

Best Practices for the Academic Year 2020-21

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.



4. The Practice:

Vaagdevi College of Engineering 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	Ch.Aravind Kumar,	IV	222	22	YES

	Ongoing Module-IV Cisco Certified Network Associate	E.Goutham & D.Anil				
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 Practices for the Academic Year 2020-21

1. Title of the Practice:

MENTORING SYSTEM FOR STUDENTS

2. Objectives of the Practice:

To minimize dropouts, improve performance and reduce stress of the students through personal counselling.

3. The Context

Students face various forms of stress - personal, academic, physical, mental etc., Considering that students are new to professional college life, it creates a lot of stress, especially to hostel students who are away from their family for the first time. Students from educationally weak background feel inferior, hesitate in class and are unable to perform well due to inhibitions. Statistics reveal increase in number of suicides and dropouts. Considering the student-teacher ratio in classrooms, at times it is difficult to give individual attention to students in the class. One solution therefore is a 'Mentor' who can develop a bond with students in true sense. Mentoring is required for students to achieve emotional stability and to promote clarity in thinking and decision making for overall progress.

4. The Practice:

- Each teacher is assigned up to 20 students during the course of their 4 years.
- Each mentor is provided with a file comprising of students' academic profile, career aspirations, hobbies, subject information, term-wise record of mentorship plans, report of parent-teacher meetings, record of participation of the students in co-curricular and extra-curricular activities and achievements.
- They meet at least once a month to discuss, clarify and share various problems which may be personal or academic.
- The mentors encourage the students to participate in co-curricular and extracurricular activities and sports.
- Their academic performance and other activities are monitored and recorded.

- The mentors also keep in touch with the parents regarding the student's attendance, test performance, fee payment, examinations etc., on weekly basis.
- The mentors also counsel the students who might be in need of emotional support.
- When students face any problem in any department, either with the staff or work completion, the mentors take necessary corrective measures to sort the problem.
- Mentors take special care of weak students, who are given advice on how to study, prepare a time table, clarify the doubts and also give notes to study.
- Chief Mentor of the department monitors the progress of counselling of students by their respective mentors.
- Students' problems are discussed with the parents, department heads, other faculties and necessary actions are taken to resolve them.

5. Evidence of Success:

This practice has shown improved results in the examinations, attendance, dropouts, participation in co-curricular and extra-curricular activities, better discipline on campus. The students are more relaxed and have a healthy relationship with the faculties.

6. Problems Encountered and Resources Required:

The college understands and acknowledges the need for effective mentoring for better outcome for its students. Though there was an overall improvement in various facets of students' life, problems are still encountered. Few of them are, reaching out to each student individually due to the large number of students in the class, tracking outcome, lack of motivation among students etc.