



Guru Nanak Institutions, Nagpur
ENGINEERING • MBA • M.TECH • SCHOOL
Distance Education

Guru Nanak Educational Society's
**GURU NANAK INSTITUTE
OF ENGINEERING & TECHNOLOGY**

APPROVED BY AICTE, DTE & AFFILIATED TO RTM NAGPUR UNIVERSITY, NAGPUR
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Criterion 7 - Institutional Values and Best Practices

7.2.1- Best Practices

The following are the two Best Practices successfully implemented by the Institution.

| SR.NO | NAME OF BEST PRACTICE |
|-------|--|
| 1. | MINI PROJECT: (Practical/Innovative learning experience through Mini Project apart from regular university curriculum.) |
| 2. | REACHING TO UNREACHED |

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7.2 : Best Practices

1. Title of the Practice:

Practical / Innovative learning experience through Mini Project apart from regular university curriculum.

2. Objective of the Practice:

To provide better learning experiences to the students and thus implements various methods which would enhance students learning and knowledge. Implementing Mini Project preparation for all years is an approach to infuse practical learning experience in the curriculum. We encourage interdisciplinary research in cutting-edge technologies. Improve the work ethos and make student more responsive to the needs of the society. Upgrade the student's ability to collect, analyze and interpret experimental data.

3. The Context:

The field of engineering education is currently undergoing a paradigm shift with the onus now being on the learner. Students at Guru Nanak Institute of Engineering & Technology learn from a higher platform, in a culture to innovate and with a mind set that they can make a positive difference to the society we all live in. The selection of courses and curriculum design is in line with current and future critical issues and sustainable technologies that serve the society at large. The course structure assigns credits to the industry participation through Mini Projects, Major Projects, and Internships. The internship provides exposure and opportunities for implementation of the knowledge gained academically and also design projects addressing the societal needs. Mini Projects are done as a part of engineering curriculum. It is a platform where engineers can showcase their talent by doing innovative projects that strengthen their profile and increase the chance of employability.

4. The Practice:

The curriculum is redesigned to incorporate the industry needs and the socio-dimensional subjects that would enhance the student self-learning and the projects they take up address the problems of the society. Students are motivated to take up projects from 1st Year of their study along with their Engineering program. This is a good way for students to understand



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topics and theories in a hands-on and practical manner. These projects are based on their branch of engineering or specialization. The projects help students build a portfolio along with learning the skill and mastering the art too.

General guidelines and Assessment guidelines about the progress of mini project work are given to the students. The idea to innovate is encouraged by the Big Idea Competition and the best idea is rewarded. A mini project is an assignment that you try to complete at the end of every semester, especially in engineering to strengthen the understanding of your fundamentals through effective application of theoretical concepts. There are separate credits for each mini project you complete at Academy, although few students taking up a project out of their own interest and passion. Mini project can help students to boost skills and widen student's horizon of thinking. The students and faculty across all departments participate in training sessions and project implementation.

5. Evidence of Success:

Some of the projects carried out by students won best prizes at national level competitions and intercollegiate competitions. Socially beneficial projects to the tune of 6 were implemented by students as a part of their curriculum during the last year. Many patents have been filed in various engineering fields. Students achieve self respect and satisfaction by performing a real-world problem, such as solving a riddle, presenting a business idea, and creating innovative solutions. It supports the development and encouragement of intrinsic rewards.

6. Problems Encountered and Resources Required:

The students come from a diversified background, balancing the curriculum changes between ready learners and slow learners. Maintaining equilibrium between Research and Academia. Identifying and retaining the Research team. Lack of encouraging recipient Industries for projects and internships. Explore prospects for enlarging these participating organizational entities which could potentially contribute complementary resources or expertise. Expertise/training in upcoming Technologies, on a continuous basis. Institutional network beyond the academic sphere. Development of non-scientific skills related to research, such as solving a riddle, presenting a business idea, and creating innovative solutions.

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7.2: Best Practices

1. Title of the Practice:

Reaching to Unreached

2. Objectives of the Practice

- To attract and retain the rural area student talent in higher education
- To empower and shape the rural and backward masses by providing higher education
- To investigate the condition of socially and educationally backward classes
- To acquaint with difficulties and barriers of rural and backward community regarding higher education
- To increase the enrollment to higher education and find out the possible remedies

3. The Context

GNIET is located in rural area. The most of the people are engaged in Farming. The rural population is deprived of quality higher education. The gross enrollment ratio to higher education of rural area student is very poor and situation is very worse for female population. Considering the mission and vision of the institute, college as decided to run the campaign in rural area to increase the student enrollment the higher education.

Under the guidance of Principal teams are formed in college which includes Teaching and Non Teaching Staff. Number of village from nearby villages is assign to each teams. All teams then done the survey and make the plan of action. Each team has list of alumni of the college, who resides in the village with help of them all team personally visited the villages, then they gather all 12 pass student and their parents in one area by making phone call, conducting the corner meeting and they deliver the seminar to them. Seminar contain the importance of higher education. career guidance, admission procedure, job opportunity in various sectors. Government schemes in higher education etc. every team has collected the data from the village assign to them.

4. The Practice

The college has decided to do Awareness of Higher Education campaigning at following villages **Lava, Bramhni, Waroda, Ubgi, Sawangi, Ashti and Tondakhairy.**

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In order to successfully carry out activities, staff coordinators with three to four members have been nominated for each of the chosen villages. Such initiatives have raised the students' consciousness and have offered insight into villagers livelihoods.

Evidence of Success

Following table indicates the success story of campaigning

| Sr. No | Year | Name of Coordinator | Name of Team | Name of Villages | Number of Students turn to Higher education |
|--------|-----------|---|--------------|---|---|
| 01 | 2018-2019 | Prof. Akata Mesharam Assistant Professor, ASH Department | | Lava-1 Bramhni-1 Waroda-2 Ubgi-1 Sawangi-1 Ashti-1 | 07 |
| 02 | 2019-2020 | Prof. Ayaz Khan Assistant Professor, CSE Department | | Tondakhairy-1 Waroda-2 Bramhni-1 | 04 |
| 03 | 2020-2021 | ----- | | ----- | ----- |
| 04 | 2021-2022 | Prof. Akashay Pillewan Assistant Professor, EE Department | | Waroda-2 Tondakhairy-1 | 03 |
| 05 | 2022-23 | Prof. Vijaya Kamble Assistant Professor, CSE Department | | Tondakhairy-1 Waroda-2 Bramhni-1 | 04 |

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Outcomes

Campaigning is useful to improve the educational status of the people who live in the targeted villages. The enrollment of students from SC, ST, OBC, NT, SBC and specially women have increased notably in college.

1. The awareness about higher education has increased in the students as well as in parents.
2. Improvement in the good community contact with stakeholders.

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GNIET Students received Certificates in Project Competition



GNIET Students presented project in project Competition

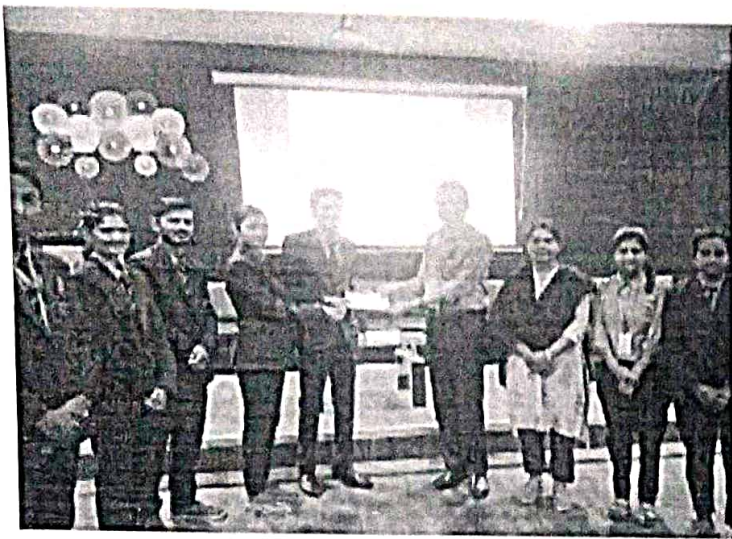


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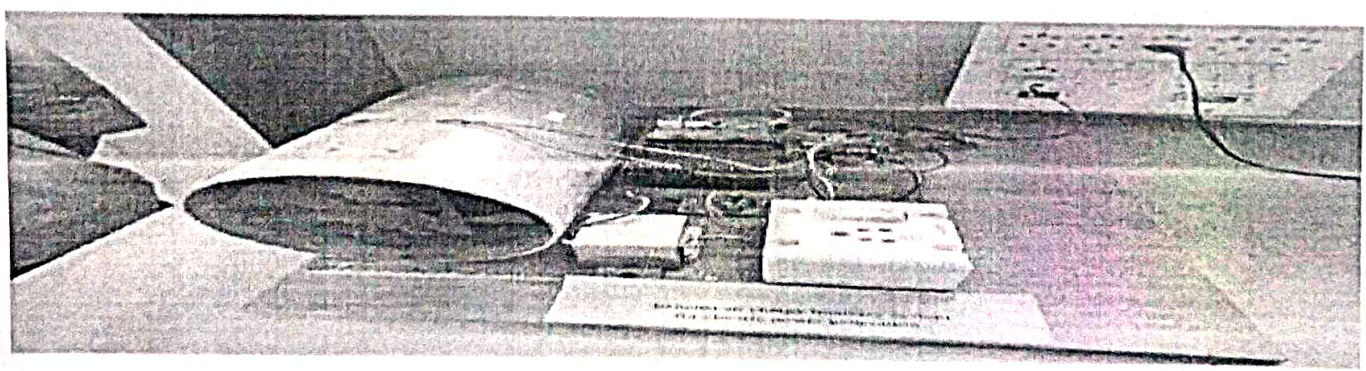
GNIET Students presented project in project Competition



GNIET Students rewarded Best Idea in Idea Competition



GNIET Students presented project in project Competition



GNIET Students presented project in project Competition

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