better placements.
- To utilize the intellectual resources by minimizing the wastage of time in scouting for opportunities and motivate immersive self-learning experiences.
- To provide study material, prepared by experts, for all competitive examinations.
- To allow access to all the desired resources required for students and interact with faculty members beyond the class work.
- To transform the passive learners to active learners and reproduce knowledge.
- To give financial assistance to needy students with the help of the College management. To conduct seminars and guest lectures by experienced faculty and HRs from industry.
- To involve the students from first year to final year in order to understand the importance of career building, industrial jobs and entrepreneurship.
- To make them confident in taking assessments and certifications related to skills required.

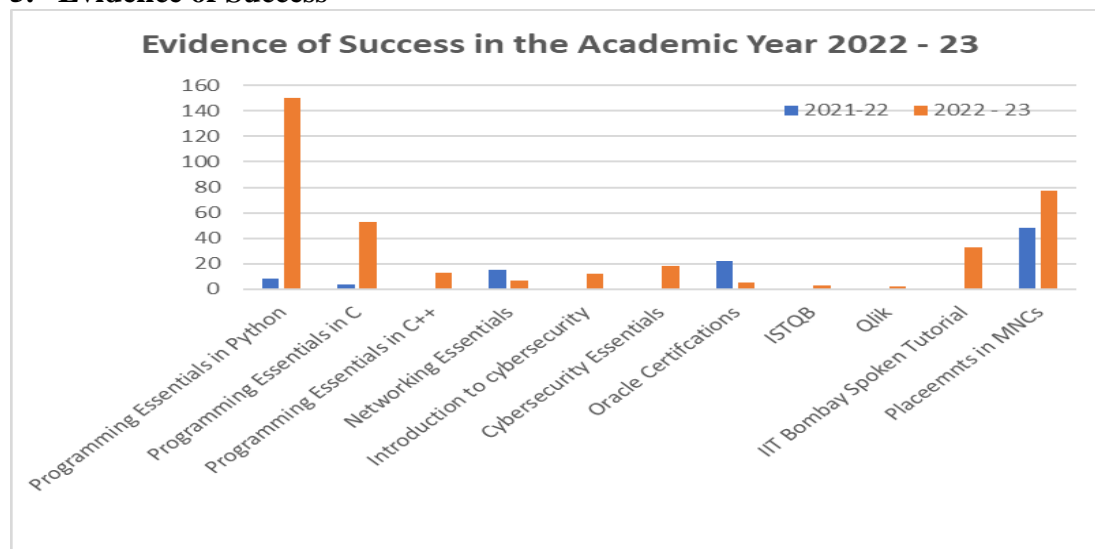
3. **The Context**

Most of the students come from diverse socio-economic backgrounds. Many of the students may not be aware of the basic concepts of the subjects as their importance was not taught at intermediate level. Also they are not aware of the skills required for employability (Eg. Communication Skills). Hence in VJIT, we have initiated this scheme to motivate and improve skills.

#### 4. The Practice

- Conducted training classes GATE/ GRE /TOFEL
- NPTEL Certifications
- CISCO Certifications
- Google Cloud Readiness Program
- CRT- Campus Recruitment Training programs: The Institute provides industry oriented training by Talentio, placement assessment by Instack and soft skills training by Rubicon.
- IIT Bombay Spoken Tutorials
- Oracle Certifications
- To improve coding skills through HackerRank platform

#### 5. Evidence of Success



Course offered	Certification course name	No. of students Certified
CISCO	Introduction to Cybersecurity	12
CISCO	Programming Essentials in python	150
CISCO	Cybersecurity Essentials	18
CISCO	Programming Essentials in C	53
CISCO	Programming Essentials in C++	13
CISCO	Networking Essentials	7
Oracle	Database using MySQL	5
IIT Bombay spoken tutorials	Java	5
	Python 3.4.3	28
HackerRank	Python, Java, C#	12
Students placed in various multinational companies		79

#### Cisco Career Certifications

Cisco certifications are a series of professional certifications offered by Cisco Systems, a leading provider of networking and telecommunications equipment. These certifications validate an individual's knowledge and skills in Cisco technologies and can help them advance in their careers in the IT industry. Cisco also offers training courses and resources to help individuals prepare for these exams.

Once certified, individuals can use their certification to demonstrate their expertise to potential employers and clients.

<b>Certification Course Name</b>	<b>No. of students completed</b>
Introduction to Cybersecurity	12
Cybersecurity Essentials	18
Programming Essentials in Python	150
Programming Essentials in C	53
Programming Essentials in C++	13
Networking Essentials	7

### **Oracle Certification**

Oracle certification is a program offered by Oracle Corporation that validates an individual's knowledge and skills in Oracle technologies and products. The program includes a wide range of certifications, covering different levels and specializations.

<b>Certification Course Name</b>	<b>No. of students completed</b>
Database Programming with MySQL	3
Java Fundamentals	2

### **ISTQB Certification**

ISTQB (International Software Testing Qualifications Board) certification is a globally recognized certification for software testing professionals. It is a standard qualification for software testers and is recognized by many organizations globally. It can help software testers demonstrate their knowledge and expertise in software testing which may lead to better job opportunities and higher salaries.

<b>Certification Course Name</b>	<b>No. of students completed</b>
International Software Testing Qualification Board	3

### **Qlik Sense Business Analyst Certification**

It demonstrates proficiency in data gathering, interpretation, and presentation in a visually compelling manner. This certification is used by industries such as finance, healthcare, retail, and technology to leverage data-driven insights for business strategy enhancement.

**Number of Students Completed : 2**

### **IIT Bombay Spoken Tutorials**

IIT Bombay's Spoken Tutorial initiative is a comprehensive online learning platform that offers free tutorials in various programming languages and software applications. With a focus on skill development, these tutorials cater to a wide audience, from beginners to advanced learners, providing practical insights and hands-on experience. The tutorials cover a diverse range of topics, contributing to the growth of a knowledgeable and skilled community.

<b>Certification Course Name</b>	<b>No. of students completed</b>
Python 3.4.3	28
Java	5

### **HackerRank**

HackerRank is a popular online platform offering coding challenges and assessments to enhance programming skills. Providing a diverse array of coding challenges in multiple languages, it serves as a valuable resource for technical skill development and coding interviews. HackerRank's adaptive and gamified approach makes learning engaging, catering to both beginners and experienced developers.

**Number of Students Completed : 12**

### **Campus Recruitment training (CRT)**

Most of the student's aim is to get a software job in MNCs. Hence campus recruitment training programmes are conducted to improve their skills in clearing aptitude tests, group discussion (GD) and interviews. VJIT has organized "Employability Skills" under "Life Skills" programme by Rubicon.

### **Seminars / Webinars**

VJIT has arranged following seminars :

- Seminar on Higher studies and opportunities Abroad
- Session on "Abroad Admission Process"
- Session on "Roadmap for cracking 12+ LPA in 3 months"
- Session on "Building an email client using python"
- Session on "HR round: Interview Questions and Answers"
- Session on "Technical Interview: How to succeed "
- Webinar on "Data Science Internship: All you Need to Know"
- Webinar on "Weather App using python"

## **6. Identify the problems encountered and resources required to implement the practice**

### **Challenges Encountered:**

- Insufficient awareness regarding the significance of skill development.
- Reluctance to engage in activities due to low confidence.
- Limited family support, with a disinterest in sending their children for higher studies
- Lack of guidance resulting in difficulties for students in making academic or career decisions.

In order to address these challenges, VJIT has developed a framework aimed at inspiring students through career awareness initiatives, developing avenues for refining technical skills, and attainment of certifications in cutting-edge technologies. Furthermore, personalized training sessions are conducted to equip students for placements in reputed organizations. Additionally, GATE coaching classes are offered to strengthen their journey towards higher education.

## **7. Resources Required for Practice Implementation:**

**To effectively implement the practice sessions, the following resources are essential:**

- A dedicated team of experienced and qualified faculty members who are committed to supporting the students throughout their learning journey.
- Additional resources, including a comprehensive collection of educational materials, access to specialized coaching sessions, and participation in targeted training programs. These resources are crucial for enhancing students' understanding and skills in their chosen field.
- Provision of assigned computers for students, enabling them to practice model tests, access online learning resources, and complete regular assessments. Access to these technological resources facilitates a more interactive and dynamic learning experience, enhancing students' engagement and performance.

In conclusion, addressing these challenges and providing the necessary resources is crucial for the successful implementation of the best practices aimed at empowering students from reserved categories. By leveraging dedicated faculty, additional educational resources, and technological support, VJIT can effectively bridge the gap and enable these students to thrive in higher education and the workforce.





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### Academic Year-2021-22

#### 1. Title of the practice: **PRAYUKTHI**-Employability, Entrepreneurship & Higher Education

Prayukthi is an initiative taken at VJIT to empower students from reserved categories (SC/ST), so that they can stand strong along with all other students. VJIT in its efforts to bring in an inclusive atmosphere, has taken this initiative.

PRAYUKTHI, a best practice 2 at VJIT, has created a significant change in the learning and development of the reserved category students.

#### 2. Objectives of the Practice

- To motivate SC/ST students for higher education, government jobs and other professional jobs.
- To train the SC/ST students for exercising expertise in the arena of soft skills, communication skills, interpersonal skills and preparing them to face interviews and get better placement.
- To utilize the intellectual resources by minimizing the wastage of time in scouting for opportunities and motivate immersive self-learning experiences
- To provide study material, prepared by experts, for all competitive examinations.
- To access all the desired resources required for students and interact with faculty members beyond the class work
- To transform the passive learners to active learners and reproduce knowledge.
- To give financial assistance to needy students with the help of the College management. To conduct seminars and guest lectures by experienced faculty and HRs from industry.
- Involve the students from first year to final year to understand the importance of career building, industrial jobs and entrepreneurship.
- To become confident in taking assessments and certifications related to skills required.

### 3. The Context

Most of the SC/ST students come from different socio-economic background. They lag in communication;comprehension of the academic concepts is a big challenge for them.Many of the SC/ST students may not be aware of the basic concepts of the subjects as their importance were not taught at intermediate level. Students are not aware of the skills required for employability. Hence in VJIT, we have initiated this scheme to motivate and improve SC/ST student's skills.

### 4. The Practice

- Conducted training classes GATE/ GRE /TOFEL
- NPTEL Certifications
- Google Cloud Readiness Program
- CRT- Campus Recruitment Training programs: The Institute invites Soft Skill Trainers from Talentioand Instack to provide training,
- IIT Bombay Spoken Tutorials
- Oracle Certifications
- Making students to improve coding skills through HackerRank platform.
- Develop entrepreneurship among the students.

### 5. Evidence of Success

- 15 SC/ST students ae certified in CISCO Network Essentials (2021-2022)
- 8 SC/ST students ae certified in CISCO Programming in Python (2021-2022)
- 4 SC/ST students ae certified in CISCO Programming in C (2021-2022)
- 79 SC / ST students are placed in different MNCs in 2022-2023
- 22 SC / ST students have got Oracle certifications in 2021 - 2022.

## 1. Identify the problems encountered and resources required to implement the practice

### Problems Encountered

- Counseling& Motivation to the SC/ST students to attend the training programs.
- Awareness about the importance of skills training is less than needed.
- The marginalized SC/ST students are those castes/races in the state that suffer from extreme social, educational and economic backwardness arising out of age-old practice of untouchability and certain others on account of lack of facilities and geographical isolation. Hence, they don't come forward to

participate in any activities. Hence PRAYUKTHI- VJIT will create more confidence and gives lot of motivations.

- They believe that there is no use in higher education for girls and jobs in abroad.
- Fear of reputation being ruined hence required more motivation
- Not willing to participate in the events due to the quality of education they have received base level.
- Lack of support from family as they hesitate to send their kids for jobs in abroad.

#### **Resources required for implementing practice**

- Dedicated faculty team to work under PRAYUKTHI- VJIT Center
- More resources like learning materials, coaching classes, trainings, etc....
- Dedicated Computers to the students to practice model tests and to take the regular assessments.