

## PERFORMANCE AUDIT FORMS (FINAL ROUND under TEQIP-II)

### INSTITUTIONAL PERFORMANCE PROFILE

NAME OF PERFORMANCE AUDITOR: **Dr. Sounak Kumar Choudhury**

DATES OF PERFORMANCE AUDIT: 19 – 21, August 2016

NAME OF INSTITUTION WITH LOCATION: Gokaraju Rangaraju Institute of Engineering and Technology, Bachupally, Hyderabad, Telangana – 500090, India.

PIP REF	INSTITUTIONAL PERFORMANCE PROFILE	OVERALL EVALUATION GRADES
<b>COMPONENT 1: IMPROVING THE QUALITY OF EDUCATION IN SELECTED INSTITUTIONS</b>		
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INSTITUTIONAL PERFORMANCE PROFILE GRADES AND GRADE DESCRIPTORS	
1.	<b>Substantial evidence of good practice</b> in the quality and standards achieved (Assessment identifies clear supporting evidence for at least 75% of the relevant practices.)
2.	<b>Some evidence of good practice</b> in the quality and standards achieved (Assessment identifies clear supporting evidence for at least 50% of the relevant practices.)
3.	<b>Not in place</b> (there may be one of the three primary reasons for this: a) no evidence can be found, b) there is evidence, but it is not of acceptable quality, or c) that there are plans for development but these have not yet taken place – in which case the auditor can indicate the expected date of completion/implementation but the grade should remain 3.)

**NOTE: Supporting evidence: The grade descriptors have two elements: one relating to the amount of the evidence (none, some or substantial); and one relating to the quality of the practice about which the evidence is gathered (is it good quality, or not?). So, for example, a grade of 1 means both that the evidence is good quality and that there is a substantial amount to demonstrate that it is of good quality (75% or more for the practices found).**

**PERFORMANCE AUDIT FORM (1.1)**  
**COMPONENT 1: IMPROVING QUALITY OF EDUCATION IN SELECTED INSTITUTIONS**

NAME OF PERFORMANCE AUDITOR: **Dr. Sounak Kumar Choudhury**

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NAME OF INSTITUTION WITH LOCATION: Gokaraju Rangaraju Institute of Engineering and Technology  
 Bachupally, Hyderabad, Telangana – 500090, India.

**1.1: STRENGTHENING INSTITUTIONS TO IMPROVE LEARNING OUTCOMES AND EMPLOYABILITY OF GRADUATES**

MONITORING AND PROJECT OUTPUT/OUTCOME PARAMETERS	SUPPORTING EVIDENCE (NOTE: GRADES MUST BE SUPPORTED BY SOUND EVIDENCE OF ACHIEVEMENT OF THE INSTITUTIONAL DEVELOPMENT PROPOSAL GOALS AND TARGETS)
<p><b>A. Effectiveness of funds utilized for the teaching, training, learning and research equipment, library, computers, etc. by Institutions, including:</b></p> <ul style="list-style-type: none"> <li>▪ Increase in the satisfaction index of student and faculty</li> </ul>	<p>Funds have been effectively used by the Institute for implementing various academic reforms and curriculum changes as follows:</p> <ul style="list-style-type: none"> <li>• Procured 8 subject domain software for design, development, and solving large scale engineering problems.</li> <li>• Established 2 QEEE (e-Class rooms) classrooms for the effective use of ICT in education. Actively participating on-line in all the phases of QEEE courses conducted by IIT Madras. Also participating in various ICT based programmes like Blended-MOOCs courses for UG students, “Train 10 Thousand Teachers (T10kT)” for faculty and Spoken tutorials programmes conducted by IIT Bombay under the umbrella of National Mission of Education through Information Communication Technology (NMEICT).</li> <li>• Subscribes for IEEE and Elsevier journals to know the technological innovation and excellence.</li> <li>• 234 faculty members attended training in subject domain to improve subject domain competency</li> <li>• 55 faculty members attended management development training to enhance the Personal Attributes and Managerial Abilities.</li> <li>• 135 faculty members attended training and adopted to use Modern Teaching Learning Methods</li> <li>• 61.54% of the eligible UG &amp; PG programmes got NBA accreditation</li> <li>• Student’s transition rate (percentage) from first year to second year of UG programs increased to</li> </ul>

MONITORING AND PROJECT OUTPUT/OUTCOME PARAMETERS	SUPPORTING EVIDENCE (NOTE: GRADES MUST BE SUPPORTED BY SOUND EVIDENCE OF ACHIEVEMENT OF THE INSTITUTIONAL DEVELOPMENT PROPOSAL GOALS AND TARGETS)
	<p>66.38%.</p> <ul style="list-style-type: none"> <li>• Established Finishing School and conducted remedial classes for academically weak Students benefitting about 200 students per year.</li> <li>• TEQIP teaching assistantship of Rs. 8000 per student per month for 52 Master Students has increased the quality of intake.</li> <li>• 14.24% Percentage of regular faculty with Ph.D. degree in engineering against total engineering faculty has added to the research potential of the institute.</li> <li>• 46 short term programs during the last five years conducted with industry created better orientation of academic programmes towards industry.</li> <li>• 7 patents filed and 1 obtained.</li> <li>• 11 faculty attended International conferences abroad and presented their research work, funding being provided from the TEQIP fund.</li> <li>• Students and Faculty community as a whole are quite satisfied with the performance of the Institute</li> </ul> <p><i>Supporting Evidence: Interaction with about 200 randomly picked UG &amp; PG students and Faculty; Visits to the departments, laboratories and library; Verification of recorded evidences like stock registers, student feedback process, and result analysis, etc.</i></p>
<p><b>B. Obtaining Academic Autonomy status, including:</b></p> <ul style="list-style-type: none"> <li>▪ <b>Number of institutions that have obtained 'Autonomous Institution status' as per University Grants Commission process within 2 years of joining the Project.</b></li> </ul>	<p>UGC conferred autonomous status for 6 years with effect from the academic year 2014 – 2015.</p> <p><i>Supporting Evidence: UGC letter no: 22-1/2014(AC) dated 05 Feb 2014 by</i></p>
<ul style="list-style-type: none"> <li>▪ Effectiveness of utilization of academic autonomy possessed/ obtained (See Table-26 in PIP)</li> </ul>	<p>The Academic Autonomy is being very effectively used by Institute for implementing various academic reforms and curriculum revision.</p> <ul style="list-style-type: none"> <li>• A change in the Syllabus up to 20% has been made as per market demand based on the recommendations of BoS as autonomous regulations w.e.f. 2011-12. Revisions of syllabus have</li> </ul>

**MONITORING AND PROJECT  
OUTPUT/OUTCOME PARAMETERS**

**SUPPORTING EVIDENCE**

(NOTE: GRADES MUST BE SUPPORTED BY SOUND EVIDENCE OF ACHIEVEMENT OF THE INSTITUTIONAL DEVELOPMENT PROPOSAL GOALS AND TARGETS)

been made in 2011, 2014 and 2015.

- Board of Studies (BoS) in each Department has experts from Industry and from reputed Institutions that offers revision in the syllabus which is approved by the Academic Council consisting of 24 members including HODs, three JNTU nominees, two experts each from industry and academia. The revised syllabus is finally approved by the Board of Governors (BOG).
- The undergraduate programme has been restructured by adding one practical course and reducing one theoretical course to strengthen the practical skills.
- Mini project offered during III year II semester is converted as lab for improving practical skills.
- Introduced courses on Ethics and Human Values and Environmental Science as Mandatory courses for all UG programmes as additional zero credit courses.
- Choice Based Credit System (CBCS) is introduced from 2015 (GR15 regulations) onwards. As per CBCS, the student is allowed to take courses of his interest in the current semester or next semester.
- Introduced course on Gender Sensitization for all UG programmes considered as a mandatory additional zero credit course.
- 100% exposure for all ECE students at I year on Android/ Soldering practice.
- ADVANCED ACADEMIC CENTER (AAC) was started for bright students admitted in Ist year B.Tech to inculcate inter-disciplinary Research at GRIET.
- Workshops on Microcontrollers, DSP, Robotics, Data Analytics, Business Intelligence, IOT are conducted regularly by the Faculty and Senior Students of the Institute for the 2<sup>nd</sup> year B.Tech onwards.
- Oracle Certified Java Program (OCJP), Oracle Certified Associate (OCA), Cisco Certified Network Associate (CCNA), AutoCAD, Pro-E, Certified LabVIEW Associate Developer (CLAD) and IBM Big Data Analytics certification courses are offered as part of Co-curricular activities to make students industry ready.
- Launched IBM Business Analytics Lab in association with IBM Pvt. Ltd. and NI LabView Academy with National Instruments from the academic year 2015-16.

MONITORING AND PROJECT OUTPUT/OUTCOME PARAMETERS	SUPPORTING EVIDENCE (NOTE: GRADES MUST BE SUPPORTED BY SOUND EVIDENCE OF ACHIEVEMENT OF THE INSTITUTIONAL DEVELOPMENT PROPOSAL GOALS AND TARGETS)
	<ul style="list-style-type: none"> <li>• Introduced “Business Intelligence” course in B. Tech IV year I Semester CSE and IT programmes, “Essentials of Big Data and Analytics” course in B. Tech IV year II Semester CSE and IT programmes, and “Big Data and Analytics” course in M. Tech I year II Semester Computer Science Engineering and Software Engineering programmes from GR14 Regulations onwards.</li> <li>• IIT Bombay has recognized GRIET as one of its Remote Center to conduct “Talk to 10k Teachers” program to train faculty both in pedagogy and subject domain as part of NMEICT program initiated by MHRD, Government of India. We are also participating in the “Spoken Tutorials” program for students conducted by IIT Bombay to increase the thrust in ICT usage in Technical education</li> <li>• Participating in Quality Enhancement in Engineering Education (QEEE) program sponsored by MHRD, Government of INDIA through IIT – Madras to improve the quality of education delivered to students by making available high quality pedagogical resources to all students through technology – Direct to Student Program and empowering teachers/educators.</li> <li>• Around 40 UG students participate in Technology Entrepreneurship Programme (TEP) initiated by TELANGANA ACADEMY OF SKILL AND KNOWLEDGE (TASK), and organised by INDIAN SCHOOL OF BUSINESS (ISB) to promote technology entrepreneurship as a viable career option and nurture the culture of entrepreneurship among the students. 50% of the fees of Rs. 8000 is paid by the TEQIP, the rest being paid by the concerned student.</li> <li>• Initiated Academic Interface programme with Tata Consultancy Services Limited from 2015.</li> </ul> <p><i>Supporting Evidence: Interactions with Dean Academic Affairs and Dean of Examinations. Verification of Academic Council Minutes of Meetings and Board of Studies recommendations.</i></p>
<p><b>C. Effort made by Institutions for upgrading qualifications of faculty members, including:</b></p> <ul style="list-style-type: none"> <li>▪ Percentage of faculty enrolled in MTech and PhD</li> </ul>	<p>Faculty members are encouraged to improve their academic qualifications,</p> <ul style="list-style-type: none"> <li>• Monetary incentives in terms of fees and reduced working load (where required) are provided to the faculty enrolled in M.Tech. or Ph.D. programs.</li> <li>• Financial incentives and rapid career growth opportunities are provided as the means to encourage the faculty to do more research and publish their findings in journals of repute as well as to obtain patents for innovative and original ideas.</li> </ul>

MONITORING AND PROJECT OUTPUT/OUTCOME PARAMETERS	SUPPORTING EVIDENCE (NOTE: GRADES MUST BE SUPPORTED BY SOUND EVIDENCE OF ACHIEVEMENT OF THE INSTITUTIONAL DEVELOPMENT PROPOSAL GOALS AND TARGETS)	
	<ul style="list-style-type: none"> <li>As the minimum qualification for faculty recruitment has become M.Tech., there were no faculty registered for M.Tech.</li> <li>14.66% of Faculty with M.Tech. has enrolled for Ph.D. in engineering against total M.Tech. faculty.</li> </ul> <p><i>Supporting Evidence: Number of faculty registered for Ph.D, is verified by interacting with Faculty members and Dean Faculty development. Random verification of admission letters of faculty pursuing Ph.D.</i></p>	
<p><b>D. Existing teaching and staff vacancies and effort made by Institutions for filling the vacancies, including:</b></p> <ul style="list-style-type: none"> <li>Percentage of faculty and staff positions filled and vacant</li> </ul>	<p>Recruitment is done as and when it is required as per JNTUH norms.</p> <ul style="list-style-type: none"> <li>Present Faculty and staff positions meets the stipulated norms as per AICTE regulations, so no vacancies exist as such. Current Teacher-student ratio is 1:12</li> </ul> <p><i>Supporting Evidence: Verification of selection committee records and interaction with the Principal.</i></p>	
<ul style="list-style-type: none"> <li><b>Increase in faculty appointed on regular basis</b></li> </ul>	<p>100% faculty appointment is exercised on regular basis.</p> <p><i>Supporting Evidence: Verification of selection committee records and interaction with Principal.</i></p>	
<p><b>E. Effectiveness of equity at Institutional level, including:</b></p> <ul style="list-style-type: none"> <li>Transition rate of students from the First to the Second year in Undergraduate programmes</li> </ul>	<p>Transition rate of students from the First to the Second year in Undergraduate programmes:</p> <ul style="list-style-type: none"> <li>Overall – 65%</li> <li>Women Students – 79.4%</li> <li>SC students – 64.2%</li> <li>ST students – 26%</li> <li>OBC Students – 83%</li> </ul> <p><i>Supporting Evidence: Interaction with Vice- Principal, offer letters from placement cell and verification of result analysis.</i></p>	
<b>OVERALL EVALUATION GRADE FOR 1.1</b> USING THE 3-POINT GRADING SCALE AND GRADE DESCRIPTORS IN ANNEX 4(1)		<b>1</b>

**PERFORMANCE AUDIT FORM (1.2)**  
**COMPONENT 1: IMPROVING QUALITY OF EDUCATION IN SELECTED INSTITUTIONS**

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**1.2: SCALING-UP POSTGRADUATE EDUCATION AND DEMAND-DRIVEN RESEARCH & DEVELOPMENT AND INNOVATION**

MONITORING AND PROJECT OUTPUT/OUTCOME PARAMENTERS	SUPPORTING EVIDENCE (NOTE: GRADES MUST BE SUPPORTED BY SOUND EVIDENCE OF ACHIEVEMENT OF THE INSTITUTIONAL DEVELOPMENT PROPOSAL GOALS AND TARGETS)
<p><b>A. Effectiveness of funds utilised for the teaching, training, learning and research equipment, library, computers, etc. by the institutions, including:</b></p> <ul style="list-style-type: none"> <li>▪ Increase in the satisfaction index of student and faculty</li> </ul>	<p>Funds have been effectively used by Institute for scaling up PG education and demand-driven R&amp;D. Details are as follows:</p> <ul style="list-style-type: none"> <li>• Procured 8 subject domain software to design, develop, and solve large scale engineering problems.</li> <li>• Established 2 QEEE (e-Class rooms) classrooms for the effective use of ICT in education. Actively participating in all the phases of QEEE courses conducted by IIT Madras. Participating in various ICT based programmes likes Blended-MOOCs courses for UG and PG students.</li> <li>• Subscribes for IEEE and Elsevier journals to get familiar with the technological innovation and excellence.</li> <li>• 61.54% of the eligible UG &amp; PG programmes got NBA accreditation</li> <li>• TEQIP teaching assistantship for 52 Masters Students has increased the quality of intake.</li> <li>• 46 short term programs conducted with industry created better orientation of academic programmes towards industry.</li> </ul> <p><i>Supporting Evidence: Interaction with about 200 randomly picked UG &amp; PG students</i></p>

	<p><i>and Faculty. Visits to the departments, laboratories and library. Verification of recorded evidences like stock registers, student feedback process, and result analysis, etc.</i></p>
<p><b>B. Effectiveness of scaling-up Postgraduate Technical Education, including:</b></p> <ul style="list-style-type: none"> <li>▪ Increased enrolment for MTech and PhD</li> </ul>	<p>Institute is striving to scale-up post-graduate education by increasing the number of PG programmes and to get more research centers for Ph.D admissions.</p> <ul style="list-style-type: none"> <li>• JNTUH has recognized 3 departments (EEE, ME and Mathematics) as research centers for Ph.D. admissions, but not yet cleared the admission policy.</li> <li>• Number of enrollments in M.Tech. programmes is increased by introducing 3 New PG programmes “Thermal Engineering”, “Power Systems” and “Structural Engineering” with 18 seats in each of the programme and enhancing the number of seats from 18 to 24 in existing “Computer Science Engineering” programme.</li> </ul> <p><i>Supporting Evidence: Interaction with Dean Admissions and verification of admission documents from administrative office.</i></p>
<ul style="list-style-type: none"> <li>▪ Establishment of proposed laboratories</li> </ul>	<p>After being inducted into the TEQIP-II program, Institute has newly established 5 laboratories “Computational Methods lab” in Thermal Engineering PG programme, “Power System Simulation Lab” &amp; “Power System Lab” in Power Systems PG Programme, and “Advanced concrete lab” &amp; “Advanced CAD lab” in Structural Engineering PG Programme and upgraded the existing “Thermal Engineering lab” for Thermal Engineering PG programme. These laboratories were established with the institutional funds.</p> <p><i>Supporting Evidence: Visit to the newly established 5 laboratories and 1 upgraded laboratory. Verification of stock registers.</i></p>
<ul style="list-style-type: none"> <li>▪ Cumulative number of assistantships granted</li> </ul>	<p>Institute is trying to attract quality students by providing TEQIP-II teaching assistantships of Rs. 8000 per student per month.</p> <ul style="list-style-type: none"> <li>• A total of 52 teaching assistantships have been granted to M.Tech. students since the inception of the project.</li> <li>• These students are being paid a monthly stipend of Rs.8,000 equivalent to GATE scholarship.</li> <li>• Students are allotted with a workload of 10 hours per week.</li> </ul>



	<p><i>Supporting Evidence: Interaction with PG coordinator and PG students.</i></p>
<p><b>C. Progress/achievement in <u>starting new Postgraduate programmes, including:</u></b></p> <ul style="list-style-type: none"> <li>▪ Securing AICTE approval</li> </ul>	<p>After being inducted into the TEQIP-II program, Institute has introduced 3 New PG programmes : Thermal Engineering, Power Systems and Structural Engineering with 18 seats in each programme and enhanced number of seats to 24 in existing Computer Science Engineering.</p> <p><i>Supporting Evidence: Verification of AICTE sanction letters and lab visits</i></p>
<ul style="list-style-type: none"> <li>▪ Establishment of laboratories</li> </ul>	<p>After being inducted into the TEQIP-II program, Institute has newly established 5 laboratories “Computational Methods lab” in Thermal Engineering PG programme, “Power System Simulation Lab” &amp; “Power System Lab” in Power Systems PG Programme, and “Advanced concrete lab” &amp; “Advanced CAD lab” in Structural Engineering PG Programme and upgraded the existing “Thermal Engineering lab” for Thermal Engineering PG programme. These laboratories were established with the institutional funds.</p> <p><i>Supporting Evidence: Visit to the newly established 5 laboratories and 1 upgraded laboratory. Verification of stock registers.</i></p>
<ul style="list-style-type: none"> <li>▪ Adequacy of student enrolments</li> </ul>	<p>Though JNTUH allots PG seats as per PGECET examination, Institute is trying to attract quality students by providing TEQIP-II teaching assistantships and encouraging industry sponsored candidates.</p> <ul style="list-style-type: none"> <li>• Number of PG enrolments has increased from 88 to 107 during the project period.</li> <li>• Institute is unable to attract more number of PG students because of the fact that some Private Engineering colleges in the State are giving option to students of not attending classes and still getting the degree and many students are attracted to that easy option. This is happening even after offering TEQIP-II teaching assistantships.</li> <li>• Number of drop outs got reduced.</li> </ul> <p><i>Supporting Evidence: Interaction with PG coordinator and PG students. Interaction with Dean Admissions and verification of admission documents from administrative office.</i></p>

<p><b>D. Effectiveness of collaborations made with other Institutions in India and abroad, including</b></p> <ul style="list-style-type: none"> <li>• Increase in number of co-authored publications in refereed journals</li> </ul>	<p>Institute is constantly striving to improve collaborations with other institutions with in India and abroad.</p> <ul style="list-style-type: none"> <li>• Faculty published 441 technical papers in national and foreign refereed journals from the date of joining the Project.</li> <li>• Organized more than 8 International conferences since 2008 (ICACT, ICMID, ICACM, ICMPC, and ICCDMS) and attracted faculty with in India and abroad.</li> <li>• 11 Faculty Members attended International conferences abroad and published their research work.</li> <li>• 6th “International Conference on Materials Processing and Characterization” (ICMPC) organized by GRIET is being planned at Victoria University, Melbourne, Australia during 5- 7, December 2016 and proceedings to be published in Materials Today Journal of Elsevier.</li> <li>• The Institute publishes “International Journal of Advanced Materials Manufacturing and Characterization” in association with Elsevier publications, annually since 2012. This attracts research papers from National and International authors.</li> <li>• IIT Bombay has recognized GRIET as one of its Remote Center to conduct “Talk to 10k Teachers” program to train faculty both in pedagogy and subject domain as part of NMEICT program initiated by MHRD, Government of India. The Institute is also participating in the “Spoken Tutorials” program for students conducted by IIT Bombay to increase the thrust in ICT usage in Technical education</li> <li>• Participating in Quality Enhancement in Engineering Education (QEEE) program sponsored by MHRD, Government of INDIA through IIT – Madras to improve the quality of education delivered to students by making available high quality pedagogical resources to all students through technology – Direct to Student Program and empowering teachers/educators.</li> <li>• Academically collaborated with IIT Hyderabad as knowledge Incubation center to enhance research and education quality.</li> <li>• As part of TEQIP-II 55 faculty members attended management development training at various IIM’s and ISB to enhance the Personal Attributes and Managerial Abilities.</li> </ul>
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	<ul style="list-style-type: none"> <li>234 faculty members attended training in subject domain in various IITs, NITs and Universities to improve subject domain competency.</li> </ul> <p><i>Supporting Evidence: Interaction with Faculty. Verification of publications and MOUs with other institutions.</i></p>
<p><b>E. Increased collaboration with industry in research and development, including:</b></p> <ul style="list-style-type: none"> <li>Increase in number of joint and industry sponsored research and development work undertaken</li> </ul>	NIL
<ul style="list-style-type: none"> <li>Increase in financial contribution by industry for R &amp; D</li> </ul>	NIL
<ul style="list-style-type: none"> <li>Increase in industry personnel registered for Masters and Doctoral programmes</li> </ul>	NIL
<ul style="list-style-type: none"> <li>Increase in industry personnel trained by the institution in knowledge and/or skill areas</li> </ul>	<p>GRIET in association with Gokaraju Rangaraju College of Pharmacy (GRCP) is conducting skill development courses for the employees of Dr. Reddy's laboratories Ltd. Hyderabad</p> <p><i>Supporting Evidence: MoU with Dr. Reddy's laboratories ltd. Hyderabad</i></p>
<ul style="list-style-type: none"> <li>Increase in the number of consultancy assignments secured</li> </ul>	NIL
<ul style="list-style-type: none"> <li>Increase in the number of students' and faculty visits to and/or training in industry</li> </ul>	<p>Industrial visits or internships are not part of curriculum. Few PG students visit industry on their own initiative with the permission of the Institute.</p> <p><i>Supporting Evidence: Interaction with students and faculty. Verification of industry visit reports and invitations.</i></p>
<ul style="list-style-type: none"> <li>Improvements in graduate placement rate</li> </ul>	<p>Placement rate for the PG students has increased from 7.14% for the A.Y. 2010-11 to 13.79% for the A.Y. 2015-16 (which is still continuing).</p> <p><i>Supporting Evidence: Interaction with Dean Placements. Verification of randomly selected appointment orders of graduate students</i></p>

<ul style="list-style-type: none"> <li>• Increase in involvement of industry experts in curricula &amp; syllabi improvements, laboratory improvements, evaluation of students and delivering expert lectures</li> </ul>	<ul style="list-style-type: none"> <li>• Board of Studies of each department consists of one member from Industry.</li> <li>• Academic council consists of two members from Industry, and</li> <li>• One Industry member in Board of Governors.</li> <li>• Industry experts are involved in all the meetings conducted by BoS, Academic council, and BOG for the revision of curricula and suggest Industry expectations.</li> <li>• For some courses in Bio-Medical and Bio-Technology, industry experts are invited to evaluate the final year projects.</li> </ul> <p><i>Supporting Evidence: Verification of MoM's of BoS, Academic Council, and BoG.</i></p>
<ul style="list-style-type: none"> <li>• Increase in the number of sandwich programmes between industries and the institution.</li> </ul>	NIL
<p><b>F. Increase in percentage of revenue from externally funded research and development projects and consultancies as a percentage of the total revenue of the institution from all sources</b></p>	<ul style="list-style-type: none"> <li>• Institute has total Research grants to the tune of Rs.453.93 lacs from various Government agencies like DST, DRDO, AICTE, UGC, AR&amp;DB, BRNS &amp; MSME, etc since from inception.</li> <li>• Percentage revenue from externally funded R&amp;D projects and consultancies in total revenue has increased from 1.74% in base line i.e., 2010-11 to 2.05% by the end of project i.e., 2015-16.</li> </ul> <p><i>Supporting Evidence: Verification of project sanction letters and repots.</i></p>
<p><b>G. Increase in the number of publications in refereed journals</b></p>	<ul style="list-style-type: none"> <li>• Number of overall research publications in Indian refereed journals is increased from 8 in the A.Y. 2009-10 to 38 till the A.Y. 2015-16.</li> <li>• Number of research publications by the PG students along with the Faculty Members in International refereed journals is increased from 21 in the year 2009-10 to 154 till the A.Y. 2014-15.</li> </ul> <p><i>Supporting Evidence: Interaction with faculty and students. Verification of randomly selected publications.</i></p>
<p><b>H. Increase in the number of patents filed</b></p>	<p>NIL. No PG student is involved in the filing of patents.</p> <p><i>Supporting Evidence: Verification of Patent applications.</i></p>
<p><b>OVERALL EVALUATION GRADE FOR 1.2</b></p> <p>USING THE 3-POINT GRADING SCALE AND GRADE DESCRIPTORS IN ANNEX 4(1)</p>	

**PERFORMANCE AUDIT FORM (1.2.1)**  
**COMPONENT 1: IMPROVING QUALITY OF EDUCATION IN SELECTED INSTITUTIONS**

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**1.2.1 ESTABLISHING CENTRES OF EXCELLENCE**

MONITORING AND PROJECT OUTPUT/OUTCOME PARAMENTERS	SUPPORTING EVIDENCE (NOTE: GRADES MUST BE SUPPORTED BY SOUND EVIDENCE OF ACHIEVEMENT OF THE INSTITUTIONAL DEVELOPMENT PROPOSAL GOALS AND TARGETS)
<b>A. Establishing Centres of Excellence</b> Improvement in Research and Development facilities through: <ul style="list-style-type: none"> <li>▪ Establishment of new laboratories for applicable thematic research</li> </ul>	As it is, the Institute has not identified or established any centre of excellence. However, research and development facilities have been improved through the establishment of the following: <ul style="list-style-type: none"> <li>• Established of LabVIEW Academy in association with National Instruments Pvt. Ltd.</li> <li>• Established of IBM Business Analytics Lab in association with IBM Pvt. Ltd.</li> </ul> <p><i>Supporting Evidence: Verification of MOU's with National Instruments and IBM Pvt.Ltd. and Visit to LabVIEW Academy &amp; IBM Business Analytics Lab</i></p>
<ul style="list-style-type: none"> <li>▪ Establishment of a knowledge resource centre (library) in the thematic area</li> </ul>	NIL
<ul style="list-style-type: none"> <li>▪ Procurement of furniture</li> </ul>	<b>NIL /Not applicable</b>
<ul style="list-style-type: none"> <li>▪ Civil works</li> </ul>	<b>NIL /Not applicable</b>
<b>OVERALL EVALUATION GRADE FOR 1.2.1</b>	
USING THE 3-POINT GRADING SCALE AND GRADE DESCRIPTORS IN ANNEX 4(1)	
<b>3</b>	

**PERFORMANCE AUDIT FORM (1.3)**  
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DATES OF PERFORMANCE AUDIT: 19 – 21, August 2016

NAME OF INSTITUTION WITH LOCATION: Gokaraju Rangaraju Institute of Engineering and Technology  
 Bachupally, Hyderabad, Telangana – 500090, India.

**1.3: FACULTY DEVELOPMENT FOR EFFECTIVE TEACHING (PEDAGOGICAL TRAINING)**

<b>MONITORING AND PROJECT OUTPUT/OUTCOME PARAMENTERS</b>	<b>SUPPORTING EVIDENCE</b> (NOTE: GRADES MUST BE SUPPORTED BY SOUND EVIDENCE OF ACHIEVEMENT OF THE INSTITUTIONAL DEVELOPMENT PROPOSAL GOALS AND TARGETS)
<p><b>A. Effort made by Institutions providing Pedagogy Training to faculty, including:</b></p> <ul style="list-style-type: none"> <li>• Percentage of faculty who have benefitted from the core and advanced modules of pedagogy training</li> </ul>	<p>For improving the quality of education, several initiatives are put forth for technical and pedagogical training of the faculty and for actively encouraging them to improve their qualifications and research skills.</p> <ul style="list-style-type: none"> <li>• Seven Faculty Members were sent for Pedagogical training conducted by NITTR, Chandigarh during the last five years.</li> <li>• 46 Faculty Members have attended “Technical Communication” training program conducted by IIT Bombay from 8<sup>th</sup> Oct 2015 to 5<sup>th</sup> Dec 2015 at GRIET-IITB Remote centre.</li> <li>• 12 Faculty Members have attended “Pedagogy for effective use of ICT in Engineering Education” conducted by IIT Bombay from 5<sup>th</sup> Jan 2015 to 21st Jan 2015 at GRIET- IITB Remote centre.</li> <li>• 78 Faculty Members have attended “Use of ICT in education for online and blended learning” training program conducted by IIT Bombay from 02 May 2016 to 10 July 2016 at GRIET - IITB Remote centre.</li> </ul>

*Supporting Evidence: Interactions with the faculty attended Pedagogy trainings and verification of randomly selected faculty certificates.*

- Improvements in (and/or updating, and more relevant) curricula and /or syllabi

The Academic Autonomy is being very effectively used by Institute for implementing various academic reforms and curriculum revision.

- A change in the Syllabus up to 20% has been made as per market demand based on the recommendations of BoS as autonomous regulations w.e.f. 2011-12. Revisions of syllabus have been made in 2011, 2014 and 2015.
- Board of Studies (BoS) in each Department has experts from Industry and from reputed Institutions that offers revision in the syllabus which is approved by the Academic Council consisting of 24 members including HODs, three JNTU nominees, two experts each from industry and academia. The revised syllabus is finally approved by the Board of Governors (BOG).
- The undergraduate programme has been restructured by adding one practical course and reducing one theoretical course to strengthen the practical skills.
- Mini project offered during III year II semester is converted as lab for improving practical skills.
- Introduced courses on Ethics and Human Values and Environmental Science as Mandatory courses for all UG programmes as additional zero credit courses.
- Choice Based Credit System (CBCS) is introduced from 2015 (GR15 regulations) onwards. As per CBCS, the student is allowed to take courses of his interest in the current semester or next semester.
- Introduced course on Gender Sensitization for all UG programmes considered as a mandatory additional zero credit course.
- 100% exposure for all ECE students at I year on Android/ Soldering practice.
- ADVANCED ACADEMIC CENTER (AAC) was started for bright students admitted in Ist year B.Tech to inculcate inter-disciplinary Research at GRIET.
- Workshops on Microcontrollers, DSP, Robotics, Data Analytics, Business Intelligence, IOT are conducted regularly by the Faculty and Senior Students of the Institute for the 2<sup>nd</sup> year B.Tech onwards.
- Oracle Certified Java Program (OCJP), Oracle Certified Associate (OCA), Cisco

Certified Network Associate (CCNA), AutoCAD, Pro-E, Certified LabVIEW Associate Developer (CLAD) and IBM Big Data Analytics certification courses are offered as part of Co-curricular activities to make students industry ready.

- Launched IBM Business Analytics Lab in association with IBM Pvt. Ltd. and NI LabView Academy with National Instruments from the academic year 2015-16.
- Introduced “Business Intelligence” course in B. Tech IV year I Semester CSE and IT programmes, “Essentials of Big Data and Analytics” course in B. Tech IV year II Semester CSE and IT programmes, and “Big Data and Analytics” course in M. Tech I year II Semester Computer Science Engineering and Software Engineering programmes from GR14 Regulations onwards.
- IIT Bombay has recognized GRIET as one of its Remote Center to conduct “Talk to 10k Teachers” program to train faculty both in pedagogy and subject domain as part of NMEICT program initiated by MHRD, Government of India. We are also participating in the “Spoken Tutorials” program for students conducted by IIT Bombay to increase the thrust in ICT usage in Technical education
- Participating in Quality Enhancement in Engineering Education (QEEE) program sponsored by MHRD, Government of INDIA through IIT – Madras to improve the quality of education delivered to students by making available high quality pedagogical resources to all students through technology – Direct to Student Program and empowering teachers/educators.
- Around 40 UG students participate in Technology Entrepreneurship Programme (TEP) initiated by TELANGANA ACADEMY OF SKILL AND KNOWLEDGE (TASK), and organised by INDIAN SCHOOL OF BUSINESS (ISB) to promote technology entrepreneurship as a viable career option and nurture the culture of entrepreneurship among the students. 50% of the fees of Rs. 8000 is paid by the TEQIP, the rest being paid by the concerned student.
- Initiated Academic Interface programme with Tata Consultancy Services Limited from 2015.

*Supporting Evidence: Interactions with Dean Academic Affairs and Dean of Examinations. Verification of Academic Council Minutes of Meetings and Board of Studies recommendations.*



<ul style="list-style-type: none"> <li>• Improvements in (and/or updating, more relevant) course assessment methods</li> </ul>	<p>After attaining autonomous status, evaluation schemes are improved as per the regulations approved by the academic council.</p> <ul style="list-style-type: none"> <li>• Paper setting is done by experts from reputed institutions such as Autonomous Institutes, Universities, NITs and IITs.</li> <li>• Paper evaluation is exclusively done by external experts (from autonomous colleges within the city) for more transparency.</li> <li>• Entire Examination procedure is computerized and the software is developed wholly by GRIET faculty.</li> <li>• Introduced paper settings based on course outcomes as part of Outcome Based Education (OBE) system.</li> <li>• From GRIET 2014 (GR14) regulations, both short answer and descriptive answer questions are included in paper setting.</li> <li>• Evaluation for tutorials is also introduced for continuous evaluation.</li> <li>• Attainment of Course outcomes is done after final valuation.</li> </ul> <p><i>Supporting Evidence: Interaction with Dean of Examinations and verification of Academic Council minutes of meeting.</i></p>
<ul style="list-style-type: none"> <li>• Improvements in teaching and learning methods, including provision for students needing extra/remedial support</li> </ul>	<p>Student-friendly Teaching-Learning Practices oriented towards improving learning outcomes are implemented.</p> <ul style="list-style-type: none"> <li>• Teaching methodology has been made to be heavily biased towards practical work, by increasing the number of practical courses by one exceeding the norms of affiliating university after obtaining autonomy status.</li> <li>• Mini project offered during III year II semester is converted as lab for improving practical skills.</li> <li>• Availability of on-line learning resources like NPTEL provided to students to enhance their understanding of engineering courses.</li> <li>• Established 2 QEEE (e-Class rooms) classrooms for the effective use of ICT in education. Institute is actively participating in all the phases of QEEE courses conducted by IIT Madras. Also participating in various ICT based programmes like Blended-MOOCs courses for UG students, T10kT for faculty and Spoken tutorials</li> </ul>

	<p>programmes conducted by IIT Bombay.</p> <ul style="list-style-type: none"> <li>• Finishing school was established in Dec 2011 to focus on academically weak students and conducted remedial classes and specialized soft skills and professional skills training programs.</li> </ul> <p><b>Supporting Evidence:</b> <i>Interaction with Dean Finishing School, faculty and students. Visit to class rooms.</i></p>
<ul style="list-style-type: none"> <li>• Percentage of faculty with UG qualification registered/deputed for improving their qualification (<i>see Section-3, 4(b) on page 20 of PIP</i>)</li> </ul>	<p>As Master's degree has become the minimum qualification for faculty recruitment as per AICTE norms, there is no faculty member with Bachelor's degree qualification.</p>
<ul style="list-style-type: none"> <li>• Percentage of faculty deputed for subject domain training, seminars, etc. (<i>faculty are required to share their gains with peers and put reports on training on institution's web site</i>)</li> </ul>	<p>Individual subject domain needs of faculty are identified through TNA and sent 234 faculty (65%) to various IITs, NITs and Universities to improve competency in subject domain.</p> <p><b>Supporting Evidence:</b> <i>Interaction with Dean Faculty Development and Faculty. Verification of certificates of randomly selected faculty deputed for subject domain training, seminars, etc.</i></p>
<ul style="list-style-type: none"> <li>• Progress in securing accreditation of eligible UG &amp; PG programs (<i>institutions to achieve target of 60% of eligible UG &amp; PG programmes accredited - applied for within 2 years of joining the Project</i>)</li> </ul>	<p>61.54% of the eligible UG &amp; PG programmes got NBA accreditation</p> <ul style="list-style-type: none"> <li>• Institute got NAAC Accreditation for a period of 5 years with "A" grade valid from 08 July 2013.</li> <li>• ME, ECE, EEE, CSE, IT departments got NBA status for 2 years valid from 01 July 2014.</li> <li>• ME, ECE, EEE, CSE, IT departments provisionally got NBA Accreditation for one Academic year 2016-17 i.e, upto 30 June 2017.</li> <li>• Civil Engineering got accredited for 2 years w.e.f the academic year 2016-17 upto 30 June 2018.</li> <li>• Power Electronics (EEE) and Design for Manufacturing (ME) got accredited for 2 years w.e.f. academic year 2016-17 upto 30 June 2018.</li> </ul> <p><b>Supporting Evidence:</b> <i>Verification of Accreditation letters from NBA &amp; NAAC.</i></p>

<p><b>B. Effectiveness of Pedagogy Training, including</b></p>		
<ul style="list-style-type: none"> <li>Percentage of students satisfied with the quality of teachers and changes/developments specifically undertaken as a result of student evaluations</li> </ul>	<ul style="list-style-type: none"> <li>Student feedback is taken 3 times in each semester for continuous evaluation of faculty.</li> <li>Class representative meetings, consisting of 2 students and the Faculty class coordinator are held in the department with the HOD to understand the difficulties faced in all courses.</li> </ul> <p><i>Supporting Evidence: Interactions with students and Faculty Members.</i></p>	
<p><b>OVERALL EVALUATION GRADE FOR 1.3</b> USING THE 3-POINT GRADING SCALE AND GRADE DESCRIPTORS IN ANNEX 4(1)</p>		<p><b>1</b></p>

**PERFORMANCE AUDIT FORM (2.1)**  
**COMPONENT 2: IMPROVING SYSTEM MANAGEMENT**

NAME OF PERFORMANCE AUDITOR: **Dr. Sounak Kumar Choudhury**

DATES OF PERFORMANCE AUDIT: 19 – 21, August 2016

NAME OF INSTITUTION WITH LOCATION: Gokaraju Rangaraju Institute of Engineering and Technology  
Bachupally, Hyderabad, Telangana – 500090, India.

**2.1: CAPACITY BUILDING TO STRENGTHEN MANAGEMENT**

MONITORING AND PROJECT OUTPUT/OUTCOME PARAMENTERS	SUPPORTING EVIDENCE (NOTE: GRADES MUST BE SUPPORTED BY SOUND EVIDENCE OF ACHIEVEMENT OF THE INSTITUTIONAL DEVELOPMENT PROPOSAL GOALS AND TARGETS)
<b>A. Implementation of academic and non-academic reforms, including:</b>	
<ul style="list-style-type: none"> <li>▪ Improved understanding of the need and ways for increased autonomy, and new instruments for accountability</li> </ul>	<p>The Academic Autonomy is being effectively used by the Institute for implementing various academic reforms and curriculum changes as stated in section 1.1. B, 2<sup>nd</sup> bullet. The Administration is yet to come up with the new instruments for accountability.</p> <p><i>Supporting Evidence: Interactions with Dean Academic Affairs and Dean of Examinations. Verification of Academic Council Minutes of Meetings and Board of Studies recommendations.</i></p>
<ul style="list-style-type: none"> <li>▪ Modernization and decentralisation of administration and financial management</li> </ul>	<ul style="list-style-type: none"> <li>• Director is overall responsible for achieving GRIET Vision, Mission and Goals with strategies defined by the Management.</li> <li>• Principal is overall responsible for establishing an ideal institute by promoting the various circular, co &amp; extra-curricular activities, administrative and financial matters.</li> <li>• Head of Department is overall responsible for establishing an ideal learning environment and promoting the departmental activities to achieve its objectives and in turn, the objectives of GRIET</li> <li>• Dean of Academic Affairs (DOA) is responsible for the efficient conduct of all academic</li> </ul>

- activities pertaining to curriculum and faculty development
- Dean of Discipline (DOD) is responsible for promoting the overall discipline of the Institute environment involving students and staff
- Dean of Student Affairs (DOSA) is overall responsible for efficient conduct of co and extra-curricular activities and availability of amenities to the best satisfaction of the committee
- Dean of Examinations (DOE) is overall responsible for the evaluation system
- The Dean of Training and Placements (DOTP) is overall responsible for Career Counselling and making the environment conducive for Students, Smooth Transition of Students into appropriate career of their Choice
- Various administrative procedures like examinations, library, faculty and student attendance, student feedback, and faculty appraisal, etc. are computerized and the software is developed wholly by GRIET faculty.
- Details of Decentralisaion of financial management is discussed below.

**Supporting Evidence:** Interactions with the Director, HODs and Faculty. Verification of Minutes of BOG Meetings.

- Extent of delegation of administrative and financial decision making powers to senior functionaries

The amount of financial powers assigned /delegated to the following. If no delegations has been done so far, state the proposed action for each level with the corresponding timeline: (in Rs.)

1. Board of governors	Unlimited
2. Head of institution for: (a) single purchase of equipment, and (b) recurrent expenditure	(a) 2 Lacks (b) 50,000
3. Dean	(a) 25,000 (b) 10,000
4.Heads of the department	(a) 25,000 (b) 10,000

**Supporting Evidence:** Interactions with the Director, HODs and Faculty. Verification of Minutes of BOG Meetings.

<ul style="list-style-type: none"> <li>▪ Responsiveness to stakeholders (students, faculty, staff, industry, local communities)</li> </ul>	<p>Mechanisms exist to gauge the feelings, reactions, aspirations, expectations through proper on-line feedback system from all stakeholders namely students, faculty, staff, parents, alumnus, industry. Their response is taken into consideration while formulating policies or strategies. Recent exercise while formulating the Strategy Plan 2015-20 included all these responses, however limited they may be from respective stakeholders. A 360 degree evaluation of the performance of the Principal was also introduced based on this that collects feedback on communication skill, monitoring skill, care and leadership of the Principal..</p> <p><b>Supporting Evidence:</b> <i>Institute website, discussion with the Director and the meeting with the Students and the Faculty Members.</i></p>
<ul style="list-style-type: none"> <li>▪ Institutional quality assurance and enhancement strategies, including student feedback mechanisms</li> </ul>	<p>Institution Development and Monitoring Cell, headed by the Principal used to look into the quality assurance aspects. However, the responsibility of looking into the quality assurance is bifurcated to be looked after by an IQAC committee with a coordinator and team which includes faculty from various departments and student members. They have also been tasked to evolve bench marking for the institute. Dean Career Guidance and Counselling, through a band of mentors monitors the student performance academic and emotional and Dean Academic Affairs and Vice Principal take corrective actions based on student feedback of faculty.</p> <p><b>Supporting Evidence:</b> <i>Institute website, discussion with the Director, Deans and the meeting with the Faculty Members.</i></p>
<ul style="list-style-type: none"> <li>▪ Maintenance of academic and non-academic infrastructure and facilities, including sufficiency and quality of academic buildings</li> </ul>	<p>GRIET has a sound infrastructure which is aesthetically designed, environment friendly, naturally ventilated structures, and making use of the slopes of the Laila Hills to its full advantage providing right ambience for quality teaching-learning. All institutional support services academic and non-academic are in place, maintaining the academic buildings, lab equipment and overall infrastructure of the Institute.</p> <p><b>Supporting Evidence:</b> <i>Visit to academic campus, buildings, labs and the meeting with the students and Faculty.</i></p>
<ul style="list-style-type: none"> <li>▪ Development, maintain and utilisation of institutional resources</li> </ul>	<p>With staggered timings, every resource of the Institute has been well optimized. Modernisation, upgradation and maintenance of the Institutional resources are performed at</p>

	<p>a regular interval in a planned way.</p> <p><i>Supporting Evidence: Visit to academic campus, buildings, labs and the meeting with the students and Faculty.</i></p>
<ul style="list-style-type: none"> <li>▪ Generation, retention and utilization of Income Revenue Generation.</li> </ul>	<p>Tuition fee, no doubt, is the single largest income for the institute. However, income generation, through research, seminar grants, design, manufacture &amp; supply of laboratory equipment, certification courses, workshops, providing services for competitive and selection examinations, venue for conferences, student bodies and clubs, are being encouraged with suitable measures to compensate for the effort to the faculty, support staff and students.</p> <p><i>Supporting Evidence: Discussion with the Director, Deans and the meeting with the Faculty Members.</i></p>
<p><b>OVERALL EVALUATION GRADE FOR 2.1</b></p> <p>USING THE 3-POINT GRADING SCALE AND GRADE DESCRIPTORS IN ANNEX 4(1)</p>	

**1**

**PERFORMANCE AUDIT FORM (2.1.1)**  
**COMPONENT 2: IMPROVING SYSTEM MANAGEMENT**  
**2.1: CAPACITY BUILDING TO STRENGTHEN MANAGEMENT (Continued)**

**2.1.1: IMPLEMENTATION OF GOOD GOVERNANCE**

(See Also Annex 4 of the Good Governance Guide for Governing Bodies for examples of supporting evidence)

MONITORING AND PROJECT OUTPUT/OUTCOME PARAMENTERS	SUPPORTING EVIDENCE (NOTE: GRADES MUST BE SUPPORTED BY SOUND EVIDENCE OF ACHIEVEMENT OF THE INSTITUTIONAL DEVELOPMENT PROPOSAL GOALS AND TARGETS)	
A. PRIMARY ACCOUNTABILITIES		GRADE
<ul style="list-style-type: none"> <li>• <b>Has the Governing Body approved the institutional strategic vision, mission and plan – identifying a clear development path for the institution through its long-term business plans and annual budgets?</b>  <i>(Give dates of governing body meetings where the minutes record these matters having been discussed, approved and/or followed up.)</i></li> </ul>	<p>Yes</p> <ul style="list-style-type: none"> <li>• First Vision/Mission was approved on 26 January 2002</li> <li>• Strategic plan 2005-2010 was approved on 26 January 2005</li> <li>• Strategic plan 2010-2015 was approved in 32<sup>nd</sup> BoG meeting held on 11 December 2010</li> <li>• Strategic plan 2015-2020 was approved in 43<sup>rd</sup> BoG meeting held on 12 September 2015</li> </ul> <p><b>Supporting Evidence:</b> Discussion with the BoG Members, Director, Deans and the verification of the minutes of the BoG meetings.</p>	
<ul style="list-style-type: none"> <li>• <b>Has the Governing Body ensured the establishment and monitoring of proper, effective and efficient systems of control and accountability to ensure financial sustainability?</b>  <i>(Give dates of governing body meetings where the minutes record these matters having been discussed, approved and/or followed up at the systems level.)</i></li> </ul>	<p>Yes</p> <ul style="list-style-type: none"> <li>• College Manual for Administration, popularly known as “Red Book”, was prepared for organisational structure, duties and responsibilities and was first approved on 20 April 2005 and substantially revised and approved in BoG meeting held on 01 November 2012.</li> <li>• The budgets, expenditure are monitored in every Governing Body meeting.</li> </ul> <p><b>Supporting Evidence:</b> Discussion with the BoG Members, Director, Deans and the verification of the minutes of the BoG meetings and the College Manual for Administration .</p>	



<p>▪ <b>Is the Governing Body monitoring institutional performance and quality assurance arrangements?</b>  <i>(Give dates of governing body meetings where the minutes record these matters having been discussed, approved and/or followed up at the systems level.)</i></p>	<p>Yes</p> <ul style="list-style-type: none"> <li>• It is done in all the meetings keeping track of events, achievements, faculty movement, up gradation, expenditure, equipment, infrastructure etc. through Institutional Development and Monitoring and other committees.</li> <li>• All the above three points are periodically discussed at Institutional Development and Monitoring committee, the apex body at institute level which oversees ensures quality in the environment. The minutes regarding Vision/Mission/ Strategic Plan/ GRIET Rule Book (Red Manual)/ financial sustainability are reviewed. The following minutes of meeting in the IQAC minutes book on 03 Feb 15, 06 Aug 15, 22 March 16, 13 April 16 and others till date are viewed</li> </ul> <p><i>Supporting Evidence: Discussion with the BoG Members, Director, Deans and the verification of the minutes of the BoG meetings and the IQAC minutes book.</i></p>
<p>▪ <b>Has the Governing Body put in place suitable arrangements for monitoring the head of the institution's performance?</b>  <i>(Give dates of governing body meetings where the minutes record these matters having been discussed, approved and/or followed up.)</i></p>	<p>Yes,</p> <ul style="list-style-type: none"> <li>• 360<sup>0</sup> performance evaluation procedure to monitor the head of the Institution's performance was approved in 42<sup>nd</sup> BOG meeting held on 31 January 2015.</li> <li>• Subsequently the performance of the head of the institution was evaluated by taking the feedback from all the stake holders like students, support staff, Non-teaching (technical) staff, faculty, parents, alumni, Industry and reviewed in 43<sup>rd</sup> BoG meeting held on 12<sup>th</sup> September 2015. Members has congratulated the head of the institute for his good performance and asked to keep up the same.</li> </ul> <p><i>Supporting Evidence: Minutes of the BoG meetings, discussion with the Director, Deans and the meeting with the Faculty Members, Institute website.</i></p>
<p><b>EVALUATION GRADE FOR PRIMARY ACCOUNTABILITIES</b>          USING THE 3-POINT GRADING SCALE AND GRADE DESCRIPTORS IN ANNEX 4(1) FOR ALL GOVERNANCE SECTIONS</p>	

<b>B. OPENNESS &amp; TRANSPARANCY IN THE OPERATION OF GOVERNING BODIES</b>		
<ul style="list-style-type: none"> <li>• <b>Does the Governing Body publish an annual report on institutional performance?</b> (Give the publication date and type of publication of the most recent annual report, if there is one)</li> </ul>	<p>Yes, Every year Annual report is read out during the Annual Day and the same is published in hard copy in June of each year. Annual Report in booklet for the year 2015-16 was published in June 2016. <b>Supporting Evidence:</b> Minutes of the BoG meetings, discussion with the Director, Deans and the meeting with the Faculty Members, verification of the Annual Report booklet.</p>	
<ul style="list-style-type: none"> <li>• <b>Does the Governing Body maintain, and publicly disclose, a register of interests of members of its governing body?</b> (Given that a formal register is not yet normal practice in colleges, provide evidence of any published information on governing body members' financial and commercial interests)</li> </ul>	<p>Yes, Register of interests of governing body members is maintained but it is not publicly disclosed. <b>Supporting Evidence:</b> Physical verification of the Register of Interst.</p>	
<ul style="list-style-type: none"> <li>▪ <b>Is the Governing Body conducted in an open a manner, and does it provide as much information as possible to students, faculty, the general public and potential employers on all aspects of institutional activity related to academic performance, finance and management?</b> (Say whether the governing minutes are published on the institution website, and note any other steps that the governing body takes to communicate with its stakeholders on its work as a Board)</li> </ul>	<p>Yes: the minutes are disseminated to all the departments for further dissemination. The minutes are published in the institute website. <b>Supporting Evidence:</b> Institute website, meeting with the BOG members, meeting with the Faculty.</p>	
<b>GRADE FOR OPENNESS &amp; TRANSPARENCY IN THE OPERATION OF GOVERNING BODIES</b>		<b>1</b>
<b>C. KEY ATTRIBUTES OF GOVERNING BODIES</b>		
<ul style="list-style-type: none"> <li>▪ <b>Are the size, skills, competences and experiences of the Governing Body, such that it is able to carry out its primary accountabilities effectively and efficiently, and ensure the confidence of its stakeholders and constituents?</b> (Specify the range of skills and experience that the members of the governing body, and especially the external members,</li> </ul>	<p>Yes  Members have the skills /Interests ranging from setting up and running high standered schools, Industries encompassing manufacture and IT, Successful Principals, architects and socially conscious personalities. Institute had only few changes in members so far.</p>	

have)

Following is the Governing Body Constitution for the Academic Year 2015-16.

1. Dr. G. Ganga Raju – President, B Pharma, Ph D, Eminent Industrialist Chairman, Laila Group of Companies, Vijayawada
2. Sri G.V.K. Ranga Raju - Vice-President, B Tech, MBA, Industrialist M.D., Delta Paper Mills Vendra, Bhimavaram.
3. Sri G. Rama Raju – Member, B Pharm, Industrialist Partner, Laila Impex, Vijayawada
4. Smt G. Vani Raju – Member, Entrepreneur Director Ganges Valley School, Hyderabad
5. Prof. P.S.Raju – Member, Academician, Ex-Principal GRIET
6. Dr S V Jayaram Kumar – Member, Ph D. Professor Dept of EEE, GRIET, Hyderabad
7. Dr. S. Ramamurthy – Member, Ph D. Professor & Vice Principal of I B-Tech, Dept of Basic Sciences, GRIET, Hyderabad
8. Prof. V S Raju - Member Educationalist, Ex-Director, IIT Delhi
9. Sri V Rajanna – Member, Vice President & Regional Head Global Head – Technology Business Unit, Tata Consultancy Services (TCS)
10. Dr. S. Devaneshan – Member, Prof & Principal Scientist Kerala Agricultural Univ. College of Agriculture Vellayani, Trivandrum
11. Dr S Narsing Rao – Member, Head of Finance Management Unit & Project Coordinator, SPFU, Dept. of Technical Education, Hyderabad
12. Dr. A. Damodaram – Member, Director, Academic Audit Cell, Professor, Department of Computer Science Engineering, JNTUH, Hyderabad
13. Dr. Jandhyala N Murthy - Member Secretary, Ph D Principal, Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad

	<i>Supporting Evidence: Meeting with the BOG members, physical verification of the minutes of the BOG meetings.</i>
<p>▪ <b>Are the recruitment processes and procedures for governing body members rigorous and transparent?</b> (Specify how governing body members are selected, and whether that process is transparent)</p>	<p>Once the term of the current external members from Industry and Academia gets over, new member induction shall be done in a transparent manner as per guidelines. <i>Supporting Evidence: Meeting with the BOG members, physical verification of the minutes of the BOG meetings.</i></p>
<p>▪ <b>Does the Governing Body have actively involved independent members and is the institution free from direct political interference to ensure academic freedom and focus on long term educational objectives?</b> (Give examples, where possible, of the role of external members in improving the performance of the institution)</p>	<p>Yes, there are no apparent political pressures in the management and the institute enjoys full academic freedom, but as a permanently affiliated institution the selection of students and the fees structure are as per the State Higher Education wing. <i>Supporting Evidence: Meeting with the BOG members, physical verification of the minutes of the BOG meetings.</i></p>
<p>▪ <b>Are the role and responsibilities of the Chair of the institution and the Member Secretary serving the governing body clearly stated?</b> (If yes, specify the document where these roles are defined)</p>	<p>Yes, Composition and general functions of the body are included in the rule book. Institute conforms that specific duties of Chairman and member secretary as per the guidelines of TEQIP Good practices of Governance shall be included. <i>Supporting Evidence: Physical verification of the rule book.</i></p>
<p>▪ <b>Does the Governing Body meet regularly? Is there clear evidence that members of the governing body attend regularly and participate actively?</b> (State the number of meetings in the last year, and the average number of those Board members present and those members absent at those meetings)</p>	<p>Yes, Four meetings were conducted. On average 7 to 8 members attend out of 13. <i>Supporting Evidence: Physical verification of the minutes of the BOG meetings.</i></p>
<b>GRADE FOR KEY ATTRIBUTES OF GOVERNING BODIES</b>	
<b>1</b>	

<b>D. EFFECTIVENESS AND PERFORMANCE REVIEW OF GOVERNING BODIES</b>		
<ul style="list-style-type: none"> <li>▪ <b>Does the Governing Body keep their effectiveness under regular review and in reviewing its performance, reflect on the performance of the institution as a whole in meeting its long-term strategic objectives and its short-term indicators of performance/success?</b></li> </ul> <p><i>(If yes, give the date(s) of governing body meetings where the minutes show that such a review has been discussed)</i></p>	<p>Yes,</p> <p>Short term indicators are always monitored and reviewed through Action Taken Reports and minuted in every meeting is indirectly monitoring the long term objectives. This reflects regularity of review. All meetings carry these minutes.</p> <p><b>Supporting Evidence:</b> Meeting with the BOG Members and Physical verification of the minutes of the BOG meetings.</p>	
<ul style="list-style-type: none"> <li>▪ <b>Does the Governing Body ensure that new members are properly inducted, and existing members receive opportunities for further development as deemed necessary?</b></li> </ul> <p><i>(If yes, give examples of how these two tasks are carried out)</i></p>	<p>Yes,</p> <p>Specific briefing of the college and their role are given during induction of new member. The institute have started sending its members for workshops on good governance and interaction with members of premier institutions.</p> <p><b>Supporting Evidence:</b> Meeting with the BOG Members and Physical verification of the minutes of the BOG meetings.</p>	
<b>GRADE FOR EFFECTIVENESS AND PERFORMANCE REVIEW OF GOVERNING BODIES</b>		<b>1</b>
<b>E. REGULATORY COMPLIANCE</b>		
<ul style="list-style-type: none"> <li>▪ <b>Does the Governing ensure regulatory compliance* and, subject to this, take all final decisions on fundamental matters of the institution.</b></li> </ul> <p><i>(If yes, give the date(s) of governing body meetings where the minutes show that regulatory compliance has been discussed)</i></p>	<p>Yes,</p> <p>The institute ensures compliance with all regulatory bodies like University, State government, AICTE, UGC and Accreditation authorities. Most of the approvals are of yearly nature and mandatory. Accreditations and major grants like TEQIP are minuted at BOG level 2005, 2009, 2013 for NBA accreditation and TEQIP grant in 2010, 2011 etc.</p> <p><b>Supporting Evidence:</b> Meeting with the BOG Members and Physical verification of the minutes of the BOG meetings.</p>	

<p>▪ <b>Does the regulatory compliance include demonstrating compliance with the ‘not-for-profit’ purpose of education institutions?</b> (If yes, give evidence that the governing body has been directly involved)</p>	<p>Yes, The financial status and the audits indicate the intention of the institute as ‘not-for-profit’. All the budgets, expenditures and audit accounts are monitored by the BOG. <b>Supporting Evidence:</b> Meeting with the BOG Members and Physical verification of the minutes of the BOG meetings.</p>																				
<p>▪ <b>Has there been accreditation and/or external quality assurance by a national or professional body? If so, give name, current status of accreditation etc</b> (Provide lists of all courses which have already been accredited, all courses where an application has been made, and all courses where no such application has yet been made)</p>	<p>Yes,</p> <ul style="list-style-type: none"> <li>All the programs of the institutions are accredited by NAAC with ‘A’ grade with effect from 08 July 2013 for a period of 5 years.</li> <li>61.54% of the eligible UG &amp; PG programmes got NBA accreditation</li> </ul> <table border="1" data-bbox="837 708 1989 1121"> <thead> <tr> <th></th> <th>I- Accreditation</th> <th>II- Accreditation</th> <th>III- Accreditation</th> <th>IV- Accreditation</th> </tr> </thead> <tbody> <tr> <td>B.Tech (ECE,EEE,CSE,IT,ME)</td> <td>w.e.f 27/07/2006 for 3 years</td> <td>w.e.f 16/04/2009 for 3 years</td> <td>w.e.f 01/07/2014 for 2 years</td> <td>w.e.f 01/07/2016 for 1 year</td> </tr> <tr> <td>B.Tech (CE)</td> <td>w.e.f 01/07/2016 for 2 years</td> <td></td> <td></td> <td></td> </tr> <tr> <td>M.Tech (PE &amp; DFM)</td> <td>w.e.f 01/07/2016 for 2 years</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <ul style="list-style-type: none"> <li>UGC conferred autonomous status for 6 years with effect from the academic year 2014 – 2015</li> </ul> <p><b>Supporting Evidence:</b> Accreditation files</p>		I- Accreditation	II- Accreditation	III- Accreditation	IV- Accreditation	B.Tech (ECE,EEE,CSE,IT,ME)	w.e.f 27/07/2006 for 3 years	w.e.f 16/04/2009 for 3 years	w.e.f 01/07/2014 for 2 years	w.e.f 01/07/2016 for 1 year	B.Tech (CE)	w.e.f 01/07/2016 for 2 years				M.Tech (PE & DFM)	w.e.f 01/07/2016 for 2 years			
	I- Accreditation	II- Accreditation	III- Accreditation	IV- Accreditation																	
B.Tech (ECE,EEE,CSE,IT,ME)	w.e.f 27/07/2006 for 3 years	w.e.f 16/04/2009 for 3 years	w.e.f 01/07/2014 for 2 years	w.e.f 01/07/2016 for 1 year																	
B.Tech (CE)	w.e.f 01/07/2016 for 2 years																				
M.Tech (PE & DFM)	w.e.f 01/07/2016 for 2 years																				
<b>GRADE FOR REGULATORY COMPLIANCE</b>		<b>1</b>																			
<b>OVERALL EVALUATION GRADE FOR GOVERNANCE 2.1.1 A-E</b> USING THE 3-POINT GRADING SCALE AND GRADE DESCRIPTORS IN ANNEX 4(1)		<b>1</b>																			

**PERFORMANCE AUDIT FORM (2.2)**  
**COMPONENT 2: IMPROVING SYSTEM MANAGEMENT**

NAME OF PERFORMANCE AUDITOR: **Dr. Sounak Kumar Choudhury**

DATES OF PERFORMANCE AUDIT: 19 – 21, August 2016

NAME OF INSTITUTION WITH LOCATION: Gokaraju Rangaraju Institute of Engineering and Technology  
 Bachupally, Hyderabad, Telangana – 500090, India.

**TABLE 2.2: PROJECT MANAGEMENT, MONITORING AND EVALUATION**

<b>MONITORING AND PROJECT OUTPUT/OUTCOME PARAMENTERS</b>	<b>SUPPORTING EVIDENCE</b> (NOTE: GRADES MUST BE SUPPORTED BY SOUND EVIDENCE OF ACHIEVEMENT OF THE INSTITUTIONAL DEVELOPMENT PROPOSAL GOALS AND TARGETS)
<p><b>A. Effectiveness of mentoring, reviews, surveys and audits conducted, including:</b></p> <ul style="list-style-type: none"> <li>▪ Increase in the achievement of the institutions goals and targets set out in the Institutional Development Proposal</li> </ul>	<ul style="list-style-type: none"> <li>• 8 number of mentor visits are conducted throughout the project period. The mentor visits are conducted twice in a year and the improvements are indicated in the mentors report.</li> <li>• Reviews are conducted to monitor the progress of the goals and targets by the Principal and the Institute Development and Monitoring Committee.</li> <li>• All aspects of Performance, Data and Financial audits are continuously performed as per schedule and the necessary action taken in areas of deficiency.</li> <li>• Reviews are conducted by the SPFU and JRM's are conducted by NPIU and World Bank officials based on prescribed Performance indicators. GRIET has satisfied all Performance Indicators set by NPIU time to time, and the same was reported in all the Aide Memorie published by NPIU and reviewed in all the JRM's conducted by NPIU and World Bank Officials. A team from World Bank, NPIU and SPFU, visited GRIET during the V JRM held in the month of July 2015 and reportedly expressed their satisfaction in the performance/ status of</li> </ul>

	<p>TEQIP implementation at GRIET. Based on the performance the Institute has been recognized as “well performing Institute” and got qualified for additional grant of Rs. 2 Crore as per the email received from NPIU on 27 January, 2016 and BoG is also empowered to grant permission for International travel following the guidelines set by NPIU.</p> <ul style="list-style-type: none"> <li>• Participated in the CII-AICTE survey and Faculty, Staff &amp; Students satisfaction Survey conducted by NPIU.</li> </ul> <p><i>Supporting Evidence: Meeting with the Mentor, Director and the TEQIP Coordinator; NPIU letter, Physical verification of concerned files.</i></p>
<p><b>B. Effective project management and monitoring, including:</b></p> <ul style="list-style-type: none"> <li>▪ Precise and reliable information/ data through web based MIS available to stakeholders at all time</li> </ul>	<p>The data on the effectiveness of the TEQIP-II Project Management and Monitoring is made available through the Institute Web site <a href="http://www.griet.ac.in/teqip.html">http://www.griet.ac.in/teqip.html</a>. All stake holders can view the reliable information on TEQIP-II from the website.</p> <p><i>Supporting Evidence: Institute website</i></p>
<p><b>C. Effectiveness of faculty evaluation by students, including:</b></p> <ul style="list-style-type: none"> <li>▪ Percentage/ increase in percentage of faculty evaluated by students in one or more subjects</li> <li>▪ Are results of evaluation properly used for teacher improvement?</li> </ul> <p><b>If yes, is the procedure adopted for teacher improvement including counseling appropriate and effective?</b></p>	<ul style="list-style-type: none"> <li>• The evaluation of faculty by students is 100%, all teaching faculty are evaluated thrice a semester for all the courses handled.</li> <li>• The results of survey are computed and shared with the faculty.</li> <li>• Low score feed backs are isolated and analysed and the concerned faculty are counseled for corrective action and subsequent feed backs are compared for improvements. They are also recommended to attend FDPs /Pedagogy trainings and the assessment is monitored by regular Student feedback.</li> <li>• The best performing faculty is awarded.</li> </ul> <p><i>Supporting Evidence: Meeting with the Director, Faculty Members and the Students.</i></p>



**OVERALL EVALUATION GRADE FOR 2.2**

USING THE 3-POINT GRADING SCALE AND GRADE DESCRIPTORS IN ANNEX 4(1)

**1**

Established finishing school to address the effectiveness of equity with special attention to academically weak students.

- More than 200 students got benefitted.
- 684 Students trained in specialized soft skills and professional skills training programs in the A.Y 2014-15 and 532 got benefitted.
- 744 Students trained in specialized soft skills and professional skills training programs in the A.Y 2015-16 and 531 got benefitted and placements are in progress.

**DATA AUDIT FORMS**

NAME OF THE DATA AUDITOR: Sri. N. Ramana

DATES OF DATA AUDIT: 18-21<sup>st</sup> Aug 2016

NAME OF INSTITUTION WITH LOCATION: Gokaraju Rangaraju Institute of Engineering and Technology, Bachupally, Hyderabad.

**DATA AUDIT FORM (1)**

NO.	PARTICULARS	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	INSTITUTIONAL DATA SOURCE
1.	<b>INFORMATION IN RESPECT TO BACHELORS PROGRAMMES IN ENGINEERING/TECHNOLOGY</b>							
	a. Number of UG programmes conducted	08	08	08	08	8	6	Approved letters from AICTE & JNTU
	b. Total number of UG students	3519	3463	3603	3951	4173	4438	College Admission Registers
	c. Total number of women students in UG programmes	1199	1203	1228	1347	1403	1455	
	d. Total number of SC students in UG programmes	413	410	435	479	493	515	
	e. Total number of ST students in UG programmes	174	170	171	186	190	201	
	f. Total number of OBC students in UG programmes	1403	1326	1285	1548	1671	1805	
	g. Percentage of final year UG students placed through campus interviews	61.72	42.2	40.0	27.23	75.56	59.46*	Placement office records
	h. Percentage of final year UG students passed out with 75% or more aggregate marks	48.20	29	38	34.90	44.57	44.40	Result Records available from Examination branch
	i. Percentage of <u>all</u> 1 <sup>st</sup> year students [as at 1(b)] passed all courses fully and successfully got admitted to 2 <sup>nd</sup> year	61.00	71.73	73.86	72.50	63.40	65.17	Result Records available from Examination branch
	j. Percentage of 1 <sup>st</sup> year women students [as at 1(c)] that passed all courses fully and successfully got admitted to 2 <sup>nd</sup> year in the current academic year	55.00	80.70	77.70	78.00	77.04	79.40	

k. Percentage of 1 <sup>st</sup> year SC students [as at 1(d)] that passed all courses fully and successfully got admitted to 2 <sup>nd</sup> year in the current academic year	42.00	73.90	63.90	65.00	48.60	64.22	
l. Percentage of 1 <sup>st</sup> year ST students [as at 1(e)] during the latest that passed all courses fully and successfully got admitted to 2 <sup>nd</sup> year in the current academic year	38.00	62.10	75.60	63.40	45.24	26.09	
m. Percentage of 1 <sup>st</sup> year OBC students [as at 1(f)] during the latest that passed all courses fully and successfully got admitted to 2 <sup>nd</sup> year in the current academic year	48.00	83.90	78.40	81.60	75.31	83.01	

**DATA AUDIT FORM (2)**

NO.	PARTICULARS	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	INSTITUTIONAL DATA SOURCE
2.	INFORMATION IN RESPECT TO BACHELORS PROGRAMMES IN ENGINEERING/TECHNOLOGY							
	a. Number of full-time Masters programmes	6	6	6	7	9	9	Approved letters from AICTE & JNTU
	b. Number of part-time and sandwich (Joint) Masters programmes	N.A	N.A	N.A	N.A	N.A	N.A	-----
	c. Total number of students enrolled for all Masters programmes	192	97	98	115	117	107	College Admission Registers
	d. Number of faculty in-house enrolled for Masters programmes	0	14	4	4	0	0	
	e. Number of students enrolled for all Masters programmes with scholarship	25	97	98	115	27	45	Records available from Scholarship section
	f. Number of students enrolled for all Masters programmes with TEQIP assistantship	0	0	12	12	14	15	Records available from TEQIP Office
	g. Total number of women students in all Masters programmes	67	36	37	42	54	58	College Admission Registers
	h. Total number of SC students in all Masters programmes	27	12	13	14	11	12	
	i. Total number of ST students in all Masters programmes	5	4	3	5	4	3	
	j. Total number of OBC students in all Masters programmes	80	30	36	50	73	53	

	k. Percentage of final year Masters students during the placed through campus interviews	38.29	16.40	6.8	3.5	7.14	13.79*	Placement office records
	l. Percentage of final year Masters students during the latest that passed out with 75% or more aggregate marks	62	71	54	70	73.80	Results are awaited	Result Records available from Examination branch

**DATA AUDIT FORM (3)**

NO.	PARTICULARS	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	INSTITUTIONAL DATA SOURCE
<b>3.</b>	<b>INFORMATION IN RESPECT TO DOCTORAL PROGRAMMES</b>							
	a. Number of Doctoral candidates on roll	0	0	0	0	0	0	-----
	b. Number of in-house faculty enrolled for Doctoral programmes during the	0	0	0	0	0	0	
	c. Number of students enrolled for Doctoral programmes with scholarship	0	0	0	0	0	0	
	d. Number of students enrolled for Doctoral programmes with TEQIP assistantship	0	0	0	0	0	0	

**DATA AUDIT FORM (4)**

NO.	PARTICULARS	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	INSTITUTIONAL DATA SOURCE
<b>4.</b>	<b>Information in respect to Faculty</b>							
	a. Total number of regular full-time faculty excluding adjunct and emeritus faculty	233	241	266	279	340	358	Attendance Registers and records available with Administrative Office
	b. Total number of regular full-time faculty in engineering disciplines excluding adjunct and emeritus faculty	233	207	226	234	293	297	
	c. Number of regular full-time faculty in engineering disciplines with Masters degree as their highest qualification excluding adjunct and emeritus faculty	190	141	181	196	251	260	
	d. Number of regular full-time faculty in engineering disciplines with Doctoral degree as their highest qualification excluding adjunct and emeritus faculty	27	25	28	22	34	37	

e. Number of regular full-time faculty in engineering disciplines with Bachelors degree as their highest qualification faculty	16	41	17	16	8	0	
f. Number of faculty with Bachelors degree which are enrolled in-house for Masters programmes in parent institution (i) Engineering teachers: (ii) Applied Science teachers: (iii) Other teachers:	16	4 0 0	2 0 0	1 0 0	0 0 0	--- --- ---	Records available with Administrative Office
g. Number of faculty with Bachelors degree which are enrolled in-house for Masters programmes at other institutions: (i) Engineering teachers: (ii) Applied Science teachers: (iii) Other teachers:	0	2 0 0	2 0 0	3 0 0	3 0 0	--- --- ---	Records available with Administrative Office
h. Number of faculty with Masters degree which are enrolled in-house for PhD programmes in parent institution: (i) Engineering teachers: (ii) Applied Science teachers: (iii) Other teachers:	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	-----
i. Number of faculty with Masters degree which are enrolled in-house for PhD programmes at other institutions: (i) Engineering teachers: (ii) Applied Science teachers: (iii) Other teachers:	28	8 3 0	7 4 0	3 1 0	5 0 0	09 2 0	Admission letters of faculty with administrative office
j. Number of faculty that have attended a professional training program of 5 or more days	0	10	80	214	125	28	Certificates available with departments
k. Number of all faculty (irrespective of specialization) that have attended the Basic Module of pedagogy training	0	0	0	7	0	0	
l. Number of all faculty (irrespective of specialization) that have attended both the Basic and Advanced Modules of pedagogy training	0	0	0	0	26	128	
m. Number of faculty appraised by students	0	241	266	279	340	358	Records of feedback

**DATA AUDIT FORM (5)**

NO.	PARTICULARS	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	INSTITUTIONAL DATA SOURCE
<b>5.</b>	<b>Information in respect to Accreditation of Programmes</b>							
	a. Number of UG programmes accredited	6	0	0	5	5	5	Approved letters from NBA
	b. Number of UG programmes for which accreditation applied for	0	5	5	0	0	1	
	c. Number of PG programmes accredited	0	0	0	0	0	0	
	d. Number of PG programmes for which accreditation applied for	0	0	0	0	0	2	

**DATA AUDIT FORM (6)**

NO.	PARTICULARS	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	INSTITUTIONAL DATA SOURCE
<b>6.</b>	<b>INFORMATION IN RESPECT TO RESEARCH AND PATENTS</b>							
	a. Number of research publications in Indian refereed journals	56	17	22	9	6	4	Copy of research publications
	b. Number of research publications in International refereed journals	65	60	65	23	115	103	
	c. Number of research publications co-authored with faculty/ researchers/ industry experts from outside the institution	0	77	87	32	32	28	
	d. Number of patents in engineering related areas obtained	0	0	1	0	0	0	Approved letters and filed applications
	e. Number of patents in engineering related areas filed	5	2	2	0	2	0	
	f. Number of sponsored research project completed	0	2	4	5	5	6	Records with Research and development Office
	g. Number of MOUs signed for collaborative programs with Indian industry and R&D organizations	21	0	1	0	1	2	Copy of MoUs
	h. Number of MOUs signed for collaborative programs with International academic institutions and R&D organizations	02	0	1	0	0	0	

**DATA AUDIT FORM (7)**

NO.	PARTICULARS	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	INSTITUTIONAL DATA SOURCE
7.	<b>INFORMATION IN RESPECT TO BACHELORS PROGRAMMES IN ENGINEERING/TECHNOLOGY</b>							
	a. Amount received as Block Grant (Rs. In Lakhs)	NA	NA	NA	NA	NA	NA	-----
	b. IRG1 from students' tuition fee and other charges (Rs. In Lakhs)	1718.87	2010.74	2413.83	2680.53	3729.05	4220.05	Records available with Account Seciton
	c. IRG from externally funded R&D projects and consultancies (Rs. In Lakhs)	25.00	487.73	38.14	33.03	18.05	79.11	
	d. Total IRG (Rs. in Lakhs)	2120.05	2498.47	2451.97	2713.56	3747.1	4299.16	
	e. Total annual recurring expenditure (Rs. In Lakhs)	1215.16	1559.30	1906.65	2319.22	2866.37	3600.16	Records available with Account Seciton
	f. Amount available in Corpus Fund	0	6	14	10	6	14	
	g. Amount available in Faculty Development Fund	0	6	8	10	6	14	
	h. Amount available in Equipment Replacement Fund	0	6	8	10	6	14	
	i. Amount available in Maintenance Fund	0	6	8	10	6	14	

**DATA AUDIT FORM (8)**

NO.	PARTICULARS	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	INSTITUTIONAL DATA SOURCE
8.	<b>INFORMATION IN RESPECT TO BACHELORS PROGRAMMES IN ENGINEERING/TECHNOLOGY</b>							
	a. Number of Governing Body meetings held (with minutes on the web)	4	3	4	4	8	6	Records of Minutes of meeting
	b. Number of institutional functionaries (Deans, HoDs, senior faculty and senior officials) that have undergone Management Capacity Enhancement training	4	0	3	8	6	25	Certificates available with TEQIP office

## **PERFORMANCE AND DATA AUDIT FEEDBACK**

(FEEDBACK TO THE INSTITUTION, STATE PROJECT FACILITATION UNITS,  
THE NATIONAL PROJECT IMPLEMENTATION UNIT/AND RELEVANT MENTOR)

NAME OF PERFORMANCE AUDITOR: **Dr. Sounak Kumar Choudhury**

DATES OF PERFORMANCE AUDIT: 19 – 21, August 2016

NAME OF INSTITUTION WITH LOCATION: Gokaraju Rangaraju Institute of Engineering and Technology (GRIET)  
Bachupally, Hyderabad, Telangana – 500090, India.

### **KEY POINTS FEED BACK BY THE PERFORMANCE AUDITOR TO THE INSTITUTION AT THE END OF THE VISIT - AGAINST THE SEVEN ASPECTS OF EVALUATION**

- Overall, the fund received by the Institute from the TEQIP-II over the last five years has been utilised well for the development of the academic program and the overall functioning of the Institute. The Institute infrastructure in terms of buildings, furniture etc. is excellent and maintained well. Faculty-student ratio is maintained well within the prescribed norms. Student and Faculty community of the Institute have been found to be overall satisfied with the performance of the Institute Administration.
- GRIET has a good library with about 1.5 lakh books. Library facilities of the Institute may further be enhanced with procuring more text books so that all students could get the text books issued. Library should be encouraged to subscribe to more number of e-journals.
- Laboratory space in all the laboratories is adequate. Laboratories are spacious, airy and well lit. However, the laboratory equipment and machines should be upgraded.
- The Institute has adequate number of buses to transport students to and from the college to city. The Institute Authority may look into the bus fare that the students feel to be on the higher side.
- Institute Authority may arrange for regular industrial visits for the students.
- Lecture hours should not be more than 1 hr to 1.5 hrs so that the students could concentrate in the class
- Students felt that the half an hour time allotted to them for the lunch is not sufficient since it takes about 10-15 min time to reach canteen for some of them.
- The Institute Authority may also introduce some vacation time or recess for the students.

### **KEY IMPROVEMENTS NOTICED ON SHORTCOMINGS REPORTED DURING EARLIER PERFORMANCE AUDITS**

The Institute (GRIET, Hyderabad) has gone through two performance audits previously. The key improvements noticed on shortcomings reported during earlier performance audits and the action taken report are as follows:



Recommendation	Action taken
<p><b>A. Improve the quality of conduct of PG courses</b></p>	<ul style="list-style-type: none"> <li>• Two PG programs, Power Electronics (EEE) and Design for Manufacturing (ME) got NBA accreditation for 2 years w.e.f academic year 2016-17 up to 30 June 2018. Remaining PG programmes are in the process of applying for NBA accreditation.</li> <li>• TEQIP-II teaching assistantships are provided for 52 Masters Students in order to enhance the quality of intake.</li> <li>• TA's are allotted with a workload of 10 hours per week in UG laboratories to improve their understanding about the subjects.</li> <li>• Procured 8 subject domain software like MATLAB, LabVIEW, DELMIA, SIMULIA, Midas, and Ansys to design, develop, and solve large scale engineering problems</li> <li>• PG students are encouraged to publish their project works in Conferences and Journals.</li> <li>• Institute has introduced 3 New PG programmes: Thermal Engineering, Power Systems and Structural Engineering and enhanced number of seats to 24 in existing Computer Science Engineering.</li> <li>• Institute has newly established 5 laboratories "Computational Methods lab" in Thermal Engineering PG programme, "Power System Simulation Lab" &amp; "Power System Lab" in Power Systems PG Programme, and "Advanced concrete lab" &amp; "Advanced CAD lab" in Structural Engineering PG Programme and upgraded the existing "Thermal Engineering lab" for Thermal Engineering PG programme. These laboratories were established with the institutional funds.</li> </ul>
<p><b>B. Increase the industry interaction.</b></p>	<ul style="list-style-type: none"> <li>• Gokaraju Rangaraju Educational Society (GRES) is recognized as Scientific and Industrial Research Organization (SIRO) by DSIR for a period of two years from 24 Mar 2015</li> <li>• GRIET made MOU with Confederation of Indian Industry (CII) to enhance the interaction with industry.</li> <li>• CEO Speak Session's were organised by inviting, Dr B.V.R Mohan Reddy Executive Chairman of Cyient Ltd, Hyderabad and Mr.Shakti Sagar, Managing Director, ADP Pvt. Ltd., Hyderabad for all faculty and students.</li> </ul>

- Regularly participating in the webinars conducted by CII.
- Workshops/seminars/guest lectures are regularly conducted by inviting experts from Industry.
- Staff and students of GRIET visited various industries like DRDL, Nuclear Fuel Complex, SEECO, APERL etc.
- LabVIEW Core 1 & 2 training is conducted for faculty and students by National Instruments Systems limited.
- Initiated Academic Interface programme with Tata Consultancy Services Limited from 2015.
- Industry experts are actively involved in all the decision making bodies like Board of Governors, Academic Council and Board of Studies of all programmes 46 short term programs conducted with industry created better orientation of academic programmes towards industry.
- Organized 2 Industry Expo's to create the awareness among the students and faculty about the requirements of Industry.
- Though the industrial visits or internships are not part of curriculum, 440 students has done industry internships on their own initiative and 13 faculty visited Industries like L&T Metro rail, RCI labs, Vennar cements and Usha International Ltd., etc. in association with CII, Telangana.
- Oracle Certified Java Program (OCJP), Oracle Certified Associate (OCA), Cisco Certified Network Associate (CCNA), AutoCAD, Pro-E, Certified LabVIEW Associate Developer (CLAD) and IBM Big Data Analytics certification courses are offered as part of Co-curricular activities to make students industry- ready.

### **BRIEF STATEMENTS ON CONTINUING SHORTCOMINGS, AND REASONS:**

- The Institute is suffering from the fund crunch. Funds are not released in time by the State Government. TEQIP-II funds allocated to GRIET, already released by the NPIU long ago through the State Government, have not reached the Institute yet. It is suggested to release the funds in future directly to the Institute.
- Few private engineering colleges in the state are offering the students an option of not attending classes and still get the degree by appearing only for the final examination. Quite a few students opting for such an easy option. As a result, GRIET is having difficulty in getting enough number of students.

### **RECOMMENDATIONS FOR MENTORS**

Recommendations for Mentors is no more applicable. However, in case it is relevant, recommendations to Mentors remain the same as mentioned above in the “Key points feedback by the performance auditor to the Institution...” paragraph.

**TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME-II (TEQIP-II)**  
**Gokaraju Rangaraju Institute of Engineering and Technology (GRIET), Hyderabad**  
**INSTITUTIONAL RESPONSE FORMS (1)**

(To be sent from the Head of the Institution to the Performance Auditor, 2 weeks before an audit visit)

### A. Project Implementation

S.No	Evaluation Parameters	Responses
1.1	Briefly describe the actions taken for obtaining Autonomous Institution status, and the status of your applications as made	UGC conferred autonomous status for 6 years with effect from the academic year 2014 – 2015 wide letter no: 22-1/2014(AC) dated 05 Feb 2014.
1.2	If your Institution is already an Autonomous institution, briefly state actions taken for the following:	
	1.Value addition to course as per market demand	<ul style="list-style-type: none"> <li>• Syllabus up to 20% has changed as per market demand based on recommendations of BoS as autonomous regulations GR11 regulations w.e.f. 2011-12</li> <li>• BoS has experts from Industry and reputed Institutions.</li> <li>• Each semester of undergraduate programme is added with one additional practical course to strengthen practical skills.</li> <li>• Mini project offered during III year II semester is converted as lab for improving practical skills.</li> <li>• Traditional M1, M2, M3 courses are restructured as LASVC, AC, NM, TCFS.</li> <li>• Regulations and syllabi are reviewed and introduced as GR14 regulations in 2014-15.</li> <li>• Introduced courses on Ethics and Human Values and Environmental Science as Mandatory courses for all UG programmes.</li> </ul>

		<ul style="list-style-type: none"> <li>• Choice Based Credit System (CBCS) is introduced from GR15 regulations onwards. As per CBCS, the student is allowed to take courses of his interest in the current semester or next semester.</li> <li>• Introduced course on Gender Sensitization for all UG programmes as a mandatory course.</li> <li>• 100% exposure for all ECE students at I year on Android/ Soldering practice.</li> <li>• ADVANCED ACADEMIC CENTER (AAC) was started for bright students admitted in I B.Tech to inculcate inter-disciplinary Research at GRIET.</li> <li>• Microcontrollers, DSP, Robotics, Data Analytics, Business Intelligence, IOT workshops are conducted regularly from II B.Tech onwards.</li> <li>• Oracle Certified Java Program (OCJP), Oracle Certified Associate (OCA), Cisco Certified Network Associate (CCNA), AutoCAD, Pro-E, Certified LabVIEW Associate Developer (CLAD) and IBM Big Data Analytics certification courses are offered as part of Co-curricular activities to make students industry ready.</li> <li>• Launched IBM Business Analytics Lab in association with IBM Pvt. Ltd. and NI LabView Academy with National Instruments from the academic year 2015-16.</li> <li>• Introduced “Business Intelligence” course in B. Tech IV year I Semester CSE and IT programmes, “Essentials of Big Data and Analytics” course in B. Tech IV year II Semester CSE and IT programmes, and “Big Data and Analytics” course in M. Tech I year II Semester Computer Science Engineering and Software Engineering programmes from GR14 Regulations onwards.</li> <li>• IIT Bombay has recognized GRIET as one of its Remote Center to conduct “Talk to 10k Teachers” program to train faculty both in pedagogy and subject domain as part of NMEICT program initiated by MHRD, Government of India. We are also participating in the “Spoken Tutorials” program for students conducted by IIT Bombay to increase the thrust in ICT usage in Technical education</li> <li>• Participating in Quality Enhancement in Engineering Education (QEEE) program sponsored by MHRD, Government of INDIA through IIT – Madras to improve the quality of education delivered to students by making available</li> </ul>
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	<p>high quality pedagogical resources to all students through technology – Direct to Student Program and empowering teachers/educators.</p> <ul style="list-style-type: none"> <li>• Participating in Technology Entrepreneurship Programme (TEP) program initiated by TELANGANA ACADEMY OF SKILL AND KNOWLEDGE (TASK), and organised by INDIAN SCHOOL OF BUSINESS (ISB) to promote technology entrepreneurship as a viable career option and nurture the culture of entrepreneurship among the students.</li> <li>• Initiated Academic Interface programme with Tata Consultancy Services Limited from 2015.</li> </ul>
2. Improvements introduced in student evaluation	<ul style="list-style-type: none"> <li>• Paper setting is done by experts from reputed institutions such as Autonomous Institutes, Universities, NITs and IITs.</li> <li>• Paper evaluation is exclusively done by external experts for more transparency.</li> <li>• Entire Examination procedures are computerized and the software is developed wholly by GRIET faculty.</li> <li>• Introduced paper settings based on course outcomes as part of Outcome Based Education (OBE) system.</li> <li>• From GR14 regulations, both short answer and descriptive answer questions are included in paper setting.</li> <li>• Evaluation for tutorials is also introduced for continuous evaluation.</li> <li>• Attainment of Course outcomes is done after final valuation.</li> </ul>
3.Addition of electives	<ul style="list-style-type: none"> <li>• As per GR 15 regulations, the student has a choice of selecting open elective from III year II semester.</li> <li>• There is a proposal to introduce elective stream as per NASSCOM as one of the elective course especially for CSE &amp; IT programmes.</li> </ul>
4. Carrying out teachers evaluation by students	<ul style="list-style-type: none"> <li>• Student feedback is taken 3 times in each semester for continuous evaluation of faculty.</li> <li>• Class representative meetings are held in the department by the HOD to know the difficulties faced in all courses.</li> </ul>
5. Starting of new PG programs, as planned	<ul style="list-style-type: none"> <li>• A New PG program “Thermal engineering” was started in Mechanical Engineering Department, from academic year 2013 – 14.</li> <li>• Intake in existing PG programme CSE is increased from 18 to 24 from</li> </ul>

		<p>academic year 2013 – 14.</p> <ul style="list-style-type: none"> <li>Two new PG programs “Power systems” in Electrical and Electronics Engineering Department and “Structural Engineering” in Civil Engineering Department started from 2014-15.</li> </ul>
	6. For enhancing qualification, deputing to other institutions and/or admitting within the institution those teachers that have a Bachelor’s degree only	<ul style="list-style-type: none"> <li>As Master’s degree has become the minimum qualification for faculty recruitment as per AICTE, there are no faculty with Bachelor’s degree qualification.</li> </ul>
	7. Conducting continuing education and/or skill enhancement programs for industry	<ul style="list-style-type: none"> <li>GRIET in association with Gokaraju Rangaraju College of Pharmacy (GRCP) is conducting skill development courses for the employees of Dr. Reddys laboratories ltd. Hyderabad</li> </ul>
	8. Inviting experts from industry and eminent institutions for special lectures	<ul style="list-style-type: none"> <li>Industry experts are invited regularly to share their expertise and knowledge in core domains with the faculty and students.</li> </ul>
1.3	The amount of financial powers assigned /delegated to the following. If no delegations has been done so far, state the proposed action for each level with the corresponding timeline: (in Rs.)	
	1. Board of governors	Unlimited
	2. Head of institution for: (a) single purchase of equipment, and (b) recurrent expenditure	(a) 2 Lacks                      (b) 50,000
	3. Dean	(a) 25,000                      (b) 10,000
	4. Heads of the department	(a) 25,000                      (b) 10,000
1.4	Progress in starting new PG programs, as proposed	<ul style="list-style-type: none"> <li>A New PG program “Thermal engineering” was started in Mechanical Engineering department, from academic year 2013 – 14.</li> <li>Intake in existing PG programme CSE is increased to 24 from academic year 2013 – 14.</li> <li>Two new PG programs “Power systems” in Electrical and Electronics Engineering Department and “Structural Engineering” in Civil Engineering Department started from 2014-15.</li> <li>Software like MATLAB, LabVIEW, DELMIA, SIMULIA, Midas, and Ansys</li> </ul>

		<p>has been procured for newly started PG programmes.</p> <ul style="list-style-type: none"> <li>• Establishment of new PG laboratories: “Computational Methods lab” &amp; “Thermal Engineering lab” in Thermal Engineering PG programme. “Power System Simulation Lab” &amp; “Power System Lab” in Power Systems PG Programme “Advanced concrete lab” &amp; “Advanced CAD lab” in Structural Engineering Programme.</li> <li>• All programmes have qualified faculty in relevant specialisations.</li> </ul>
1.5	Actions taken to fill up seats in the existing PG programmes	<ul style="list-style-type: none"> <li>• JNTUH allots PG seats as per PGECET examination and industry sponsored candidates are encouraged.</li> <li>• In order to attract merit students teaching assistance ship of Rs. 8000/- per month is being paid to non-GATE candidates and same is advertised in the newspaper before the time of admissions.</li> </ul>
1.6	Action taken to reduce vacancies in faculty positions	<ul style="list-style-type: none"> <li>• Recruitment is done as and when it is required as per JNTUH norms.</li> </ul>
1.7	Status of faculty appointed on regular basis, and proposed actions to fill up all faculty positions on regular basis	<ul style="list-style-type: none"> <li>• All faculty appointments are done on regular basis.</li> </ul>
1.8	Progress in getting pedagogical training in both the modules	<ul style="list-style-type: none"> <li>• Seven Faculty were sent for Pedagogical training conducted by NITTR, Chandigarh.</li> <li>• 46 faculty were attended “Technical Communication” training program conducted by IIT Bombay from 08th Oct 2015 to 05 Dec 2015 at GRIET IITB Remote centre.</li> <li>• 12 faculty were attended “Pedagogy for effective use of ICT in Engineering Education” conducted by IIT Bombay from 05th Jan 2015 to 21st Jan 2015 at GRIET IITB Remote centre.</li> <li>• 78 faculty are being attending “Use of ICT in education for online and blended learning” training program conducted by IIT Bombay from 02 May 2016 to 10 July 2016 at GRIET IITB Remote centre.</li> </ul>
1.9	New activities ( since project start or the last performance audit) undertaken for enhancing	<ul style="list-style-type: none"> <li>• Gokaraju Rangaraju Educational Society (GRES) is recognized as Scientific and Industrial Research Organization (SIRO) by DSIR for a period of two</li> </ul>



	interaction with industry	<p>years from 24 Mar 2015</p> <ul style="list-style-type: none"> <li>• GRIET made MOU with Confederation of Indian Industry (CII) to enhance the interaction with industry.</li> <li>• CEO Speak Session's were organised by inviting, Dr B.V.R Mohan Reddy Executive Chairman of Cyient Ltd, Hyderabad and Mr.Shakti Sagar, Managing Director, ADP Pvt. Ltd., Hyderabad for all faculty and students.</li> <li>• Regularly participating in the webinars conducted by CII.</li> <li>• Faculty of CE, ECE and ME departments visited L&amp;T Hyderabad, RCI Labs Hyderabad and NTTF Bangalore respectively.</li> <li>• Students are encouraged to undergo internship programs at various Industries</li> <li>• Regularly workshops/seminars/guest lectures are conducted by inviting experts from Industry.</li> <li>• Staff and students of GRIET visited various industries like DRDL, Nuclear Fuel Complex, SEECO, APERL etc.</li> <li>• LabVIEW Core 1 &amp; 2 training is conducted for faculty and students by National Instruments Systems limited.</li> <li>• Initiated Academic Interface programme with Tata Consultancy Services Limited from 2015.</li> <li>• Industry experts are actively involved in all the decision making bodies like Board of Governors, Academic Council and Board of Studies of all programmes</li> </ul>
1.10	Generation, retention and utilization of the non-tuition fee revenue generated through various activities.	<ul style="list-style-type: none"> <li>• Initially IRG was generated through the design, development, supply and maintenance of Laboratory Equipment to Engineering Colleges in Andhra Pradesh.</li> <li>• Later Technology Cell was established to formalise and accelerate the consultancy, research and developmental activities at GRIET with the following objectives: <ul style="list-style-type: none"> <li>(a) Promote time-bound solutions and product development culture among the students and staff of GRIET.</li> <li>(b) Promote the culture of standardised documentation and quality consciousness among the students and staff of GRIET.</li> </ul> </li> </ul>

		<p>(c) Provide industries with cost-effective solutions to the nagging problems in their products.</p> <ul style="list-style-type: none"> <li>• IRG thus generated is utilized for the sustenance of Technology Cell activities.</li> </ul>
2.1	Progress in instituting practice of teachers evaluation by students	<ul style="list-style-type: none"> <li>• Student feedback is taken thrice in a semester.</li> <li>• Periodic class co-ordinators/ student representative meetings provide inputs for teacher's evaluation by students</li> </ul>
2.2	Current percentage of teachers evaluated by students in one subjects taught	<ul style="list-style-type: none"> <li>• 100%, all teachers who take theory or practical subjects were evaluated by the students</li> </ul>
2.3	Current percentage of teachers evaluated by students in more than one subjects taught	<ul style="list-style-type: none"> <li>• 100%, as feedback is taken for all subjects. This covers all faculty members teaching one subject or more.</li> </ul>
2.4	State the incentives being offered to the faculty for participation in consultancy assignments, R&D, and continuing education programs conducted by the institution or industry	<ul style="list-style-type: none"> <li>• If the execution of Project involves the use of college hardware or software, then 50 % of the amount received from the industry shall be retained by GRIET as the separate fund for Technology Cell, and the remaining 50% amount shall be distributed among the staff members, who have actually contributed in the execution of Project. The amount to be paid (after the completion of Project) to each member shall be decided by the Principal in consultation with the Technology Cell Coordinator.</li> <li>• If the execution of Project does not involve the use of college hardware or software, then 33.3 % (one-third) of the amount received from the industry shall be retained by GRIET as the separate fund for Technology Cell, and the remaining 66.7 % (two- third) amount shall be distributed among the staff members, who have actually contributed in the execution of Project. The amount to be paid (after the completion of Project) to each member shall be decided by the Principal in consultation with the Technology Cell Coordinator.</li> <li>• For continuing education programs conducted by the institution or industry, On Duty, Course fee, TA &amp; DA will be given as per guidelines approved by BOG.</li> </ul>
3.1	Are the 4 funds established?	Yes

3.2	If yes, what is the amount in each fund?	Corpus fund	Rs.50,00,000
		Equipment replacement fund	Rs.44,00,000
		Faculty development fund	Rs.44,00,000
		Maintenance fund	Rs.44,00,000
3.3	Is the contribution to each fund as per the requirement in the PIP?	Yes	
3.4	State the quantum of financial powers delegated to: (a) BOG; (b) Head of Institution; (c) Deans, and (d) Heads of Departments	(a) BOG: Unlimited (b) Head of the Institution: Rs.2lakhs (c) Deans: Rs.25,000/- (d) Heads of Departments: Rs.25,000/-	
3.5	If less than those recommended in the PIP, state the reasons for the shortfall, and actions planned to comply with the project recommendations	We execute as per PIP	
4.1	Number of ongoing sponsored projects from industry	8	
4.2	Number of industry awarded consultancy assignments completed	2	
4.3	Number of ongoing industry awarded consultancy assignments	0	
4.4	Number of organizations and industries with whom MOUs have been signed for joint R&D	24	
5.1	List the UG programs accredited on date by	• GRIET has got NAAC Accreditation for a period of 5 years with “A” grade	

	name	<p>valid from 08 July 2013.</p> <ul style="list-style-type: none"> <li>• ME, ECE, EEE, CSE, IT departments got NBA status for 2 years valid from 01 July 2014.</li> <li>• ME, ECE, EEE, CSE, IT departments provisionally got NBA Accreditation for one Academic year 2016-17 i.e upto 30 June 2017.</li> <li>• Civil Engineering got accredited for 2 years w.e.f the academic year 2016-17 upto 30 June 2018.</li> </ul>
5.2	<ul style="list-style-type: none"> <li>• State program-wise action taken to get accredited the eligible UG program that are yet to be accredited.</li> <li>• Describe difficulties faced, if any.</li> </ul>	All the UG programs are accredited as on date.
5.3	List the PG programs accredited on date by name	Power Electronics (EEE) and Design for Manufacturing (ME) got accredited for 2 years w.e.f academic year 2016-17 upto 30 June 2018.
5.4	<ul style="list-style-type: none"> <li>• State program-wise action taken to get accredited the eligible PG program that are yet to be accredited.</li> <li>• Describe difficulties faced, if any.</li> </ul>	All other 4 eligible PG programmes are being in the process of getting Accreditation
6.1	Give the number of papers published in national refereed journals from the date of joining the Project	38
6.2	Give the number of papers published in Foreign refereed journals from the date of joining the Project	403
6.3	<ul style="list-style-type: none"> <li>• Number of patents filed since joining the project</li> <li>• List the titles of patents filed since joining the project along with names of contributors</li> </ul>	<p>7</p> <ol style="list-style-type: none"> <li>1. Development and Design Considerations in warm forming of extra deep drawing (EDD) Metal Sheet – Dr. Swadesh Kumar Singh</li> <li>2. Development of anti-microbial extracts from leaves of a medicinal plant - Dr. D. Sailaja</li> <li>3. Biomask - Dr. D. Sailaja</li> </ol>

		<p>4. Skin Care Cream – Dr. D. Sailaja</p> <p>5. Improved Transformer with High Energy efficiency – Dr. R. Subrahmanyam</p> <p>6. Process for Data Confidentiality using Probabilistic Cryptographic Technique - Dr P Vijayapal Reddy</p> <p>7. A model for data secrecy using hybrid cryptographic technique - Dr P Vijayapal Reddy</p>
6.4	<ul style="list-style-type: none"> <li>• Number of patents obtained since joining the project</li> <li>• List the titles of patents obtained since joining the project along with names of contributors</li> </ul>	<p>1</p> <p>1. Bio mask (design) – Dr. D. Sailaja</p>
7.1	Actions being taken for identifying weak students	<p>1. Identification of weak students</p> <ol style="list-style-type: none"> <li>a. Diagnostic test conducted in the beginning of the year</li> <li>b. Past qualifying exam results are considered</li> <li>c. Mid examination performance is taken into account</li> <li>d. Confidence levels in English classes observed</li> <li>e. Feedback from mentors considered</li> </ol> <p>2. Remedial classes conducted for academically weak students</p> <p>3. Programs conducted for communication skills development</p> <p>4. Presentation skills development programs conducted</p> <p>5. Seminars by external experts</p> <p>6. Conducted 4-weeks intensive training program for professional skills development</p> <p>7. Conducted special pedagogical programs for teachers</p> <p>8. Conducted employability programs and Personality growth programs for confidence building</p>
7.2	Number of students that have benefited from remedial teaching since joining the Project/ since the last performance audit	More than 200 students got benefitted.
7.3	Number of students that have benefited from	<ul style="list-style-type: none"> <li>• 684 Students trained in the A.Y 2014-15 and 532 got benefitted.</li> </ul>

	specialized soft skills and professional skills training programs conducted since joining the Project/ since the last performance audit	<ul style="list-style-type: none"> <li>• 744 Students trained in the A.Y 2015-16 and 531 got benefitted and placements are in progress.</li> </ul>
7.4	Status of establishment and functioning of Finishing School	<p>The finishing school of GRIET is established in Dec 2011. From then it is functioning in continuous, constructive and expedient manner it always focus on</p> <ul style="list-style-type: none"> <li>• Subjects where failure rate is high.</li> <li>• Identifying weak students.</li> <li>• Conducting remedial classes.</li> <li>• Providing necessary study material.</li> </ul>

**INSTITUTIONAL RESPONSE FORMS (2)**  
**(Engineering disciplines)**

**Table-1(a): CONSOLIDATED STATEMENT**

S.No.		TEQIP (2010-11)			TEQIP (2015-16)		
		1	NO. OF DEPARTMENTS	08			06
2	LEVELS OF PROGRAMMES (Number of Programmes)	B.TECH	M.TECH	PhD	B.TECH	M.TECH	PhD
		08	06	---	06	09	---
3	COLLABORATION WITH INDUSTRY (Number of MoUs SIGNED)	18			24		

**Table-1(B): Details of Student Enrolment**

S.No.	Name of The Department	No. of Fresh Students admitted in the Institute						Increase in Percentage (In %)
		TEQIP (2010-11)			TEQIP (2015-16)			
		B.Tech.	M.Tech.	Ph.D.	B.Tech.	M.Tech.	Ph.D.	
1.	Electrical and Electronics Engineering (EEE)	120	17	----	120	16	----	-0.73
2.	Electronics and Communication Engineering (ECE)	120	25	----	300	24	----	124.14 <sup>1</sup>
3.	Computer Science and Engineering (CSE)	120	18	----	360	17	----	173.19 <sup>1</sup>
4.	Information Technology (IT)	119	16	----	60	13	----	-45.92 <sup>2</sup>
5.	Mechanical Engineering (ME)	120	12	----	120	21	----	6.81
6.	Civil Engineering (CE)	120	---	----	119	14	----	10.83
7.	Bio-Medical Engineering(BME)	27	---	----	----	----	----	-100 <sup>3</sup>
8.	Bio-Technology(BT)	39	---	----	----	----	----	-100 <sup>3</sup>

1. Intake of ECE (UG) programme increased from 120 to 300 and CSE (UG) programme increased from 120 to 360.
2. Intake of IT (UG) programme has been reduced from 120 to 60.
3. Admissions for BME & BT (UG) programmes were discontinued from A.Y. 2015-16.

**Table 1(c): FACULTY DETAILS**

S.No.	Name of The Department		No. of Faculty having Highest Qualification									
			TEQIP (2010-11)			TEQIP (2015-16)			Increase in Percentage (In %)			
			B.Tech	M.Tech	Ph.D.	B.Tech	M.Tech	Ph.D.	B.Tech	M.Tech	Ph.D.	Total
1.	ECE	Regular	12	23	2	0	62	5	-100	169.56	150	81.08
		Contractual	----	----	----	----	----	----	----	----	----	----
		Total	12	23	2	0	62	5	-100 <sup>1</sup>	169.56	150	81.08
2.	EEE	Regular	8	23	2	0	32	5	-100	39.13	150	12.12
		Contractual	----	----	----	----	----	----	----	----	----	----
		Total	8	23	2	0	32	5	-100 <sup>1</sup>	39.13	150	12.12
3.	CSE	Regular	8	26	2	0	66	8	-100	153.84	300	105.55
		Contractual	----	----	----	----	----	----	----	----	----	----
		Total	8	26	2	0	66	8	-100 <sup>1</sup>	153.84	300	105.55
4.	IT	Regular	14	19	2	0	24	3	-100	26.31	50	-22.86
		Contractual	----	----	----	----	----	----	----	----	----	----
		Total	14	19	2	0	24	3	-100 <sup>1</sup>	26.31	50	-22.86 <sup>2</sup>
5.	ME	Regular	5	22	8	0	37	9	-100	68.18	12.5	31.43
		Contractual	----	----	----	----	----	----	----	----	----	----
		Total	5	22	8	0	37	9	-100 <sup>1</sup>	68.18	12.5	31.43
6.	CE	Regular	4	4	2	0	29	3	-100	625	50	220
		Contractual	----	----	----	----	----	----	----	----	----	----
		Total	4	4	2	0	29	3	-100 <sup>1</sup>	625	50	220
7.	BME	Regular	2	6	0	0	7	0	-100	16.67	0	-12.5
		Contractual	----	----	----	----	----	----	----	----	----	----
		Total	2	6	0	0	7	0	-100 <sup>1</sup>	16.67	0	-12.50 <sup>3</sup>
8.	BT	Regular	1	5	4	0	3	4	-100	-40	0	-30
		Contractual	----	----	----	----	----	----	----	----	----	----
		Total	1	5	4	0	3	4	-100 <sup>1</sup>	-40	0	-30 <sup>3</sup>

1. As per AICTE norms, the minimum qualification for faculty recruitment has become PG. Hence, there were no faculty with UG qualification.
2. Intake of IT (UG) programme has been reduced from 120 to 60.
3. Admissions for BME & BT (UG) programmes were discontinued from A.Y. 2015-16.



**Table 1(D): Collaboration with Industry**

S.No.	Name of the Department/ Institute	Name of the Industry with whom MOU signed	
		TEQIP (2010-11)	TEQIP (2015-16)
1	Gokaraju Rangaraju Institute of Engineering and Technology	<ol style="list-style-type: none"> <li>1. Cybermotion Technologies Pvt Ltd</li> <li>2. Thermopads Pvt Ltd</li> <li>3. Vem Technologies Pvt Ltd</li> <li>4. Nalanda Telematics &amp; Informatics Ltd</li> <li>5. Future Tech Instruments Ltd</li> <li>6. Hi-Q Electronic Systems</li> <li>7. Control Systems</li> <li>8. Micro Zone</li> <li>9. Centronix</li> <li>10. Medi-Sun Medical Products</li> <li>11. Care Medi Systems</li> <li>12. Medequip Services</li> <li>13. Sai Ram Organics Pvt Ltd</li> <li>14. Pentagram Research Centre Pvt Ltd</li> <li>15. Vector India Pvt.Ltd.</li> <li>16. Global Scientific Instruments</li> <li>17. TRI Technosolutions Pvt Ltd</li> <li>18. Innovation Communications Systems Ltd</li> </ol>	<ol style="list-style-type: none"> <li>1. Cybermotion Technologies Pvt Ltd</li> <li>2. Thermopads Pvt Ltd</li> <li>3. Vem Technologies Pvt Ltd</li> <li>4. Nalanda Telematics &amp; Informatics Ltd</li> <li>5. Future Tech Instruments Ltd</li> <li>6. Hi-Q Electronic Systems</li> <li>7. Control Systems</li> <li>8. Micro Zone</li> <li>9. Centronix</li> <li>10. Medi-Sun Medical Products</li> <li>11. Care Medi Systems</li> <li>12. Medequip Services</li> <li>13. Sai Ram Organics Pvt Ltd</li> <li>14. Pentagram Research Centre Pvt Ltd</li> <li>15. Vector India Pvt.Ltd.</li> <li>16. Global Scientific Instruments</li> <li>17. TRI Technosolutions Pvt Ltd</li> <li>18. Innovation Communications Systems Ltd</li> <li>19. iCarnegie powered by CMU</li> <li>20. M/s Sten Bies GmbH, Germany</li> <li>21. Tata Consultancy Services Ltd</li> <li>22. APSFKNW &amp; ISB in 2015 for Technology Entrepreneurship Program</li> <li>23. IBM India Pvt. Ltd.</li> <li>24. National Instruments Pvt. Ltd.</li> </ol>

**Table 2: SUMMARY SHEET FOR REVIEW**

Name of NPIU Official : Dr. Sounak Kumar Choudhury

Name of Institute: Gokaraju Rangaraju Institute of Engineering and Technology

Sub-component: 1.1

Category of Institute: Private unaided

	Strategy/Activities	Indicators	Institutional Baseline (Pre-TEQIP) in 2010-11	Proposed Target for 2 years (31 <sup>st</sup> Dec 2012)		Proposed Budget Estimate		Status due to input of TEQIP as on date of final round of performance auditing		Outcome against Goals (TEQIP)	Remarks	
				Physical( No.*/%age)	Institutional	TEQIP	Institutional	TEQIP	Physical( No.*/%age)			Financial (Rs. Lakh)
					(No.*/%age)	(No.*/%age)						
<b>A.0</b>	<b>Goal : Improve Quality of Education in Selected Institutions</b>											
<b>A.1</b>	<b>Student</b>											
A.1.1	<b>Improvement in Students Knowledge and Skills</b> - Diagnostic test - Remedial teaching	<b>Percentage of female students against total engineering students in all years</b> • Undergraduates • Postgraduates	34% 35%	33% 33%	33% 33%	----- -----	----- -----	34.00% 41.79%	----- -----	Satisfactory achievement	To be sustained	
A.1.2	- E-enabled learning	<b>Students transition rate (percentage) from first year to</b>	61.00%	65.00%	65.00%	0	16	66.38%	8.78910	Improving	Change in regulations also has	

	Strategy/Activities	Indicators	Institutional Baseline (Pre-TEQIP) in 2010-11	Proposed Target for 2 years (31 <sup>st</sup> Dec 2012)		Proposed Budget Estimate		Status due to input of TEQIP as on date of final round of performance auditing		Outcome against Goals (TEQIP)	Remarks	
				Physical( No.*/%a ge)	Institutional	TEQIP	Institutional	TEQIP	Physical( No.*/%a ge)			Financial (Rs. Lakh)
					(No.*/% age)	(No.*/% age)	(Rs.Lakh )	(Rs.Lakh )				
	- Research projects at UG levels - Assistantships	<b>second year of UG programs (clearing all subjects/ courses of 1<sup>st</sup> year in first attempt)</b>									significant effect on the student performance	
A.1.3		<b>Average scores (%/CGPA) at degree completion</b> • Undergraduates • Postgraduates	67% 72%	70% 75%	70% 75%	----- -----	----- -----	70% 76%	----- -----	Satisfactory achievement	To be sustained	
A.1.4		<b>No. of students enrolled in M.Tech. programs</b>	88	144	144	-----	-----	107	-----	Started 3 New PG programs	Student admission has become a challenge because of unhealthy admission policies	

	Strategy/Activities	Indicators	Institutional Baseline (Pre-TEQIP) in 2010-11	Proposed Target for 2 years (31 <sup>st</sup> Dec 2012)		Proposed Budget Estimate		Status due to input of TEQIP as on date of final round of performance auditing		Outcome against Goals (TEQIP)	Remarks	
				Physical( No.*/%a ge)	Institutional	TEQIP	Institutional	TEQIP	Physical( No.*/%a ge)			Financial (Rs. Lakh)
					(No.*/% age)	(No.*/% age)	(Rs.Lakh )	(Rs.Lakh )				
											followed by the other institutes	
A.1.5		<b>No. of students registered in PhD programs in engineering</b>	0	0	-----	0	-----	-----	-----	University has to finalize the admission procedure for Ph.D. registrations.	JNTUH has recognised EEE, ME and Mathematics departments as research centres.	
A.1.6		<b>No. of Masters students enrolled with TEQIP teaching assistantship</b>	0	-----	60	-----	40	52	26.61646	Improved quality input	Unable to attract more students due to non- release of funds from State Govt.	
A.1.7		<b>No. of PhD students enrolled with TEQIP research</b>	0	-----	3	-----	-----	0	0	University has to finalize the admission	JNTUH has recognised EEE, ME and	

	Strategy/Activities	Indicators	Institutional Baseline (Pre-TEQIP) in 2010-11	Proposed Target for 2 years (31 <sup>st</sup> Dec 2012)		Proposed Budget Estimate		Status due to input of TEQIP as on date of final round of performance auditing		Outcome against Goals (TEQIP)	Remarks	
				Physical( No.*/%a ge)	Institutional	TEQIP	Institutional	TEQIP	Physical( No.*/%a ge)			Financial (Rs. Lakh)
					(No.*/% age)	(No.*/% age)	(Rs.Lakh )	(Rs.Lakh )				
		<b>assistantship</b>								procedure for Ph.D. registrations.	Mathematics departments as research centres.	
A.1.8		<b>No. of Research projects taken by UG students</b>	2	2	----	----	-----	14	-----	Improved research spirit	Number will increase in future as No. of Ph.D. faculty is increasing.	
A.1.9		<b>Any other</b>										
<b>A.2</b>	<b>Faculty</b>											
A.2.1	<b>Capacity Development of Faculty</b> - Recruitment of faculty - Subject domain	<b>Percentage of faculty positions filled-in</b> (as per AICTE/MHRD required Teacher-Student ratio): •Regular	100%	-----	-----	-----	-----	100%	-----	Conducive teaching	To be	

	Strategy/Activities	Indicators	Institutional Baseline (Pre-TEQIP) in 2010-11	Proposed Target for 2 years (31 <sup>st</sup> Dec 2012)		Proposed Budget Estimate		Status due to input of TEQIP as on date of final round of performance auditing		Outcome against Goals (TEQIP)	Remarks	
				Physical( No.*/%a ge)	Institutional	TEQIP	Institutional	TEQIP	Physical( No.*/%a ge)			Financial (Rs. Lakh)
					(No.*/% age)	(No.*/% age)	(Rs.Lakh )	(Rs.Lakh )				
	training - Qualification upgradation	•Regular + Contract	100%	-----	-----	-----	-----	100%	-----	learning environment	sustained	
A.2.2	- Pedagogical Training - E-enabled training - Management development training	<b>Percentage of Faculty with BTech enrolled for MTech against total BTech faculty</b>	40%	60%	60%	-----	-----	There are no faculty with B.Tech.qualification	-----	Significant achievement. Enhance faculty calibre	Minimum qualification for faculty is M.Tech	
A.2.3	- Continuing Education Programme	<b>Percentage of Faculty with M.Tech. enrolled for Ph.D. in engineering against total M.Tech. faculty</b>	12%	32%	32%	-----	Part of Rs.90 lakhs proposed for FSD	14.66%	15	Improved. Higher research potential	Apparent limitation availability of research guides within reasonable distance	
A.2.4		<b>Percentage of regular faculty with Master's degree in</b>	75.00%	90%	90%	-----	-----	100%	0	Significant achievement. Enhance	To be sustained	

	Strategy/Activities	Indicators	Institutional Baseline (Pre-TEQIP) in 2010-11	Proposed Target for 2 years (31 <sup>st</sup> Dec 2012)		Proposed Budget Estimate		Status due to input of TEQIP as on date of final round of performance auditing		Outcome against Goals (TEQIP)	Remarks	
				Physical( No.*/%a ge)	Institutional	TEQIP	Institutional (Rs.Lakh )	TEQIP (Rs.Lakh )	Physical( No.*/%a ge)			Financial (Rs. Lakh)
					(No.*/% age)	(No.*/% age)						
		<b>engineering against total engineering faculty</b>								faculty calibre		
A.2.5		<b>Percentage of regular faculty with Ph.D. degree in engineering against total engineering faculty</b>	10.00%	15.00%	15.00%	-----	-----	14.24%	-----	Improved. Higher research potential leading to the higher rating of the Institute	More number of faculty can be encouraged for qualification upgradation	
A.2.6		<b>Number of faculty members attended training in subject domain</b>	80	150	150	0	Part of Rs.90 lakhs proposed for FSD	234	13.72342	Significant achievement. Improved technical competence	Effort to be sustained	
A.2.7		<b>Number of faculty members attended management development</b>	0	10	10	0	12	55	9.62887	Significant achievement. Enhanced the Personal	More programmes are planned with IIMs,ISB	

	<i>Strategy/Activities</i>	<b>Indicators</b>	<b>Institutional Baseline (Pre-TEQIP) in 2010-11</b>	<b>Proposed Target for 2 years (31<sup>st</sup> Dec 2012)</b>		<b>Proposed Budget Estimate</b>		<b>Status due to input of TEQIP as on date of final round of performance auditing</b>		<b>Outcome against Goals (TEQIP)</b>	<b>Remarks</b>	
				Physical( No.*/%a ge)	Institutional	TEQIP	Institutional	TEQIP	Physical( No.*/%a ge)			Financial (Rs. Lakh)
					(No.*/% age)	(No.*/% age)	(Rs.Lakh )	(Rs.Lakh )				
		<b>training</b>								Attributes and Managerial Abilities of administrators and senior faculty		
A.2.8		<b>Number of faculty members attended pedagogical training</b>	0	2	2	0	Part of Rs.90 lakhs proposed for FSD	135	1.37841	Significant achievement. Adopted to use Modern Teaching Learning Methods	More programmes are planned with NITTR, Chandigarh	
A.2.9		<b>Any other</b>										
<b>A.3</b>	<b>Institutional Reforms</b>											
A.3.	<i>Set of Reforms</i>	<b>Percentage of NBA</b>	60%	100%	100%	0	Part of	61.54%	37.98957	Significant	Planning to	



	Strategy/Activities	Indicators	Institutional Baseline (Pre-TEQIP) in 2010-11	Proposed Target for 2 years (31 <sup>st</sup> Dec 2012)		Proposed Budget Estimate		Status due to input of TEQIP as on date of final round of performance auditing		Outcome against Goals (TEQIP)	Remarks	
				Physical( No.*/%a ge)	Institutional	TEQIP	Institutional	TEQIP	Physical( No.*/%a ge)			Financial (Rs. Lakh)
					(No.*/% age)	(No.*/% age)	(Rs.Lakh )	(Rs.Lakh )				
1	- Academic reforms - Non-academic reforms - Enhance interaction with industry	<b>accredited UG &amp; PG programs including Applied-For cases, against total eligible programs</b>					Rs.42 Lakhs proposed for Institutional Reforms			achievement. All UG and 2 out of 6 eligible PG programs got accreditation.	apply for the remaining 4 PG programmes	
A.3.2		<b>Autonomous institution status concurred by UGC (Yes/No/Applied For)</b>	No	Attain Autonomous institution status	Attain Autonomous institution status	-----	-----	Yes, UGC granted autonomous status for six years w.e.f the A.Y 2014-15	0	Significant improvement in quality of UG & PG education	-----	
A.3.3		<b>No. of academic programs i.e.</b>	0	1	1	0	0	0	0	-	-	

	Strategy/Activities	Indicators	Institutional Baseline (Pre-TEQIP) in 2010-11	Proposed Target for 2 years (31 <sup>st</sup> Dec 2012)		Proposed Budget Estimate		Status due to input of TEQIP as on date of final round of performance auditing		Outcome against Goals (TEQIP)	Remarks	
				Physical( No.*/%a ge)	Institutional	TEQIP	Institutional	TEQIP	Physical( No.*/%a ge)			Financial (Rs. Lakh)
					(No.*/% age)	(No.*/% age)	(Rs.Lakh )	(Rs.Lakh )				
		<b>M.Tech./PhD etc. with industry</b>										
A.3.4		<b>No. of short term programs with industry</b>	8	---	20	----	35	46	28.69494	Better orientation of academic programmes towards industry	To be sustained and scope to be enhanced	
A.3.5		<b>Academic networking with other institutions (No.)</b>	03	4	0	0	0	12	0	Interchange of best practices and improvement in subject domain, pedagogy and research competencies	We have tie-up with IITH, IITM, IITB, IITKgh, ISB, IIM's, NITTR Chandigarh.	
A.3.6		<b>ICT (Information communication)</b>	0	5	0	0	0	20	0	Long lasting scope for self-	GRIET is remote centre	

	Strategy/Activities	Indicators	Institutional Baseline (Pre-TEQIP) in 2010-11	Proposed Target for 2 years (31 <sup>st</sup> Dec 2012)		Proposed Budget Estimate		Status due to input of TEQIP as on date of final round of performance auditing		Outcome against Goals (TEQIP)	Remarks	
				Physical( No.*/%a ge)	Institutional	TEQIP	Institutional	TEQIP	Physical( No.*/%a ge)			Financial (Rs. Lakh)
					(No.*/% age)	(No.*/% age)	(Rs.Lakh )	(Rs.Lakh )				
		<b>Technology) enabled learning (No. of programs/ courses)</b>								learning and ease of knowledge transfer	for IITB under NMEICT and participating in QEEE programme	
A.3.7		<b>Curricula revised/restructured (No.)</b>	1	0	2	0	0.10	3	0.08500	In tune with latest technologies & Industry	To be in touch with the latest and to carryout revision on need base at least once in three years	
A.3.8		<b>Total IRG</b>	Rs2121.56 lakhs	Rs.2300 lakhs	0	0	0	----	Rs.4220.04856 lakhs	Better acceptance by all stake holders	More effort on quality of work and increased publicity	
A.3.9		<b>Percentage revenue from externally funded R&amp;D</b>	1.74%	2	2	0	0	2.05%	-----	Captivating from funding agencies	To be improved	

	Strategy/Activities	Indicators	Institutional Baseline (Pre-TEQIP) in 2010-11	Proposed Target for 2 years (31 <sup>st</sup> Dec 2012)		Proposed Budget Estimate		Status due to input of TEQIP as on date of final round of performance auditing		Outcome against Goals (TEQIP)	Remarks	
				Physical( No.*/%a ge)	Institutional	TEQIP	Institutional	TEQIP	Physical( No.*/%a ge)			Financial (Rs. Lakh)
					(No.*/% age)	(No.*/% age)	(Rs.Lakh )	(Rs.Lakh )				
		<b>projects and consultancies in total revenue</b>										
A.3.10		<b>IRG as percentage of annual recurring expenditure</b>	174.58%	200	4	0	0	101.63%	-----	To be improved	To be improved	
A.3.11		<b>Any other</b>										
<b>B.0</b>	<b>Enhance Access to Knowledge Resources</b>											
B.1	<b>Improvement in Teaching, Training and Learning facilities</b> - New PG	<b>Laboratories:</b> <ul style="list-style-type: none"> <li>• New laboratory (Nos.) for new PG programs</li> <li>• New laboratory (Nos.) for existing</li> </ul>	NA	NA	NA	NA	NA	5	----	Enhanced practical skills in tune with institute vision.	More number of laboratory sessions to enhance research spirit.	

	Strategy/Activities	Indicators	Institutional Baseline (Pre-TEQIP) in 2010-11	Proposed Target for 2 years (31 <sup>st</sup> Dec 2012)		Proposed Budget Estimate		Status due to input of TEQIP as on date of final round of performance auditing		Outcome against Goals (TEQIP)	Remarks	
				Physical( No.*/%a ge)	Institutional	TEQIP	Institutional	TEQIP	Physical( No.*/%a ge)			Financial (Rs. Lakh)
					(No.*/% age)	(No.*/% age)	(Rs.Lakh )	(Rs.Lakh )				
	programmes - Updation of learning resources	PG programs • Existing laboratory (Nos.) modernized	NA	NA	NA	NA	NA	---	---			
			NA	NA	NA	NA	NA	1	----			
B.2	- Equipment details - Modernization of Labs and class rooms	<b>Library</b> • Books (print) (Nos.) • e-books (Nos.) • Journals (print) (Nos.) • e-journals (Nos.) • Course specific softwares (Nos.)	85055 0 260 30 24	92000 150 300 1000 30	---- ---- ---- ---- ----	10 --- 5 15 30	Part of Rs.100 lakhs proposed for procurement	111044 1110 1572 29876 8	0.3 ---- ---- 22.235 66.39901	A good repository	Staff and students must be encouraged more for to avail the facility	
B.3		<b>Membership of online</b> 1.No. of journals 2.No. of consortium	0	36912	-----	----	----	36912	----	Global and instantaneous reach	Encourage to be on par with the global trends	

	Strategy/Activities	Indicators	Institutional Baseline (Pre-TEQIP) in 2010-11	Proposed Target for 2 years (31 <sup>st</sup> Dec 2012)		Proposed Budget Estimate		Status due to input of TEQIP as on date of final round of performance auditing		Outcome against Goals (TEQIP)	Remarks	
				Physical( No.*/%a ge)	Institutional	TEQIP	Institutional	TEQIP	Physical( No.*/%a ge)			Financial (Rs. Lakh)
					(No.*/% age)	(No.*/% age)	(Rs.Lakh )	(Rs.Lakh )				
B.4		No. of digitally/virtually accessible courses/subjects	0	260 (NPTEL)	-----	---	---	260	----	Availability of external expert Knowledge	Students and staff to be encouraged to avail this facility more	
B.5		Any other										
<b>C.0</b>	<b>Enhancement of Research and Development Activities</b>											
C.1	<i>Promoting R&amp;D culture in the Institution</i> - Modern R&D equipment - Conference	<b>No. of research publications in refereed journals:</b> • National journals • International journals	1 3	25 25	25 25	---- ----	---- ----	47 403	---- ----	Significant achievement	To be sustained and scope to be expanded	

	Strategy/Activities	Indicators	Institutional Baseline (Pre-TEQIP) in 2010-11	Proposed Target for 2 years (31 <sup>st</sup> Dec 2012)		Proposed Budget Estimate		Status due to input of TEQIP as on date of final round of performance auditing		Outcome against Goals (TEQIP)	Remarks	
				Physical( No.*/%a ge)	Institutional	TEQIP	Institutional	TEQIP	Physical( No.*/%a ge)			Financial (Rs. Lakh)
					(No.*/% age)	(No.*/% age)	(Rs.Lakh )	(Rs.Lakh )				
C.2	s / Workshops organized	<b>No. of Books published</b>	7	10	10	----	-----	17	----	Satisfactory	To be sustained and scope to be expanded	
C.3	- Conferences / Workshops attended	<b>No. of Patents obtained/ filed</b>	2	4	4	----	----	1/7	0.28625	Satisfactory	To be sustained and scope to be expanded	
C.4		<b>Any other</b>										
<b>D.0</b>	<b>Improve Employability of Graduates</b>											
D.1	<i>Improving competencies of graduates</i> - Industrial collaboration	<b>Campus placement percentage:</b> • Undergraduates • Postgraduates	79.72% 33.33%	80% 65%	80% 65%	----	----	74.23% 10.62% (Still in progress)	----	Can be improved	Less offerings by the industry due to slow down	
D.2	- Finishing	<b>Average annual</b>										

	Strategy/Activities	Indicators	Institutional Baseline (Pre-TEQIP) in 2010-11	Proposed Target for 2 years (31 <sup>st</sup> Dec 2012)		Proposed Budget Estimate		Status due to input of TEQIP as on date of final round of performance auditing		Outcome against Goals (TEQIP)	Remarks	
				Physical( No.*/%a ge)	Institutional	TEQIP	Institutional	TEQIP	Physical( No.*/%a ge)			Financial (Rs. Lakh)
					(No.*/% age)	(No.*/% age)	(Rs.Lakh )	(Rs.Lakh )				
	School - Industrial training	<b>salary (Rs. Lakh) of:</b> <ul style="list-style-type: none"> <li>• Undergraduates</li> <li>• Postgraduates</li> </ul>	3.5 3	4 3.5	4 3.5	---- ----	---- ----	3.25 3.50	---- ----	Satisfactory	Institute have very little control over it	
D.3		<b>Share of UG students attended industrial internship (percentage)</b>	4	6	6	----	----	412	----	Improved	Though not part of curriculam institute should strive to increase this feature of learning	
D.4		<b>Any other</b>										



**Table-3: Institutional Project Budget\***

**TEQIP funds received (Instalment)** : 1<sup>st</sup> / 2<sup>nd</sup> / 3<sup>rd</sup> / 4<sup>th</sup>  
**1<sup>st</sup> Instalment** : Amount Rs. 32, 00,000 Date: 23/07/2012  
**2<sup>nd</sup> Instalment** : Amount Rs. 80, 00,000 Date: 09/11/2013  
**3<sup>rd</sup> Instalment** : Amount Rs. 80, 00,000 Date: 22/08/2015 Total funds received: Rs.192, 00,000/-

S. No	Activities	Project life allocation (Rs. in lakhs)	Expenditure in Financial year (Rs. In lakhs)	
			2011-12	2016-17 (as on final round of PA)
1	<b>Improvements for teaching, training and learning facilities through:</b>	NA	NA	NA
	<b>a. Starting new PG programmes</b>	NA	NA	NA
	<b>b. Modernization and strengthening of laboratories<sup>+</sup></b>	NA	NA	NA
	<b>c. Establishment of new laboratories for existing UG and PG programmes and for new PG programmes</b>	NA	NA	NA
	<b>d. Modernization of classrooms<sup>+</sup></b>	NA	NA	NA
	<b>e. Updating of Learning Resources</b>	NA	NA	NA
	<b>f. Procurement of furniture</b>	NA	NA	NA
	<b>g. Establishment/Upgrading of Central and Departmental Computer Centers<sup>+</sup></b>	NA	NA	NA
	<b>h. Modernization/improvements of supporting departments<sup>+</sup></b>	NA	NA	NA
	<b>i. Modernization and strengthening of libraries and increasing access to knowledge resources</b>	100	---	100.03184
	<b>j. Minor Civil Works</b>	NA	NA	NA
2	<b>Providing Teaching and Research Assistantships to increase enrolment in existing and new PG programmes in Engineering disciplines</b>	40	---	26.61646
3	<b>Enhancement of R&amp;D and institutional consultancy activities</b>	25	---	0.73125
4	<b>Faculty and Staff Development (including faculty qualification upgradation, pedagogical training, and organising/participation of faculty in workshops, seminars and conferences) for improved competence</b>	90	1.20206	59.34166

<b>5</b>	<b>Enhanced Interaction with Industry</b>	35	---	28.69494
<b>6</b>	<b>Institutional Management Capacity enhancement</b>	12	---	9.62887
<b>7</b>	<b>Implementation of institutional academic reforms</b>	42	10.00000	42.62581
<b>8</b>	<b>Academic support for weak students</b>	16	0.34000	9.60900
<b>9</b>	<b>Incremental Operating Cost</b>	40	0.02614	23.57848
	<b>TOTAL</b>	400	11.56820	300.85831

\* Refer IDP

<sup>+</sup> Not applicable for Institutions participating under Sub-component 1.2.

Note: Procurement of equipment, minor civil works, furniture etc. is not allowed for Private unaided Institutions.  
Not applicable (NA) can be mention if appropriate