

A BRIEF REPORT ON

**TECHNICAL EDUCATION QUALITY
IMPROVEMENT PROGRAMME**

(TEQIP Phase-I)

by

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1. HISTORY OF THE TEQIP SCHEME:

Aims to improve the quality of Technical Education and Engineering Education to produce high quality technical professionals in order to raise productivity and competitiveness of the Indian economy.

The total project cost revised to Rs 1642 Crore. (25 % share by Central/state government)

Implemented in 2 cycles :

TEQPI Phase I : 1 cycle (6 states)

TEQIO Phase I : 2 cycle (7 states)



Important Dates

Cabinet approval	December 19, 2002
Agreement with World Bank	February 04, 2003 for First cycle of First phase
	April 12, 2004 for second cycle of First phase
Effectiveness of the Programme	March 12, 2003
Closing of the Programme	March 31, 2009



2. THE BROAD OBJECTIVES OF THE PROGRAMME

- To create an environment in which Engineering Education selected under the programme can achieve their own set targets for excellence and sustain the same with autonomy and accountability.
- To support development plans including synergistic networking and services to community and economy of competitively selected institutions for achieving higher standards.
- To improve efficiency and effectiveness of the Technical Education Management System in the States and institutions selected under the programme



Selection of States and Institutions

- First step, eligibility of applicant institutions was determined at state level, separately for Lead and Network Institutions.
- Second step : Based on their vision, strategies and action plans :through a national level competition.
- Accreditation was also mandatory component for inclusion in the programme. For judging academic attainment, some parameters were designed and benchmarks values were assigned to each parameter. The maximum score was 68.



Participation of Karnataka State in TEQIP Phase I

- Included in 2nd cycle of TEQIP Phase I along with 6 other states(Andhra Pradesh ,Gujarat , Jharkhand Tamilnadu ,Uttaranchal & West bengal).
- Totally 14 Institutions were considered for TEQIP- I

■ Project life allocation of fund to Karnataka :
1624.757 Millions Rs

Cumulative Expenditure for the project period
1606.577 Millions Rs



Participation of NMAMIT, Nitte in TEQIP Phase I

**Institution total project outlay Rs.
14.5 Crores (Released)**

Expenditure : Rs. 14.56 Crores

Major Expenditure on

Civil Works	-	Rs. 15.000 Millions
Equipment	-	Rs. 86.978 Millions
Training/Study tour	-	Rs. 6.049 Millions
Furniture	-	Rs. 8.916 Millions
Vehicles	-	Rs. 1.573 Millions
Books & LRs	-	Rs. 14.546 Millions
Consultants	-	Rs. 0.736 Millions

IMPACT OF TEQIP PROJECT

Expected outcomes :

- Increased number of high quality graduates
- Increased professional outputs
- Better interaction with network partners and several joint programs
- Increased revenue generation
- Strengthened services to community
- Improved System management capacity



Achievement of Project Objectives

- The intake of students is increased by getting approval of PIO quota and the addition of more number of P.G. courses as per the plan.
- Pass out with distinction in the area of cutting edge technology has shown much improvement.
- Overall percentage of result increased from 80% to 98% during the TEQIP period.
- Number of publications by the faculty members increased from 10 % to 65 %.
- During the project period more than 75 joint programmes such as National/International level workshops, seminars and conferences & also several student centered activities were organized



Achievement of Project Objectives

- Joint research guidance for M. Tech/ Ph. D work is initiated during project period. More than 30% of faculty members are involved in joint research activities.
- Under services to community and Economy, during the project period more than 48 technical training programmes have been conducted and total beneficiaries are more than 2000.
- Institution became academically autonomous & implemented choice Based Credit System (CBCS) & grading system for evaluation.



Achievement of Project Objectives

■ Many healthy best practices being employed in the institution.





- Digital classrooms
- Video conferencing facility
- Web enabled student information system
- Learning resources on intranet
- Digital Library feature
- Staff & student appraisal
- Feedback from stake holders










Institution Innovations and Best Practices

Notable innovations

1. Campus wide networking

-  Optical backbone
-  16 MBPS based line internet connectivity
-  Mail server – intranet mailing system
-  Learning resources/ class assignment on intranet

2. Smart Campus

-  Online student information system
-  Web enabled attendance details
-  Web enabled result announcement
-  Online library accession / reservation
-  Online report generation/ submission
-  Access to e- learning resources
-  Digital notice board



3. Video Conferencing

786 MBPS Band width

-Trackable camera

- multi session software, ISDN / IP enabled system

- ISDN / IP enabled system

- Nano- technology

- Bio-informatics

- MEMS

- Multimedia and Animation

- Multi- core, Multi –threaded Processors

4 Digital classrooms and 4 seminar halls

5. Energy Park

6. Full fledged digital library by the application of **Tech-Focus Digital Library 3.02 Version**



Implementation Mechanism & Project Sustainability

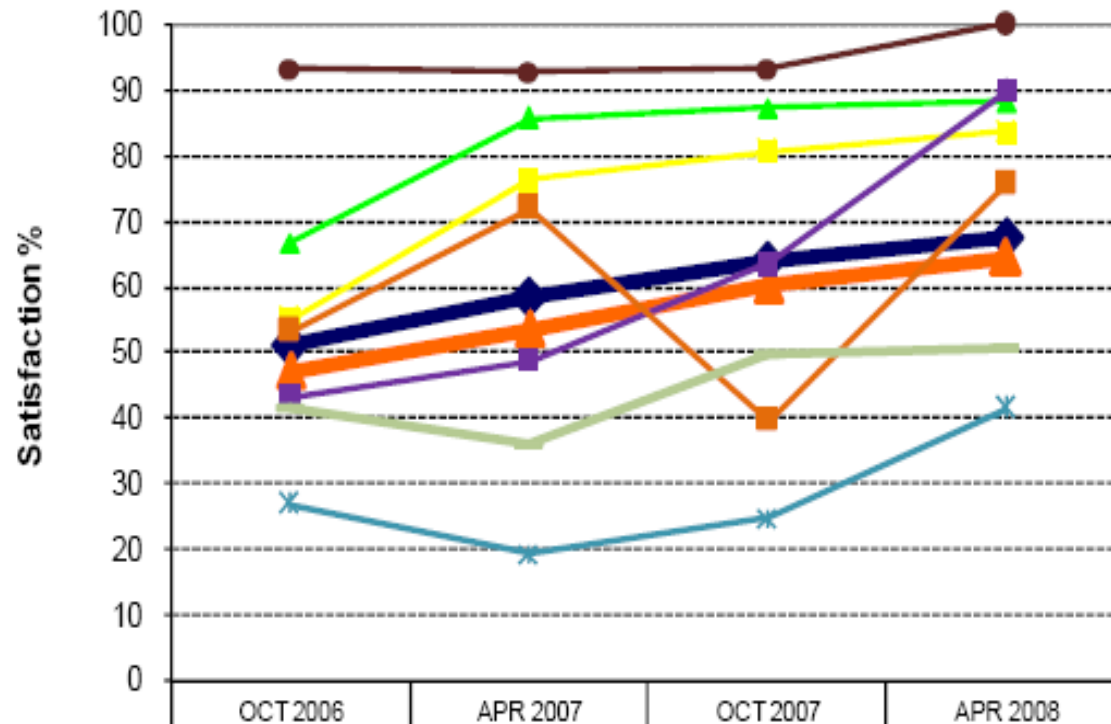
The corrective action plan for any deviation in the activities, regular auditing and mentoring was done during the project period.

Comparative Assessment of Performance Audit

Performance Audit	Calculated Score	Perceived Score
III	7.0	7.3
IV	8.1	8.6
V	8.4	9.0
VI	9.0	9.2

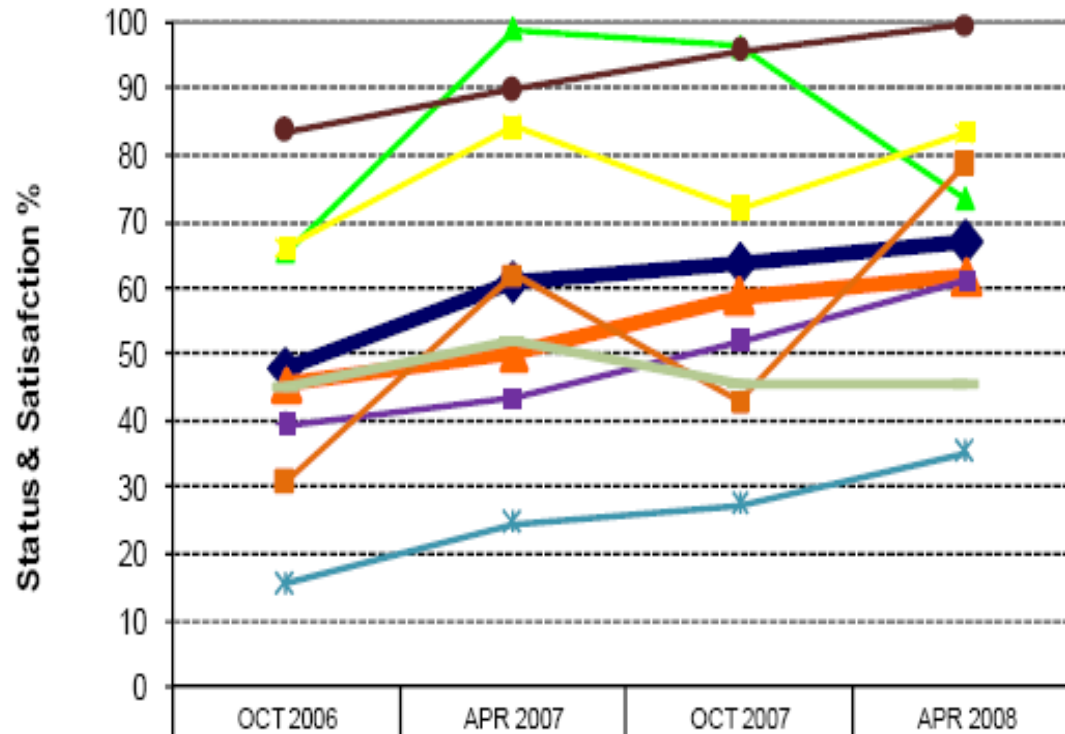
Overall rating of the Institution

OVERALL STUDENT SATISFACTION -I



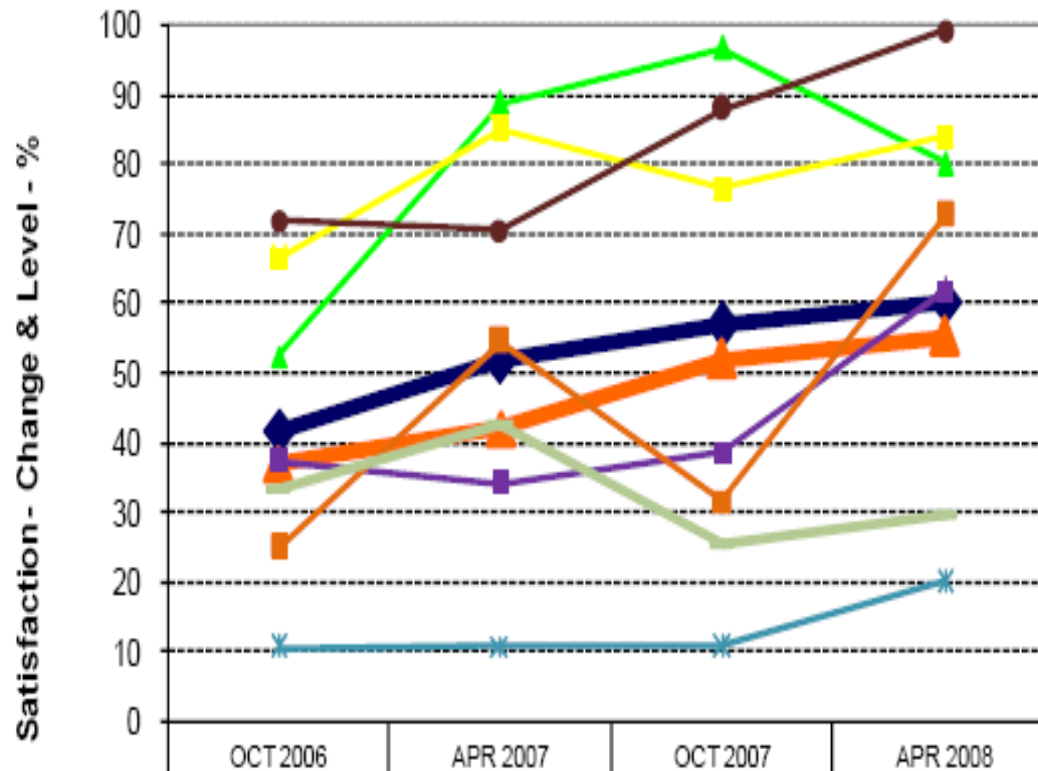
◆ Kamataka	50.8	58.5	64.0	67.7
▲ India	47.1	53.5	60.1	64.4
▲ Jayachamarajendra CoEngg, Mysore	66.7	85.7	87.3	88.2
■ Basaveshwar Eng College, Vidyanagar	55.1	76.3	80.7	83.5
* Vishweshwaraiah CoE., Bangalore	26.7	19.2	24.7	41.4
● NMAM Inst. of Tech, Nitte	93.3	92.8	93.2	100.0
■ National Inst of Engg, Mysore	43.2	48.7	63.4	89.8
■ College of Engg & Tech, Dharwad	53.2	71.9	39.5	75.5
— College of Engg, Gulbarga, Karnataka	41.6	35.9	49.8	50.4

2. STATUS & SATISFACTION WITH INCENTIVES, RECOGNITION AND ADMINISTRATION-1



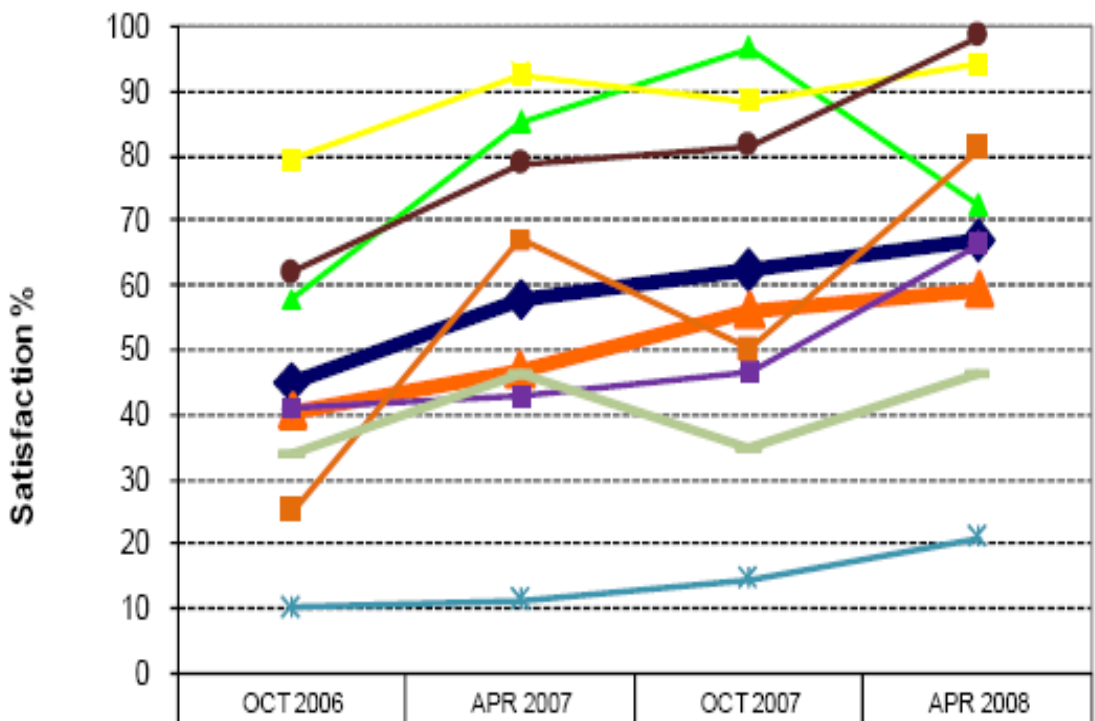
◆ Kamataka	47.9	61.1	63.8	66.8
▲ India	45.6	50.2	58.8	61.7
▲ Jayachamarajendra CoE, Mysore	65.4	98.8	96.3	73.4
■ Basaveshwar Eng College, Vidyanagar	66.2	84.2	72.0	83.4
* Vishweshwaraiah CoE, Bangalore	15.5	24.7	27.4	35.3
● NMAM Inst. of Tech, Nitte	83.5	89.8	95.6	99.7
■ National Inst of Engg, Mysore	39.5	43.5	52.0	61.1
■ CoE & Tech, Dharwad	30.8	62.1	43.0	78.6
■ CoE, Gulbarga, Karnataka	45.2	51.9	45.7	45.4

4. IMPROVEMENT/QUALITY IN TEACHING-RESEARCH INFRASTRUCTURE -1



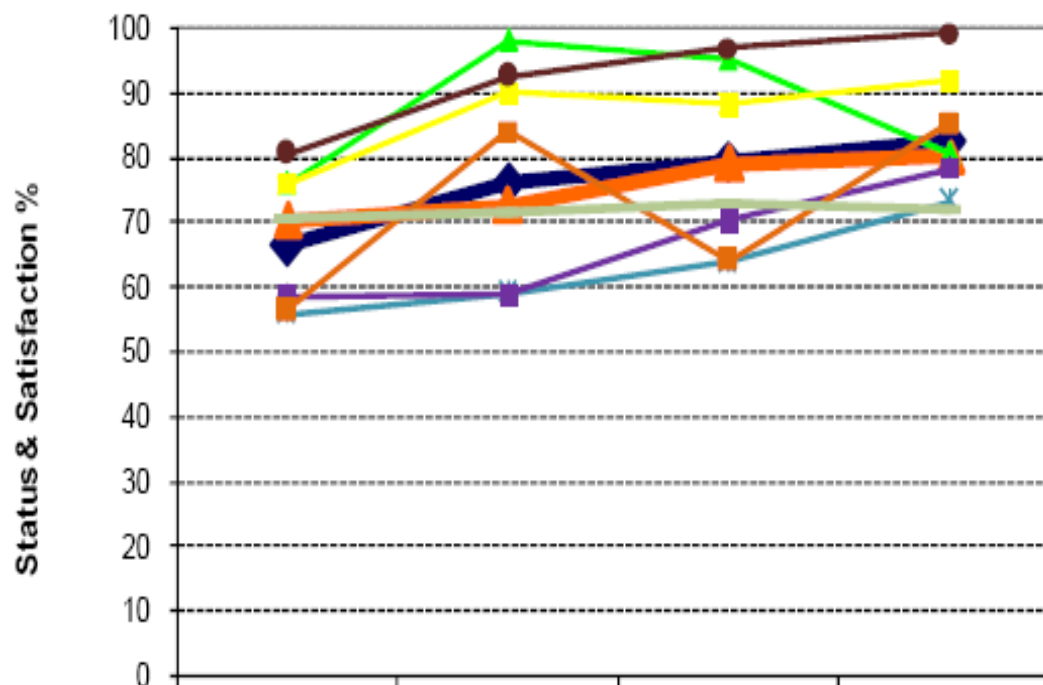
◆ Kamataka	41.7	51.7	56.9	60.3
▲ India	37.0	42.2	52.0	55.2
▲ Jayachamarajendra CoE, Mysore	52.6	88.7	96.6	80.1
■ Basaveshwar Eng College, Vidyanagar	66.5	85.1	76.5	83.9
★ Vishweshwaraiah CoE, Bangalore	10.6	10.9	10.8	20.1
● NMAM Inst. of Tech, Nitte	71.9	70.6	87.8	99.2
■ National Inst of Engg, Mysore	37.5	34.3	38.7	61.9
■ CoE & Tech, Dharwad	25.0	54.5	31.7	72.5
■ CoE, Gulbarga, Karnataka	33.4	42.6	25.6	29.6

5. SATISFACTION WITH QUALITY OF LIBRARY -1



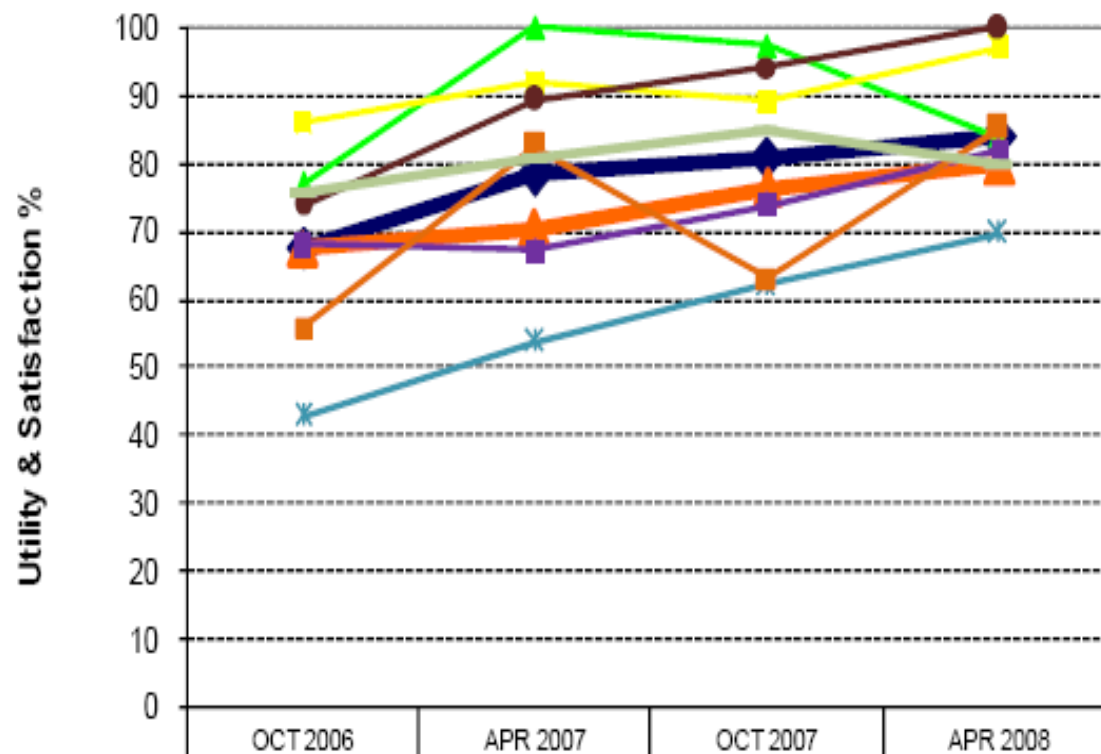
◆ Kamataka	44.8	57.9	62.2	66.7
▲ India	40.4	46.8	56.0	59.2
▲ Jayachamarajendra CoE, Mysore	57.9	85.1	96.6	72.3
■ Basaveshwar Eng College, Vidyanagar	79.4	92.6	88.4	94.1
✱ Vishweshwaraiah CoE, Bangalore	10.0	11.3	14.5	20.8
● NMAM Inst. of Tech, Nitte	61.9	78.8	81.5	98.5
■ National Inst of Engg, Mysore	40.9	42.6	46.6	66.4
■ CoE & Tech, Dharwad	25.0	67.0	49.9	81.0
■ CoE, Gulbarga, Karnataka	33.7	46.2	34.7	46.3

6. STATUS & SATISFACTION WITH TEACHING (SELF-REPORTED)-1



	OCT 2006	APR 2007	OCT 2007	APR 2008
◆ Karnataka	66.3	76.2	79.3	82.6
▲ India	70.2	72.5	79.0	80.1
▲ Jayachamarajendra CoE, Mysore	75.9	98.1	95.1	80.5
■ Basaveshwar Eng College, Vidyanagar	75.8	90.0	88.1	91.8
✦ Vishweshwaraiah CoE, Bangalore	55.7	58.9	63.9	73.2
● NMAM Inst. of Tech, Nitte	80.5	92.6	96.9	99.2
■ National Inst of Engg, Mysore	58.6	58.7	70.2	78.2
■ CoE & Tech, Dharwad	56.4	84.0	64.1	85.4
— CoE, Gulbarga, Karnataka	70.7	71.3	72.7	71.8

7. UTILITY OF AND SATISFACTION WITH TEACHERS EVALUATION OF STUDENTS - 1



◆ Kamataka	67.6	78.4	80.8	84.0
▲ India	67.4	70.5	76.4	79.7
▲ Jayachamarajendra CoE, Mysore	77.0	100.0	97.3	83.7
■ Basaveshwar Eng College, Vidyanagar	86.0	91.8	89.1	97.1
* Vishweshwaraiah CoE, Bangalore	42.7	53.8	62.2	69.7
● NMAM Inst. of Tech, Nitte	73.8	89.3	94.2	100.0
■ National Inst of Engg, Mysore	68.1	67.1	73.9	82.0
■ CoE & Tech, Dharwad	55.8	82.6	63.1	85.2
■ CoE, Gulbarga, Kamataka	75.8	80.9	84.8	79.8

Project Sustainability

- Proper plan of action has been drawn in consultation with the management.
- Since the Institution is an self financing Institution, management has full support to sustain the Institutional reforms introduced during project period.
- BOG has been formed including industry experts and academicians to sustain the Institutional reforms implemented.
- To achieve the financial sustainability management has made provision of all financial power to the Institution



Most important Lessons Learnt

- Team work, collective wisdom and imparting required skills to faculty helps greatly in offering quality education.
- De-centralization in the administrative structure creates more authorities and makes them responsible.
- Academic atmosphere conducive for learning creates competent and skilled Engineers who have the courage to face the challenges.