

ADITYA

COLLEGE OF ENGINEERING & TECHNOLOGY

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7.2 Best Practices

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PRINCIPAL

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SURAMPALEM- 533 437





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Best Practice-I

1. Title of the practice

Enrichment of Employability & Entrepreneurship Skills

2. Objectives

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. To improve 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. To ensure quality and application oriented programme.
5. To conduct 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.





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4. The practice

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 APSSDC 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 analyze 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.





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- 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 are 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.





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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 the students shows positive sign and excellent progress. Students' placements steadily increased. One of our student participated in global entrepreneurship week-2018 held at northeastern university, Boston, USA. Vertical direction and which is soilless by practicing hydroponics and geaponics techniques project (see Table 5).

Skills Training Programmes enabled the students to achieve in placements. Students' were placed in various reputed companies like 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 (see table 4) placed every year. The minimum salary package of the students placed in different multinational companies with annual package ranging from 2.48 LPA to 19 LPA. (see Table 3) The eligibility of students for the campus placements gradually increased (see Table 1). Table 2 summarizes the Students skill certifications from NPTEL. Our institution always stood to empower the students providing training for placement and skill development to progress in their future.




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Table 1: Employability information

S.No	Academic year	No of students Eligible	No of students got placement	Percentage %
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

Academic Year	Total students attended exam	Qualified Students	Successful Students	Elite	Elite +Silver	Elite +Gold	Elite Silver +Top 5%	Elite+Gold +Top 2%
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			





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Table 3: Average Package of Students with academic year

S.NO	Academic Year	Average Package of students
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

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




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Table 5: List of Entrepreneurs

SN O	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	https://www.iiits.ac.in/innovation-tbi/gyan-circle-venue-tide2/current-startups/
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, Andhra Pradesh 530048,	www.agumentik.com

6. Problems encountered and Resources required

- Most of the students are from rural background find 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.




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Best Practice 2

1. Title of the practice

Student Support System (S³)

2. Objective

The objectives are:

1. To enhance student-teacher relationship.
2. To counsel students' regularly will solve their problems that help to enhance student confidence in faculty.
3. To motivate students towards career oriented & Entrepreneurship programmes
4. To identify the slow learners, guide them towards academic & career prospectus.
5. To identify the advance learners and encourage towards their goals and ideas towards start-ups and entrepreneurship.

3. Context

This student support system is an overall development of the student in academic and career oriented. It is mainly introduced with a unique objective of knowing the student in person diagnose all about his abilities, strengths and weakness towards academic and career. Basing on this aspect, a very well designed mechanism is initiated which works for the overall development of the students. Regular student counseling involves proctoring, career oriented counseling, entrepreneurship counseling and startups.

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 by student support system.

4. The Practice:

Nearly 80% of students come to college from rural or village background. Most of the students are from low economic families. The uniqueness of the student support system in Aditya college of Engineering & Technology (ACET) is to reduce the gap between student and faculty not only improving in academics but also in placements. Both of them will collaborate and produces fruitful results for the development of the institute.





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The S³ has 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 support system. This system is continuous effective process that starts from first year to final year of the course. Proctoring students, student counseling, career counseling involves in the practice of student support system.

All teaching faculty of the college act as a proctor. The main duty of the proctor is to improve the student confidence; academic aspects, career guidance, sports, entrepreneurship, extra- curricular activities & R&D activities.

Regular meeting with students and parents will be conducted by the faculty. The student progress will be updated to the parent through phone/e-mail by faculty. Student support system is a continuous process from first year to final year of course.

This process involves the following:

- Nearly 20 students are allotted one faculty. He will be the proctor for those student's upto their course.
- This process is incessant process, where the teacher & Head of the department are involved.
- Identifying the student's strengths and weakness.
- Complete student information is available in the proctoring book maintained by the faculty.
- Every month academic and attendance information related to student will send to parents. Illiterate parents will be informed through phone.
- Slow learning students are identified they will be given guidance in their appropriate subject.
- Every week students meet their faculty on stipulated time.
- Continuous career guidance will be given to students.
- Constant encouragement to students by counseling and motivating towards the career and academic perspective.
- Continuous support for students in participating in sports, curricular and extracurricular activities.





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- Student academic and attendance monitored by the head of the department.
- Girl students cannot express their grievance to male faculty in such cases female faculty will be assigned.
- The faculty deals the psychological problems of the students and constant care is taken.

5. Evidence of Success

For a teacher the growth of the student is happiness and success. This process is truly a job satisfaction. The evidence of success for student service system is reflected in overall development of students in the college. (see table 1)

Evidence of success include students participated in sports, university ranks, increase in placements, higher education students, qualified in National/International level exams, enhanced participation in technical events conducted by National and International organizations, Entrepreneurships and Start-ups. Students successfully completed certifications from Swayam-NPTEL (see table 3). Students successfully started startups which turned into industries. (see table 4)

Table 1: Placement information

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





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Table 2: Higher education-students

Academic Year	Number of students
2017-21	01
2016-20	15
2015-19	18
2014-18	17
2013-17	10

Table 3: Certified students from SWAYAM-NPTEL

Academic Year	Total students attended exam	Qualified Students	Successful Students
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 4: Student startups

S.N O	Name of the Student & Department	Department	Startup name
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	AUGUMETK SOFTWARE





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Table 5: Students benefitted by guidance for Competitive Examinations and Career Counselling

S.No	Academic Year	Number of students participated
01	2020-21	2341
02	2019-20	1377
03	2018-19	1772
04	2017-18	1443
05	2016-17	801

Table 6: Number of Qualifying in state/National/International level exams

Academic Year	2020-21	2019-20	2018-19	2017-18	2016-17
Number of students appeared	15	38	8	6	10
Number of students qualified	15	38	8	6	10

6. Problems Encountered and Resources required

- The college is situated in the rural area most of the students come from rural background Students are not rendering to this process.
- At starting stage students are not ready to express their feeling queries to the faculty as they are new to institute.
- Constant interaction with faculty the problem is reduced.

