7.2 Best Practices

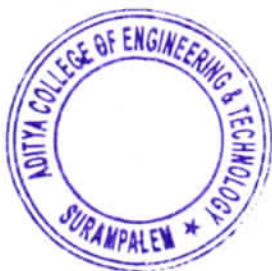| S.No	Title of the practice	Page numbers
1	Research and Innovation	1-4
2	Merit scholarship scheme	5-7

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Best Practice I

1. Title of the practice

Research and Innovation

2. Objectives of the practice

The objectives are

- To motivate and encourage faculty in publishing research papers & projects.
- To encourage faculty towards research by providing incentives.
- To conduct workshops, conferences and seminars in national and international level.
- To encourage faculty members for doing research in their thrust areas.
- To enhance and achieve consistency in research.

3. The context

Aditya College of engineering & technology creates a positive environment that helps to enhance faculty personal growth as well as institutional growth. Creating passion towards research activity. ACET encourages the faculty to join in Ph.D admission in various universities/NIT/IITs.Faculty members involving research help them to create knowledge and sharing knowledge. Research inspires personal growth and inspires the advancement of individual and cluster. Research is a tool for building knowledge and facilitating learning.

Research incentives are constantly providing to the faculty to encourage them in research to publish research papers in high impact factor journals, books, conferences (international and national). Encouraging the faculty in undertake consultancy projects given by government and international organizations. Innovation persuades faculty to do research, explore novel ideas and use different tools for creating new.

4. The practice

- Aditya College of Engineering & Technology provides research incentive scheme every year for the contribution in all areas of research for the faculty.
- The college provides incentive for research journals published in SCI, UGC & Scopus by the faculty individually or collaboration.

1

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- ACET also provides incentive for the conference (International and National), Seminar, Books and Book chapters.
- Encourage the faculty for innovations, patents and books.

5. Evidence of Success

ACET endeavors hard to make a position for themselves in every field of research. Every year workshops and conferences is held from various domains share their knowledge through their interaction with the participants. Table 1 & 2 gives information about research publications, conferences (International &National) published/presented by our faculty. Table 3 provides information on conferences/workshops organized by the college.

- 01 faculty from CSE department working as a Research guide. Under his research guidance o1 student is perusing Ph.D.

Table 1: Research Publications

S.No	Year	SCI journals	Scopus	UGC journal
01	2018-19	02	04	26
02	2017-18	06	03	13
03	2016-17	01	01	11
04	2015-16	--	---	22

Table 2: Papers presented in National/International conferences

S.No	Year	International conferences	National conferences	Scopus Indexed International conferences
01	2018-19	11	03	03
02	2017-18	08	--	04
03	2016-17	19	05	08
04	2015-16	06	04	07

2

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Table 3: List of Workshop/Seminars organized.

S.No	Year	Number
01	2018-19	05
02	2017-18	04
03	2016-17	03

Table 4: List of Research grants

S. No	Year	Title	Amount sanctioned (in Lakhs)	Duration of the project	Name of the funding Agency	Type (Government/ Non-government)
01	2018-19	A Faculty Development Program on Applied Cryptography and Machine Learning	5.38	15 days	All India Council for Technical Education (AICTE), New Delhi	Government
02	2018-19	A two day National level Seminar on Deep Learning for Bioinformatics (NSDLBI-2018)	01	2 Days	Science and Engineering Research Board SERB	Government

Table 5: Information related to patents.

S.No	Academic Year	Department	Number of Patents
01	2018-19	ECE	01
		CSE	03

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6. Problems encountered and Resources

- Plagiarism is the biggest problem faced by the faculty doing research. The college management provides the plagiarism software tools for the better progress in research.
- At the entry faculty requires constant motivation for research, our management provides expert talks from various organizations to create passion towards research among faculty peer groups.
- The faculty was encouraged to carry out research in addition to teaching. Regular concern is taken for the quality of teaching –learning experience.

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Best practice II

1. Title of the practice
Merit scholarship scheme

2. Objectives of the practice
The main objective of the scheme is
- To provide financial assistance to the meritorious student and financial weak students to pursue technical education in the college.
- To provide holistic education.
- To offer quality education at affordable costs.
- To mould students and make them useful to the society.

3. The context
Education is a source of light in the face of darkness, hope in the face of despair, strength in the face of weakness, and freedom in the face of enslavement. It has the ability to transform a person from a state of lack and ignorance to one of abundance and enlightenment. Education provides us with both means and significance in our life.

4. The practice
Merit Scholarships is another best practice that is initiated by our Institution to encourage students admitted in our Institution with below 40,000 ranks in EAMCET entrance exam conducted by Andhra Pradesh state Government for admission into Engineering Colleges of Andhra Pradesh. This practice is started from the year 2016. It is a supportive solution mechanism for encouraging financially weak and merit students also.

At present financial situation families with average and lower income groups are hesitating in sending their children for higher education becomes almost impossibility. Higher education becomes dream for the financially low income and rural areas. ACET is providing higher education and guidance are provided such that their dream turns into true by giving merit scholarships every year. This motivates the student to challenge himself to reach higher goals in his own life.

5

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5. Evidence of success

ACET provides merit scholarships for the students joined in the college by securing rank below 40,000 in EAMCET conducted by Andhra Pradesh government every year. Merit scholarships had been initiated in the campus form 2016 onwards. This an encouragement for students to reach their goals in near future

- In 2016-17; 79 students got benefited from this scheme.
- Out of 79 students 55% (43) girl students got benefited from the scheme.

Table 1: Students benefited during 2016-17 academic year

S.No	Branch	Male	Female
01	Civil Engineering	01	0
02	Mechanical Engineering	01	0
03	Electrical and Communication Engineering	25	24
04	Computer Science & Engineering	09	18
05	Information Technology		01
	Total	36	43

Table 2: Students benefited during 2017-18

S.No	Branch	Male	Female
01	Civil Engineering	04	01
02	Mechanical Engineering	01	00
03	Electrical and Communication Engineering	21	21
04	Computer Science & Engineering	14	27
05	Electrical and Electronics Engineering	01	01
	Total	41	50

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Table 3: List of students benefited from 2018-19

S.No	Branch	Male	Female
01	Civil Engineering	01	--
02	Mechanical Engineering	01	--
03	Electrical and Communication Engineering	26	21
04	Computer Science & Engineering	08	20
05	Electrical and Electronics Engineering	01	00
	Total	37	41

Table 4: Total Students benefited during 2016-19

S.No	Branch	Total number of students
01	Civil Engineering	07
02	Mechanical Engineering	03
03	Electrical and Communication Engineering	138
04	Computer Science & Engineering	96
05	Electrical and Electronics Engineering	04
06	Information Technology	01
	Total	249

6. **Problem encountered and resources required**

   - Sufficient funds are available to meet the merit scholarships of students every year.

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