

TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME

**CONCISE INSTITUTIONAL PROJECT PROPOSALS
(DECEMBER 2004)**



UNIVERSITY COLLEGE OF ENGINEERING
(AUTONOMOUS)
OSMANIA UNIVERSITY, HYDERABAD – 500 007.

Format -2

**TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME
OF
GOVERNMENT OF INDIA**

**CONCISE INSTITUTIONAL PROJECT PROPOSAL
SECOND CYCLE INSTITUTION**

(DECEMBER 2004)

**NATIONAL PROJECT IMPLEMENTATION UNIT
ED.CIL HOUSE, PLOT NO. 18 A, SECTOR 16 A,
GAUTAM BUDH NAGAR, NOIDA – 201 301
(UTTAR PRADESH)**

EXECUTIVE SUMMARY

The University College of Engineering is the foremost engineering college in the State and is the sixth oldest college in the country. It is celebrating Platinum Jubilee Year during 2004-2005. Fittingly it is adjudged as the best engineering college in the country during 2003 by I.S.T.E., New Delhi. The college granted autonomous since 1994, has made rapid strides and in the process has acquired NAAC 5 Star rating and ISO certificate. From 1997 onwards, it has acquired decision-making authority in all aspects i.e. Academic, Administration and Finance. It has its own Governing Body, Finance Committee, Academic Council and Maintenance Unit. The corpus fund is created out of students fee and internal resources generated. The college is having its own Consultancy Cell, Entrepreneurship Development Cell, Examination Cell, Placement Cell and C-DAAC for Academic Audit and Evaluation. It is having an established Administrative and Financial Audit systems necessary for obtaining students feed back, organizing remedial classes, redressing the staff and students grievances and conduct of industrial training. However the labs are as old as the college and there is lot of obsolescence. Most of the staff members require to be exposed to latest international technologies and the existing library needs to be modernized.

The college is well ahead on the road to implement Technical Education Quality Improvement Program. It has initiated the TEQIP proposed activities since 1997 and has almost fulfilled the major requirements. New Post Graduate courses on self-financing basis will be initiated from 2005-2006. The necessary labs will be established from the year 2004-2005. The new labs required for Under Graduate and Post Graduate programmes will be created from the year 2004-2005 and shall be completed by 2007. As the backbone of any college will be a good library, a state of art library will be established by 2004-2005 with digital library and online facilities, conference room with necessary infrastructure facilities. A center for innovation for teaching and research is being proposed benefiting the Academic, Research & Development and Industrial growth. The staff will be encouraged to have exposure to National and International advances in technology. This enables them to enhance their capabilities to gain self-confidence and thus spurs the productivity and encourages active participation. The TEQIP funding enables in removing obsolescence and modernization of laboratories, which will be taken up from 2004-2005 and will be completed by 2007-2008.

The total financial allocation requested is Rs. 158.92 millions. Out of which Rs. 157.12 millions is allocated. The outputs anticipated are revised curriculum, replacement of obsolescence, introduction of credit / grade system, HR training that contributing to quality enhancement, and Industry Institute Interaction.

UNIT-1

CURRENT INSTITUTIONAL INFORMATION

Give information in the tabular formats given below. Do not give any write-up in this Unit.

1.1 INSTITUTIONAL IDENTITY

1.1.1 Name of the Institution: UNIVERSITY COLLEGE OF ENGINEERING,
Osmania University, Hyderabad.

1.1.2 Names of Head of Institution and Nodal Officers for Academic Activities, Civil Works, Procurement and Financial Aspects

Head & Nodal Officer	Name	Phone Numbers	Mobile Number	Fax Numbers	Email Address
Head of the Institution	Prof. R. Ramesh Reddy Principal, University College of Engineering, Osmania University, Hyderabad – 500007	040-27097254 27098254	---	27095179	rameshreddy@hotmail.com
Nodal Officers (TEQIP) for:					
Academic Activities	Prof. V. M. Pandharipande University College of Engineering, Osmania University, Hyderabad – 500 007	27098213	27635355	27095179	vijaympande@yahoo.com
Civil Works	Dr. N. Murali Krishna, Department of Civil Engineering, Osmania University, Hyderabad.	27097125	31077851	27095179	murali_k_namuduri@yahoo.com
Procurement	Dr. V.S.S. Kumar, Department of Civil Engineering, Osmania University, Hyderabad.	27097125	98490 37843	27095179	Vsskumar1958@hotmail.com
Financial Aspects	Mr. K. Sudhakar Rao, Deputy Registrar, University College of Engineering, Osmania University, Hyderabad -7	27682216	27018117 ®	27095179	

1.2 ACADEMIC INFORMATION

1.2.1 Engineering Programs offered in 2003-2004

S. No	Title of Program	Level ¹	Duration ² (Years)	Year of starting	Sanctioned Annual Intake ³	Total Student strength
1.	Bio-Medical Engineering	UG	4 years	1982	30	109
2.	Civil Engineering	UG	4 years	1929	60	202
3	Computer Science and engineering	UG	4 years	1981	60	229
4	ECE	UG	4 years	1959	50	195
5	EEE	UG	4 years	1949	60	237
6	ME	UG	4 years	1939	60	237
7	Civil	PG	2 years	1962	23	43
8	ECE	PG	2 years	1964	33	57

9	EEE	PG	2 years	1966	23	39
10	ME	PG	2 years	1966	33	79
11	CSE	PG	2 years	1984	43	86
12	MCA	PG	3 years	1990	60	183
13	CSE (MS by Research)	PG	2 years	2002	10	17
14	ECE (MS by Research)	PG	2 years	2002	10	16

1.2.2 Total strength of students in all courses and all years of study in 2003-2004: 1729

1.2.3 Total women students in all courses and all years of study in 2003-2004: 561

1.2.4 Total ST students in all courses and all years of study in 2003 60

1.2.5 Total SC students in all courses and all years of study in 2003 151

1.2.6 Total OBC students in all courses and all years of study in 2003 251

1.2.7 Doctoral Programs

a) Total number of candidates that obtained PhD from the institution up to 2003-04 51

b) Total number of candidates currently registered for PhD. 184

1.2.8 Accreditation Status of Programmes

Level of Programs	Total Number of Programs being offered	Number of Programs Eligible for Accreditation	Total Number of Programs Accredited in		Number of Programs for which Accreditation Applied for
			2002	2003	
Undergraduate	6	6	6	6	-
Postgraduate	6	6	6	6	-

1.3 TEACHING STAFF STATUS

1.3.1 Regular/On-Contract Teaching Staff (2004-05) as on July 31, 2004

Type of Staff	No. Sanctioned	Status	Number in Position by Highest Qualification						Total Number in Position	Total Vacancies
			PhDs		Post-graduates		Degree Holders			
			Engg.	Other	Engg.	Other	Engg.	Other		
Professors		Regular	19	7	2		--	--	28	Nil
		Contract	--							
Associate Professor/Reader		Regular	9	6	17				32	Nil
		Contract								
Assistant Professor/Lecturer		Regular	1		32		5		80	14
		Contract			22	5	15			

1.3.2 Visiting Faculty/Part-time Teaching Staff (2003-04)

Level for which Engaged	Number by Highest Qualification						Total Hours Taught/Week
	PhDs		Post-graduates		Degree Holders		
	Engg.	Other	Engg.	Other	Engg.	Other	
UG Teaching	-	-	-	-	-	-	-
PG Teaching	-	-	-	-	-	-	-

1.4 AVERAGE RECURRENT COST PER STUDENT Rs. 64, 000.00

(Average recurrent cost per student = Total recurrent expenditure of the institution divided by the total strength of students in all UG and PG engineering programs in March 2004)

1.5 CURRENT TEACHER-STUDENT RATIO: 1:13

(This is to be calculated by dividing the total number of regular faculty + full-time contract faculty + regular faculty equivalent of visiting/part-time faculty by the total strength of students in all engineering programs in March 2004)

(Number of regular faculty equivalent = total number of hours taught by visiting/part-time faculty divided by 20)

UNIT 2

VISION

2.0 Institutional Vision

- To develop into a world-class, pace-setting Institute of Engineering and Technology with distinct identity and character and offering a wide variety of programmes and services to meet the goals and aspirations of the people.
- To be a leading provider of technical education programmes and related services of the highest quality and standards of excellence to meet the demands of industry and the community and thereby to contribute to India's socio-economic progress.

2.1 Identify the part of the Vision you plan to achieve during the current project-life (i.e. your Pragmatic Future)

2004-2007

- To develop into a world-class, Institute of Engineering and Technology
- To become a pace-setter in its chosen areas of technology
- To acquire a distinct identity and character from its programmes of excellence.
- To provide appropriate technologies to meet the needs of the communities.
- To identify the needs and provide solutions for the welfare of tribal communities.

2.2 Indicate key activities in order of priority to achieve your pragmatic future as stated in item 2.1

- Creation of state of the art infrastructural facilities required for advanced learning.
- Strengthening of the existing laboratories with the globally latest equipment and tools.
- Strengthening of the existing faculty thru advanced learning and training programmes.
- Bringing in the new faculty with proven accomplishments at the global level.
- To organize and create computational and experimental facilities required for the conduct of research in the emerging areas of technology.
- To interact with world renowned institutes to facilitate students and faculty learn about latest trends in technological development and technical education,

- To collaborate with the industry to understand its needs and conduct research in the chosen areas of mutual interest with a view to evolve most appropriate design solutions for the industry.
- Creation of a digital library to meet the information needs of the students faculty and researchers.
- Implementation of quality assessment systems thru Multimodal evaluation of students, student evaluation of teacher's performance.
- To collaborate with voluntary organizations and NGO's for rendering technological support for tribal development and community improvement activities. Presently having an understanding with Centre for Rural Youth Development (CRYD) an NGO working in the tribal areas of Achampet, Balmoor, Lingal Mandals of Mahaboobnagar District.

UNIT-3

IMPLEMENTATION OF INSTITUTIONAL REFORMS

Please give brief statement about processes and activities that would be undertaken to implement the reforms

Academic Reforms	Activities to be undertaken in brief*	Indicate starting and completion time			
		2004-05	2005-06	2006-07	2007-08
1. Flexibility in academic programmes	<ul style="list-style-type: none"> • Multi-level entry into U G programme 			√	→
	Industry institute interaction	√	→	→	→
	Introducing inter disciplinary courses	√	→	→	→
	Introducing audit subjects without examination		√	→	→
	<ul style="list-style-type: none"> • Network facility to conduct online exams and submission of assignments Conduct of International seminars and guest lectures for BE and ME students.	√	→	→	→
2. Introduction of reforms in student performance evaluation	<ul style="list-style-type: none"> • Conducting student conferences 	√	→	→	→
	<ul style="list-style-type: none"> • Compulsory attendance 	√	→	→	→
	<ul style="list-style-type: none"> • Problem solving skills 	√	→	→	→
	<ul style="list-style-type: none"> • Sliding at Second year level 	√	→	→	→
	<ul style="list-style-type: none"> • Personality development programs 	√	→	→	→
3. Establishment of a system for teacher performance appraisal by students, and teacher counseling	<ul style="list-style-type: none"> • Student feedback 	√	→	→	→
	<ul style="list-style-type: none"> • Cash awards 			√	→
	<ul style="list-style-type: none"> • Certificate of appreciation 			√	→
	<ul style="list-style-type: none"> • Best teacher award 				
	<ul style="list-style-type: none"> • Counseling through C-DAAC 				
4. Providing incentives to faculty for participation in continuing education programmes, consulting services, services to community and industry and for securing sponsored research & development projects	<ul style="list-style-type: none"> • Providing finance to attend conferences 		√	→	→
	<ul style="list-style-type: none"> • Providing infrastructure for R&D 	√	→	→	→
			√	→	→

√ Commencement

→ Continuation

5. Establishment of a system for recognizing merit and outstanding performance of teachers	<ul style="list-style-type: none"> • Best teacher award • Best Researcher award • Out of turn promotions 		√	→	→
			√	→	→
6. Offering service packages that would attract and retain good quality faculty	<ul style="list-style-type: none"> • Fixing certain percentage for consultation fee • Sending faculty to attend conferences • Certificate of appreciation • Advance increments 	√	→	→	→
		√	→	→	→
			√	→	→
7. Establishment of a system for maintaining record of graduates and conducting regular tracer studies	<ul style="list-style-type: none"> • Developing a data bank of Alumni • Web based network to identify the Alumni throughout the world • Periodic Alumni get-together 	√	→	→	→
		√	→	→	→
8. Establishment of a governance system with participation of stakeholders	<ul style="list-style-type: none"> • Forming the governing body with existing faculty, old students and present students. • Parent teacher interaction 		√		√
9. Establishment of a modern management system – delegation of decision making, administrative and financial powers to senior functionaries with accountability	<ul style="list-style-type: none"> • Financial powers with accountability should be given to senior functionaries • Delegation of authority for procurement to appropriate levels. • Authority to settle the student matters and other administrative related works 	√	√		
		√		√	
			√	√	
10. Modernization of administrative and financial management system to increase staff and student friendliness, increase time efficiency and resource efficiency	<ul style="list-style-type: none"> • Common internet facility • Digital library • Student counselors to advice students • Student participation in professional association meetings • Guest lectures and visits 	√	√		
		√	√		
		√	√		
		√	√	→	→
		√	→		

11. Establishment of a Corpus Fund for development activities, a Staff Development Fund for supporting critical staff development activities, a Depreciation Fund for modernization of teaching and training facilities and Maintenance Fund for upkeep of equipment and physical infrastructure	Corpus Fund out of fees				
	• Donations from industries	✓	→		
	Staff Development Fund out of fees		✓	✓	
	• Conducting conferences		→	→	→
	• Certain percentage from educational programs	✓	✓	✓	
• Membership fee					
Depreciation Fund		✓		✓	
• Savings through consultation		✓		✓	
• Alumni fund		✓		✓	
• Consultancy		✓		✓	
• Fixed percentage from each grant received.		✓		✓	
Maintenance fund	✓	✓			
• Percentage from grant					
• Percentage from student fee					
12. Instituting measures for increasing recovery of cost of education	• Tuition fee	✓	✓		
	• Membership fee		✓		✓
	• Short term courses		✓	✓	
13. Instituting practices for maximizing utilization of resources and reducing wastage	• Consultation services	✓	✓		
	• Short term programs		✓	✓	
	• Offering value added short term programs to in service personnel and industrial technicians		✓	✓	
	• Networking	✓		✓	
	• Centralized facilities	✓		✓	
	• Inter departmental cooperation	✓		✓	
	• Class room sharing	✓		✓	
14. Establishment of mechanisms for regular quality and efficiency audit of institutional activities including academic processes and administrative procedures.	• ISO 9000 - certified				
	• Monthly staff meetings -existing				
	• Monitor the syllabus coverage – is there				

UNIT-4

ACADEMIC EXCELLENCE

4.1 PRIORITIES

Prioritise your objectives for the Project Period by assigning number 1 to 9 against each item below (1 is highest and 9 lowest)

S. No.	Objectives	Priority
1.	Improving undergraduate teaching/learning processes through better curricula, better faculty competence, better delivery, better interaction, development of proper attributes, and exposure to industrial practices	01
2.	Increasing facilities for undergraduate education, equipment. LRs, internet access, etc	02
3.	Increasing efficiency and effectiveness of the education process through better academic discipline and improved governance	03
4.	Improving post-graduate admission to M.Tech and Research programs through better structuring of offerings and increased facilities	04
5.	Improving sponsored Research and Consultancy activities	05
6.	Industry Institute interaction	06

4.2 CURRICULUM REVISION

4.2.1 Reorientation/Restructuring/closure of UG/PG Programmes

4.2.2 **UG/PG programmes to be reoriented** [write nil if no programmes are to be reoriented and delete the table]

NIL

4.2.3 **UG/PG programmes to be restructured** [write nil if no programmes are to be restructured and delete the table]

Name of the Programme	Indicate starting and completion time			
	2004-05	2005-06	2006-07	2007-08
U.G - Introduction of grade system		√		√
P G - inter disciplinary acceptability		√		√

4.2.4 **UG/PG programmes to be closed** [write nil if no programmes are to be closed and delete the table]

NIL

4.2.5 Curriculum Improvement/Up gradation of Curricula

Name of the curricula to be improved	Indicate starting and completion time			
	2004-05	2005-06	2006-07	2007-08
U.G		√	√	
P.G		√	√	

4.3 Modernization of Laboratories and Workshops including Removal of Obsolescence

Department	Name of the lab/workshop	Purpose/ linkage to existing Programme	Indicate starting and completion time			
			2004-05	05-06	06-07	07-08
BME	Medical Instr. Test and Evaluation Lab	UG	√			√
CIVIL	Env. Engg. And Fluid Mechanics Lab, Stru. Engg and Concrete Lab Transportation Engg. Lab Surveying Lab. Rock Mechanics Lab.	UG	√			√
			√			√
			√			√
			√			√
			√			√
CSE	Parallel and distributed Lab	UG	√			√
ECE	Advanced Communications Lab	UG	√			√
Electrical	Power Electronics Lab Testing and Calibration Lab	UG	√			√
			√			√
Mechanical	Centre for Material Testing Lab Exp. Stress Analysis Lab Thermal Engg. Lab Engg. Workshop	UG	√			√
			√			√
			√			√
			√			√
English	Comp. Ass. Lang. Teaching Video Lab	UG	√			√
Engg. Chemistry	Engg. Chemistry Lab	UG	√			√
Engg. Physics	Engg. Physics Lab	UG	√			√
Library	Library Upgradation	UG	√			√

4.4 New Programmes Proposed

Name of the Program	Level (UG/PG)	Proposed Annual Intake	Proposed Year of Starting	AICTE Approval	
				Obtained (YES/NO)	Applied for (YES/NO)
Infra Structure Engg. (civil)	P.G	18	2005-06		YES
Bio-Medical Electronics(BME)	P.G	18	2005-06	YES	
Parallel and Distributing Systems(CSE)	P.G	25	2005-06		YES

4.5 Areas of Doctoral Programmes

- a) Please indicate whether starting of Doctoral Programme is envisaged, and if yes indicate the areas and demonstrate capability to support the same.

College is offering PhD programs in ECE, CIVIL, EEE, MECHANICAL, and CSE. Funding for research program is required to supplement the funding from Industries. The list of Research Guides is as follows.

1. Dr. R. Ramesh Reddy - Civil
2. Dr. D.S. Prakash Rao - Civil
3. Dr. B. Srinivas Reddy - Civil
4. Dr. Ravande Kishore - Civil
5. Dr. V.S.S. Kumar - Civil
6. Dr. N. Murali Krishna - Civil
7. Dr. D.N. Reddy - Mechanical
8. Dr. T.A. Janardhan Reddy- Mechanical
9. Dr. K. Narayana Rao - Mechanical
10. Dr. G. Ramamurthy - Mechanical
11. Dr. A.M.K. Prasad - Mechanical
12. Dr. B. Nagaprasad Rao - Mechanical
13. Dr. A.D. Raj Kumar - Electrical
14. Dr. A.V.R.S. Sharma - Electrical
15. Dr. P.V.N. Prasad - Electrical
16. Dr. Rameshwar Rao - Electronics
17. Dr. V.M. Pandharipande - Electronics
18. Dr. K.V.S.V.R. Prasad - Electronics
19. Dr. K. Subba Rao - Electronics
20. Dr. T.G. Thomas - Electronics
21. Dr. P. Anath Raj - Electronics
22. Dr. K.V. Chalapathi Rao - CSE
23. Dr. A. Venugopal Reddy - CSE
24. Dr. Lakshmi Rajamani - CSE
25. Dr. P. Premchand - CSE
26. Dr. P. Veeresham - Physics
27. Dr. K.J. Pratap - Physics
28. Dr. B. Shankar - Mathematics
29. Dr. G. Tirupathi Kumar - English
30. Dr. B. Satyanarayana - Chemistry
31. Dr. Yadagiri Swamy - Chemistry
32. Dr. Shaik Sondu - Chemistry

b) In relation to Doctoral Programmes indicate requirements for assistantship/fellowships

10 Fellow ships are required in 3 years (10 + 10 + 10)

4.6 Establishment of New Laboratories and Workshops

Department	Name of the lab/workshop	Purpose/ linkages to an existing/ new Programme	Indicate starting and completion time			
			2004-05	2005-06	2006-07	2007-08
CIVIL	Infrastructure Engg. Lab	PG		√		√
Central Facility	Computer Centre CAD/CAM e- Class rooms	UG	√ √ √		√ √ √	
CSE	Embedded Systems Multimedia & Virtual reality	UG	√ √		√ √	
Mechanical	Machine Dynamics Lab Metallurgy Lab Metrology Lab	UG	√ √ √		√ √ √	
Library	Digital Library	UG	√		√	

4.7 Additional Faculty and Staff Required

Purpose	Designation	Numbers
To create facilities in new structured areas. To have faculty in new areas To be in tune with the latest technology	Professors	02
	Associate Professors	04
	Assistant Professors	08
To maintain the additional facilities	Staff	
	Lab tech.	Nil
	Lab Asst.	Nil
	Lab Attdt.	Nil
Total estimated expenditure on salaries and benefits	Rs. 20 million for 4years	14

4.8 Faculty Development (Local & Foreign Fellowship programs)

Area of Training (please see slide numbers -- of the presentation)	Training duration			
	Within India		Abroad	
	No. of Persons	Person months	No. of Persons	Person months
a) Faculty may be trained for <ul style="list-style-type: none"> Improved competence in teaching training Management of industry and community interactions New techniques in research 	25	25	2	2
b) Staff to be trained in their respective functional areas	98	98	12	6
c) Faculty to be encouraged to <ul style="list-style-type: none"> Upgrade their qualifications Attend seminars and conference Interact with peer groups within India and abroad Establish linkages with academic institutions and industry etc., Introduce incentives for participating activities and securing projects from industry and community. 	37	12		
	98	12	32	12
	28	12	10	6
	15	6	5	5
	38	38	6	6
d) For continuous improvement of faculty, competence, establish mechanisms for students, evaluation of teachers performance combined with feedback to teachers and peer counseling for improvement	12	12	6	6
e) Establish system of recognizing merit and out standing performance.	12	12	6	6

4.9 Staff Development (within India only)

Functional areas in which staff is required to be trained.

Functional areas of training	Training duration	
	No. of Persons	Person months
Student counseling	38	38
Student performance evaluation	38	38
Development of modern learning resources etc.,	38	38
Upgrade qualification	98	18
Attend seminars and conferences		
Establish linkages with academic institutions and industry		
Improved teaching competence		

4.10 Improved Implementation of Curricula (for possible activities see slide --)

Activity	Indicate starting and completion time			
	2004-05	2005-06	2006-07	2007-08
a) Review of curricula and development of new ones through	✓	→	→	→
• An established mechanisms for revision and development of curricula	✓		✓	
• An established mechanism for ensuring that the curricula meet employment market requirements (Out put characteristics)		✓	✓	
b) Improved implementation of curricula through				
• Continuous student performance assessment and feed back to students	✓	✓		
• Organization of remedial instructions	✓	✓		
• Extensive use of media	✓	✓		
• Visits to and training in industry	✓	✓		
• Invited expert lectures from industry and field	✓	✓		
• Problem solving projects from industry and community etc.,	✓		→	→
• Innovations in teaching methodology	✓	→		

4.11 Improvement in Student Evaluation (see slide --- for possible evaluation mechanisms)

Activity	Indicate starting and completion time			
	2004-05	2005-06	2006-07	2007-08
Improved implementation of curricula through <ul style="list-style-type: none"> • Continuous student performance assessment and feed back to students • Organization of remedial instructions • Extensive use of media • Visits to and training in industry • Invited expert lectures from industry and field • Problem solving projects from industry and community etc., • Innovations in teaching methodology 	✓	✓	✓	✓

4.12 Research and Consultancy- Presently existing as IDIC

Activities to be taken for implementation	Indicate starting and completion time			
	2004-05	2005-06	2006-07	2007-08
Enhancement in Research and consultancy activities <ul style="list-style-type: none"> a) Establish research and consultancy cells b) Establish merit recognition and fiscal and career incentives schemes 	✓	✓	✓	
Enhanced interaction with industry <ul style="list-style-type: none"> a) Establish institute – industry interaction cell responsible for promoting and nurturing interaction and partnership with industry b) Offer to industry such services as <ul style="list-style-type: none"> • Conducting continuing education programs • Under taking Problem solving projects and consultancies on industrial products, services and processes • Testing and Calibration • Serving as training centers for industry etc., 	✓	✓		
	✓	→	→	→
	✓	→	→	→
	✓	→	→	→
	✓	→	→	→

4.13 Enhanced Interaction with Industry - Available

Activity	Indicate starting and completion time			
	2004-05	2005-06	2006-07	2007-08
Enhanced interaction with industry				
a) Establish institute – industry interaction cell responsible for promoting and nurturing interaction and partnership with industry	✓	✓		
b) Offer to industry such services as	✓	→	→	→
• Conducting continuing education programs	✓			
• Under taking Problem solving projects and consultancies on industrial products, services and processes	✓	✓		
• Testing and Calibration Serving as training centers for industry etc.,		✓		

4.14 Tribal Development Plan (TDP) (please refer TDP document for details and slide no 35,36,37, and 38)

Identified Activities	Indicate starting and completion time			
	2004-05	2004-05	2006-07	2007-08
a) Students may be trained for				
• Special coaching for TOEFL, GRE, GATE	✓	✓		
• Orientation Programs	✓	✓		
• Guidance & Counselling in English	✓	✓		
• Remedial teaching	✓	✓		
• SC/ST Book bank improvement	✓	✓		
• Grievances redressal	✓	✓		
• Tapping creativity	✓	✓		
• Student counseling	✓	✓		
• Introducing to modern learning resources	✓	✓		
b) Faculty SC/ST to be encouraged to				
• Undertake research projects and consultancy		✓	✓	
• Upgrade their qualifications	✓			✓
• Attend seminars and conferences	✓			✓
• Interact with peer groups within India and abroad	✓			✓
• Establish linkages with academic institutions and industry etc.,	✓		✓	
• Introduce incentives for participating activities and securing projects from industry and community.		✓	✓	
Enhancement in Research and consultancy activities				
a) Establish research and consultancy cells	✓	✓		
Establish merit recognition and fiscal and career		✓		✓

UNIT-5

NETWORKING

5.1 Formal Networking

- a) Name of the 1st Network Partner **COLLEGE OF TECHNOLOGY, OSMANIA UNIVERSITY**

Planned bi-directional activities planned with 1st Network Partner

Activities/services/support which outgo from your institution to the network partner No 1	Indicate starting and completion time				Areas of support to be received from Network partner No. 1	Indicate starting and completion time			
	2004-05	2005-06	2006-07	2007-08		2004-05	2004-05	2006-07	2007-08
Digital Library & Labs	√	√			Laboratory		√	√	
Man power exchange & On line Courses		√	√		Man Power exchange & On line courses		√		√
Training to Their students in Workshop, Mechanical Engg. Laboratories, Engg. Graphics		√	√		Lending of teachers				

- b) Name of the 2nd Network Partner **SRINIDHI INSTITUTE OF TECHNOLOGY**

Planned bi-directional activities planned with 2nd Network Partner

Activities/services/support which outgo from your institution to the network partner No 2	Indicate starting and completion time				Areas of support to be received from Network partner No. 2	Indicate starting and completion time			
	2003-04	2004-05	2006-07	2007-08		2003-04	2004-05	2006-07	2007-08
Support in R&D activities		√			Man power exchange		√	√	
Man power exchange		√		√	New course evaluation		√		√
New course evaluation		√	√		Joint seminars organisation				
Joint seminar organisation		√	√						

c) Name of the 3rd Network Partner **RGIT, NANDYAL**

Planned bi-directional activities planned with 3rd Network Partner

Activities/services/support which outgo from your institution to the network partner No 3	Indicate starting and completion time				Areas of support to be received from Network partner No. 3	Indicate starting and completion time			
	2004-05	2005-06	2006-07	2007-08		2004-05	2004-05	2006-07	2007-08
Bio Medical Instrumentation Energy Technology Software Engineering Artificial Intelligence Jointly organizing conferences etc		✓	✓	✓	Machine Design Power Electronics Digital Signal Processing Artificial Intelligence		✓	✓	✓
Man power exchange & Digital Library Entrepreneurship Development Placement activity Linking with existing MOUs	✓	✓	✓	✓	Man power exchange Entrepreneurship Development Placement activity Linking with existing MOUs		✓	✓	✓

5.2 Non-Formal Networking

Activities to be undertaken	Name of the organization with which networked	Indicate starting and completion time			
		2004-05	2005-06	2006-07	2007-08
Digital Library	UGC, Delhi	✓	✓		
Digital Library	INDUST, Delhi	✓	✓		
Digital Library	NAL, Bangalore		✓	✓	
Manpower, Labs & Library	CITD, Hyderabad	✓		✓	
Manpower, Labs & Library	ECIL, Hyderabad	✓		✓	
Manpower, Labs & Library	BHEL, Hyderabad		✓		✓

UNIT-6

SERVICES TO COMMUNITY AND ECONOMY

6.1 Services to Community and Economy [these should be planned to be rendered with the involvement of all the Departments, Faculty, Staff and Students]. Suggested Activities: (pages 13 & 14 of PIP and slides ----)

a) Services to be Rendered to the Community [the community should be in the vicinity of the institution]

Identified Activities	Indicate starting and completion time			
	2004-05	2004-05	2006-07	2007-08
Creating awareness with regard to safety standards in the construction of multi storied buildings in and around Tarnaka and Nacharam		√		√
Creating awareness among the residents of the OU campus, Tarnaka and Nacharam about pollution and environment cleanliness.		√		√
To impart teaching in English language to enable them to acquire a reasonable standard of proficiency in this language.	√	√		
To impart training among the youth about the need for entrepreneurship development program to enable them to start an industry	√		√	
To create awareness among the people regarding purity of drinking water and avoiding water contamination	√		√	
To develop the skills among the youth in the area of self employment with special reference to engineering works	√		√	
To involve the youth to promote national pride and in the extension of community service adjacent to Nacharam and Tarnaka areas.		√		√

b) Services to be extended to the unorganized labour force

Identified Activities	Indicate starting and completion time			
	2004-05	2004-05	2006-07	2007-08
To provide training for the development of skills				
Creating awareness about working conditions and safety standards in the Nacharam area.		√		√
Creating awareness about living standards		√		√
Creating awareness about the importance of sanitation for the community	√		√	

- c) Services to be extended to the organized labour force (suggested activities could be Continuing Education Programmes, specialized training sought by industry etc) Please refer to page 14 of PIP

Identified Activities	Indicate starting and completion time			
	2004-05	2004-05	2006-07	2007-08
Conducting seminars, conferences and workshops in collaboration with NGOs. Giving training in the area of industrial relations and productivity.		√		√
Conduct of short term courses on various aspects of industries.	√		√	
Conduct of courses for enhancing their skills and abilities		√		√

UNIT-7

Overall Programme Life Time Financial requirements for Institutional Development

Institutions should sum the expected resource requirement for different years for all the activities proposed under Institutional Development (Academic Excellence, Networking, Services to Community and Economy and Tribal Development Plan) in the formats given in para 7.1 to 7.6.

If there is no fund requirement under any of the expenditure categories or sub-categories or in any project year, this should be shown as 0.00.

7.1 Promotion of Academic Excellence (Financial Requirement) – Total of 7.1.1 to 7.1.5

(Rs in Million)

S.No.	Category of Expenditure	Allocation indicated to institution	Proposed reappropriation of allocation of col.3	Additional funds required to meet priorities	Total project life time allocation (4+5)	Year-wise fund requirement for the remaining period of Project			
						2004-05	2005-06	2006-07	2007-08
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
(A)	INVESTMENT COST								
1.	Civil Works*				15.00	5.00	5.00	5.00	0.00
2.	Equipment				80.40	25.00	35.00	20.40	0.00
3.	Furniture				5.60	0.00	2.80	2.80	0.00
4.	Vehicles				1.30	0.325	0.325	0.325	0.325
5.	Books and Learning Resources				14.40	4.00	4.00	4.00	2.40
6.	Consultancy Services** & Research Studies				1.56	0.50	0.50	0.40	0.16
7.	Training/Study Tours/Fellowships (Local & Foreign)				13.18	4.00	4.00	4.00	1.18
Sub Total (A)					131.44	38.825	51.625	36.925	4.065
(B)	INCREMENTAL OPERATING COST ***								
8.	Salaries for Additional Key Faculty and Staff				20.00	2.45	7.65	7.45	2.45
9.	Consumables				2.12	0.53	0.53	0.53	0.53
10.	Operation & Maintenance				3.56	1.13	1.13	1.13	0.17
Sub Total (B)					25.68	4.11	9.31	9.11	3.15
Grand Total (A+B)					157.12	42.935	60.935	46.035	7.215

*Restricted to 10% of Project - life time allocation

** Consultancy may be given for civil works, procurement of goods, implementation of fellowship programs, educational studies, academic activities and other activities

*** Restricted to 15% of Project life time allocation

7.1.1 Tribal Development Plan

(Rs in Million)

S.No.	Category of Expenditure	Allocation indicated to institution	Proposed reappropriation of allocation of col.3	Additional funds required to meet priorities	Total project life time allocation (4+5)	Year-wise fund requirement for the remaining period of Project			
						2004-05	2005-06	2006-07	2007-08
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
(A)	INVESTMENT COST								
1.	Equipment				0.00	0.00	0.00	0.00	0.00
2.	Furniture				0.00	0.00	0.00	0.00	0.00
3.	Books and Learning Resources				0.80	0.20	0.20	0.20	0.20
4.	Training/Workshop				1.00	0.20	0.20	0.30	0.30
Sub Total (A)					1.80	0.40	0.40	0.50	0.50
(B)	INCREMENTAL OPERATING COST								
5.	Salaries for Additional Key Faculty and Staff (only honorarium)								
6.	Consumables.				0.20	0.05	0.05	0.05	0.05
7.	Operation & Maintenance								
Sub Total (B)					0.20	0.05	0.05	0.05	0.05
Grand Total (A+B)					2.00	0.45	0.45	0.55	0.55

7.1.2 Institutional Management Capacity Development

(Rs in Million)

S.No.	Category of Expenditure	Allocation indicated to institution	Proposed reappropriation of allocation of col.3	Additional funds required to meet priorities	Total project life time allocation (4+5)	Year-wise fund requirement for the remaining period of Project			
						2004-05	2005-06	2006-07	2007-08
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
(A)	INVESTMENT COST								
1.	Training/Study Tours/Fellowships (Local & Foreign)					0.80	0.80	0.80	
Total						0.80	0.80	0.80	

7.1.3 Implementation of Reforms

(Rs in Million)

S.No.	Category of Expenditure	Allocation indicated to institution	Proposed reappropriation of allocation of col.3	Additional funds required to meet priorities	Total project life time allocation (4+5)	Year-wise fund requirement for the remaining period of Project			
						2004-05	2005-06	2006-07	2007-08
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
(A)	INVESTMENT COST								
1.	Books and Learning Resources					0.10	0.50		
2.	Consultancy Services & Research Studies					0.10	0.10	0.10	
3.	Training/Study Tours/Fellowships (Local & Foreign)								
Sub Total (A)						0.20	0.60	0.10	
(B)	INCREMENTAL OPERATING COST								
4.	Consumables					0.05	0.05	0.05	
5.	Operation & Maintenance					0.20	0.20	0.20	0.10
Sub Total (B)						0.25	0.25	0.25	0.10
Grand Total (A+B)						0.45	0.85	0.35	0.10

7.1.4 Project Monitoring and Implementation

(Rs in Million)

S.No.	Category of Expenditure	Allocation indicated to institution	Proposed reappropriation of allocation of col.3	Additional funds required to meet priorities	Total project life time allocation (4+5)	Year-wise fund requirement for the remaining period of Project			
						2004-05	2005-06	2006-07	2007-08
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
(A)	INVESTMENT COST								
1.	Consultancy Services& Research Studies					0.10	0.10	0.10	0.00
2.	Training/Study Tours/Fellowships (Local & Foreign)					0.20	0.20	0.20	
Sub Total (A)						0.30	0.30	0.30	0.00
(B)	INCREMENTAL OPERATING COST								
3.	Consumables					0.05	0.05	0.05	0.05
4.	Operation & Maintenance					0.15	0.15	0.10	0.05
Sub Total (B)						0.20	0.20	0.15	0.10
Grand Total (A+B)						0.50	0.50	0.45	0.10

7.1.5 Financial Requirement for Promotion of Academic Excellence other than Tribal Development (7.1.1), Institutional Management Capacity Development (7.1.2), Implementation of Reforms (7.1.3) and Project Monitoring and Implementation (7.1.4)

(Rs in Million)

S.No.	Category of Expenditure	Allocation indicated to institution	Proposed reappropriation of allocation of col.3	Additional funds required to meet priorities	Total project life time allocation (4+5)	Year-wise fund requirement for the remaining period of Project			
						2004-05	2005-06	2006-07	2007-08
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
(A)	INVESTMENT COST								
1.	Civil Works*				15.00	5.00	5.00	5.00	0.00
2.	Equipment				80.40	25.00	35.00	20.40	0.00
3.	Furniture				5.60	0.00	2.80	2.80	0.00
4.	Vehicles				1.30	0.325	0.325	0.325	0.325
5.	Books and Learning Resources				13.0	3.70	3.30	3.80	2.20
6.	Consultancy Services** & Research Studies				0.96	0.30	0.30	0.20	0.16
7.	Training/Study Tours/Fellowships (Local & Foreign)				9.18	2.80	2.80	2.70	0.88
Sub Total (A)					125.44	37.125	49.525	35.225	3.565
(B)	INCREMENTAL OPERATING COST ***								
8.	Salaries for Additional Key Faculty and Staff				20.00	2.45	7.65	7.45	2.45
9.	Consumables				1.57	0.38	0.38	0.38	0.43
10.	Operation & Maintenance				2.41	0.78	0.78	0.83	0.02
Sub Total (B)					23.98	3.61	8.81	8.66	2.90
Grand Total (A+B)					149.42	40.735	58.335	43.885	6.465

*Restricted to 10% of Project - life time allocation

** Consultancy may be given for civil works, procurement of goods, implementation of fellowship programs, educational studies, academic activities and other activities

*** Restricted to 15% of Project life time allocation

7.2 Networking (Financial Requirement)

(Rs in Million)

S.No.	Category of Expenditure	Allocation indicated to institution	Proposed reappropriation of allocation of col.3	Additional funds required to meet priorities	Total project life time allocation (4+5)	Year-wise fund requirement for the remaining period of Project			
						2004-05	2005-06	2006-07	2007-08
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
(A)	INVESTMENT COST								
1.	Equipment*				0.00	0.00	0.00	0.00	0.00
2.	Training/Workshop				0.72	0.18	0.18	0.18	0.18
Sub Total (A)					0.72	0.18	0.18	0.18	0.18
(B)	INCREMENTAL OPERATING COST								
3.	Consumables				0.20	0.05	0.05	0.05	0.05
4.	Operation & Maintenance				0.00	0.00	0.00	0.00	0.00
Sub Total (B)					0.20	0.05	0.05	0.05	0.05
Grand Total (A+B)					0.92	0.23	0.23	0.23	0.23

*Equipment needed for communication between Institutions such as video conferencing etc.

7.3 Services to Community & Economy (Financial Requirement)

(Rs in Million)

S.No.	Category of Expenditure	Allocation indicated to institution	Proposed reappropriation of allocation of col.3	Additional funds required to meet priorities	Total project life time allocation (4+5)	Year-wise fund requirement for the remaining period of Project			
						2004-05	2005-06	2006-07	2007-08
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
(A)	INVESTMENT COST								
1.	Training/Workshop				0.48	0.12	0.12	0.12	0.12
Sub Total (A)					0.48	0.12	0.12	0.12	0.12
(B)	INCREMENTAL OPERATING COST								
2.	Consumables				0.40	0.10	0.10	0.10	0.10
3.	Operation & Maintenance				0.00	0.00	0.00	0.00	0.00
Sub Total (B)					0.40	0.10	0.10	0.10	0.10
Grand Total (A+B)					0.88	0.22	0.22	0.22	0.22

7.4 Category wise Total Allocation

This Table is total of the figures given in Table 7.1, 7.2 and 7.3. Also provide Project lifetime allocation based on the formula given at the end of this table.

(Rs in Million)

S.No.	Category of Expenditure	Allocation indicated to institution	Proposed reappropriation of allocation of col.3	Additional funds required to meet priorities	Total project life time allocation (4+5)	Year-wise fund requirement for the remaining period of Project			
						2004-05	2005-06	2006-07	2007-08
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
(A)	INVESTMENT COST								
1.	Civil Works*				15.00	5.00	5.00	5.00	0.00
2.	Equipment				80.40	25.00	35.00	20.40	0.00
3.	Furniture				5.60	0.00	2.80	2.80	0.00
4.	Vehicles				1.30	0.325	0.325	0.325	0.325
5.	Books and Learning Resources				14.40	4.00	4.00	4.00	2.40
6.	Consultancy Services** & Research Studies				1.56	0.50	0.50	0.40	0.16
7.	Training/Study Tours/Fellowships (Local & Foreign)				14.38	4.30	4.30	4.30	1.48
Sub Total (A)					132.64	39.125	51.925	37.225	4.365
(B)	INCREMENTAL OPERATING COST ***								
8.	Salaries for Additional Key Faculty and Staff				20.00	2.45	7.65	7.45	2.40.5
9.	Consumables				2.72	0.68	0.68	0.68	0.68
10.	Operation & Maintenance				3.56	1.13	1.13	1.13	0.17
Sub Total (B)					26.28	4.26	9.46	9.26	3.30
Grand Total (A+B)					158.92	43.385	61.385	46.485	7.665

*Restricted to 10% of Project - life time allocation

** Consultancy may be given for civil works, procurement of goods, implementation of fellowship programs, educational studies, academic activities and other activities

*** Restricted to 15% of Project life time allocation

7.5 Component Wise Financial Requirement

(Rs in Million)

S.No.	Category of Expenditure	Allocation indicated to institution	Proposed reappropriation of allocation of col.3	Additional funds required to meet priorities	Total project life time allocation (4+5)	Year-wise fund requirement for the remaining period of Project			
						2004-05	2005-06	2006-07	2007-08
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
(A)	INVESTMENT COST								
1.	Promotion of Academic Excellence (Total of 7.1)				157.12	42.935	60.935	46.035	7.215
2.	Networking (Total of 7.2)				0.92	0.23	0.23	0.23	0.23
3.	Services to Community & Economy (Total of 7.3)				0.88	0.22	0.22	0.22	0.22
Total					158.92	43.385	61.385	46.485	7.665

UNIT-8

Programme Implementation and Monitoring Mechanisms

Please indicate in detail the mechanism of implementing various elements of the project and monitoring progress periodically. Please also indicate names of the members of the groups.

Suggested mechanism:

The institutions may form action groups for various implementation and monitoring purposes to divide the responsibility and to ensure proper implementation of the Programme. A regular meeting/discussion schedule may be worked out for all groups to meet and evaluate progress with the Head of the Institutions on weekly or bi-monthly basis.

Faculty and staff groups could be involved in implementation of the following:

The following groups have been constituted for monitoring and implementation of different activities.

Implementation of academic excellence activities	Prof. V.M. Pandharipande Dr. G. Ramamurthy
Promoting research and consultancy – research and consultancy cell	Prof. D.N. Reddy Prof. D.S. Prakash Rao Prof. R. Ramesh Reddy
Faculty and staff development	Prof. Ramachandra Prof. Raj Kumar
Procurement of civil works	Dr. N. Murali Krishna, Er. Raghavan Prof. B. Srinivas Reddy
Procurement of goods	Prof. J. Jagannath Jetty Sri. K. Satyanarayana
Networking	Prof. A. Venugopal Reddy Sri. K. Satyanarayana
Services to Community & Economy	Prof. R. Ramesh Reddy Dr. G. Mallesham
Industry Institute Interaction	Prof. T.A. Janardhan Reddy Prof. R. Ramesh Reddy
Tribal development activities	Prof. B. Shankar Prof. Ramchandra Prof. R. Ramesh Reddy
Implementation of reforms	Prof. V.M. Pandharipande Prof. A.D. Raj Kumar Prof. R. Ramesh Reddy

Ensuring improvements in administrative and financial practices

Prof. R. Ramesh Reddy
Sri. K. Sudhakar Rao

Ensuring Auditing quality of Education, Training and Services

Prof. V.M. Pandharipande
Prof. P. Subba Reddy
Prof. D.S. Prakash Rao

Monitoring implementation of the Programme

Prof. R. Ramesh Reddy
Prof. J. Jagannath Jetty
Dr. V.S.S. Kumar

Faculty and staff could also be involved in monitoring implementation of the following activities:

Conducting Auditing quality of Education, Training and Services - **Curriculum Development and Accreditation Audit Cell (CDAAC) Conducts auditing at the end of the semester.**

Conducting Audit of administrative, managerial and financial practices - **Local fund audit of the Government and Certified chartered accountants conducts audit annual.**

Monitoring implementation of reforms - **The cell will be created to implement the re-forms**

Monitoring compliance with MOU - **Border of Governors monitors MOUs**

Monitoring implementation of Tribal development activities - **Tribal Welfare Committee Monitors Implementation TDA**

Preparing quarterly reports on progress in project and reforms implementation, internal audits and compliance with conditions of MOU - **Prof. P.V.N. Reddy, Sri. V.N. Rao, Dr. P.V.N. Prasad**

Submitting quarterly reports to their respective BOG and SPFU (in case of centrally funded institutions to BTE in DSHE) - **Office of the Principal**

Ensuring achievement of targets set for Output Indicators - **Office of the Principal**

Please indicate groups (with names of responsible faculty and staff) to be formed for various activities indicated above the methodology of performing activities to ensure proper monitoring and implementation of the Programme.

1. Regular staff meetings will be conducted.
2. Regular committee meeting and assessment of each of the activity performance and passing on to the Principal.
3. Principal after 3 months strengthens the weakness.
4. Governing Body meets once in 4 months and evaluates academic and account and fund monitoring.
5. Principal's office passes on the information i.e. corrective measures to committee and then on to the staff.
6. Every staff member will be a party in procurement and implementation of reforms.
7. Every one including students to be informed.
8. Each progress report of the activities will be put up in the library.