

## **Best Practises**

### **Best Practise -I**

**1. Title :**

Enrichment of Employability & Entrepreneurship Skills

**2. Objective:**

The main objective is to develop employability skills of students and make significant contribution to empower the society.

ACET is aimed to attain the following objectives

1. To attain 100% placement of students.
2. Improving skills of the students from basic level to advance level.
3. Continuous training programmes for students from first year (Aptitude tests & Communication skills) which helps them throughout their carrier.
4. Ensuring quality and application oriented programme.
5. Different skills development programmes for market requirements.
6. To build strong market competencies rather than mere qualifications.

**3. Context:**

In the present scenario, there is a dire need of well qualified and skilled employees to perform the tasks. The main goal is to leverage the employability skills and knowledge in multi disciplines with quality output of the students to achieve highest salary/package through

- Collaboration with industry and the college
- Considering Student's goals and jobs.
- Long term skill enhancement programme
- Continuous training programmes with live projects.
- Hands on experience.

**4. The practise**

Aditya College of Engineering & Technology (ACET) provides skill development and campus recruitment training programmes for the students from first year. It also encourages students to join NPTEL and APPSDC courses.

From the beginning of their course besides curriculum the students are oriented towards skills development programmes to meet the market needs and providing training in employability skills by the end of the course. It gives an opportunity to students to enhance their knowledge, core and soft skills to carve their future.

The institution strategically addresses the needs of students according to their interests and the skills required to be employed in a desired Job. The emphasis is laid on the technical, core and mental ability skills of the students.

The training programme comprises of the core and soft skills like Arithmetic, Aptitude, Reasoning, General Knowledge and English Language for Communication, Verbal Reasoning, Group Discussions, Interview Skills, Resume drafting, Inter and Intra personal skills such as personal and corporate etiquette, Time management and Goal setting.

Academic training system includes live projects, personality development, student certification and placement and job assistance programmes

The major steps undertaken to bag the job opportunities:

- The training programme runs in parallel with academic schedule
- From the first year weekly 1-2 hours' intensive training programme is given to prune the skills of students through online and offline mode.
- The training frame includes weekly assignments, practice tests, Badge tests, and final tests to check and analyse the performance and abilities acquired through the programme.
- From the second year a rigorous training programmes are designed to suit the market perspectives and student interests.
- A Strategic training is offered in the latest technologies like

**CCNA, Networking essentials, cyber ops, web design, data base fundamentals, network fundamentals. Java developers, Android developer, automation anywhere,**

**Revit Architecture – structure. Auto CAD, Cyber security analyst, data science, big data analytics, Sales force, Industrial automation, Robotics, Math hawks, Animatronics, web development by python. Revit. Tekla structures, Ui path, hyper mesh, AWS sys ops administration. Ardurobot, IOS VR and AR, game programming mean stack.** To provide Hands on Experience.

- Well trained trainers create friendly atmosphere in the training process that helps student to learn the concept and understand the difficulty with ease. This helps institute to conduct the programmes in smooth way. These programmes are available in Basic, Intermediate & Advanced level certification. Coding and programming play a vital role in engineering program.

The employability Training rounds are

- Written exam (Aptitude, Reasoning & soft skills),
- Group discussion (current affairs),
- Coding
- Technical (subject knowledge)
- Hiring round (HR)

For each rounds students are trained continuously.

To overcome the psychological fear and inhibitions of students Mock training sessions, Group discussion and Mock-interviews will be conducted at each level of training programme

APSSDC is another platform that enhances the skills of the students providing training in technical and employability skills. Each department has a placement coordinator. All the programs are designed by the Training and Placement to suit the needs of the Industry and market. Innovative initiatives such as Cognizant Training on Technologies, Continuous Training on Industry Skills and Continual Scientific Assessment and Evaluation through CoCubes.com and AMCAT with a National perspective have been proving fruitful. Placement Companies (MNC) feedback is taken to upgrade training activity for future students.

## 5. Evidence of success:

The positive feedbacks received from the companies are very encouraging and supportive. The students performed outstandingly in most of the companies over the years are the evidence of success and ACET has been made a choice of destination for campus recruitment by many companies. Despite the covid-19 pandemic situation, the placements attained by students show a positive sign and excellent progress. Students' placements steadily increased.

Students participated in **GLOBAL ENTREPRENEURSHIP WEEK-2018** held at **NORTHEASTERN UNIVERSITY, BOSTON, USA. VERTICAL DIRECTION** and which is soilless by practicing **HYDROPONICS** and **AEROPONICS** techniques project.

Skills Training Programmes enabled the students to achieve placements. Students placed in **aws, Mindtree, Accenture, Xenon stack, Amazon, DXC Technology, Wipro, Tata consultancy services, Value Momentum, Cap Gemini, techigai, digital trust, Mphasis, ADP, MAERSK, IBM, HEXAWARE, Infosys, Hexaview, MAQ software, keka technologies** are the list of companies in which the students placed every year. The minimum salary package of students placed in different multinational companies with an annual package ranging from **2.48 LPA to 19 LPA**. The eligibility of students for the campus placements gradually increased. Table 2 summarizes the Students skill certifications from NPTEL.

**Table 1: Employability information**

<b>S.No</b>	<b>Academic year</b>	<b>No of students Eligible</b>	<b>No of students got placement</b>	<b>Percentage %</b>
01	2016-17	393	141	35.87
02	2017-18	460	288	62.60
03	2018-19	501	314	62.67
04	2019-20	517	379	73.30
05	2020-21	629	592	94.11

**Table 2: NPTEL Data**

<b>Academic Year</b>	<b>Total students attended exam</b>	<b>Qualified Students</b>	<b>Successful Students</b>	<b>Elite</b>	<b>Elite +Silver</b>	<b>Elite +Gold</b>	<b>Elite Silver +Top 5%</b>	<b>Elite+Gold +Top 2%</b>
2016-17	2	2	2					
2017-18	89	49	43	6				
2018-19	287	234	177	45	8	3		1
2019-20	196	94	41	32	18	1	1	
2020-21	16	5	2	2	1			

**Table 3: Average Package of Students with academic year**

<b>S.NO</b>	<b>Academic Year</b>	<b>Average Package of students</b>
01	2016-17	2.48 LPA
02	2017-18	2.60 LPA
03	2018-19	2.90 LPA
04	2019-20	3.55 LPA
05	2020-21	3.80 LPA

**Table 4: List of Companies & Students placed**

<b>Academic Year</b>	<b>No of companies</b>	<b>Students Placed</b>
<b>2016-17</b>	<b>40</b>	<b>141</b>
<b>2017-18</b>	<b>43</b>	<b>288</b>
<b>2018-19</b>	<b>45</b>	<b>314</b>
<b>2019-20</b>	<b>57</b>	<b>379</b>
<b>2020-21</b>	<b>105</b>	<b>592</b>

**Table 5: List of Entrepreneurs**

SNO	Entrepreneur Name	Registered company name	Address	Link
1	Mr. Bala Siva Tarun Karanam	Hydro Tribe Private limited	Innovation& TBI, Indian Institute of Information Technology Sri city, Chitoor, AP	<a href="https://www.iiits.ac.in/innovation-tbi/gyan-circle-venure-tide2/current-startups/">https://www.iiits.ac.in/innovation-tbi/gyan-circle-venure-tide2/current-startups/</a>
2	Mr. Krishn Kumar Mishra	Augmentik software private limited & Agumentik Educamp Private Limited	Hill No :3, IT- SEZ, Sunrise Startup Village Rd, Startup Village, Pedda Rushikonda, Rushikonda, Visakhapatnam, Innovation Valley(AP INNOVATION SOCIETY), Andhra Pradesh 530048,	<a href="http://www.agumentik.com">www.agumentik.com</a>

**Table 6: List of MoU's**

SNo	Name of Institution/industry/corporate	Year of sign
1	Redhat Academy	2021
2	Electropro	2021
3	HEROVIDE	2021
4	AWS educate	2021
5	Centre for Excellence in Maritime and ship Building (SEMS)	2020
6	UiPath Academic Alliance	2019
7	APSSDC	2018

**6. Problems encountered and Resources required**

- Most of students are form rural background finds complexity in understanding spoken language of the trainers. Special classes are conducted to enhance the communication skills of the students.
- Quality, professional & committed trainers are required for the programme.

- To smooth conduct of continuous training programme resources such as separate digitally equipped classroom for video lectures, mock tests, mock-interviews training, communication labs, Hands on experience, Online exams practise etc is required .

## **Best Practices 2**

### **1. Title**

Student proctoring system.

### **2. Objective**

The main objective is for an uninterrupted proctoring student in each classroom for different branches of engineering. Continuous enhancement of students in all aspects is only possible by teacher. Proctoring is regular development activity implemented in our college firmly.

The objectives of our college are:

1. Student-Teacher relationship is enhanced.
2. Counseling students' regularly facilitates to solve their problems that help to enhance student confidence in faculty.
3. To motivate students towards career oriented programmes.
4. To improve the pass percentage of students.
5. To identify the slow learners, guide them towards academic & carrier prospectus.
6. To identify the advance learners and encourage towards their goals and ideas towards start-ups.

### **3. Context**

This proctoring system is mainly introduced with a unique objective of knowing the student in person, diagnose all about his abilities and disabilities, pros and cons, likes & dislikes. Basing on this aspect, a very well designed mechanism is initiated which works for the overall development of the students. It's been a very regular practice that the principal addresses the student and explains the importance of this system.

The problems faced by the students in the past years are collected and designed a new mechanism for the overall development of the students in the college proctoring system introduced. Every year orientation program is conducted by the principal and explains the importance of the proctoring system to the students.

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

Nearly 80% percentage of students comes to college from rural or village background. Most of the students are from low economic families. The uniqueness of the proctoring in Aditya college of Engineering & Technology (ACET) is the gap between the

student and faculty reduced, not only improving in academics but also in placements. Both of them will collaborate and produces fruitful results for the development of the institute.

The proctoring had been introduced in Aditya College of Engineering & Technology with the main objective to counsel students and continuous support to students in their academic, non academic and personal issues. Overall development of the students is possible through the proctoring system. This system is continuous effective process that starts from first year to final year of the course.

All teaching faculty of the college act as a proctor. Every proctor will be regular contact with the parents. Every proctor act as guide or guardian to students. The main duty of the proctor is to improve the student confidence; academic aspects, career guidance, sports, enterpreunship, extra-curricular activities & R&D activities.

20-25 students will be allotted to one faculty or proctor. Regualr meeting with students and parents will be conducted by a proctor. The student progress will be updated to the parent through phone/e-mail by proctor. The proctorial process is continuous process.

Proctorial process involves the following:

- Every semester 20-25 students are allotted to proctor.
- Proctoring process is incessant process, where the teacher, head of the department and college principal are involved.
- The proctor book contains student complete information from the first year to final year study.
- Identifying the student's strengths and weakness.
- Mid-marks, sessional marks, lab marks and attendance month wise and semester wise is entered in the book.
- Complete student information is available in the proctoring book.
- Every month academic and attendance information related to student send to parents. Illiterate parents will be informed through phone.
- .The principal acts as Chief proctor for the college. The head of the department acts as a deputy chief proctor
- Slow learning students are identified they will be given guidance in their appropriate subject.
- Student academic and attendance monitored by the head of the department.
- Special students will be given special counseling by proctor and head of the department Every week students meet their proctor on stipulated time.
- Continuous career guidance will be given to students.
- Girl students cannot express their grievance to male faculty in such cases female faculty will be assigned.
- Proctors deals the psychological and emotional problems.

## 5. Evidence of Success

For a proctor or a teacher the growth of the student is happiness and success. This process is truly a job satisfaction. The evidence of success for student proctoring system is reflected in overall development of students in the college.

Evidence of success include students participated in sports, university ranks, increase in **placements, higher education students**, good discipline in the campus, Enhanced participation in technical events conducted by National and International organizations, **Entrepreneurships and start-ups**. Students successfully completed certifications from **Swayam-NPTEL** Students successfully started startups which turned into industries.

**Table 1: Placement information**

S.No	Academic year	No of students got placement
01	2016-17	141
02	2017-18	288
03	2018-19	314
04	2019-20	379
05	2020-21	592

**Table 2: Higher education-students**

Academic Year	Number of students
2016-20	15
2015-19	18
2014-18	18
2013-17	10

**Table 3: Certified students from SWAYAM-NPTEL**

<b>Academic Year</b>	<b>Total students attended exam</b>	<b>Qualified Students</b>	<b>Successful Students</b>
2016-17	2	2	2
2017-18	89	49	43
2018-19	287	234	177
2019-20	196	94	41
2020-21	16	5	2

**Table 5: Student startups**

<b>S.N O</b>	<b>Name of the Student &amp; Department</b>	<b>Department</b>	<b>Startup name</b>
1.	Mr.Bala Siva Tarun Kumar	Mechanical Engineering	KARANAM TECH
2.	Mr. Poliseti BhaskarTeja	Civil Engineering	BABA ADZ
3	Mr.Nemani Sanjay	ECE	QQ ADS
4	Mr. Krishn Kumar Mishra	CSE	AUGUMENTIK SOFTWARE

### **6. Problems Encountered and Resources required**

- The college is situated in the rural area most of the students come rural background Students are not rendering to this proctoring process. The faculty or proctor play vital role in understanding the proctoring process.
- At starting stage students are not ready to express their feeling queries problems to the faculty as they are new to institute.
- Preliminary stages the problems come across by proctors are not sufficiently trained to counsel the students.