



# Shri Guru Gobind Singhji Institute of Engineering and Technology, Nanded

An Autonomous Institute cent-percent funded by Govt. of Maharashtra

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*Vision of SGGSI&T, Nanded: "Education of human power for technological excellence"*

## Best Practices at Shri Guru Gobind Singhji Institute of Engineering and Technology, Nanded

### Best Practice – 1: Rotations of important leadership positions

#### Title of the Practice – Rotation of Head and Dean positions

The positions of head of the department and deans are on a rotation basis.

#### Objectives of the Practice

The rotation of faculty on the position of responsibility is to,

- Encourage leadership and sense of responsibility with understanding of institute practices.
- Engagement of faculty in position of responsibility and develop new skills.

#### The Context

Shri Guru Gobind Singhji Institute of Engineering and Technology believes in encouraging engagement and consistent development of faculty members in roles of responsibility. The rotation of positions ensures not only the development of skills and leadership abilities but also reduces boredom and monotony. The institute rotates these positions on block period of 2 years.

#### The Practice

The dynamic faculty of Institute have demonstrated a good extent of research and teaching. The hidden treasures of qualities of faculty member in the leadership role boost the growth of department and institute as whole. The rotation of positions in such manner would ensure the creation of a position for faculty members that enhance their diversified role of leadership for the development of institute. Accordingly, the institute keeps rotating these positions upon the interval of two years. In such manner the resource pool from the faculty is continually rotated based on their ranking and experience. Individual talent and ideas can be closely implemented, experimented to develop growth of students and department.

Diversified roles keep on multidimensional aspect within faculty. The rotation ensures development of key insights of institutional working and benefits associated with institute growth. The practice also warrants the broadening of skill set and networking for collaborations. The boredom and monotony of work of the faculty upon rotation also reduced. There are no constraints for the rotation. The healthy relationship among the faculty members makes the practice fun with guidance from preceding leader to succeeding incumbent leader. The practice also ensures healthy relations among faculty that are directly responsible for the growth of the institute.

### **Evidence of Success**

The rotation of positions is a continuous process. The target and benchmark for the rotation of positions is upon the seniority of faculty member. Each faculty accordingly is selected and successfully completes the position of responsibility assigned.

### **Problems Encountered and Resources Required**

No problem until now is encountered.

## **Best Practice – 2: Centre of Excellence in Signal and Image Processing**

### **Title of the Practice – Centre of Excellence in Signal and Image processing**

Established Centre of Excellence in Signal and Image processing, a Robotic Center, and three Industry-sponsored Laboratories.

### **Objectives of the Practice**

The Centre of Excellence established to,

- State of the arts signal and image processing laboratory.
- Creating technologies that can be commercially exploited.
- Generating good intellectual human resources and creating entrepreneurs.

### **The Context**

As a part of ambitious plan of government of India, NPIU has selected 30 best institutions in India through competitive proposals from all over India for establishment Center of Excellence (CoE) for collaborative and multidisciplinary research within specific thematic areas of regional or national importance. The Center of Excellence will be supported with research funding of Rs. 5 crores under the World Bank Assisted Technical Education Quality Improvement Program of India (TEQIP)-II. Based on the competitive merit, our institute is one among 27 best institutions selected for establishing Center of Excellence.

The Center runs a multidisciplinary research program involving more than 24 faculty members and 03 research scholars and 5 UG students from various departments of the institute. The Center has started its functioning in its state-of-the-art Signal and Image Processing Laboratory equipped with all the ultra-modern machinery set at par with any international research center. Apart from carrying out frontier research in the areas mentioned above, the center aims at creating technologies that can be commercially exploited by industries.

- Four patents are granted.
- Two retinal databases are developed.
- 35 world scientist recognition in 2024.
- MOUs signed with UTP Malaysia, tata memorial hospital, Mumbai, CISIR, Zankariya Imaging center Bombay, ADCIS France, university of Texas, University of Edenburg, Shankarrao Chavan Medical College Nanded.

Student and faculty exchange and expert sharing is done under the MOUs.

The Center is also engaged in an ambitious plan for generating high caliber manpower and entrepreneurs in the field of Signal and Image Processing.

### **The Practice**

The Centre of Excellence has been established through on of the ambitious plan of government of India. The CoE is developed for collaborative and multidisciplinary research withing signal and image processing. The CoE has demonstrated through various activities of research, data generation and developing new tools and technologies for betterment of society. The dynamic collaborative team of enthusiastic faculty members of CoE are continuously engaged not only in research but also encouraging the pool of researchers and students that would be budding professionals in the field.

### **Evidence of Success**

The CoE has developed various signal and image processing techniques in various sectors. This is evident from the remarkable research publication in journals and conferences. Furthermore, several devices have been developed. The patents have been granted and published for these various devices.

### **Problems Encountered and Resources Required**

No problem until now is encountered.

## **Best Practice – 3: Fully transparent procurement through GeM Portal.**

### **Title of the Practice – Fully transparent procurement through GeM Portal.**

The Institute has a fully transparent system of procurement that is fully competitive and technical qualification based for best at comparable price.

#### **Objectives of the Practice**

- To fulfill technical criteria of goods and services
- To procure through competitive quotations and through government e-portal GEM for procurement of goods and services that best fit in the technical criteria.

#### **The Context**

The procurement process consists of the activities that are involved in acquiring goods and services from external suppliers/vendors. The practice is initiated with the requirement, and then after the finalization of specification that justify the technical qualifications. Furthermore, the sourcing the quotation, justifying the terms and conditions, finalization of the supplier/vendor, and procuring and inspecting received goods and services. The transparent system critically broadens the procurement process that ensures procurement of goods and services at best possible value without challenging the quality in terms of technical criteria.

The procurement process is vital for several reasons such as cost efficiency, quality assurance, risk management, transparency for ethical business.

#### **The Practice**

The practice involves generating a requirement from the staff who requires goods or services. The technical qualifying criteria and upon managerial sanction the procurement process is initiated. The items/services that cost more than the Rs. 5000 are procured through the well-defined process. The requirements are floated as per required on institute website, Maha tenders and on governments e marketplace (GeM).

#### **Evidence of Success**

The process of procurement is well visible on to the website through continuous uploads of requirements of goods and services and over the GeM portal. The purchase is made through only competitive bidding upon qualifying the technical criteria that meets requisite of requirements.

**Problems Encountered and Resources Required**

No problems until now is encountered in the process of procurement.

## **Best Practice – 4: Continuous source of energy supply**

### **Title of the Practice – Continuous source of energy supply through the renewable source i.e. solar power and the diesel generated set of 650 kVA and power from the state electricity board**

The Institute has a keen understanding for the continuous teaching and learning process. The institute keeps the uninterrupted energy supply through the supply of electricity not only solar power but also the diesel generator in case of urgency.

#### **Objectives of the Practice**

The alternate source of energy is vital for institutes moto of quality and continuous teaching learning. The practice thus intended to,

- Provide the uninterrupted energy.
- Fulfill utmost energy through the natural sourced solar power.
- In case of urgency adopt the source of supply of energy from diesel power generator

#### **The Context**

Institute is located in the Vishnupuri village of Nanded district. The source of supply of energy to the institute is through the state electricity board. However, there are frequent interruptions observed in the energy supply. Also, the institute demonstrates the eras of providing quality technical human resources. This is through the consistent efforts of teachers towards the teaching-learning process. Thus, to keep this process institute has initiated with the alternate source of supply of energy. At present the institute has installed the renewable source of energy i.e. solar power supply and also the diesel power generator.

#### **The Practice**

Institute have installed a solar set to produce the energy of amount 500 kVA. Further, a Three 250 KVA DG sets are available for backup when Grid is Off and Solar is unable to produce required power.

#### **Evidence of Success**

The process adopted demonstrates a continuous supply that makes a learning environment uninterrupted. The process is self-explanatory for evidence of success.

#### **Problems Encountered and Resources Required**

No problem until now is encountered.

## **Best Practice – 5: Fortnightly meetings to address the issues of students**

### **Title of the Practice – Students interface committee (SIC) for addressing students' issues fortnightly meeting is conducted.**

Students are the key stakeholders of the institute. Students' issues are addressed in person. Also, a student interface committee (SIC) also been formed that enhances the addressing the students' issues at common platform.

#### **Objectives of the Practice**

Students been a key stakeholder and future of the nation. The student interface committee basically addresses common issues through a common meeting that arranged on every fortnight.

#### **The Context**

The institute is known by the alumni that demonstrated their ability to stand tall for the nation. The students' attitude for various roles is developed through observations, notetaking, speaking, and leading particular facts. The student interface committee has been working to arrange the meetings, forwarding the various issues raised, and mitigating the challenges to address the issues. This practice helps students to make a step closer to solutions to the problems and develops them to stand out.

#### **The Practice**

Fortnightly meetings of the student interface committee are arranged. The issues are noted by the students and forwarded with the solutions.

#### **Evidence of Success**

The process is demonstrated by addressing several issues. The efficacy of process suggests the reduction in number of issues that demonstrate the evidence for the process. Overall, the benefit of the student achieved through the SIC.

#### **Problems Encountered and Resources Required**

No problem until now is encountered.



## **Best Practice – 6: Strictly abiding to academic calendar and routine academic audit from reputed tier 1 institutes**

### **Title of the Practice – Strictly abiding to academic calendar and routine academic audit from reputed tier 1 institutes**

Academic Calendar prepared before commencement of semester. The strict following of academic calendar is assured. The result is also declared within one week of the end semester examination. Academic audit from experts of the IIT, NIT and Tier-1 colleges are also been conducted regularly.

#### **Objectives of the Practice**

Students been a key stakeholder and future of the nation. The student interface committee basically addresses common issues through a common meeting that is arranged every fortnight.

#### **The Context**

The institute is known by the alumni that demonstrated their ability to stand tall for the nation. The students' attitude for various roles is developed through observations, notetaking, speaking, and leading particular facts. The student interface committee has been working to arrange the meetings, forwarding the various issues raised, and mitigating the challenges to address this issues. This practice helps students to take a step closer to solutions to the problems and develops them to stand out.

#### **The Practice**

Fortnightly meetings of the student interface committee are arranged. The issues are noted by the students and the solutions to this are forwarded by academic leaders of the institute.

#### **Evidence of Success**

The process demonstrated by addressing several issues. The efficacy of process suggests the reduction in number of issues that demonstrate the evidence for the process. Overall, the benefit of the student achieved through the SIC.

#### **Problems Encountered and Resources Required**

No problem until now is encountered.