

**TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME (TEQIP) of
Government of India**

www.npiu.nic.in; <http://www.npiu.nic.in/PDF/The%20Project%20Components.pdf>

Government Engineering College Gandhinagar, Sector 28 is a TEQIP II Institute

1. 1. What is the goal of Technical Education Quality Improvement Programme (TEQIP)?

Technical Education Quality Improvement Programme (the Programme) aims to scale up and support ongoing efforts of the Government of India to improve quality of Technical Education and enhance existing capacities of the institutions to become dynamic, demand-driven, quality conscious, efficient and forward looking, responsive to rapid economic and technological developments occurring at the local, State, National and International levels. It has a clear focus on the objectives to improve the overall quality of existing engineering educational programmes.

2. What are the objectives of TEQIP Phase-II?

The objectives of TEQIP Phase-II (the Project) are as follow.

- a) Strengthening Institutions to produce high quality engineers for better employability,
- b) Scaling-up postgraduate education and demand-driven Research & Development and Innovation,
- c) Establishing Centers of Excellence for focused applicable research,
- d) Training of faculty for effective Teaching, and
- e) Enhancing Institutional and System Management effectiveness.

3. What is the Project's design and components?

The TEQIP Phase-II (the Project) shall be implemented as a 'Centrally Sponsored Scheme' with matching contribution from the Governments of States.

Component-1: Improving Quality of Education in Selected Institutions

Sub-component-1.1: Strengthening institutions to improve learning outcomes and employability of graduates

1. 4. How the Project shall be implemented at the institutional level?

The Project at an institution will be managed at two levels, viz i) the Board of Governors (BoG), and ii) an institutional TEQIP unit.

Board of Governors (BoG)

Each institution shall have a functional BoG as per UGC guidelines , either appointed by the

sponsoring government or by itself through due procedure. The BoG shall be headed by an eminent industrialist/engineering academician with adequate representation from other stakeholders. Following shall be the functions of the BoG.

- a) Take all policy decisions with regard to smooth, cost effective and timely implementation of the Institutional sub-project,
- b) Form, supervise and guide various Committees required for Project implementation and internal Project monitoring,
- c) Ensure overall faculty development,
- d) Enable implementation of all academic and non-academic Institutional reforms,
- e) Ensure proper utilization of Project fund and timely submission of financial management reports (FMRs) and utilization certificates,
- f) Ensure compliance with the agreed procedures for procurement of goods, works and services and financial management,
- g) Ensure compliance with other fiduciary requirements under the Project such as Equity Assurance Plan (EAP), Environment Management Framework (EMF) and Disclosure Management Framework (DMF), and
- h) Monitor progress in carrying out of all the proposed Project activities, resolve bottlenecks, and enable the institution to achieve targets for all key performance indicators.

Institutional TEQIP Unit

Each institution will establish an institutional TEQIP unit with adequate representation from academic faculty, administration, technical and non-technical support staff and students. The Unit headed by the Head of the institution, shall be responsible for implementation of the Institutional Development Proposal approved in the Project. He/she shall be assisted by a senior professor for overall management and coordinating the Project activities with the guidance from BoG.

The institutional TEQIP unit shall operate through various specialized committees viz procurement (goods, works and services), financial management, faculty development, monitoring of Project implementation, updating key performance indicators and MIS, compliance of Equity Assurance Plan, compliance of Environment Management Framework, compliance of Disclosure Management Framework, implementation of institutional reforms, etc.

1. 5 Deliverables: Sub Component 1.1

The Institutions under this Sub-component will be responsible for outcomes and measured deliverables (outputs) in terms of:

A strengthened Institution in terms of academic and management capacities as measured by :

- Obtaining autonomous Institution status within 2 years
- At least 60% of its eligible UG and PG Programmes accredited within 2 years
- Having at least four Board Meetings per year as documented by publication of the proceedings of the BoG Meetings on the Institution's website

Improved faculty qualifications as indicated by:

- The share of regular faculty teaching Engineering subjects with at least a Master's degree or a Doctoral degree over the baseline should be increased by 20% & 10% respectively by the end of the second year of the Project.
- Within two-years, at least 50% of its faculty members with only a Bachelor's degree as their highest degree should be enrolled in a Master's degree programme if the Institution offers a Master's degree programme. In the case the Institution offers no Master's degree programme, at least 25% of the faculty with Bachelor's degree should be enrolled to Master's degree programmes at other Institutions.

These will be the primary outcomes and deliverables that the Institutions are responsible for. Continued funding beyond the Second year of the Project will be subject to meeting the above deliverables.

6. In addition, the Institutions are expected to improve performance on the following aspects of a strengthened Institution:

Increased employability of students as measured by:

- Improvements in the placement rate and the average salary of placement package

Improved learning among weaker students as indicated by:

- The share of the first year students that complete the full first year and transitions successfully to second year (disaggregated by social group)

Overall Institutional progress as measured through :

- Increase in the overall student and faculty satisfaction,
- Number of registrants for Master's and Doctoral degrees (and number of Master's and Doctoral graduates),
- Percentage of external revenue from R&D Projects and consultancies in the total revenue of the Institution,
- Increase in the number of publications in refereed Journals, and
- Increased collaboration with Institutions and Industry

1. 7. Institute Development Plan of GEC Gandhinagar proposes following activities:

- Improvements in teaching, training, and learning facilities,
- Modernization and strengthening of libraries and increasing access to knowledge resources,
- Starting new PG Programmes, providing assistantships, and enhancement of Research and Consultancy activities,
- Faculty and Staff Development for improved competence based on Training Needs Analysis (TNA),
- Enhanced interaction with Industry,
- Institutional management capacity enhancement,

- Implementation of Institutional reforms,
- Academic support to weak students

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2. **8. The following activities are envisaged for Project Evaluation:**

(i) Assessment Surveys:

The assessment surveys will measure changes in the quality of education in the Project Institutions through formative and summative assessments of performance. Assessment surveys to be undertaken are following:

• **Ø Student Satisfaction Surveys:**

To measure the quality of education being provided by Project Institutions, annual student satisfaction surveys will be conducted. The surveys will measure student's satisfaction with methods of teaching and learning, quality of faculty, infrastructure and facilities available for academic and other co-curricular activities etc.

• **Ø Faculty Satisfaction Surveys:**

To measure the quality of education, annual faculty satisfaction survey will also be conducted. The surveys will measure faculty's satisfaction with the quality of students, opportunities available for career advancement, up-gradation of skills viz. educational qualification, modern pedagogical training, etc.

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• **Implementation Surveys:**

The implementation survey will be conducted annually to get feedback from officials of implementing agencies [MHRD, NPIU, and SPFU] and personnel from institutions involved in Project implementation about Project design, implementation, impact and performance.

• **Ø Employer Satisfaction Surveys:**

The employer satisfaction surveys will assess the skills of graduates from Project Institutions. The change in employer satisfaction will be a measure of the quality of education provided by Project Institutions. This will be undertaken at the end of second, third and fourth year of the Project.

(ii) Institutional Audits:

Audits will be conducted to ascertain the validity and reliability of information and to also provide an assessment of Project's internal control. Auditors will assess progress made under the Project and processes related to technical and fiduciary aspects of Project. These audits will verify implementation in accordance with agreed NPIU/ MHRD-World Bank norms and guidelines and will combine factual assessment with qualitative assessment.

• **Performance and Data Audits:**

Performance and Data audits will assess progress made by all Project Institutions to achieve set goals as per their Institutional plan like implementation of agreed reforms, accuracy, and validity of data, progress in faculty development, utilization of resources and other targets set by the institution to achieve academic excellence. It will be done six-monthly by the performance auditors. The performance auditors will be Senior academician (preferable retired). They will be appointed for State institutions by the SPFUs and for CFIs by the NPIU. The performance auditors will be assisted by skilled professionals for conducting the data audits.

• Fiduciary Audits:

The fiduciary audits will cover post-procurement reviews and financial management reviews. The emphasis will be to verify the reliability and correctness of the data provided by the Project Institutions.

(iii) Reviews:

Reviews will be performed by World Bank, NPIU at Project Mid Term and six monthly, to assess the qualitative improvements achieved by the individual institutions and States.

(iv) Mentoring:

Mentors will be assigned to all Project Institutions to provide continuous guidance for Project implementation. They may also be acting as Performance auditors in other institutions and assess the progress made by the individual institution six-monthly.

(v) Resources Utilization Study:

The objective of the resources utilization study is to assess the extent of availability and utilization with respect to equipment, books and learning resources and suggest strategies for their optimum utilization and sustenance. It will be conducted twice, one at the time of mid term review (after two years from the implementation of the Project) and at the end of the Project.