7.2. Best Practices:

1. Title of Practice:

Skill for Employability & Enhancement of Knowledge (SEEK program)

2. Objectives of the Practice:

1. To build the bridge between industry and academia.

2. To provide training in various trades that are in high demand in society and have good job prospects.

3. To Help students in discovering their interests, aptitudes and potentialities.

4. Maximizing their potentialities and boosting self confidence.

5. To ensure overall development of students and scholars with the help and support of appropriate skilling mechanisms/methods and modes.

6. To enhance the ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

7. To provide an opportunity to students to practice the concepts learnt in a classroom, in real-life situations/company/organisation/industry in both virtually and physically means.

3. The Context:

To impart skills for jobs across all levels of workforce in the Technology and develop an interdisciplinary talent hub. Skill for Employability & Enhancement of Knowledge (SEEK program) is offered in which students are trained with different skill sets to enhance their knowledge in the areas which are required in industries.

Jobseeker (student) → Trainers train required skills → Skill enhancement → Dream career

![Vaagdevi College of Engineering logo]

Viswambhara Educational Society
VAAGDEVI COLLEGE OF ENGINEERING
Autonomous
Approved by AICTE & Affiliatied to JNTUH, Hyderabad
Bollikunta, Warangal – 506 005 (Telangana State)

4. The Practice:

Vaagdevi College of Engineeing has identified certain job skills that are likely to be in high demand in upcoming time. The best way to prepare students is to acquire technical skills and prepared a 04-year RoadMap in order to provide right skillset at right time to our students.

Vaagdevi College of Engineering offers various SEEK development activities for students of different streams, which are listed as:

For Electronics & Communication Engineering department:

- ➢ Electronic Design and fabrication
- ➢ Skill development programme on MATLAB
- ➢ VLSI and ECAD Design
- ➢ Digital Circuit Design & Optimization using CAD Tools
- ➢ Texas Instruments Innovation Center, which includes:
  - Courses on Low Power Design
  - VLSI
  - Embedded Systems
  - IOT
  - Cloud Services

For Computer Science & Engineering department:

- ➢ CISCO – Center of Excellence, which includes around 46 certification Courses on:
  - CCNA
  - IOT
  - Cloud Computing
  - C++
  - Linux
- ➢ DELL EMC – External Research and academic Alliance
  - Certification on Data Science

For Civil Engineering department:

- ➢ Certificate course in design and detailing using Midas – Civil and Midas-Gen
- ➢ Certificate course in finite element modeling using Midas – FEM

➢ Certificate course in structural drafting using Auto CAD

For Mechanical Engineering department:

➢ Pro-E and ANSYS Certification

➢ HVAC Certification by using Revit Software

For Electrical & Electronics Engineering department

➢ MATLAB (4 WEEK) and Typhoon HIL certification

Multidisciplinary SEEK activities are:

➢ Internet of Things in the field of Advanced Microelectronics

➢ IBM smart bridge in the field of Machine learning and Artificial Intelligence.

➢ Programs on Entrepreneurship, IPR and Innovations.

➢ Conduct of Hackthons, Ideathons.

Summary of Trainings provided

S.No	Program Title	Name of the Co-ordinator	Class	No. of Hours	No. of students Attended	Certification Yes/No
1.	Data Science & Big Data Analytics **DELL EMC**	Dr.Thanveer Jahan	III & IV	40	50	YES
2.	Data Science & Big Data Analytics **DELL EMC**	Dr.Thanveer Jahan	III & IV	40	50	YES
3.	CCNA Completed Module-I,II & III Ongoing Module-IV **Cisco Certified Network Associate**	Ch.Aravind Kumar, E.Goutham & D.Anil	IV	222	22	YES
4.	CCNA Completed Module-I & II Ongoing Module-III **Cisco Certified Network Associate**	Ch.Aravind Kumar, E.Goutham & D.Anil	IV	148	15	YES

5.	CCNA Ongoing Module-I **Cisco Certified Network Associate**	Ch.Aravind Kumar, E.Goutham & D.Anil	III	74	25	YES
6.	CCNA Ongoing Module-I **Cisco Certified Network Associate**	Ch.Aravind Kumar, E.Goutham & D.Anil	III	74	16	YES
7.	A Short-Term Certification Course on embedded system design using ARM CM3 in association with **C-DAC**, **Hyderabad**	Dr. K. Soujanya	IV	112	50	YES
8.	Short Term training program on embedded systems and IOT **Texas Instruments Innovation Centre**- Internship programme	M.Devadas & M.Shivaprasad	IV	84	60	YES
9.	Short Term training program on msp430 & its applications in embedded system and IOT **Texas Instruments Innovation Centre**- internship programme	M.Devadas & M.Shivaprasad	III& IV	84	72	YES
10.	Programming in JAVA **NPTEL**	G. Neelima M. Swapna P.Rajkumar	II	35	220	YES

11.	Python for Data Science **NPTEL**	Mr. M.Mruthyunjay B. Krishna	III	35	200	YES
12.	Electronic Design and fabrication	Dr. Hemant Kumar Gupta	II	180	40	NO
13.	Skill development programme on MATLAB	Dr. M. Ranjeeth	II	180	40	NO
14.	VLSI and ECAD Design	Dr. Pankaj Rangaree	II,III	240	60	NO
15.	Digital Circuit Design & Optimization using CAD Tools	Dr. Jitesh Shinde	II	180	40	NO

Evidence of Success:

Vaagdevi College of Engineering has proved the success story again in terms of number of placements in this pandemic situation. Best practices of coming to the enlistment groups and working intimately with Officials of Talent Acquisition accomplished this milestone by putting understudies with first grade MNCs and ended up being a captivating objective for scouts to satisfy their ability procurement.

Best Practice :

Title: Centre of Excellence for Learners Support Mechanism (CELS)

A mechanism description is to convey to the reader a technical understanding of the function, appearance and operation of the particular object.

Learning and teaching methods and mechanism
Learning and teaching mechanism include different ways in which learner would be exposed to many different learning environments and conventions.

The three major approaches are:

1. Lectures

2. Practical

3. Super visions

1. Lectures: Lectures are arranged for the whole class and define the content and scope of the score. Generally lectures are delivered with the help of various handouts, yet these handouts cannot replace the lecturer .It is expected that whatever the form of the lecture and hand out, it is important that learner take time to review and consolidate the outcome.

2. Practical work: Students should approach all practical work with a positive attitude and strive to learn from the example or experiment, be it in laboratory or field work.

 3. Supervisions: Supervisions are small-grouped- teaching sessions that are conducted in the

Institution.

The following mechanism illustrates teaching mechanism:

Goals   Objects   Frame work

Objectives   Internal resource —2 Methods

Subjects   External conditions   Tools

Process of the practice:

Student growth objective (SGO):

S. No	Type of SGO	Definition	Example
1	a)Course level	Focused on the entire student population for a given course which often includes multiple classes	Covers all of the students in a teachers classes
2	b)Class level	Focused on the student population in a given classes	Covers all of the student
3	c)Target student	Focused on a sub-group of students that need specific support	Covers all of the

secured less marks

below pre-

assessment

4   d)Targeted content   Focused on specific skills or content that

student must master0 Only targeted student

Student learning Objective (SLO): A student learning objective is a measurable, long- term, academic goal that is set by a teacher or group of teachers, at the beginning of the academic year for all students.

Potential strengths of SLO: Some of the reasons, the SLOs process is used widely because SLOs are versatile, teacher driven and adaptable.

By inculcating the two objectives of above mentioned mechanism we can easily overcome the problems of a set of student's difficulties that they encounter during the learning process.

A comparative study of Sydney University, Australia shows that their learning processes include a way of conceptualizing the parameters of productive and non productive difficulties experience by students while they learn.

Leaning outcome assessment: Leaning outcomes can be obtained by reviewing student assignments, projects, and exams. Learning outcomes can be either way, directly or indirectly. Below are some examples of direct and indirect measures of assessment.

Direct measures:

Course assignment (secondary reading of an SA, Problem from a home work set, paper, project, Performance)

Pre/post program exams

Learning portfolios

Standardized tests

Indirect measures:

Student exit surveys

Alumni/employer surveys Focus groups

Interviews

Course evaluations

Learning portfolios

Inference: The Institution has a skilled pool of teacher who play a crucial roles in assisting learners to engage their understanding building, learner's understanding, and correcting misconceptions by observing and engaging them during the process of learning.

PRINCIPAL
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