

**Revised Institutional Development Proposal (IDP)
Submitted by**



**JNTUH COLLEGE OF ENGINEERING HYDERABAD
(JNTUHCEH)
HYDERABAD**

Under

**Sub Component 1.2
Scaling up PG Education and Demand Driven R, D & I**

**TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME
(TEQIP - II)**

of

The Ministry of Human Resource Development, Government of India

on

April 29, 2015

to

**NATIONAL PROJECT DIRECTOR
NATIONAL PROJECT IMPLEMENTATION UNIT
Ed. CIL HOUSE, 4th FLOOR, PLOT NO. 18-A, SECTOR 16-A
GAUTAM BUDDHA NAGAR, NOIDA – 201 301, UTTAR PRADESH**

CONTENTS

| S.No. | Description | Page No. |
|--------------|--|-----------------|
| i | Certificate | 2 |
| ii | Members of the Governing Body | 3 |
| 1 | Institutional Basic Information | 4 |
| 1.1 | Institution Identity | 4 |
| 1.2 | TEQIP óII Nodal officers/Coordinators | 4 |
| 1.3 | Academic Infomation | 5 |
| 1.4 | Accreditation status | 9 |
| 1.5 | Faculty Status | 10 |
| 1.6 | Student Placements | 10 |
| 1.7 | Students Internship | 11 |
| 2 | TEQIP-II Information | 12 |
| 2.1 | Deliverables & Targets achieved | 12 |
| 2.2 | Status of Expenditure | 13 |
| 2.3 | Activities conducted under TEQIP-II | 15 |
| 2.4 | MIS Status | 22 |
| 2.5 | GDP Status | 22 |
| 2.6 | Transparency in Administration | 22 |
| 2.7 | Recurring expenditure/IRG Generated | 23 |
| 2.8 | Status of Four Funds | 23 |
| 2.9 | Action plan from April 2015 to October ó 2016 | 25 |
| 2.10 | Action plan to ensure for the project activities would be sustained after the end of the project | 29 |
| 2.11 | Details of Additional fund requirements | 30 |
| | ANNEXURES | |
| Annexure-I | Governance Development Plan (GDP) Document | |
| Annexure-II | College annual day report ó 2014-15 | |

CERTIFICATE

This is to certify that the information provided in the Revised IDP for TEQIP-II of JNTUH College of Engineering Hyderabad is factually correct to the best of our knowledge.


Signature of the Head of the Institution

Place: Hyderabad

Date: 29-04-2015

Members of the Governing Body:

| Sl. No | ROLE | NAME | E-Mail id | Phone Nos. |
|--------|--|--|---|--------------------------------|
| 1 | CHAIRMAN Formerly Director, NRSA | Prof.B.L. Deekshatulu Distinguished Fellow, IDRBT | deekshatulu@hotmail.com | 9908499081 |
| 2 | MEMBER Industrialist | Mr.Ramesh Datla Managing Director Elico Ltd. | rameshd@elico.co | 040- 23771262 |
| 3 | MEMBER Industrialist | Mr.Sarat Chandra Babu Executive Director C-DAC, Bangalore | sarat@cdac.in | 9483508777 |
| 4 | MEMBER Industrialist | Mr.Ravi Kumar.S Head- Hyderabad Development Center Infosys Technologies Limited, Hyderabad | ravikumar_s@infosys.com | 9849491052 040- 67024608 |
| 5 | MEMBER Industrialist | Mr. Y. Harish Chandra Prasad Chairman Malaxmi Infra Ventures (India) Pvt.Ltd. | harish@malaxmi.in | 9848111511 040- 23358951 |
| 6 | MEMBER Industrialist | Dr.Prahlada Chief Controller, DRDO, New Delhi | prahlada.ramarao@gmail.com | 07760785666 |
| 7 | MEMBER Industrialist | Er.F.C.S. Peter Former Director General, National Academy of Construction | peters_fcs@yahoo.com | 9959300866 |
| 8 | MEMBER Academician Faculty of JNTUH | Prof.N.V. Ramana Rao Registrar, JNTUH, Kukatpally | rao.nvr@gmail.com | 9618023478 |
| 9 | MEMBER Academician Faculty of JNTUH | Dr. M.V. Seshagiri Rao Professor of Civil Engineering JNTUHCEH | rao_vs_meduri@yahoo.com | 9440361817 |
| 10 | MEMBER Academician (University Nominee) | Dr. A.Damodaram Director I/c, Academic and Planning, JNTUH | dapjntuh@gmail.com | 9849163875 |
| 11 | MEMBER Academician | Prof. P. Jaya Prakash Rao Nominee of Chairman APSCHE | pjpao@yahoo.com | 9866604733 |
| 12 | MEMBER(State Govt Nominee) | Nominee of Commissioner of Technical Education | spfuts@gmail.com | 9912342187 |
| 13 | MEMBER(AICTE Nominee) | Sri. Sh. Saroj Kumar Jena Nominee of South Central Regional Office, AICTE Hyderabad | scroo.aicte@gmail.com | 040- 23341036 |
| 14 | MEMBER (UGC Nominee) | Prof. Afshar Alam Jamia Hamdarad University Hamdard Nagar- New Delhi- 110 062. | aalam@jamiahamdard.ac.in | 9313971999 |
| 15 | MEMBER SECRETARY | Dr.N.Yadaiah Principal, JNTUHCEH | svpnarri@yahoo.com principal.keh@jntuh.ac.in | 8121240134 |

1. Institutional Basic Information

1.1 Institution Identity:

- Name of the Institution : JNTUH College of Engineering Hyderabad
Kukatpally, Hyderabad 500 085
- Name of Head of Institution : Dr. N. Yadaiah
- Is the Institution AICTE approved? : **Yes**
- Furnish AICTE approval no. : F-730-50-210(E)E/ET/97
Dt. 02-05-2008
- Type of Institution : **Govt. funded**
- Status of Institution : Constituent and Autonomous College of
Jawaharlal Nehru Technological
University - Hyderabad.

1.2 Nodal Officers/Coordinators:

| Sl. No. | Designation | Name | Mobile Number +91 | E-mail |
|---------|-----------------------------------|-------------------------|-------------------|--------------------------|
| 1. | Principal, JNTUHCEH | Dr. N. Yadaiah | 8121240134 | svpnarri@yahoo.com |
| 2. | Coordinator, TEQIP-II | Dr.D.Srinivasa Rao | 9441189228 | dsraoece@gmail.com |
| 3. | Asst Coordinator, TEQIP-II | Dr. K.Anitha Sheela | 9441189219 | kanithasheela@gmail.com |
| 4. | Procurement Coordinator, TEQIP-II | Dr. J. Suresh Kumar | 9848349839 | jyothula1971@@gmail.com |
| 5. | Coordinator, Academic-TEQIP-II | Dr. M. V. Seshagiri Rao | 9440361817 | Rao_vs_meduri@yahoo.com |
| 6. | Coordinator, M&E TEQIP-II | Dr. S. Chandralingam | 9848852826 | Chandra_lingam@yahoo.com |
| 7. | Financial Coordinator, TEQIP-II | Smt. C. Shashi | 8008103892 | shashichilla@gmail.com |

1.3 Academic Information

Engineering Programmes offered in Academic year 2014-15

| S. No. | Branch | Name of the course | Course Period | Intake | Actual Enrolment | | | | | Total |
|--------------|---------------------------|--------------------------------------|---------------|------------|------------------|------------------|------------------|------------------|------------------|-------------|
| | | | | | 2010-11 (5th Yr) | 2011-12 (4th Yr) | 2012-13 (3rd Yr) | 2013-14 (2nd Yr) | 2014-15 (1st Yr) | |
| 1 | B.Tech. (Regular) | Civil Engineering | 4 Years | 60 | -- | 56 | 62 | 79 | 75 | 272 |
| 2 | B.Tech. (Regular) | Electrical & Electronics Engineering | 4 Years | 60 | -- | 52 | 58 | 73 | 62 | 245 |
| 3 | B.Tech. (Regular) | Mechanical Engineering | 4 Years | 60 | -- | 53 | 59 | 75 | 69 | 256 |
| 4 | B.Tech. (Regular) | Electronics & Communication Engg. | 4 Years | 60 | -- | 49 | 52 | 75 | 65 | 241 |
| 5 | B.Tech. (Regular) | Computer Science & Engineering. | 4 Years | 60 | -- | 52 | 54 | 78 | 71 | 255 |
| 6 | B.Tech. (Regular) | Metallurgical Engineering | 4 Years | 60 | -- | 40 | 50 | 63 | 60 | 213 |
| 7 | B.Tech. (Regular) | Chemical Engineering | 4 Years | 60 | -- | -- | -- | -- | 57 | 57 |
| Total | | | | 420 | -- | 302 | 335 | 443 | 459 | 1539 |
| 8 | IDP(B.Tech.+M.Tech) (Reg) | Civil Engineering | 5 Years | 18 | 19 | 17 | 18 | 18 | 17 | 89 |
| 9 | IDP(B.Tech.+M.Tech) (Reg) | Electrical & Electronics Engineering | 5 Years | 18 | 19 | 18 | 18 | 18 | 16 | 89 |
| 10 | IDP(B.Tech.+M.Tech) (Reg) | Mechanical Engineering | 5 Years | 18 | 19 | 17 | 18 | 19 | 20 | 93 |
| 11 | IDP(B.Tech.+M.Tech) (Reg) | Electronics & Communication Engg. | 5 Years | 18 | 21 | 19 | 18 | 18 | 19 | 95 |
| 12 | IDP(B.Tech.+M.Tech) (Reg) | Computer Science & Engineering. | 5 Years | 18 | 19 | 18 | 16 | 17 | 20 | 90 |
| Total | | | | 90 | 97 | 89 | 88 | 90 | 92 | 456 |
| 13 | IDP(B.Tech.+MBA) (Reg) | Civil Engineering | 5 Years | 12 | 9 | 11 | 12 | 12 | 11 | 55 |
| 14 | IDP(B.Tech.+MBA) (Reg) | Electrical & Electronics Engineering | 5 Years | 12 | 13 | 11 | 11 | 11 | 10 | 56 |
| 15 | IDP(B.Tech.+MBA) (Reg) | Mechanical Engineering | 5 Years | 12 | 13 | 12 | 12 | 12 | 12 | 61 |
| 16 | IDP(B.Tech.+MBA) (Reg) | Electronics & Communication Engg. | 5 Years | 12 | 12 | 13 | 12 | 12 | 12 | 61 |
| 17 | IDP(B.Tech.+MBA) (Reg) | Computer Science & Engineering. | 5 Years | 12 | 11 | 12 | 12 | 11 | 13 | 59 |
| Total | | | | 60 | 58 | 59 | 59 | 58 | 58 | 292 |

| | | | | | | | | | | |
|----|---------------------------|--|---------|------------|-----------|-----------|------------|-------------------------|-------------------------|--------------|
| 18 | IDDMP | Structural Mechanical Engineering | 5 Years | 20 | 0 | 19 | 20 | 15 | -- | 54 |
| 19 | IDDMP | Telecommunication Systems | 5 Years | 30 | 21 | 20 | 20 | 18 | -- | 79 |
| 20 | IDDMP | Signal Processing | 5 Years | | 0 | 10 | 10 | 9 | -- | 29 |
| 21 | IDDMP | Radio Communications | 5 Years | | 0 | 9 | 10 | 2 | -- | 21 |
| 22 | IDDMP | Computer Science & Engineering. | 5 Years | 15 | 16 | 15 | 14 | 11 | 13 | 69 |
| 23 | IDDMP | Software Engg. | 5 Years | 15 | 15 | 14 | 14 | 12 | 12 | 67 |
| | Total | | | 80 | 52 | 87 | 88 | 67 | 25 | 319 |
| 24 | IIDDMP | Civil Engineering | 5 Years | 60 | -- | -- | 28 | 43 | -- | 71 |
| 25 | IIDDMP | Electrical & Electronics Engineering | 5 Years | 40 | -- | -- | 9 | 29 | -- | 38 |
| 26 | IIDDMP | Electronics & Communication Engg. | 5 Years | 60 | -- | -- | 53 | 53 | -- | 106 |
| 27 | IIDDMP | Computer Science & Engineering. | 5 Years | 60 | -- | -- | 28 | 48 | 21 | 97 |
| 28 | IIDDAPLP | Aviation Engineering | 4 Years | 32 | -- | -- | 6 | 4 | 2 | 12 |
| | | | | 252 | -- | -- | 124 | 177 | 23 | 324 |
| | | | | | | | | 2013-14 (2nd Yr) | 2014-15 (1st Yr) | Total |
| 29 | M.Tech. (Reg) CIVIL | Structural Engineering | 2 Years | 25 | -- | -- | -- | 28 | 27 | 55 |
| 30 | M.Tech. (Reg) CIVIL | Transportation Engineering | 2 Years | 25 | -- | -- | -- | 26 | 27 | 53 |
| 31 | M.Tech. (Reg) CIVIL | Infrastructure Engineering | 2 Years | 25 | -- | -- | -- | 25 | 23 | 48 |
| 32 | M.Tech. (Reg) CIVIL | Geo-Tech. Engineering | 2 Years | 25 | -- | -- | -- | 26 | 21 | 47 |
| 33 | M.Tech. (Reg) CIVIL | Urban Transportation Engineering | 2 Years | 25 | -- | -- | -- | 24 | 24 | 48 |
| 34 | M.Tech. (Reg) EEE | Power Electronic | 2 Years | 25 | -- | -- | -- | 25 | 25 | 50 |
| 35 | M.Tech. (Reg) EEE | Electrical Power Engineering | 2 Years | 25 | -- | -- | -- | 27 | 26 | 53 |
| 36 | M.Tech. (Reg) Mech. Engg. | Advanced Manufacturing Systems | 2 Years | 25 | -- | -- | -- | 26 | 22 | 48 |
| 37 | M.Tech. (Reg) Mech. Engg. | Thermal Engineering | 2 Years | 25 | -- | -- | -- | 28 | 22 | 50 |
| 38 | M.Tech. (Reg) Mech. Engg. | Engineering Design | 2 Years | 25 | -- | -- | -- | 25 | 23 | 48 |
| 39 | M.Tech. (Reg) ECE | Digital Systems & Computer Electronics | 2 Years | 25 | -- | -- | -- | 24 | 23 | 47 |

| | | | | | | | | | | |
|----|----------------------------|--------------------------------------|---------|------------|----|----|-------------------------|-------------------------|-------------------------|--------------|
| 40 | M.Tech. (Reg) ECE | Systems & Signal Processing | 2 Years | 25 | -- | -- | -- | 27 | 19 | 46 |
| 41 | M.Tech. (Reg) ECE | Embedded Systems | 2 Years | 25 | -- | -- | -- | 26 | 25 | 51 |
| 42 | M.Tech. (Reg) CSE | Computer Science | 2 Years | 25 | -- | -- | -- | 30 | 25 | 55 |
| 43 | M.Tech. (Reg) CSE | Information Technology | 2 Years | 25 | -- | -- | -- | 21 | -- | 21 |
| 44 | M.Tech. (Reg) CSE | Computer Science & Information Engg. | 2 Years | 25 | -- | -- | -- | -- | 18 | 18 |
| 45 | M.Tech. (Reg) Mett | Metallurgy | 2 Years | 25 | -- | -- | -- | 19 | 19 | 38 |
| 46 | M.Tech. (Reg) | Energy Systems | 2 Years | 25 | -- | -- | -- | 19 | 20 | 39 |
| | | Total | | 450 | -- | -- | -- | 426 | 389 | 815 |
| 47 | M.Sc. (Reg) Mathematics | Sys. Theory and Computer Modeling | 2 Years | 25 | -- | -- | -- | 0 | 15 | 15 |
| 48 | M.Sc. (Reg) Mathematics | Applied Mathematics | 2 Years | 25 | -- | -- | -- | 15 | -- | 15 |
| 49 | M.Sc. (Reg) Physics | Fibre Optics and Communication | 2 Years | 25 | -- | -- | -- | 14 | -- | 14 |
| 50 | M.Sc. (Reg) Chemistry) | Organic Chemistry | 2 Years | 25 | -- | -- | -- | 25 | 21 | 46 |
| | | Total | | 100 | -- | -- | -- | 54 | 36 | 90 |
| 51 | M.Tech. | Mechatronics | 2 Years | 30 | -- | -- | -- | 32 | 32 | 64 |
| | | | | | | | 2012-13 (3rd Yr) | 2013-14 (2nd Yr) | 2014-15 (1st Yr) | Total |
| 52 | Computer Science & Engg. | MCA | 3 Years | 30 | -- | -- | 30 | 30 | 23 | 83 |
| | | | | | | | | | | |
| 53 | M.Tech. (PTPG) Civil | Structural Engg. | 3 Years | 30 | -- | -- | 30 | 30 | 30 | 90 |
| 54 | M.Tech. (PTPG) Civil | Transportation Engg. | 3 Years | 30 | -- | -- | 30 | 26 | -- | 56 |
| 55 | M.Tech. (PTPG) EEE | Electrical Power Engg. | 3 Years | 30 | -- | -- | 30 | 19 | 22 | 71 |
| 56 | M.Tech. (PTPG) EEE | PE & ID | 3 Years | 30 | -- | -- | 28 | 18 | -- | 46 |
| 57 | M.Tech. (PTPG) Mech. Engg. | Advanced Manufacturing Systems | 3 Years | 30 | -- | -- | 30 | 0 | -- | 30 |
| 58 | M.Tech. (PTPG) Mech. Engg. | Thermal Engg. | 3 Years | 30 | -- | -- | 30 | 30 | -- | 60 |
| 59 | M.Tech. (PTPG) Mech. Engg. | Engineering Design | 3 Years | 30 | -- | -- | 30 | 30 | 30 | 90 |
| 60 | M.Tech. (PTPG) ECE | Systems & Signal Processing | 3 Years | 30 | -- | -- | 30 | 29 | -- | 59 |
| 61 | M.Tech. (PTPG) CSE | Computer Science | 3 Years | 30 | -- | -- | 30 | 21 | -- | 51 |
| 62 | M.Tech. (PTPG) . | Energy Systems | 3 Years | 30 | -- | -- | 26 | -- | -- | 26 |

| | | | | | | | | | | |
|--|--|--------------------|--|-------------|------------|------------|-------------|-------------|-------------|-------------|
| | | Total | | 300 | -- | -- | 294 | 203 | 82 | 579 |
| | | Grand Total | | 1812 | 207 | 537 | 1018 | 1580 | 1219 | 4561 |

Ph.D Full time Scholars

| S.No. | Department | Day Time | | |
|-------|---|-----------|-----------|-----------|
| | | I Year | II Year | Total |
| 1 | Civil Engineering | 02 | 01 | 03 |
| 2 | Electrical & Electronics Engineering | 04 | 02 | 06 |
| 3 | Mechanical Engineering | 02 | 01 | 03 |
| 4 | Electronics & Communication Engineering | 04 | 02 | 06 |
| 5 | Computer Science and Engineering | 02 | 01 | 03 |
| 6 | Metallurgical Engineering | 01 | -- | 01 |
| 7 | Mathematics | 01 | | 01 |
| | | 16 | 07 | 23 |

IDP (B.Tech. + M.Tech. / MBA) - Integrated Dual Degree Programme

IDDMP (B.Tech. + M.Tech. & MS)– Integrated Double Degree Masters Programme in collaboration with BTH, Sweden.

IIDDMP (B.Tech. + M.Tech. & MS)– International Integrated Double Degree Masters Programme in collaboration with AIT, Bangkok.

IIDDAPLP :B. Tech in Aviation Engineering & A.S.S Professional Pilot Degree and FAA certified Pilot Licenses by USA

1.4 Accreditation Status: All six eligible UG programs are accredited and Nine PG programs out of Fourteen eligible PG programs are accredited by NBA. NBA Application for five PG programs is in process

UG/PG programs:

| Sl. No | Particulars | UG | PG |
|--------|---------------------------|----|-----|
| 1. | No. of Programmes Offered | 07 | 17 |
| 2. | Eligible | 06 | 14 |
| 3. | Applied (Renew Process) | - | *05 |
| 4. | Obtained | 06 | 09 |

* NBA Applications for five PG Specializations is in process

UG Programs

| S.No. | Name of the Programme | No. of years accredited | Ref. No. |
|-------|-----------------------|-------------------------|----------|
|-------|-----------------------|-------------------------|----------|

| | | | |
|---|---|---------|---|
| 1 | B.Tech. Civil Engineering | 2 years | File No. 11-160/2010 dt. 19-08-2013 |
| 2 | B.Tech. Electrical & Electronics Engineering | 2 Years | File No. 11-160/2010 dt. 19-08-2013 |
| 3 | B.Tech. Mechanical Engineering | 5 Years | File No. 11-160/2010/NBA dt. 30-05-2014 |
| 4 | B.Tech. Electronics & Communication Engineering | 5 Years | |
| 5 | B.Tech. Computer Science & Engineering | 2 Years | |
| 6 | B.Tech. Metallurgical Engineering | 2 Years | |

PG Programs

| S.No. | Name of the Programme | No. of years accredited | Ref. No. |
|-------|--|-------------------------|---|
| 1 | M.Tech. Structural Engineering | 3 years | File No. 11-160/2010/NBA dt. 19-08-2013 |
| 2 | M.Tech. Power Electronics | 3 years | |
| 3 | M.Tech. Electrical Power Engineering | 3 years | |
| 4 | M.Tech. Thermal Engineering | 3 years | |
| 5 | M.Tech. Digital Systems & Computer Electronics | 3 years | |
| 6 | M.Tech. Computer Science | 3 years | File No. 11-160/2012/NBA dt. 8-02-2014 |
| 7 | M. Tech. Geo-Technical Engineering | 5 years | File No. 11-160/2010/NBA dt. 06-12-2013 |
| 8 | M.Tech. Advanced Manufacturing Systems | 5 years | |
| 9 | M.Tech. Systems & Signal Processing | 5 years | |

1.5 Faculty Status (Regular / Contract Faculty as on March 31st 2015)

| Designation | Sanctioned | | In Position | | | | Vacancies | |
|-----------------------|------------|-----|-------------|-----|----------|-----|-----------|-----|
| | Engg | H&S | Regular | | Contract | | Engg | H&S |
| | | | Engg | H&S | Engg | H&S | | |
| Prof. | 23 | 09 | 61* | 07 | 2 | | – | 05 |
| Asso. Prof. | 30 | 05 | 13 | 03 | | | 01 | 01 |
| Asst. Prof. | 62 | 19 | 21+1 | 06 | | | 14 | 14 |
| Lect/Visiting faculty | | | | | 87 | 39 | – | |

1.6 Student Placements: Placements details are given for the academic year 2014-2015

IV/IV B.Tech (Regular)

| S.no. | Branch | Total class strength | Ineligible | Higher education/not interested | Eligible&Registered | Placed | Not placed |
|-------|------------|----------------------|------------|---------------------------------|---------------------|--------|------------|
| 1. | CSE | 52 | 2 | 6 | 44 | 43 | 1 |
| 2. | ECE | 50 | 0 | 7 | 43 | 40 | 3 |
| 3. | EEE | 53 | 0 | 4 | 49 | 40 | 9 |
| 4. | MECHANICAL | 53 | 0 | 5 | 48 | 40 | 8 |
| 5. | CIVIL | 47 | 2 | 5 | 40 | 35 | 5 |
| 6. | METALLURGY | 40 | 0 | 7 | 33 | 18 | 15 |
| TOTAL | | 295 | 6 | 32 | 257 | 216 | 41 |

B.Tech (IDP)

| S.no. | Branch | Total class strength | Ineligible | Higher education/not interested | Eligible&Registered | Placed | Not placed |
|-------|--------|----------------------|------------|---------------------------------|---------------------|--------|------------|
| 1. | CSE | 30 | 2 | 1 | 27 | 26 | 1 |
| 2. | ECE | 31 | 1 | 1 | 29 | 26 | 3 |
| 3. | EEE | 30 | 0 | 2 | 28 | 26 | 2 |
| 4. | ME | 30 | 0 | 9 | 21 | 17 | 4 |
| 5. | CE | 25 | 0 | 6 | 19 | 17 | 2 |
| TOTAL | | 146 | 03 | 19 | 124 | 112 | 12 |

M.Tech

| S.no. | Branch | Specialization | Total class strength | Ineligible | Not interested | Eligible & Registered | Placed | Not placed |
|-------|--------|----------------|----------------------|------------|----------------|-----------------------|--------|------------|
| 1. | CSE | CS | 21 | 2 | 5 | 14 | 11 | 3 |
| | | IT | 17 | 1 | 3 | 13 | 11 | 2 |
| 2. | ECE | DSCE | 20 | 4 | 8 | 08 | 4 | 04 |
| | | ES | 20 | 5 | 7 | 08 | 5 | 03 |
| | | SSP | 24 | 6 | 6 | 12 | 8 | 04 |
| 3. | EEE | EPE | 23 | 4 | 5 | 14 | 10 | 04 |
| | | PE | 20 | 5 | 5 | 10 | 4 | 6 |
| 4. | ME | AMS | 25 | 5 | 8 | 12 | 4 | 08 |
| | | ED | 19 | 5 | 7 | 07 | 2 | 05 |
| | | Thermal | 21 | 5 | 6 | 10 | 4 | 06 |
| 5. | CE | Structural | 18 | 07 | 04 | 07 | 1 | 06 |
| 6 | MET | MET | 17 | 4 | 5 | 08 | 1 | 07 |

| | | | | | | | |
|-------|--|-----|----|----|-----|----|----|
| TOTAL | | 245 | 53 | 69 | 123 | 65 | 58 |
|-------|--|-----|----|----|-----|----|----|

1.7 Students Internship: List of Internships obtained by UG & PG Students in 2014-15 is given in the following table

| S.No. | Company Name | Date of Visit | Departments | No. of Selected | Package(LPA) |
|-------|---------------|-------------------------|----------------------------------|-----------------|----------------------------|
| 1. | Oracle | 07-07-2014 & 10-07-2014 | CSE, ECE, EEE & IDP(M.Tech, MBA) | 4 | 7.5 |
| 2. | Deloitte | 14-07-2014 & 18-07-2014 | CSE,ECE,EEE | 12 | 5.5 |
| 3. | Model N | 31-07-2014 & 01-08-2014 | CSE,ECE | 6 | 6.1 |
| 4. | Commvault | 03-08-2014, 04-08-2014 | CSE | 2 | 14.5 |
| 5. | MAQ | 25-08-2014 | CSE,CSE(IDP) | 1 | 5 |
| 6. | TCS | 30-08-2014 to 2-09-2014 | All Branches | 5 | 3.2 |
| 7. | Uurmi Systems | 24-09-2014, 26-09-2014 | CSE,ECE(REG+IDP) | 5 | 4.5 |
| 8. | JP Morgan | 25-09-2014 | CSE,CSE-IDP,MCA | 7 | 7.2 |
| 9. | Cyient Ltd | 08-12-2014 | Mechanical Engineering | 5 | 3.25(B.Tech) & 3.5(M.Tech) |

2. TEQIP-II Information

2.1 Deliverables and Targets achieved up to March – 31st -2015.

| Sno | Deliverables | Baseline | Targets to be achieved | | Targets achieved |
|-----|---|-----------------------------------|------------------------------|---------------------------------------|--|
| | | | At the end of 2 years | By project closing | For the A.Y. 2014-15 |
| 1. | Numbers of students registered for a)Masters in Engineering programme b)Doctoral programme in engineering | 292+45 (I) 120 (6 Fulltime) | 443 156 (30 Fulltime) | 500 168 (40 Full time) | 615 318 (24 Full Time) (18-TEQIP 6-CoE) |
| 2. | Revenue from externally funded R&D projects and consultancies in total revenue(Rs.in lakhs) | 40.00 | 56.00 | 70.00 | 263.00 |

| | | | | | |
|-----|--|---|--|---|--|
| 3. | Number of publications in refereed journals <ul style="list-style-type: none"> National journals International journals b) Citations c) Patents obtained/filed d) Books e) No of R&D projects commercialized | 277 87 50 02/01 14 Nil | 30 15 02 04 --- | 90 45 04 06 02 | 500 210 290 03 05 04 |
| 4. | Number of co-authored publication in refereed journals a) National b) Internationals | 12 10 | 15 10 | 40 25 | 30 50 |
| 5. | Student credentials a) Campus placement rate of <ul style="list-style-type: none"> UG students PG students b) average salary of placement package for (Rs. in.lakhs) <ul style="list-style-type: none"> UG students PG students | 92% 20% 3.5 3.5 | 94% 45% 4.00 4.50 | 97% 72% 4.50 5.50 | 85.86% 37.03% 4.50 4.00 |
| 6. | Number of collaborative Programmes with industry | 02 | 06 | 10 | 07 |
| 7. | Accreditation status | 66% UG (34% UG applied for) 40% PG Applied for | 100% eligible UG & 60% PG Programmes applied for | 100% eligible UG & PG Programmes applied for | 100% eligible UG & 65% of eligible PG Programmes accredited. application for remaining five PG programs is in process |
| 8. | Vacancy position for faculty and staff | 10% | < 8% | < 5% | -- |
| 9. | Number of regular faculty having a Master degree or a doctorate degree in engineering disciplines | 62% Ph.D | 80% Ph.D | 90% Ph.D | 100% M.Tech 81.35% Ph.D |
| 10. | Transit rate from 1 st to 2 nd year for the following: <ul style="list-style-type: none"> All students SC ST Students OBC Students Women Students | 90.3% 76.3% 68.7% 89.6% 91% | 92% | 94% | (As per 2013-14) 82.00% 80.23% 81.47% 86.98% 91.63% |
| 11. | Autonomy Status | Applied For | Obtained | Obtained | Obtained |
| 12. | Enrollment of Faculty with only Bachelor degree for qualification upgradation | < 1% of the faculty with Bachelor Degree | 0 % | 0 % | 0% |
| 13. | Any other academic deliverables (maximum 3) | | | | |

| | | | | | |
|------|------------------------|----|----|-----------|-----------|
| (i) | Organizing Conferences | 03 | 02 | 04 | 06 |
| (ii) | Organizing Workshops | 12 | 12 | 24 | 37 |

2.2 Status of expenditure under TEQIP-II as on 31-3-2015

An amount of Rs. 12.5 crores is allotted to JNTUH College of Engineering Hyderabad under TEQIP-II. The sanctioned amount is allotted category-wise for key activities to the Project Institution. The project duration was from November, 2011 to October 2016. The sanctioned amount was released in installments, wherein the first installment was received in the month of July, 2012 and the last installment was received in October, 2014. Status of funds received/utilized, status of expenditure and procurement status is given in the following tables.

2.2.1 Status of funds received/utilized

| Received from | | Total | Utilized {expenditure} | % of expenditure against total funds received | Committed Expenditure | % (column 4+5) against total funds received |
|-----------------------|---|--------------------|---------------------------|---|-----------------------|---|
| Central & State Govt. | Institution share. | | | | | |
| 1 | 2 | 3 = 1 + 2 | 4 | 5 | 6 | 7 |
| 8,00,00,000) | 5,00,000+ 11,58,059 +1,00,00,000+ 75,00,000 (CoE) | 9,91,58,059 | 9,93,42,088 | 124% (8,00,00,000) | 82.67 | 124% |

2.2.2 The categories of allocated funds, expenditure and balance amount.

| S. No. | Category of Expenditure | Allocated (Lakhs) | Utilized (Lakhs) | Committed up to March 2015 Lakhs | Balance Amount Lakhs |
|--------|----------------------------------|-------------------|------------------|----------------------------------|----------------------|
| 1 | Procurement | 562.5 | 546.6 | 27.78 | -5.24 |
| 2 | Assistantships | 250 | 213.05 | 49.76 | -12.81 |
| 3 | R&D | 62.5 | 24.25 | 2.86 | 35.39 |
| 4 | FSD | 125 | 97.06 | 1.27 | 26.67 |
| 5 | I-I-I-Cells | 62.5 | 12.40 | 0 | 50.10 |
| 6 | Capacity development | 25 | 14.99 | 0 | 10.01 |
| 7 | Reforms | 12.5 | 19.24 | 0 | -6.74 |
| 8 | Student Support | 25 | 19.43 | 0 | 5.57 |
| 9 | IOC (Incremental Operating Cost) | 125 | 46.83 | 1.00 | 78.17 |
| | | 1250 | 993.42 | 82.67 | 181.12 |

2.2.3 Status of Procurement

| Approved by NPIU | | | Initiated / Pipe Line Exp. | | Committed Expenditure | | Actual Expenditure | |
|------------------|-------------|------------|----------------------------|--------|-----------------------|----------|--------------------|-------------|
| Proc method | No. of Pkgs | Amount | No. of Pkgs | Amount | No. of Pkgs | Amount | No. of Pkgs | Amount |
| Direct | 01 | 5,00,000 | 0 | 0 | 0 | 0 | 1 | 5,00,000 |
| Shopping | 41 | 246,04,572 | 0 | 0 | 1 | 9,00,000 | 40 | 2,39,08,804 |
| NCBs | 11 | 271,89,000 | 0 | 0 | 0 | 0 | 11 | 3,14,64,252 |
| TOTAL | 53 | 522,93,572 | 0 | 0 | 1 | 9,00,000 | 52 | 5,58,73,056 |

Note: Additional funding is required for establishing new laboratories and for procurement of new equipments. Details & justification is given in **Annexure - I**

2.3. Activities Conducted under TEQIP-II

2.3.1 Assistantships: Number of teaching assistantships provided for M.Tech students and Research scholars from 2011-15 is given in the following table.

| Sl. No | Prog. | 2011-12 | | | 2012-13 | | | 2013-14 | | | 2014-2015 | | |
|--------|----------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | | Year of study | | | Year of study | | | Year of study | | | Year of study | | |
| | | 1 st | 2 nd | 3 rd | 1 st | 2 nd | 3 rd | 1 st | 2 nd | 3 rd | 1 st | 2 nd | 3 rd |
| 1 | Masters | 12 | | | 07 | 12 | | 83 | 82 | | 79 | 76 | |
| 2 | Doctoral | | | | 07 | | | 11 | 07 | | | 11 | 07 |

Expenditure Details for teaching Assistantship

| Assistantship for | Allocated Amount | Cumulative Expenditure up to March 2015 |
|-------------------|---------------------|---|
| Ph.D Scholars | Rs.2, 50, 00, 000/- | Rs. 51,10,491/- |

| | | |
|---------------------------------|-------------------|-------------------|
| M.Tech 1 & 2 nd year | | Rs. 1,84,90,500/- |
| Total | Rs. 2,50,00,000/- | Rs. 2,36,00,991/- |

Note: Additional funding is required for teaching assistantship. Details & justification is given in **Annexure - I**

2.3.2 Research & Development activities: Faculty members of various departments are actively involved in research Development activities. Joint research activities with industrial organisations are in progress. New research projects and ongoing research projects from various departments obtained from the funding agencies like DST, DRDO, RCI, UGC, AICTE etc., is given in the following tables.

New research projects sanctioned during the academic year 2014-15

| S.No. | Name of the Project | Name of the Principal Investigator | Amount Sanctioned (Rs. In Lakhs) | Agency |
|-------|---|---|----------------------------------|--------------------|
| 1. | Design and development of brain inspired intelligent controller to solve complex non-linear systems | Dr. N. Yadaiah Prof. of EEE & Principal | 54.6 | DST (Under CSI) |
| 2. | Analysis of Crypto System using Information Theoretic Approach with the help of Spurious Keys (CSITS) | Dr. L. Pratap Reddy Prof. of ECE | 9.85 | RCI |
| 3. | Design, Construction & Analysis of Comprehensive Dataset for Emotion Detection using Multiple Biometrics | Dr. K. Anithasheela Assoc. Prof. of ECE | 11.37 | UGC |
| 4. | Investigation of Refrigeration System using Eco Friendly Refrigerant with Nano particles added to Lubricating Oil | Dr. T. Kishen Kumar Reddy Prof. of Mechanical Engineering & Rector | 21.17647 | AICTE |

On-going Research projects

| Department | Source of Funding | Total Cost | Title of the Project | Name of the Project Investigator |
|------------------------|---------------------------------|------------------|--|---|
| Civil, EEE, ECE & CSE | World Bank under TEQIP-II, MHRD | Rs. 500.00 Lakhs | Centre of Excellence in Disaster Management | Co-ordinator Dr. B. Dean Kumar Principal Investigators 1) Dr. K.M. Lakshmana Rao 2) Dr. D. Srinivasa Rao, 3) Dr. G. Narsimha Reddy |
| CIVIL | DST | Rs. 17.00 Lakhs | Stabilised Compressed Earth Blocks using Rice Husk Ash and their applications to Load Bearing Walls | Dr. M. Janardhana, Professor of Civil Engg. And Dr. N. Darga Kumar Asst. Professor of Civil Engg |
| Mechanical Engineering | DRDO | Rs. 26.85 Lakhs | Numerical Simulation of Plannar Flow Melt Spinning Process using CFD analysis and optimization process parameters for obtaining good quality amorphous | Dr. T. Kishen Kumar Reddy, Prof. of Mechanical Engineering & Rector And Dr. A. Chennakesava Reddy, Professor of Mechanical Engineering |

| | | | | |
|--------------------------------|------|-----------------|--|---|
| | | | ribbons of Fe-Si-B alloys | |
| Mechanical Engineering | DRDO | Rs. 9.86 lakhs | Scram Jet Combustion | Dr. T. Kishen Kumar Reddy, Professor of Mechanical Engg. & Rector, JNTUH. |
| ECE | DST | 51.00 lakhs | FIST Programme | Dr. M. Madhavi Latha, Prof. of ECE & Dr. B.N. Bhandari, Prof. of ECE |
| Computer Science & Engineering | DIT | Rs. 48.48 Lakhs | Development of Integer Based Homomorphic Encryption Techniques with application on Cloud Computing | Dr. G. Vijaya Kumri, Professor of CSE |
| Metallurgical Engineering | NMDC | Rs. 12.65 lakhs | Research Consultancy Project | Dr. R. Markandeya & Dr. S. Devaki Rani |
| Mathematics | UGC | Rs.10.40 lakhs | Stochastic / Delayed Non-Linear Mathematical modeling of certain biological systems | Dr. M.A. Srinivas, Prof. & Head of Mathematics |
| Chemistry | UGC | Rs.7.00 lakhs | Synthesis and biological activities of Metal complexes from benzimidazoles | Dr. Ch. Venkata Ramana Reddy, Prof. of Chemistry & Director, UIIC |
| Chemistry | CSIR | Rs.7.50 lakhs | Synthesis of novel benzimidazoles and quinolines as potential anti-TB agents | Dr. B. Rama Devi, Prof. & Head of Chemistry |
| Chemistry | BARC | 33.95 lakhs | Development of PEM, AEM and alkaline water electrolysis for hydrogen production, BRNS | PI : Dr. Hima Bindu, IST Co PI : Dr. B. Rama Devi, Prof. of Chemistry & Head |

Faculty Publications: list of faculty publications in various national, international journals, conferences & Patents filed are given in the following table.

| ACTIVITY | 2011-12 | | 2012-13 | | 2013-14 | | 2014-15 | |
|-----------------------------|----------|----------------|----------|----------------|----------|----------------|----------|----------------|
| | National | Inter national | National | Inter national | National | Inter-national | National | Inter-national |
| No. of Publications | 51 | 130 | 82 | 195 | 102 | 105 | 150 | 245 |
| No. of Conferences attended | 42 | 116 | 75 | 158 | 131 | 225 | 200 | 210 |

Patents filed

| ACTIVITY | 2011-12 | | 2012-13 | | 2013-14 | | 2014-15 | |
|----------------|---------|----------|---------|----------|---------|----------|---------|----------|
| | Filed | Obtained | Filed | Obtained | Filed | Obtained | Filed | Obtained |
| No. of Patents | 2 | -- | 2 | --- | -- | --- | 1 | -- |

2.3.3 Faculty and Staff Development (FSD)

Faculty (Teaching & Non teaching) from various departments have organised and attended many workshops/conferences/symposium during the last four years under TEQIP-II.

| Particulars | 2011-12 | 2012-13 | 2013-14 | 2014-2015 | Total |
|---|---------|---------|---------|-----------|-------|
| No. of Programmes conducted | — | 12 | 35 | 36 | 83 |
| No. of beneficiaries | — | 469 | 1200 | 2060 | 3729 |
| No of faculty attended the Programmes at other institutions | — | 11 | 36 | 90 | 137 |

2.3.4 Industry Institute Interaction (III)

- Board of Studies (BoS) of each department is having one or two industry persons as members.
- One complete semester course is handled by industry person
- In each department Industry Advisory Committee (IAC) has been constituted to increase interaction with industries, internships and placement opportunities for students. IAC is constituted with HoD of the Department, one BoG member, four industry personal, two senior faculty members of the Dept and TEQIP coordinator of the department.

MoU's entered with organizations & Industries

| Sl. No | Name of activity | 2011-12 | 2012-13 | 2013-14 | 2014-15 | Total |
|--------|---|------------|---------|------------------------|---------|-------|
| 1 | No. of MoUs signed with Industries (enclose List of industries) | TI CITD | CDAC | Netcrackers And CII | KITE | 6 |
| 2 | Expert Lectures organized | -- | 8 | 8 | 6 | 22 |
| 3 | Campus Placements | 317 | 394 | 356 | 471 | 1512 |
| 4 | No. of Industries Involved in Curriculum development | 9 | 9 | 11 | 12 | 41 |
| 5 | Industry sponsored chair | — | — | — | — | — |

Entrepreneurship Development Cell (EDC) Activities: The following activities are conducted under Entrepreneurship Development Cell.

| S.No | Name of The Programme | Date | No.of | Target | Venue | Chief |
|------|-----------------------|------|-------|--------|-------|-------|
|------|-----------------------|------|-------|--------|-------|-------|

| | | | Participants | Group | | Sponsor |
|----|---|--|--------------|---------------------------------------|--|----------------------------------|
| 1. | Entrepreneurship Awareness Camp | 3 rd and 4 th March, 2014 | 150 | Science & Engineering Students | SR Engineering College, Kazipet | EDII-DST-NIMAT PROJECT |
| | Women Entrepreneurship Development Programme | 17-02- 2014 to 18 & 03- 2014 | 25 | Science & Engineering Students | EDCell, JNTUH Kukat pally Hyd | EDII-DST-NIMAT PROJECT |
| 2. | Faculty Development Programme in Entrepreneurship(FDP) | 23-06-2014 to 05-07-2014 | 21 | Faculties of Science & Engg. Collages | EDCell, JNTUH Kukat pally Hyd | EDII-DST-NIMAT PROJECT |
| 3. | Technology based Entrepreneurship Development Programme on Solar Power Technologies(TEDP) | 31-07-2014 to 11-09- 2014 | 36 | Science & Engineering Graduates | EDCell, JNTUH Kukat pally Hyd. | EDII-DST-NIMAT PROJECT |
| 4 | Entrepreneurship Awareness Camp | 2-09-2014 to 25-09-2014 | 85 | Science & Engineering Students | Sridevi Women's Engineering College, R.R.Dist. | EDII-DST-NIMAT PROJECT |
| 5 | Technology based EDP on Animations (TEDP) | 18-12- 2014 to 31 -01-2017 | 30 | Science & Engineering Students | EDCell, JNTUH Kukat pally Hyd. | EDII under DST-NIMAT (2014-2015) |
| 6 | One day Entrepreneurship Awareness Drive | 23 rd December 2014 | 50 | Science & Engineering Students | EDCell, JNTUH Kukat pally Hyd. | NIT, Trichy &EDCell, JNTUH CEH |
| 7 | Technology based EDP on Animations (TEDP) at EDCCell, JNTUH | 18 th Dec 2014 to 31 st Jan 2015 | 30 | Science & Engineering Students | EDCell, JNTUH Kukat pally Hyd. | EDII under DST-NIMAT (2014-2015) |
| 8 | Three Day Entrepreneurship Awareness Camp at Malla Reddy Engg. College, Hyd. | 18 th to 20 th March 2015 | 80 | Science & Engineering Students | Malla Reddy Engg. College, Hyd. | EDII under DST-NIMAT (2014-2015) |
| 9 | Entrepreneurship Development Programme on Solar | 31 st March 2015 to 30 th April 2015 | 45 | Science & Engineering Students | EDCell, JNTUH Kukat pally Hyd. | EDII under DST-NIMAT (2014-2015) |

2.3.5 Capacity Development: Following is the list of faculty members attended for Capacity building training programs

| S.No. | Name of the Staff | Area of Training | Duration | Dates | Venue & Trainer Organization |
|-------|--------------------------------------|---------------------------|----------|----------|------------------------------|
| 1 | Dr.N. Yadaiah Prof N. Deekshatulu | Good Governance Programme | 2 days | May 2014 | ASCI |

| | | | | | |
|----|---|--|--------|---------------------------------|-------------------|
| 2. | Dr.M. Indira Rani, Prof of Mech., Dept., | Management Capacity Enhancement for Administrator | 5 days | August 2014 | Bangalore |
| 3. | Dr.V. Kamakshi Prasad, Dr. K. Supreethi Prof of CSE Dept., | Student, Faculty & Staff Satisfaction Survey | 1 day | 23 rd September 2014 | Bangalore |
| 4. | Dr.N. Yadaiah Prinicipal & Prof., of EEE Dept., | Good Governance Leadership Programme | 1 day | October 2014 | New Delhi |
| 5. | Dr. A. Vinaya Babu Dr.E. Saibaba Reddy Prof of Civil Dept & CSE Dept., | Capacity Building for excellence in Higher Education | 6 days | June 2014 | Thailand, Bangkok |

Non-Teaching Staff Attended Capacity Development Training Programmes:

| S. No | Name of The Staff Member | Area of Training | Duration | Dates | Trainer Organization |
|-------|--|------------------------------------|----------|--|----------------------|
| 1 | Mr. B. Kishan Mr. A Srinivas | Capacity Building Training Program | 4days | 16 th - 19 th September-2014 | Mysore |
| 2 | Smt. J. Sudha Madhuri Smt. Padmavathi Sri N. Damodhar Reddy Sri Goverdhan | Capacity Development | 4 days | 28 th to 31 st October-2014 | Bangalore |

2.3.6 Academic Reforms

The Governing Body of the college is keen on implementing institutional reforms for enhancing the quality of the programs offered and accreditation of the courses. This is proposed to give autonomy of reasonable levels to the institute with suitable delegation of powers. The programs would gain recognition through accreditation. The vacancy position of the sanctioned strength is targeted to be decreased and faculty qualification up gradation. Presently the college is offering 7 UG Programs & 17 Regular PG Programs. All six eligible UG programs are accredited and Nine PG programs out of 14 eligible PG programs are accredited by NBA. NBA Application for five PG programs is in process

Academic Reforms during last two years

- PG BoS Meeting Conducted for All Specializations on 20th & 21st, June 2014
- In the recent BoS meeting, 5 Theory + 3 Laboratories structure has been implemented instead of 6 Theory + 2 Laboratories in each semester to improve the hands on practical knowledge.
- More number of open electives are introduced.
- Open electives and credit transfer system implemented for Collaborative Programmes offered with collaboration of Foreign Universities
- UG BoS Meeting Conducted for UG Chemical Engineering on 22-12-2014.
- In end examination of M.Tech program question paper pattern is changed.

- New PG programs are started
- New laboratories are established

New PG courses started

| Sl. No | Details | A.Y 2011-12 | A.Y 2012-13 | A.Y 2013-14 | A.Y 2014-15 |
|--------|---------------------------|---|---|---------------------|--|
| 1 | Proposed in IDP | 1. Design Engineering 2. 5yr IDDMP Programme (Innovative) 3. Embedded Systems (Inter-disciplinary) 4. Material Technology 5. Advanced Computing | -- | -- | 1. M.Tech (Nuclear Power Engineering) as a part of MoU with BARC, Mumbai. 2. B. Tech in Chemical Engineering. |
| 2 | No. of Programmes Started | 1. Design Engineering 2. Embedded Systems (Inter-disciplinary) | 5yr IDDMP In Civil, ECE, EEE, CSE, branches with BTH Sweden | Material Technology | 1. B. Tech in Chemical Engineering. 2. M.Tech. (Computer Science & Information Engg.,) as per the proposal submitted by the Institute for TEQIP-II sanction. 3. M.Tech (Nuclear Power Engineering) as a part of MoU with BARC, Mumbai. |

New Laboratories established under TEQIP-II

1. Advanced Communications & Networking lab in ECE Dept
2. Physical Mett. Lab in Mett. Engg Dept.
3. Ad-hoc & Sensor networks lab
4. Wireless & Mobile communications lab in CSE Dept
5. Power System Lab in EEE Dept
6. Kinematics & Dynamics Mechanical Engg Dept
7. Non Destructive Testing lab in Civil Engg. Dept

Note: Additional funding is required for academic reforms. Details & justification is given in **Annexure - I**

2.3.7 Student Support

Transition rate:

| Sl. No | Particulars of Students | 2011-12 | | | 2012-13 | | | 2013-14 | | |
|--------|-------------------------|--------------|------------|----------|--------------|------------|----------|--------------|------------|----------|
| | | No. Appeared | No. Passed | % passed | No. Appeared | No. Passed | % passed | No. Appeared | No. Passed | % passed |
| 1 | All | 412 | 325 | 79% | 491 | 412 | 80 % | 565 | 453 | 80% |
| 2 | SC | 43 | 30 | 69% | 60 | 48 | 80 % | 70 | 56 | 81% |
| 3 | ST | 19 | 14 | 73% | 23 | 18 | 78 % | 37 | 27 | 75% |
| 4 | OBC | 126 | 109 | 86% | 200 | 156 | 78% | 234 | 192 | 82% |

Finishing Schools:

| Sl. No | Name of activity | 2012-13 | | 2013-14 | | 2014-15 | |
|--------|----------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | Conducted | Benefited | Conducted | Benefited | Conducted | Benefited |
| 1 | Communication Skills | 2 | 140 | 4 | 423 | 6 | 450 |
| 2 | Professional Skills | 4 | 240 | 4 | 475 | 9 | 750 |
| 3 | Group discussions | 10 | 200 | 7 | 200 | 6 | 450 |
| 4 | Others | - | - | - | - | - | - |

2.4 Management Information System (MIS) STATUS:

| Academic year | Task completed Fully/ Partially | Number of Screens completed | Remarks(Difficulties in uploading data) |
|---------------|---------------------------------|-----------------------------|---|
| 2010-2011 | Fully | 62 | Nil |
| 2011-2012 | Fully | 62 | Nil |
| 2012-2013 | Fully | 62 | Nil |
| 2013-2014 | Fully | 62 | Nil |
| 2014-2015 | Fully | 62 | Nil |

2.5 Status of Governance Development Plan (GDP) Document

The College has its Governance Development Plan (GDP) document which indicates the Roadmap for the development of the College for the next five years i.e. 2015 to 2020. Governance development plan(GDP) Document of the Institution consisting of Vision ,Mission , strategic plan

and road map has been approved by BOG in the recent meeting held on 26-03 2015. GDP Document is also uploaded to college website

Copy of the GDP is enclosed in **annexure-II**

2.6 Transparency in Administration

The College has BoG which guides the College administration in decision making of the various activities and has College Academic Council which is the final authority for all the academic related activities / approvals. To maintain the transparency in College administration, it conducts BoG meetings as well as CAC meetings time to time. During the academic year 2014-15, the BoG has met four times and CAC has met six times.

The following are the dates of BoG meetings:

2.6.1 Details of BoG Meetings:

| Dates of Meeting | A. Y. 2011-12 | A.Y. 2012-13 | A.Y. 2013-14 | A.Y 2014-15 |
|--------------------------|---------------|--------------|--------------|-------------|
| 1 st Meeting | 09-08-2010 | - | - | |
| 2 nd Meeting | - | 24-02-12 | - | - |
| 3 rd Meeting | - | 30-08-12 | - | - |
| 4 th Meeting | | 25-03-13 | - | - |
| 5 th Meeting | - | - | 25-07-2013 | - |
| 6 th Meeting | - | - | 07-12-2013 | - |
| 7 th Meeting | - | - | 20-01-2014 | - |
| 8 th Meeting | - | - | - | 12-06-2014 |
| 9 th Meeting | - | - | - | 18-10-2014 |
| 10 th Meeting | - | - | - | 21-01-2015 |
| 11 th Meeting | - | - | - | 26-03-2015 |
| 12 th | | | | |
| 13 th | | | | 04-12-2015 |

2.6.2 College Academic Council (CAC):

CAC reviews and approves the proposals related to academic activities, Academic Plan and Implementation of Institutional reforms. Principal is the Chairman of College Academic Committee and all the professors of the institution are the members of CAC.

The following are the dates of CAC meetings:

15-05-2014
10-07-2014
16-09-2014
18-11-2014
27-02-2015
24-04-2015

2.7 Recurring expenditure/IRG Generated:

| Sl. No | Description/ Component | | Base line (2010-11) (as per IDP) | 2011-12 | 2012-13 | 2013-14 | 2014-15 |
|--------|------------------------|---------------|----------------------------------|-------------|---------------|--------------|---------------|
| 1 | Recurring Expenditure | | 473.79 | 695 Lakhs | 749 Lakhs | 824 Lakhs | 861.00 Lakhs |
| 2 | IRG particulars | Tuition Fee | 724.00 | 613.65 | 1353.23 | 1423.1 Lakhs | 1694.40 Lakhs |
| | | Consultancies | 165.86 | 140.00 | 105.00 | 143.0 Lakhs | 263.25 Lakhs |
| | | others | -- | 84.65 | 122.75 | 135.0 Lakhs | 421.15 Lakhs |
| | Total | | 889.86 Lakhs | 838.3 Lakhs | 1580.98 lakhs | 1701.1 Lakhs | 2378.80 Lakhs |

2.8 Status of Four Funds:

| | 31.03.2013 | 31.03.2014 | 24.06.2015 |
|----------------------------|------------|------------|------------|
| Corpus Fund | 68.049 | 70.7 | 78.04615 |
| Faculty Development Fund | 12.02107 | 12.82 | 14.10077 |
| Equipment Replacement Fund | 12.02107 | 12.82 | 14.10077 |
| Maintenance Fund | 12.02107 | 12.82 | 14.10077 |

2.9 Action plan From April 2015 to October 2016

- a. Enhancement of Industry collaborations and R&D Activities.
- b. Developing research interest among undergraduate students.
- c. Organizing Finishing schools.
- d. Organising and Encouraging faculty to attend capacity development programmes
- e. Establishing 24X7 centralized computer centre for enhancing research facilities

a. Enhancement of Industry collaborations and R&D Activities

Each department of the college has a good number of doctorates. With a strategic goal to enhance the research competencies in the identified thrust areas and increase in Ph.D enrollment, the college proposes to enhance its collaborations with R& D Institutes, Research funding and increase the publications in refereed national and International Journals. The College has devised specific action plan to increase the Industry Institute Interaction for collaborative programs. It is proposed to organize monthly speaker series in 4 -5 key areas identified from the Industry. The College proposes to significantly enhance the Industry Institute interactions. The Detailed action Plan is as follows.

Action plan:

- **To Establish Centralized computer centre**
- To organize **monthly speaker series** for each of 4-5 key areas identified.
- To establish **Interdisciplinary student teams** in consultation with industry mentors with a faculty advisor assigned to each team.
- To establish **Industry liaison cell** with student, faculty representatives to work with industry to identify need based courses.
- Industry specific **research projects** to be identified & proactively using market needs and student/faculty competencies and their ability to solve industry specific engineering challenges.
- Strengthen **Entrepreneurship cell** with focus on boot camps, periodic seminar on technology transfers, industry trends, establishing linkages to other student communities
- To plan and execute industry/cross **institutional day**
- Student faculty **interaction** seminar.
- Establish **continuing education** cell , develop and deliver industry specific short term courses (1-3 days) in consultation with the industry
- Planned for two week long **finish school** program with local industry experts being part of delivery faculty & create an incentive for the industry to participate in the Governance Body

Expected Outcomes: The expected outcomes of the Industry Institute Interaction are

- Funding for Research Projects
- Translation of Ideas to Products
- Strengthen Students Internships
- Research Fellowships

- Technology Incubation
- Commercialization of Research Outcome

b. Developing Research interest among undergraduate students : Action plan for Developing Research interest among undergraduate students is given below

Establishing Innovation Centre: College wide Challenge of Innovative UG Research is proposed with the establishment of Innovation **Centre** in Collaboration with industries to translate ideas to products. Academic reforms to work on credit based course in Innovation Lab is also proposed to be placed before BoS.

Collaborating with Indian and foreign institutions in through MoUs

Joint Supervision: To jointly supervise PG thesis work and Ph.D with all the MoU foreign Institutes. MoU has been entered with BTH, Sweden. Collaborations are being worked with other Universities, namely Cork Institute of Technology, Ireland, University of West Minster, London.

Industry Collaboration: It is proposed that through interactions by way of monthly speaker series and Industrial Visits the problems of the Industry would be identified and MoU for joint research in 4 -5 key areas identifies shall be taken up.

Joint Publications with networked Research and Academic Institutes. Several part time scholars of the college are working with co supervision from Industry and other academic Institutes/ Colleges. Interdisciplinary Research would be enhanced through these collaborations.

Expected Outcomes: The proposal is expected to significantly

- increase the publications by the faculty
- Understand and Research on the Problems of the Industry
- Secure Research Projects
- Apply for patents

- Commercialize the research results to translate the benefits of the research to products of relevance.

c. Organizing Finishing schools

The College is organizing Finishing School with an aim to provide the necessary employability skills to the students through its Training and Placement Cell. The College is conducting Finishing School on regular basis by identifying the Skill gap both domain and Softskills. The academically weak students are identified by their performance in the semester examinations and pre-assessment test to identify the needs of the students and design course content of the Finishing Schools and Remedial Classes. This is expected to increase the placement ratio and average salary increase of the students of both UG and P. G.

Objectives

- To bridge any gap between the subjects studied and the industry needs and provide industry ready graduates.
- To supplement the technical Skills with the necessary Soft Skills to succeed in securing employment and improve personality and code of ethics.
- To increase the employability percentage of the students.

Action Plan for Finishing School:

- Conduct pre-assessment test to analyse, technical Competency, behavioral Skills, Analytical Skills and capability to adjust to working environment.
- Offer Specialized Programmes with the experts from Industry of the relevant area to match their needs on part-time basis or during vacation.
- Organize Campus Placement in the areas where the Skills developed can be utilized thereby enhancing the percentage of campus placement.

d. Organising and Encouraging faculty to attend capacity development programmes

Action plan for Capacity building training is prepared for all the faculty members from various departments having administrative responsibility for the effective institutional management.

Action Plan: For the below mentioned programs teaching and non teaching faculty from various departments will be deputed in the phased manner for attending these programs based on the training need analysis.

It is also proposed to organise some of the capacity development programs in collaboration with ESCI, The Institution of Engineers India.

The following programs are identified under capacity building organised by ESCI, The Institution of Engineers India

- Pedagogical Training for Engineering Faculties.
- Formulation of Research & Development Initiatives by Technical Institution.
- Personality Development for Non Teaching Staff.
- Nurturing Young Talents and grooming them to become Industry Fit and Fair candidate.
- Managerial Effectiveness Enhancement Program for Non-Teaching and Administrative Staff.
- General Management Program for Teaching Staff.
- Faculty Development Programme on Preparing Engineering Institution for Academic Autonomy.
- Entrepreneurship Development.

e. Establishing 24X7 centralized computer centre for enhancing research facilities

To organize the finishing schools, Campus Placements, to enhance the collaborative Research and to have better interactions with industrial organizations with a large group of students from different disciplines, it is proposed to establish a Centralized Computer Centre with 200 desktop systems.

Note: Additional funding is required for establishing 24X7 centralized computer centre. Details & justification is given in **Annexure - I**

2.10 Action plan to ensure that the project activities would be sustained after the end of the Project

The total cost of implementing the set of activities proposed over a period of 4 years amounts to Rs. 12.5 crores, of which about 3% is allocated to construction, 35% to equipment and 20% to fellowships. The Action Plan for sustenance of the activities is as follows:

- The College has established four funds namely *Corpus fund, Staff development fund, Equipment replacement fund and Maintenance fund.*

- The Internal Revenue Generation (IRG) of the College which amounts to Rs. 724 Lakhs is distributed to four funds in the ratio of 10% for Corpus fund, 20% for Staff Development fund, 20% for Equipment replacement fund, 10% for Maintenance fund, 20% for University Development fund and 20% for College Development fund.
- The present IRG of the College is expected to be stepped up by 200% by the end of four year period.
- Tailor made Industry supported PG Courses and Executive Development Programs which are short term with flexible timing would be explored.
- Certification Programs typically in power sector, Civil, Mechanical and Communication Technologies etc. to generate revenue.
- The recurring cost load on the institution has been carefully designed to be sustainable, as follows: staff salaries for the new courses will be covered by the fees; with increased research capacity, Ph.D. fellowships and other research costs included in the project will be covered by research grants from government and industry;
- Other staff specifically hired only for project period for implementation and monitoring the project.
- It is projected that the college will increase the share of its budget generated through fees, consultancies and interest on funds to sustain the activities after the project period.

2.11 Details of Additional fund requirements

Total additional funding required

| S. No. | Item | Additional Fund Required in Rs. |
|--------------|--|---------------------------------|
| 1 | Establishing 24X7 Centralized Computer centre | 1, 15, 00, 000/- |
| 2 | Modernization & establishment of laboratories under Procurement | 1, 10, 00, 000/- |
| 3 | Additional funding for Teaching Assistant ships for PG and PhD scholars and R&D, III, Reforms, FSD, Capacity Development and Student Support | 2, 25, 00,000/- |
| 4 | Incremental Operating Cost | 50,00,000/- |
| Total | | 5,00,00,000/- |

Action plan for additional funding

| Sl. NO. | Activities | Amount(Lakhs) |
|---------|------------------------------------|---------------|
| 1 | Procurement | 225 |
| 2 | Assistantships | 100 |
| 3 | R & D | 25 |
| 4 | FSD | 50 |
| 5 | Industry Institute Interactions | 25 |
| 6 | Capacity development | 10 |
| 7 | Reforms | 5 |
| 8 | Academic support for weak students | 10 |
| 9 | IOC | 50 |
| Total | | 500 |

Additional funding required for the following items

- Establishing 24X7 Centralized Computer centre
- Modernization & Establishment of laboratories
- Additional funding for Teaching Assistant ships for PG and PhD scholars and R&D, III, Reforms, FSD, Capacity Development ,Student Support
- Incremental Operating Cost

- a. **Establishing 24X7 Centralized Computer centre:** It is proposed to establish 24 X 7 computer centre with 200 desktop systems.

Justification

To organize the finishing schools, Campus Placements, to enhance the collaborative Research and to have better interactions with industrial organizations with a large group of students from different disciplines, it is proposed to establish a Centralized Computer Centre with 200 desktop systems.

- b. **Modernization & Establishment of laboratories under Procurement:** Proposal are received from various departments for the purchase of new equipment and for establishment of laboratories for an amount of Rs. 1, 10, 00, 000/- which could not be procured with the present allocated funding for procurement. Hence it is requested to provide additional funding of Rs. 1, 10, 00, 000/- for the purpose of modernization and establishment of new laboratories

- c. **Additional funding for Teaching Assistant ships for PG and PhD scholars and R&D, III, Reforms, FSD, Capacity Development ,Student Support**

Justification

Two PG courses namely M.Tech Computer Science & Informational Engineering & M.Tech Design Engineering are initiated in CSE & Mechanical Engg. Departments respectively under TEQIP-II. Due to shortage of funds under teaching assistantship head, the teaching assistantship could not be extended to the students admitted in the courses sanctioned under TEQIP-II during A.Y. 2014-15 and to the students admitted in I year I semester of academic year 2014-15 of other specializations. Students of all the specializations (including students of courses sanctioned under TEQIP-II) have requested for payment of assistantship amount.

Fellowship for PhD scholars

In the academic year 2012-13 seven full time Ph.D. scholars were admitted and in the academic year 2013-2014 17 full time scholars (11 scholars under TEQIP-II and 06 scholars under CoE) are admitted. Under this scheme we are paying the fellowship of Rs.14, 000/- + HRA as stipend for a period of three years.

Full time Research scholars under TEQIP-II have made an appeal to enhance their stipend as per the revised orders of the Dept. of Science & Technology, Ministry of Science & Technology, Govt. of India, Memo. No SR/S9/Z-09/2012 Dated 21.10.2014.

- To improve Research and Development (R and D) activities and Industry Institute Interaction (III),
- To encourage faculty members to organize various National & International Conferences, Workshops and Faculty Staff Development Programs
- To encourage faculty members to attend various national and international conferences and workshops, Capacity Development and Faculty Staff Development Programs at various reputed organizations
- To introduce special reforms like implementation of choice based credit system (CBCS) and Outcome based education system (OBE) by revising the curriculum
- To organize Remedial classes, finishing schools and guest lectures on latest technologies