

# **Strategic Plan of Jalpaiguri Government Engineering College for** **2021-2026**

## **1. Teaching Learning Process**

### **Goals**

- i. Introducing Innovative Teaching Methods.
- ii. Developing e-content to encourage self-learning aspects.
- iii. Using virtual Labs freely accessible and provided by reputed institutes like IITs and NITs.
- iv. Providing personal and career mentoring to students.
- v. Promoting technology-assisted self-learning.
- vi. Converting Projects into Papers/products/patents.
- vii. Introduce a Faculty Performance Appraisal System.

### **Strategies**

- i. Design thinking/case study, Flipped Classroom, Practical oriented learning etc.
- ii. To set up digital studios for recording and developing Videos and Smart books.
- iii. Training to be given for using virtual lab contents.
- iv. Enhancing mentoring activities.
- v. Encouraging students to undertake more online MOOCs, NPTEL courses through self-study.
- vi. To establish a research culture amongst students by encouraging them project-based learning and convert projects to papers/products/patents.
- vii. Sustain and enhance quality in teaching, training, research, consultancy, outreach, innovation and incubation activities.
- viii. To organize seminars/webinars, expert talks through professional bodies, conferences and events in emerging technologies for faculty members and students.
- ix. To encourage holistic development of the students through the practice of Mandatory Additional Requirements (MAR) which must be completed by the students before the grant of the degree.

## **2. Implementing Good Governance**

### **Goals**

- i. Centralized Data Management System.
- ii. Exploring new avenues of fundraising.
- iii. Linkages with national premier institutes and universities for horizon expansion.
- iv. Bringing Alumni Engagement on board.
- v. Strengthen various committees.

## **Strategies**

- i. To usher in transparency in the administrative set-up full ERP implementation with centralized data collection and maintenance must be established. Making our autonomous exam system and award system fully automatic and software driven.
- ii. Attract benefits from Corporate Social Responsibility.
- iii. Increasing funds from research projects , consultancies, testing.
- iv. Identifying partner Universities and Industries at national level and sign MoUs for collaborative works.
- v. Organize joint activities like conferences, workshops, credit courses, expert lectures.
- vi. Enable, facilitate seamless coordination between alumni association and Institute.
- vii. Alumni inputs for curriculum development. Alumni support for students placement and internship.
- viii. To strengthen the IQAC, Program Assessment Committees, Departmental Committees, Board of Studies, Department and School Research Committees by involving internal and external experts belonging to both academia and industry for ensuring Quality Assurance in the academic and administrative processes of the Institute.

## **3. Infrastructure**

### **Goals**

- i. Establish smart campus.
- ii. Increase Hostel accommodation.
- iii. Strengthen Green Campus initiatives.
- iv. Build a Science and Technology Museum.

### **Strategies**

- i. Building smart classrooms, strong ICT facilities and video conferencing arrangements powered by campus wide high bandwidth network facility.
- ii. To set up additional hostels or extends existing hostels and associated facilities to accommodate every students, shops for stationary items, food court/canteen, sports infrastructure, Gymnasium and Yoga facilities, Auditorium, Medical Centres etc.
- iii. To construct additional buildings in the campus to take care of the growing needs viz. Controller of Examinations section.
- iv. Green campus initiatives like rainwater harvesting, tree plantation, recycling of wastewater through Sewage Treatment Plants, installation of solar panels, use of discarded shipping containers in constructing academic blocks etc.
- v. Keeping some of the old and obsolete instruments into the museum to show the visitors the chronological history of engineering and technology usage down the line.

#### **4. Research and Development**

- i. Search for funding from other funding organizations (NGOs/Ministry).
- ii. Faculty member with Ph.D. qualification shall apply for one funded research project per year.
- iii. Faculty members are appreciated with appropriate monetary incentives for their Web of Science/Scopus indexed/ Science Citation Index (SCI) journal publications
- iv. Faculty members are motivated to write Book and publish with renowned publisher.

#### **5. Improvement in the status of the Institution**

- i. The institution is presently NACC accredited. The higher grade has to be achieved in near future.
- ii. To obtain NBA accreditation for all eligible Under Graduate and Post Graduate Programs of the institution.
- iii. To obtain NIRF ranking in coming years.
- iv. Addition of new excellence cells viz. cyber security excellence cell.
- v. To embark upon a number of Green Initiatives to transform the Institute to a truly green campus. Tree plantation and maintenance has already been implemented on a earmarked land within the campus in co-operation with DFO, Jalpaiguri.

#### **6. Placement, Entrepreneurship and Incubation Facilities**

##### **Goals**

- i. To ensure full placement to interested students in all Departments of the Institute.
- ii. Strengthen Industry-Institute relationship.
- iii. Building centre for assisting students about competitive examinations.
- iv. Forming Entrepreneurship and Incubation centre.

##### **Strategies**

- i. Separate Placement Cell is operating, with students committee on-board.
- ii. To setup an effective Industry-Institute Partnership Cell as well as one Career Guidance Cell for conducting counselling activities.
- iii. To set up a Centre for assisting the students in different national and international entrance examinations such as NET, GATE, TOEFL, IAS, WBCS etc.
- iv. To encourage Departments to assist in setting up institute level Innovation & Entrepreneurship Cell for fostering Innovation, Incubation and Start-up activities.

- v. To identify students having innovative ideas, nurture these ideas and incubate them.
- vi. Organizing Exhibitions and Hackathons, etc

## **7. Extracurricular and Co-curricular Activities**

- i. To set up various clubs such as Music Club, Trekking Club, Photography Club, Drama Club etc. to nurture the talents of the students.
- ii. To enhance outdoor and indoor sports facilities of the Institution.
- iii. To set up state of the art gym facilities for boys and girls.
- iv. To conduct technical fests, cultural festivals and state-level sports tournaments as per a calendar to be published at the beginning of the academic session.
- v. To observe all important days having national significance like Independence Day, Republic Day, Constitution Day, International Yoga Day, birthdays of luminaries etc. in a befitting manner with due respect and protocol.

## **8. Community Engagement**

### **Goals**

- i. Technology based projects for societal issues.
- ii. Educating the public.
- iii. Free coaching to children of wage earners, slum dwellers surrounding the institution.

### **Strategies**

- i. Identification of societal issues to be solved using technology. Effective utilization of resources and departments
- ii. More programmes useful for the community like healthcare, agriculture, technology issues, cyber security, etc. to be conducted.
- iii. Formation of “Jyoti”, a team of volunteering students who conducts evening free coaching for students under 12<sup>th</sup> class.