

### **10.1.2 Institutional Strategic Plan and its Effective Implementation and Monitoring**

Bundelkhand Institute of Engineering and Technology Jhansi, has created the Strategy document through a consultation process with stakeholders.

- The draft strategy document including Action Points was prepared keeping in view our vision and mission.
- The document was discussed in faculty meetings and alumni inputs were taken. The document was suitably modified to incorporate valuable inputs received. The revised document would be presented to the Board of Governors and their suggestions will also be incorporated in the final document.
- The Institute Strategy document has a plan for five years, action items and key indicators i. e. **(2019-20, 2020-21, 2021-22, 2022-23, 2023-24)**
- The Strategy document process has created a participatory process for involving stakeholders in the visioning and planning process of the Institute.
- Strategic goals were finalized keeping in view vision and mission of statements, quality policy, core values, SWOC (Strengths, Weaknesses, Opportunities and Challenges) analysis, current environmental, social, technological and competition factors.

#### **Strategic goals:**

**GOAL 1: Provide a quality technical education and acquire the stature as one of the top ranking Engineering Colleges of the state**

**Strategic Plan 1.1: IMPROVEMENT IN TEACHING - LEARNING PROCESS**

#### **Action Points:**

- Adopting Outcome Based Education system
- Revision of curriculum on need basis
- Encouraging faculty to attend and organize more number of FDP/ conferences/workshops.
- Using ICT based techniques teaching learning process
- Lectures by Industry experts in selected courses
- Mentoring system for the students, emphasis on slow learners.

- Encouraging faculty to pursue MOOC programs for better teaching learning
- Motivating faculty to adopt interactive learning pedagogy

**Strategic Plan 1.2: IMPROVEMENT IN STUDENTS SKILLS AND INDUSTRY READINESS**

- Inculcating lifelong learning skills by introducing self-learning components in the form of seminars, MOOCs, NPTEL training programs
- Establishing Digital Library in the campus for the benefit of all the students to refer national and international journals and other E-learning resources.
- Incorporating project based learning
- Training programs for skill enhancement
- Industrial Internship
- To develop ethical and ecological values in the students
- Establishing MOUs with industries

**Strategic Plan 1.3: CENTRE OF EXCELLENCE IN CORE PROGRAMS**

**Action point:**

- Improving existing laboratories / establishing state of art laboratories in various departments as Centre of excellence in core programs.
- Facilitating the lab availability beyond working hours
- Establishing IIC in each department

**Strategic Plan 1.4: INVOLVEMENT OF FACULTY AND STUDENTS IN RESEARCH & DEVELOPMENT ACTIVITIES**

**Action points:**

- Faculty members are encouraged by suitable incentive to send research proposal to various funding agencies for financial support.
- Encouraging students to participate in national and international conferences to present and publish papers.
- Innovative ideas of students are encouraged to be translated into commercial products for the benefit of society by funding the student's projects through TEQIP and other funding agencies.
- Encouraging UG students to participate national level HACKTHONS.

- We propose that at PG level, a paper publication in reputed journal/conference is made compulsory and UG students are also encouraged for publication on the basis of findings from their Project/Thesis.
- Promoting consultancy services in each department.
- Encouraging the young faculty for collaborative research with IITs and NITs.
- Motivating UG students to participate in AICTE/DST industrial project contest
- Encouraging the students to organize workshops/seminars/HACKTHONS on latest trends of technology.

### **Strategic Plan 1.5: GOOD GOVERNANCE**

#### **Action points:**

- Decentralization in working
- Well defined transparent governance system
- Grievance redressal mechanism

#### **Key Indicators of Attainment for Goal 1:**

- Regular consistency in UG programs admissions
- Digital library facility is established and being up-graded by DDU QIP
- In some of the selected classrooms/laboratories LCD's and smart boards are installed and are being used.
- During last three years 6 to 7 faculty members have completed Ph.D. and others are pursuing.
- 2 Ph.D. have been awarded from the Institute in last 3-years.
- 5 research projects funded by NPIU
- In near future our institute is a member of E-consortium of AKTU, because of which we are accessible to E-Journals and E books. A well-equipped digital library is established.
- Daily subject wise attendance of students is recorded in smart campus and absentees are reported to their parents.
- Three international, two national level conferences and 60 number of FDP/symposium/workshops were conducted.
- Industry-Institute Interaction Programs were conducted
- Weaker students are identified subject wise and wherever it is necessary separate sections are created.

- To improve communication skill, subjects like communication skill I and II are introduced at first year level. Further 120 hours of soft skills trainings are provided for personality development.
- Modern equipment, instrumentation, software's etc. are procured and being under use.
- Total number of research papers published by faculty in SCI rated journals in last 3 years are 10
- 14 International Conferences were attended and papers were presented by the faculty abroad.
- National Conferences/Seminars/symposium/workshops were attended and presented 24 papers by various faculty members
- 16 training programs were attended by the faculty members
- 2 Papers were published by students in Indian Journals co-authored with faculty
- 3 faculty members have completed MOOC courses successfully with merit.
- Students published 1 Paper in International conference in India
- A well-defined decentralized governance system is in place
- There is a grievance redressal mechanism for students, faculty and staff in place

## **Goal 2: Enhance Interaction with Society and Industry**

### **Strategic Plan 2.1: IDENTIFICATION OF SOCIETAL NEEDS**

#### **Action Point:**

- Selecting project topics based on societal and industrial needs like rain water harvesting, smart irrigation system, automobile, drone-modelling

### **Strategic Plan 2.2: IMPROVE INTERACTION WITH INDUSTRY**

#### **Action Points:**

- Having more MOUs with various industries for student internship and placements.
- Introduce industry need based curriculum.
- Involve experts from various industries and academicians from reputed institutions in preparing curriculum / BOS.
- Introduction of an exclusive semester for internship

- Having a separate Training and Placement Cell which interacts with the industry to enhance the placement of students and also gives career guidance to the students
- Establishment of an Entrepreneur Development Cell which will act as focal point for its interaction with society and industry to satisfy the needs of the students

**Key indicators of Attainment for Goal 2:**

- Several MoUs with various industries are in the process both at Institutional and departmental level
- Industry suggested electives are introduced in curriculum such as EDP, Operation Research, 6-sigma, NCER, ERD
- Projects based on society and industry needs / problems are encouraged by faculty members testing and consultancy, design etc.
- Internship training program is included in the curriculum
- Separate Training and Placement Cell is in place which conducts career guidance programs by inviting resource persons from the industries and also involved in the pre placement training for better placement.
- An Entrepreneur Development Cell is established which helps the students in becoming entrepreneurs
- Innovative ideas of the students are encouraged to translate into commercial products for the benefit of society by funding the students' projects through innovation and Incubation cell, start-up cell through TEQIP funding.

**Goal 3: To generate revenue stream for the institute**

**Strategic Plan 3.1: PROJECT PROPOSALS**

**Action Points:**

- Revenue generation by sending proposals to different funding agencies such as MHRD, AICTE, DST, TEQIP and University
- Getting minor research grants from industry

### **Strategic Plan 3.2: TEQIP FUNDING**

#### **Action Point:**

- Already under TEQIP II, further submission of IDP for extension of funding under TEQIP.

### **Strategic Plan 3.3: INTERNAL REVENUE GENERATION**

#### **Action Points:**

- Internal revenue generation through consultancy
- Contributions from alumni and other sources

#### **Key Indicators of Attainment for Goal 3:**

- 02 R & D funding received in last three years
- TEQIP-III scheme was awarded to the Institute with a funding of Rs. 15 crores
- 5 research projects selected from the NPIU faculty of the Institute worth Rs. 59.41 Lakhs.
- One project is funded by the Industry
- Total consultancy fund received in last three years is Rs.57,37,528/-

### **Goal 4: Enhance interaction with Alumni**

#### **Strategic Plan 4.1: NETWORKING WITH ALUMNI**

#### **Action points:**

- To have a separate Alumni Interaction Cell (BIET Alumni Society)
- To have regular alumni meeting at institute and departmental level
- Getting suggestions from alumni for updating of curriculum
- Encouraging alumni in the involvement of overall development of the Institute
- Registering the Alumnae through Institute web-site link for wide alumni networking
- Regular Alumni Meet conducted on departmental and Institute level

#### **Key indicators of Attainment for Goal 4:**

- Alumni Coordinators are appointed separately at College level and Department level.
- Regular Alumni meets are conducted
- Alumni feedback forms on the curriculum and performance of the Institute are collected

#### **Goal 5: Strengthen Infrastructure and to develop sustainable, Green and Clean Campus**

##### **Strategic Plan 5.1: INFRASTRUCTURE DEVELOPMENT**

###### **Action points:**

- Face lifting of campus
- Separate Administrative block
- Equipping of auditorium and seminar halls
- Strengthening of Indoor sports facilities
- New girls hostel
- Development of utility facilities
- Creation of parking facility
- Encouraging faculty and students to maintain green campus
- Observing every Wednesday as vehicle free day
- Observing every 15<sup>th</sup> day of the calendar month as cleanliness day
- Immoveable dust bins are kept to collect garbage daily
- Municipal vehicle moves every day to collect household solid wastes in the morning on payment basis.
- On 2<sup>nd</sup> October the Jayanti of Mahatma Gandhi observed as social service day in the campus

##### **Strategic Plan 5.2: SUSTAINABLE DEVELOPMENT**

- Plantation and development of garden
- Rain water and waste water harvesting for water conservation.
- Conversion of waste biomass into manure using vermi-culture is under consideration.

- In near future power generation by renewable energy source such as solar will be effective in entire academic blocks
- Waste water treatment is adopted in some hostels for re-use in gardening etc. Other hostels are also following.

**Key indicators of Attainment for Goal 5:**

- A project on rain water and waste water harvesting for water conservation is taken up.
- Greenery in campus is maintained through plantation and gardening.
- It is proposed to build a 20 KW solar power plant on new Administrative building