



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR
(Established by Govt. of A.P., Act. No. 30 of 2008)
ANANTHAPURAMU – 515002 (A.P.) INDIA

Key Indicator - 7.2 Best Practices

Metric No.		Weightage
7.2.1 QLM	Describe two Best practices successfully implemented by the Institution as per the NAAC format provided in the Manual. Provide web link to: <ul style="list-style-type: none">• Best practices as hosted on the Institutional website• Any other relevant information	30

7.2 Best Practices 1

1. Title of the practice:

Upliftment Of the Students from Rural Backward and Border-belt area through Quality Education

2. Objectives of the practices:

The objective is to enhance the capabilities of students hailing from rural, underprivileged, and border regions through high-caliber education.

- Motivate students to enroll in courses that combine job opportunities with income generation potential.
- Enhance students' academic and extracurricular achievements.
- Deliver exceptional education guided by proficient and qualified faculty members.

3. The context:

The university's core vision revolves around the transformation of rural communities by means of quality education, aiming to uplift their socio-economic status and promote overall development. The institution has been dedicatedly progressing towards this goal, consistently striving to improve the lives of those who are socio-economically and educationally marginalized.

4. The practice

Several initiatives have been put in place to realize this vision:

1. Quality Education: The university prioritizes offering high-quality education that is not only

academically enriching but also practical and relevant to the needs of the rural populace. By providing education that is aligned with current industry trends and societal requirements, the university equips students with the skills and knowledge necessary for their personal and professional growth.

2. Socio-Economic Upliftment: The university recognizes the importance of socio-economic upliftment in rural areas. Through various academic programs and extracurricular activities, the institution aims to instill a sense of empowerment, confidence, and capability among its students. This empowerment not only benefits the students themselves but also has a ripple effect on their families and communities.

3. Inclusivity and Diversity: The university promotes inclusivity and diversity by actively encouraging the enrollment of students from various socio-economic backgrounds. This not only enriches the learning environment but also creates a platform for cross-cultural interactions and understanding.

4. Skill Development: In addition to formal education, the university emphasizes skill development via value added courses. By equipping students with practical skills that are relevant to local industries and employment opportunities, the institution enhances their employability and economic prospects.

5. Community Engagement: The university doesn't limit its impact to the campus alone. It actively engages with the local community through outreach programs, workshops, and awareness campaigns. This engagement fosters a sense of partnership and collaboration between the university and the community it serves.

The university's commitment to the socio-economic upliftment of rural masses through quality education is evident through its various initiatives. By providing financial support, offering relevant education, promoting diversity, and engaging with the community, the institution plays a pivotal role in shaping a brighter future for both its students and the rural areas it aims to uplift.

5. Evidence of Success:

The university has made a significant impact on molding the futures of numerous students, playing a remarkable role in their holistic growth. These students, in turn, have achieved commendable success for the university. Many of them have achieved top rankings in academics, as well as excelled in social, cultural, and sporting endeavors, thereby bringing pride and recognition to the institution.

6. Problems encountered and Resources required

The university predominantly enrolls students from socioeconomically disadvantaged backgrounds. Many of these students' parents have limited educational backgrounds. Encouraging these parents to permit their children to pursue higher education can be challenging.

In particular, there can be resistance to allowing girls to continue their studies, as early marriage is often favored, and for boys, immediate employment is preferred.

To address this issue, it is crucial to raise awareness about the significance of education for both genders. Insufficient awareness has led to a rising number of students dropping out each year. Efforts should be directed towards enlightening parents about the valuable opportunities education can provide for their children's future, regardless of gender.

Resources required

The finance required to carry out all the activities is provided by the Government and the University.


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Best Practice 2:

1. Title of the practice:

Harnessing of Solar Energy

2. Objectives of the practices:

- To tap the alternate energy sources in order to conserve the conventional energy resources and also to bring down the expenditure component of the University, as well as the student community by significant reduction in electricity bill.
- To promote environmental sustainability and reduction in green house gas emissions.

3. The context:

Energy conservation has become a key factor globally for sustainability and also for the reduction of green house emissions. In this regard, various alternative sources of energy such as solar power, wind energy, Biogas etc., are being used by various organizations that will also promote reduction in environmental pollution. JNTUA is also taking part in this global movement of sustainability its own humble way by taking steps to generate solar energy to meet a part of its energy demand.

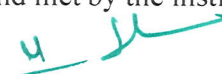
4. The practice

The University is taking an effort in conservation of energy on priority basis as it understands the need for sustainability initiatives. Solar energy is harnessed by installing solar plants on various buildings of the University, constituent Units and the University is generating a solar power capacity of 1472KWP (JNTUA-472 KWP, JNTUACE-Pulivendula: 500 KWP & JNTUACE-Kalikiri: 500 KWP).

The Annual Energy demand CEK for the Academic year 2021-22 (i.e. from June 2021 to May 2022) drawn from APSPDCL is 437608 Kwh. The annual demand met by the institution from the installed renewable energy source is: 402641Kwh. Annual energy exported to grid by the Solar Plant is 341012 Kwh. Therefore Percentage of Annual power requirement of the institution by the renewable source 47.91%.

The Annual Energy demand for CEA the Academic year 2021-22 (i.e. from June 2021 to May 2022) drawn from APSPDCL is **286998 Kwh**. The annual demand met by the institution from the installed renewable energy source (i.e Solar) is **287001 Kwh**. Therefore Percentage of Annual Power requirement of the institution met by the renewablesource is 50%.

The Annual Energy demand for CEP the Academic year 2021-22 (i.e. from June 2021 to May 2022) drawn from APSPDCL is **480252 Kwh**. The annual demand met by the institution from the


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installed renewable energy source (i.e Solar) is **237730 Kwh**. Therefore Percentage of Annual Power requirement of the institution met by the renewablesource is 48.50%.

5. Evidence of Success

Based on the energy consumption and generation by solar power, it is observed that a saving of 45% conventional electrical energy is achieved annually. The energy uploaded to the grid is 419726302.6 KWh (2020-21) and 794205KWh (2021-22). The University is paying an average amount of Rs. 3.72 per unit to the agency which is almost 46% less price than APSDCL tariff

@ Rs. 7.95 per unit. Hence the University has considerably reduced the green house gas emissionsalso.

6. Problems encountered and Resources required

It is heartening to note that JNTUA has not encountered any problems in its efforts to harness solar energy. The initial requirement of resources was finances towards the solar panels and the skilled man power for installing them.


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