



Yearly Status Report - 2016-2017

Part A

Data of the Institution

| | |
|---|-----------------------------|
| 1. Name of the Institution | GMR INSTITUTE OF TECHNOLOGY |
| Name of the head of the Institution | Dr. C L V R S V PRASAD |
| Designation | Principal |
| Does the Institution function from own campus | Yes |
| Phone no/Alternate Phone no. | 08941-251592 |
| Mobile no. | 9441406014 |
| Registered Email | gmr-it@gmrgroup.in |
| Alternate Email | prasad.clvrsv@gmrgroup.in |
| Address | GMR NAGAR |
| City/Town | RAJAM |
| State/UT | Andhra Pradesh |
| Pincode | 532127 |
| 2. Institutional Status | |

| | |
|---|------------------------------|
| Autonomous Status (Provide date of Conformant of Autonomous Status) | 17-Aug-2012 |
| Type of Institution | Co-education |
| Location | Rural |
| Financial Status | Self financed |
| Name of the IQAC co-ordinator/Director | Dr. V. Chitti Babu |
| Phone no/Alternate Phone no. | 08941251593 |
| Mobile no. | 9443122702 |
| Registered Email | iqac@gmrit.edu.in |
| Alternate Email | rajamurugadoss.j@gmrgroup.in |

3. Website Address

| | |
|--|---|
| Web-link of the AQAR: (Previous Academic Year) | http://gmrit.org/AQAR2015-16.pdf |
|--|---|

4. Whether Academic Calendar prepared during the year

Yes

if yes, whether it is uploaded in the institutional website:
Weblink :

[http://61.246.187.116/gmritnew/ssr/criteria-2/2.3.4/Additional Info 2.3.4\(a2\) Preparation%20and%20adherence Academic%20calendars.pdf](http://61.246.187.116/gmritnew/ssr/criteria-2/2.3.4/Additional%20Info%202.3.4(a2)%20Preparation%20and%20adherence%20Academic%20calendars.pdf)

5. Accreditation Details

| Cycle | Grade | CGPA | Year of Accreditation | Validity | |
|-------|-------|------|-----------------------|-------------|-------------|
| | | | | Period From | Period To |
| 1 | A | 3.24 | 2010 | 28-Mar-2010 | 14-Sep-2015 |
| 2 | A | 3.16 | 2015 | 14-Sep-2015 | 14-Sep-2020 |

6. Date of Establishment of IQAC

04-Feb-2009

7. Internal Quality Assurance System

| Quality initiatives by IQAC during the year for promoting quality culture | | |
|---|-----------------|---------------------------------------|
| Item /Title of the quality initiative by IQAC | Date & Duration | Number of participants/ beneficiaries |
| | | |

| | | |
|---|------------------|----|
| Outcome Based Education and Accreditation | 17-May-2017 1 | 29 |
| Familiarization of various Funding Schemes for research and faculty Development | 16-Mar-2017 3 | 75 |
| Establishment of Virtual Laboratories | 09-Jan-2017 2 | 29 |
| Internal Audit #2 | 23-Jan-2017 2 | 19 |
| Sensitization on CTLP format | 15-Oct-2016 1 | 35 |
| Introduction of New Teaching Pedagogy Focussing on Learner Centric Environment [Cohesive Teaching | 15-Oct-2016 1 | 40 |
| Workshop on Object Oriented Enriched Revised Bloom's Taxonomy | 24-Sep-2016 1 | 20 |
| Sensitization Program on NBA | 08-Sep-2016 1 | 19 |
| Empowering Engineering Faculty in Question Paper Setting | 19-Jul-2016 1 | 50 |
| Internal Audit #1 | 01-Jul-2016 2 | 19 |
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8. Provide the list of Special Status conferred by Central/ State Government-UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

| Institution/Department/Faculty | Scheme | Funding Agency | Year of award with duration | Amount |
|--|--------|----------------|-----------------------------|--------|
| No Data Entered/Not Applicable!!! | | | | |
| No Files Uploaded !!! | | | | |

9. Whether composition of IQAC as per latest NAAC guidelines:

Yes

Upload latest notification of formation of IQAC

[View File](#)

10. Number of IQAC meetings held during the year :

4

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website

Yes

| | |
|---|---------------------------|
| Upload the minutes of meeting and action taken report | View File |
| 11. Whether IQAC received funding from any of the funding agency to support its activities during the year? | No |
| 12. Significant contributions made by IQAC during the current year(maximum five bullets) | |
| One of the major contributions of IQAC is that the introduction of an innovative teaching-learning pedagogy viz. Cohesive Teaching Learning Practices (CTLP) with the aim of transforming teacher-centric to the student-centric learning approach. | |
| Executed the academic audit as per the institutional norms to ensure the systems and processes are in place and subsequent corrective actions are initiated to close the audit process. | |
| Motivated the members of faculty by the members of IQAC with continuous monitoring and developed e-courseware for 100+ courses as per the format of CTLP and initiated in developing e-courseware in video format by establishing a dedicated IT infrastructure. | |
| Facilitated the design framework for developing a well-rounded holistic curriculum under academic regulation 2016. | |
| Identified appropriate resource person (s) for the following activities for effective implementation and monitoring by the members of IQAC. a. To sensitize the members of faculty in the field of OutcomeBased Education (OBE) to refine and validate the mapping of existing Course Outcomes and Program Outcomes through objectoriented Enriched Revised Blooms Taxonomical approach and the true philosophy of program outcomes. This program is organized to sensitize and strengthen the proficiency of the members of faculty to take a deep dive into the OBE process b. To sensitize the members of faculty with regard to set the assessment tool effectively inline with OBE | |

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13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year

| Plan of Action | Achivements/Outcomes |
|--|--|
| Improve collaborative research through joint publications | More than 100 papers were published in Scopus journals through joint publications |
| Enhance the activities of research forums to impart the knowledge on emerging and thrust areas | Conducted various workshops on patents, copyrights and emerging trends in engineering by external experts. Further, faculty interactions with Dr. D. R. Prasadharaju (Former Scientist-DST) were conducted monthly to review the research outcome in terms of |

| | |
|--|--|
| | research proposals submission to external funding agencies |
| Introduce new evaluation pattern of sessional examinations | Improvement in the assessment reduced the footprints of the concept of external examiner and provides more scope to leverage the full potential of autonomy |
| Strengthening Outcome Based Education | a) While realizing the importance of OBE and OBA, the curriculum under Academic Regulation 2016 is designed to comply with the requirements of OBE b) Faculty capacity building programme in the context of OBE is taken utmost importance and continuous grooming is done with internal and external subject matter experts c) Engagement with industries is initiated for curriculum design, delivery and assessment d) Feedback mechanism on Curriculum enabled the system a lot to capture the voice of the stakeholders at Regional, National and International Level e) Develop 50+ e-courseware in the format of CTLP and made available in the LAN |
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| | |
|--|--|
| 14. Whether AQAR was placed before statutory body ? | No |
| 15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ? | Yes |
| Date of Visit | 07-Aug-2015 |
| 16. Whether institutional data submitted to AISHE: | Yes |
| Year of Submission | 2017 |
| Date of Submission | 09-Jan-2017 |
| 17. Does the Institution have Management Information System ? | Yes |
| If yes, give a brief description and a list of modules currently operational (maximum 500 words) | Management Information System is in place to record, monitor, and ensure all the key performance indicators (KPI) are closely monitored every month. As per the annual operating plan (AOP) the targets are set for all KPIs based on the baseline values of the |

previous year and responsibility and accountability are entrusted to the all the concerned stakeholders. In the second week of every month, all the KPIs are reviewed for their progress and actionable points are recorded to pursue with. Following are the indicative parameters contributing to KPIs. Academic performance, Students training, Placements, Research publications, Faculty training programs, Funded projects, Value added courses, Students Faculty achievements, Seminars and Conferences conducted, Faculty and student participation outside and Outreach programs.

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Design and Development

1.1.1 – Programmes for which syllabus revision was carried out during the Academic year

| Name of Programme | Programme Code | Programme Specialization | Date of Revision |
|-------------------|----------------|--|------------------|
| BTech | 01 | Civil Engineering | 04/02/2017 |
| BTech | 02 | Electrical and Electronics Engineering | 04/02/2017 |
| BTech | 03 | Mechanical Engineering | 04/02/2017 |
| BTech | 05 | Computer Science and Engineering | 04/02/2017 |
| BTech | 12 | Information technology | 04/04/2017 |

[View File](#)

1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

| Programme with Code | Programme Specialization | Date of Introduction | Course with Code | Date of Introduction |
|---------------------|--------------------------|----------------------|----------------------------------|----------------------|
| BTech | All branches | 20/06/2016 | English Communication Skills I | 20/06/2016 |
| BTech | All branches | 20/06/2016 | English Communication Skills II | 20/06/2016 |
| BTech | All branches | 20/06/2016 | English Communication Skills lab | 20/06/2016 |
| BTech | All branches | 20/06/2016 | Summer Internship | 20/06/2016 |
| BTech | All branches | 20/06/2016 | Full Semester | 20/06/2016 |

| | | | | |
|---------------------------|--------------|------------|------------|------------|
| | | | Internship | |
| BTech | All branches | 20/06/2016 | Project | 20/06/2016 |
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1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

| Programme/Course | Programme Specialization | Dates of Introduction |
|---------------------------|--------------------------------------|-----------------------|
| BTech | Mechanical engineering | 20/06/2016 |
| BTech | Electrical & Electronics Engineering | 20/06/2016 |
| BTech | Chemical Engineering | 20/06/2016 |
| BTech | Information Technology | 20/06/2016 |
| BTech | Common to All branches | 20/06/2016 |
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the College level during the Academic year.

| Name of programmes adopting CBCS | Programme Specialization | Date of implementation of CBCS/Elective Course System |
|----------------------------------|---|---|
| BTech | Mechanical engineering | 20/06/2016 |
| BTech | Electrical & Electronics Engineering | 20/06/2016 |
| BTech | Chemical Engineering | 20/06/2016 |
| BTech | Information Technology | 20/06/2016 |
| BTech | Computer Science and Engineering | 20/06/2016 |
| BTech | Power Engineering | 20/06/2016 |
| BTech | Civil Engineering | 20/06/2016 |
| BTech | Electronics & Communication Engineering | 20/06/2016 |

1.3 – Curriculum Enrichment

1.3.1 – Value-added courses imparting transferable and life skills offered during the year

| Value Added Courses | Date of Introduction | Number of Students Enrolled |
|--|----------------------|-----------------------------|
| .NET Programming | 20/06/2016 | 36 |
| PRIMAVERA P6 | 19/09/2016 | 15 |
| Hands on Training on Arduino uno -A Practical Approach | 23/01/2017 | 11 |
| ANSYS | 18/07/2016 | 45 |
| 3D Printing | 02/01/2017 | 15 |
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1.3.2 – Field Projects / Internships under taken during the year

| Project/Programme Title | Programme Specialization | No. of students enrolled for Field Projects / Internships |
|-------------------------|--------------------------|---|
|-------------------------|--------------------------|---|

| | | |
|---------------------------|---|-----|
| BTech | Chemical Engineering | 51 |
| BTech | Civil Engineering | 68 |
| BTech | Electronics & Communication Engineering | 197 |
| BTech | Electrical and Electronics Engineering | 126 |
| BTech | Computer Science and Engineering | 152 |
| BTech | Information Technology | 81 |
| BTech | Mechanical engineering | 140 |
| BTech | Power Engineering | 59 |
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

| | |
|-----------|-----|
| Students | Yes |
| Teachers | Yes |
| Employers | Yes |
| Alumni | Yes |
| Parents | Yes |

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution?
(maximum 500 words)

| |
|--|
| Feedback Obtained |
| <p>The Institution has a well structured feedback mechanism on Curriculum in-place to develop and revise the curriculum on an ongoing basis from all the possible stakeholders viz. Alumni, Industries, Potential Employers, Representatives from Professional Bodies, Academia and Parents. The feedback mechanism is developed with an aim to capture the voice of the stakeholders to understand the demand driven needs of the stakeholders at different levels viz. Region, National and International. The feedback is collected through electronic mail communication and also during their visit to the Institution. The consolidated feedback received from various stakeholders over a period of of time, preferably once in six months are placed before the respective Board of Studies (BoS) for necessary discussion after having feedback analysis with internal members of BoS. Accordingly the changes are made for the final approval by the Academic Council.</p> |

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

| Name of the Programme | Programme Specialization | Number of seats available | Number of Application received | Students Enrolled |
|-----------------------|----------------------------|---------------------------|--------------------------------|-------------------|
| Mtech | Transportation Engineering | 18 | 14 | 14 |
| Mtech | Thermal Engineering | 18 | 10 | 10 |
| BTech | Power Engineering | 60 | 28 | 28 |

| | | | | |
|-------|---|-----|-----|-----|
| BTech | Information Technology | 60 | 60 | 60 |
| BTech | Chemical Engineering | 60 | 28 | 28 |
| BTech | Computer Science Engineering | 180 | 180 | 180 |
| BTech | Electronics & Communication Engineering | 180 | 180 | 180 |
| BTech | Mechanical Engineering | 120 | 120 | 120 |
| BTech | Electrical & Electronics Engineering | 120 | 116 | 116 |
| BTech | Civil Engineering | 120 | 116 | 116 |

[View File](#)

2.2 – Catering to Student Diversity

2.2.1 – Student - Full time teacher ratio (current year data)

| Year | Number of students enrolled in the institution (UG) | Number of students enrolled in the institution (PG) | Number of fulltime teachers available in the institution teaching only UG courses | Number of fulltime teachers available in the institution teaching only PG courses | Number of teachers teaching both UG and PG courses |
|------|---|---|---|---|--|
| 2016 | 828 | 48 | 207 | 21 | 228 |

2.3 – Teaching - Learning Process

2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

| Number of Teachers on Roll | Number of teachers using ICT (LMS, e-Resources) | ICT Tools and resources available | Number of ICT enabled Classrooms | Number of smart classrooms | E-resources and techniques used |
|----------------------------|---|-----------------------------------|----------------------------------|----------------------------|---------------------------------|
| 228 | 228 | 6 | 66 | 3 | 20407 |

[View File of ICT Tools and resources](#)

[View File of E-resources and techniques used](#)

2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

1. Mentoring system is in place for students and 15-20 students are assigned to each faculty to support and guide the students for holistic development. 2. The mentees are counseled 3 to 4 times in a semester and special attention is paid on a mentee if required. 3. Academic progress of the students is continuously monitored before and after every examination and the slow learners are supported with extra inputs. 4. The issues are escalated based on the seriousness of the problem and also ensures proper support to resolve the issues 5. Regular counseling sessions with Professional Psychologist.

| Number of students enrolled in the institution | Number of fulltime teachers | Mentor : Mentee Ratio |
|--|-----------------------------|-----------------------|
| 3405 | 228 | 1:15 |

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

| No. of sanctioned positions | No. of filled positions | Vacant positions | Positions filled during the current year | No. of faculty with Ph.D |
|-----------------------------|-------------------------|------------------|--|--------------------------|
| 232 | 206 | 22 | 22 | 2 |

2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

| Year of Award | Name of full time teachers receiving awards from state level, national level, international level | Designation | Name of the award, fellowship, received from Government or recognized bodies |
|---------------|---|---------------------|--|
| 2017 | Dr.T. Prabhakar | Associate Professor | Session Chair for Joint International Conference on Artificial Intelligence and Evolutionary Computations in Engineering Systems (ICAIECES-2017) Power, Circuit and Information Technologies (ICPCIT-2017) organised by Madanapalle Institute of Technol |
| 2017 | Dr.T. Prabhakar | Associate Professor | Judge for Technical Paper paper and poster presentation as a part of National Technical symposium Converge 2K17 at Sri Venkateswara College |
| 2017 | Dr T.S.Kishore | Associate Professor | Best Reviewer Award, Solar Energy, Elsevier |
| 2017 | Dr.C L V R S V Prasad | Principal | Member Executive Council, Apex body of JNTUK- Kakinada, AP. |
| 2017 | Dr.M.V.A.Raju Bahubalendruni | Associate Professor | Early career researcher Award - DST - SERB - An Automated Assembly Sequence Planning System to solve Parallel and Linear Assemblies |
| 2016 | Dr. V. Rambabu | Professor | Member of Governing |

| | | | |
|---------------------------|-------------------------|----------------|------------------------------------|
| | | | Council, GMRIT |
| 2016 | Mr. M. Venkateswara Rao | Professor | Member of Governing Council, GMRIT |
| 2016 | Dr.C L V R S V Prasad | Principal | Chairman , Academic council |
| 2016 | Dr. J.Raja Murugadoss | Vice Principal | Member Secretary, Academic Council |
| 2016 | Dr.M.Krishna Prasad | Professor | Member , Academic Council |
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2.5 – Evaluation Process and Reforms

2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

| Programme Name | Programme Code | Semester/ year | Last date of the last semester-end/ year-end examination | Date of declaration of results of semester-end/ year- end examination |
|---------------------------|----------------|----------------|--|---|
| BTech | 2 | 2nd semester | 24/05/2017 | 05/06/2017 |
| BTech | 2 | 1st semester | 22/12/2016 | 02/01/2017 |
| BTech | 1 | 8th semester | 27/04/2017 | 03/05/2017 |
| BTech | 1 | 7th semester | 17/11/2016 | 25/11/2016 |
| BTech | 1 | 6th semester | 28/04/2017 | 10/05/2017 |
| BTech | 1 | 5th semester | 18/11/2016 | 28/11/2016 |
| BTech | 1 | 4th semester | 12/05/2017 | 23/05/2017 |
| BTech | 1 | 3rd semester | 30/11/2016 | 08/12/2016 |
| BTech | 1 | 2nd semester | 24/05/2017 | 05/06/2017 |
| BTech | 1 | 1st semester | 22/12/2016 | 02/01/2017 |
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2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

| Number of complaints or grievances about evaluation | Total number of students appeared in the examination | Percentage |
|---|--|------------|
| 47 | 6716 | 0.69 |

2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

<http://61.246.187.116/gmritnew/ssr/Others/POs%20and%20COs%20of%20all%20Programs%202016-2017.pdf>

2.6.2 – Pass percentage of students

| Programme Code | Programme Name | Programme Specialization | Number of students appeared in the final year examination | Number of students passed in final year examination | Pass Percentage |
|----------------|----------------|--------------------------|---|---|-----------------|
|----------------|----------------|--------------------------|---|---|-----------------|

| | | | | | |
|---------------------------|-------|---|-----|-----|-------|
| 34 | BTech | Power Engineering | 59 | 44 | 74.58 |
| 12 | BTech | Information Technology | 39 | 36 | 92.31 |
| 8 | BTech | Chemical Engineering | 42 | 22 | 52.38 |
| 5 | BTech | Computer Science and Engineering | 152 | 115 | 75.66 |
| 4 | BTech | Electronics & Communication Engineering | 197 | 157 | 79.70 |
| 3 | BTech | Mechanical Engineering | 134 | 118 | 88.06 |
| 2 | BTech | Electrical & Electronics Engineering | 129 | 102 | 79.07 |
| 1 | BTech | Civil Engineering | 68 | 60 | 88.24 |
| View File | | | | | |

2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

http://61.246.187.116/gmritnew/ssr/Others/SSS_2016-2017.pdf

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Promotion of Research and Facilities

3.1.1 – The institution provides seed money to its teachers for research

| |
|--|
| Yes |
| Name of the teacher getting seed money |
| Mrs. K. Srividya |
| View File |

3.1.2 – Teachers awarded National/International fellowship for advanced studies/ research during the year

| Type | Name of the teacher awarded the fellowship | Name of the award | Date of award | Awarding agency |
|---|--|-------------------|---------------|-----------------|
| No Data Entered/Not Applicable !!! | | | | |
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3.2 – Resource Mobilization for Research

3.2.1 – Research funds sanctioned and received from various agencies, industry and other organisations

| Nature of the Project | Duration | Name of the funding agency | Total grant sanctioned | Amount received during the year |
|---------------------------|----------|----------------------------|------------------------|---------------------------------|
| Major Projects | 1095 | ISRO | 17.04 | 0 |
| Minor Projects | 1095 | DST | 17 | 14.6 |
| Minor Projects | 1095 | UGC | 3.31 | 0 |
| Minor Projects | 1095 | UGC | 1.7 | 0 |
| Any Other (Specify) | 365 | GMRIT | 5.37 | 0 |
| Any Other (Specify) | 365 | GMRIT | 1.7 | 0 |
| Any Other (Specify) | 365 | GMRIT | 4.77 | 0 |
| Any Other (Specify) | 365 | GMRIT | 0.6 | 0 |
| Any Other (Specify) | 365 | GMRIT | 0.83 | 0 |
| Any Other (Specify) | 365 | GMRIT | 12.03 | 0 |
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3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

| |
|----|
| 11 |
|----|

3.3 – Innovation Ecosystem

3.3.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

| Title of workshop/seminar | Name of the Dept. | Date |
|--|--|------------|
| Workshop on ANSYS | Mechanical Engineering | 18/07/2016 |
| Workshop on Advancement Construction techniques and practises in Civil Engineering | Civil Engineering | 31/03/2017 |
| Quad Copter Workshop | Electronics Communication Engineering | 17/05/2017 |
| IOT workshop | Computer Science Engineering | 01/02/2017 |
| Workshop on Urban Mobility for Smart City Development | Civil Engineering | 01/04/2016 |
| Workshop on Arduino UNO- Practical Approach | Electrical and Electronics Engineering | 01/02/2017 |
| Workshop on .NET Programming | Computer Science Engineering | 07/01/2017 |
| Seminar on Emergence of Cognitive IoT Systems | Information Technology | 19/12/2016 |
| Training progrm on 3D Printing | Mechanical Engineering | 01/02/2017 |

| | | |
|--|---------------------------------------|------------|
| Workshop on Guesture Controlled Robotics | Electronics Communication Engineering | 17/05/2017 |
| Deployment on cloud environment using frameworks Tools | Information Technology | 01/03/2017 |
| Deployment on cloud environment using frameworks Tools | Information Technology | 21/03/2017 |
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3.3.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

| Title of the innovation | Name of Awardee | Awarding Agency | Date of award | Category |
|--|---|---|---------------|---------------------------|
| Automated Mobility System for bedridden People | JAMMU VENKATA R AGHURAMUniversi ty College Of Engineering Viz ianagaram,JNTUK | University College Of Engineering Viz ianagaram,JNTUK | 01/02/2017 | Project Design Contest |
| Douglas Techinsecta | SHAIK.ABDUL SALAM | University College Of Engineering Viz ianagaram,JNTUK | 01/02/2017 | Project Design Contest |
| Alert Sytems at Reservoirs for saving life | I.Balabhargavi | Aditya Institute of Technology and Management, Tekkali, Srikakulam Dist., A.P., India | 17/02/2017 | Project Design Contest |
| Douglas Techinsecta | ASHISH NAIK | Gayatri Vidya Parishad College Of Engi neering,VSKP | 22/02/2017 | Project Design Contest |
| Douglas Techinsecta | ANNAM V V M GANESH KARTHIK | University College Of Engineering Viz ianagaram,JNTUK | 17/01/2017 | Project Design Contest |
| Douglas Techinsecta | Y.S.S.C.LAKSHMA N | Gayatri Vidya Parishad College Of Engi neering,VSKP | 22/02/2017 | Project Design Contest |
| Automated Mobility System for bedridden People | KONTALA RAMA | University College Of Engineering Vizianagaram, JNTUK, Kakinada | 01/02/2017 | Project Design Contest |
| Coding Competetion | JALLU RAVI KIRAN | TCS-CODEVITA 2018 | 19/02/2017 | TCS Global Coding Contest |
| Coding Competetion | RATNAKAR POTNURU | TCS-CODEVITA 2017 | 19/02/2017 | TCS Global Coding Contest |
| Bidirectional Visitor Count | D.Rohit | GMR Institute of Technology | 17/01/2017 | Project Design Contest |

[View File](#)

3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

| Incubation Center | Name | Sponsored By | Name of the Start-up | Nature of Start-up | Date of Commencement |
|---|------|--------------|----------------------|--------------------|----------------------|
| No Data Entered/Not Applicable !!! | | | | | |
| View File | | | | | |

3.4 – Research Publications and Awards

3.4.1 – Ph. Ds awarded during the year

| Name of the Department | Number of PhD's Awarded |
|---|-------------------------|
| Civil Engineering | 1 |
| Computer Science and Engineering | 1 |
| Information Technology | 1 |
| Mechanical Engineering | 1 |
| Electronics and Communication Engineering | 2 |
| Electrical and Electronics Engineering | 2 |
| Chemical Engineering | 1 |
| Basic Science and Humanities | 1 |

3.4.2 – Research Publications in the Journals notified on UGC website during the year

| Type | Department | Number of Publication | Average Impact Factor (if any) |
|---------------------------|---|-----------------------|--------------------------------|
| International | Mechanical Engineering | 40 | 2.27 |
| International | Electrical and Electronics Engineering | 35 | 2.27 |
| International | Computer Science and Engineering | 23 | 2.27 |
| International | Electronics and Communication Engineering | 23 | 2.27 |
| International | Chemical Engineering | 19 | 2.27 |
| International | Power Engineering | 13 | 2.27 |
| International | Information Technology | 12 | 2.27 |
| International | Basic Science and Humanities | 10 | 2.27 |
| International | Civil Engineering | 8 | 2.27 |
| View File | | | |

3.4.3 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

| Department | Number of Publication |
|------------|-----------------------|
|------------|-----------------------|

| | |
|---|----|
| Basic Science and Humanities | 12 |
| Computer Science and Engineering | 2 |
| Information Technology | 3 |
| Electronics and Communication Engineering | 17 |
| Electrical and Electronics Engineering | 7 |
| Mechanical Engineering | 6 |
| Civil Engineering | 4 |
| Chemical Engineering | 8 |
| Power Engineering | 3 |
| View File | |

3.4.4 – Patents published/awarded during the year

| Patent Details | Patent status | Patent Number | Date of Award |
|---|---------------|---------------|---------------|
| No Data Entered/Not Applicable !!! | | | |
| View File | | | |

3.4.5 – Bibliometrics of the publications during the last academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

| Title of the Paper | Name of Author | Title of journal | Year of publication | Citation Index | Institutional affiliation as mentioned in the publication | Number of citations excluding self citation |
|--|---|--|---------------------|----------------|---|---|
| Influence of biodiesel and its blends on ci engine performance and emissions: A review | S.Chiranjeeva Rao, B. Ravi Sankar, D. Sai Kiran | Biofuels Journal | 2016 | 4 | GMRIT | 8 |
| Power conversion in renewable energy systems: A review advances in wind and pv system | Suresh Kumar LV | International Journal of Energy Research | 2017 | 4 | GMRIT | 8 |
| Use of novel biosorbent mimusops elengi for removing zinc ions | G.Kalyani, Y.Prasanna Kumar and P.King | Rasayan Journal of Chemistry | 2017 | 3 | GMRIT | 8 |

| | | | | | | |
|---|--|--|------|---|-------|----|
| from aqueous solutions -process optimization using central composite design | | | | | | |
| Experimental investigation on adsorption of lead from aqueous solution using activated carbon from the waste rubber tire: optimization of process parameters using central composite design | H. Joga Rao, Y. Prasanna Kumar and P. King | Rasayan Journal of Chemistry | 2017 | 1 | GMRIT | 12 |
| Review of simulation approaches in reliability and availability modeling | M. Srinivasa Rao and V.N.A. Naikan | International Journal of Performance Engineering | 2016 | 5 | GMRIT | 13 |
| Pattern search algorithm based automatic online parameter estimation for AGC with effects of wind power | Suresh Kumar LV | International Journal of Electrical Power Energy Systems | 2017 | 4 | GMRIT | 15 |
| Fault detection in uncertain lpv systems | Kumar P. Bharani Chandra, | European journal of control | 2017 | 9 | GMRIT | 16 |

| | | | | | | |
|---|--|---|------|----|-------|----|
| with imperfect scheduling parameter using sliding mode observers | | | | | | |
| Effect of laves phase on the creep rupture properties of P92 steel | Lakshmiprasad Maddi, | Materials Science and Engineering A | 2016 | 31 | GMRIT | 24 |
| Thermoelectric power generation by recovering heat energy from the exhaust gases: A green technology approach | C.L.V.R.S. V.Prasad, K.Santa Rao and P.Govinda Rao | International Journal of Chem Tech Research | 2016 | 3 | GMRIT | 3 |
| A review on chemical and mechanical properties of natural fiber reinforced polymer composites | A.Lakshumu Naidu | International Journal of Performability and Engineering | 2016 | 3 | GMRIT | 28 |

[View File](#)

3.4.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

| Title of the Paper | Name of Author | Title of journal | Year of publication | h-index | Number of citations excluding self citation | Institutional affiliation as mentioned in the publication |
|---|--|---|---------------------|---------|---|---|
| Effect of process parameters on the bioremediation of diesel contaminated soil by | Abu Lahel, Abaynesh Belay Fanta, Natalia Sergienko, Manisha Shakya, M. Estefanía | International Biodeterioration Biodegradation | 2017 | 92 | 23 | GMRIT |

| | | | | | | |
|---|--|---|------|----|----|-------|
| mixed microbial consortia | López, Shishir K. Behera, Eldon R. Rene, Hung-Suck Park | | | | | |
| Ethanol mediated adsorption onto Zn-loaded pinecone biochar: experimental investigation, modeling, and optimization using hybrid artificial neural network-genetic algorithm approach | Mohd. Zafar, N. Van Vinh, Shishir Kumar Behera, Hung-Suck Park | Journal of Environmental Sciences | 2017 | 90 | 12 | GMRIT |
| Silica@PMA core-shell structure as recyclable catalyst for the synthesis of quinolines | D. Tejeswara Rao, K.K.oteswara Rao and B.Nagamani Naidu | Der Pharma Chemica | 2016 | 27 | 0 | GMRIT |
| Development of in-pipe robots for inspection and cleaning tasks: survey, classification and comparison | B.B.V.L. Deepak, M.V.A.Raju Bahubalendruni, and B. B. Biswal | International Journal of Intelligent Unmanned Systems | 2016 | 9 | 5 | GMRIT |
| Hybridized genetic-immune based strategy to obtain | Bala Murali Gunji, BBVL. Deepak, MVA Raju B | International Journal of Engineering Computations | 2017 | 22 | 26 | GMRIT |

| | | | | | | |
|--|---|---|------|-----|----|-------|
| feasible assembly sequences | ahubalendr uni, and B. B. Biswal | | | | | |
| Fault detection in uncertain lpv systems with imperfect scheduling parameter using sliding mode observers | Kumar P. Bharani Chandra, H. Alwi, and C. Edwards | European journal of control | 2017 | 59 | 27 | GMRIT |
| Performance of solar power refrigerator using different materials: A comparison | P. Govinda Rao, V. Jagadessh, K. Santa Rao, V. Chittibabu | International Journal of Manufacturing, Materials, and Mechanical Engineering | 2016 | 8 | 0 | GMRIT |
| Effect of laves phase on the creep rupture properties of P92 steel | Lakshmiprasad Maddi, GS Deshmukh, AR Ballal, Peshwe, RK Paretkar, MD Mathew | Materials Science and Engineering A | 2016 | 222 | 31 | GMRIT |
| Review of simulation approaches in reliability and availability modeling | M. Srinivasa Rao and V.N.A. Naikan | International Journal of Performability Engineering | 2016 | 21 | 19 | GMRIT |
| Forecasting foreign exchange rates using hybrid functional link RBF neural network and Levenberg-Marquardt | Ajit Kumar Rout , P.K Dash | International Journal of Intelligent Décisions Technologies | 2016 | 10 | 8 | GMRIT |

learning
algorithm

[View File](#)

3.4.7 – Faculty participation in Seminars/Conferences and Symposia during the year

| Number of Faculty | International | National | State | Local |
|-----------------------------|---------------|----------|-------|-------|
| Attended/Seminars/Workshops | 19 | 61 | 18 | 15 |
| Presented papers | 46 | 11 | 5 | 0 |
| Resource persons | 0 | 1 | 1 | 1 |

[View File](#)

3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

| Name of the Consultan(s) department | Name of consultancy project | Consulting/Sponsoring Agency | Revenue generated (amount in rupees) |
|---|---|--|--------------------------------------|
| Civil Engineering | Rajam Naga Patchayat-Conducting Base line survey | Rajam Nagar Panchayati, Rajam | 1833000 |
| Information Technology | EPRIS | NRSC, Bangalore | 1010000 |
| Basic Science and Humanities | Holistic development of Gram Panchayatis under Unnat Bharat Abhiyan | IIT Delhi | 175000 |
| Examination Section | Infrastructure utilization for Conducting Examinations | TCS-ION | 203828 |
| Civil Engineering | Concrete Mix Design for Structural Application | K R S Construction, Srikakulam | 41000 |
| Civil Engineering | Concrete Mix Design for Structural Application | Panchayati Raj and Irrigation, Amudalasa | 32300 |
| Electronics and Communication Engineering | Swachta Mission DW S | Ministry of Information and Broadcasting | 49052 |
| Electronics and Communication Engineering | Broadcasting charges for Swachh Bharat- DW S | Ministry of Information and Broadcasting | 49266 |
| Civil Engineering | Concrete Mix Design for Structural Application | Panchayati Raj and Irrigation, Amudalasa | 28000 |
| Civil Engineering | Concrete Mix Design for Structural Application | Sai Ram Infrastructure, Vizag | 27000 |

3.5.2 – Revenue generated from Corporate Training by the institution during the year

| Name of the Consultan(s) department | Title of the programme | Agency seeking / training | Revenue generated (amount in rupees) | Number of trainees |
|--|---|--|--------------------------------------|--------------------|
| Mechanical Engineering | 3D Printing and advanced IC engines | AITAM Tekkali,VIIT, Duvvada, Visakhapatnam,N.S.Raju Institute of Science and Technology, Visakhapatnam,KIIT University, Vijayawada,GVPCOE, Visakhapatnam,PVPSIT, Vijayawada,Aurora Engineering College hyderabad, | 26000 | 26 |
| Civil Engineering | Advanced Construction techniques and practices in Civil Engineering | Coastal Institute of Technology,Kothavalasa,Sagi Ramakrishnam Raju Engineering College,Andhra University,GVP College of Engineering,Baba Institute of Technology,SVP College of Engineering,Gudlavalluru Engineering College,AITAM College of Engineering, | 11250 | 16 |
| Electrical and Electronics Engineering | Thrust areas of research on renewable energy and storage | GVP College of Engineering,Avanthi St.Theresa College of Engg,SS College of Engg,MVGR. College of engg,SRKR Engg college, ,SV College of Engg Tech,NIT Calicut,GVP College of Engineering,Lendi | 9000 | 12 |

| | | | | |
|---|-------------------------------------|--|-------|----|
| | | Institute of Engineering and Technology, Vignans womens E | | |
| Chemical Engineering | Aspen Plus | GVP College of Engg., Visakhapatnam MVGR College of Engg., Vizianagaram | 1500 | 5 |
| Electronics and Communication Engineering | Signal processing and communication | AITAM, CITAM, SVC ET, SVECW, Lendi Institute of Engineering and Technology, SITAM, Vizag Institute of Technology, St. Theresa Inst. of Technology, ANITS, MVGR , VIIT, Vignan Institute of Technology, Pragathi Engg college, Sri Vidyaniketan Engg college, | 16500 | 22 |
| Chemical Engineering | Workshop on Aspen Plus | GVP College of Engg., Visakhapatnam MVGR College of Engg., Vizianagaram | 1500 | 5 |
| View File | | | | |

3.6 – Extension Activities

3.6.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

| Title of the activities | Organising unit/agency/ collaborating agency | Number of teachers participated in such activities | Number of students participated in such activities |
|--|---|--|--|
| Conducted training classes for school children on Ramanujan talent test at GMRIT | GAMYAM in association with CSW-GMRVF | 2 | 65 |
| Conducted computer Workshops for 8th and 9th standard school children at GMRIT | GAMYAM in association with CSW-GMRVF | 2 | 65 |
| Awareness programme on casting vote | NSS UNIT/Mandal Revenue Office, | 1 | 100 |

| Rajam | | | |
|---|---|----|-----|
| Awareness Rally on HIV/AIDS | NSS UNIT/Medical Health Department | 2 | 100 |
| Awareness programme on Digital Financial Literacy for Cashless Transactions | NSS UNIT/MPUP School, Munakalavalasa/Andhra Bank, Rajam | 2 | 150 |
| Blood Donation Camp | NSS UNIT/GMR Varalakshmi CARE Hospital | 20 | 150 |
| 2k run for Unity | NSS UNIT/Department of Physical Education | 4 | 200 |
| Vanam - Manam Programme | NSS Unit/Municipal Corporation, Rajam | 10 | 200 |
| Plantation Awareness rally on plantation | NSS Unit/Eenadu Daily Telugu News paper | 10 | 200 |
| Blood Donation Camp | NSS UNIT/Indian Red Cross Society, Srikakulam | 20 | 250 |
| View File | | | |

3.6.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

| Name of the activity | Award/Recognition | Awarding Bodies | Number of students Benefited |
|---------------------------|-----------------------------|--|------------------------------|
| Blood Donation Camp | Certificate of appreciation | Indian Red Cross Society, Srikakulam District Branch | 201 |
| Plantation, NSS activity | Certificate of appreciation | Gram Panchati, Rajam | 50 |
| Clean Rajam-Green Rajam | Certificate of appreciation | Rajam Major Panchayathi, Rajam | 150 |
| View File | | | |

3.6.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

| Name of the scheme | Organising unit/Agency/collaborating agency | Name of the activity | Number of teachers participated in such activities | Number of students participated in such activities |
|--|---|--------------------------|--|--|
| Blood Donation Camp | NSS UNIT/Indian Red Cross Society, Srikakulam | Social Service | 20 | 250 |
| Plantation Awareness rally on plantation | NSS Unit/Eenadu Daily Telugu News paper | Environmental Protection | 10 | 200 |
| Vanam - Manam Programme | NSS Unit/Municipal | Environmental Protection | 10 | 200 |

| | | | | |
|---|---|--|----|-----|
| | Corporation, Rajam | | | |
| 2k run for Unity | NSS UNIT/Department of Physical Education | National Integrity | 4 | 200 |
| Blood Donation Camp | NSS UNIT/GMR Varalakshmi CARE Hospital | Social Service | 20 | 150 |
| Awareness programme on Digital Financial Literacy for Cashless Transactions | NSS UNIT/MPUP School, Munakal avalasa/Andhra Bank, Rajam | Digital Literacy | 2 | 150 |
| Awareness Rally on HIV/AIDS | NSS UNIT/Medical Health Department | AIDS awareness | 2 | 100 |
| Awareness programme on casting vote | NSS UNIT/Mandal Revenue Office, Rajam | Awareness on Human Rights | 1 | 100 |
| Siksha | GAMYAM in association with CSW-GMRVF | Conducted computer Workshops for 8th and 9th standard school children at GMRIT | 2 | 65 |
| Siksha | GAMYAM in association with CSW-GMRVF | Conducted training classes for school children on Ramanujan talent test at GMRIT | 2 | 65 |
| View File | | | | |

3.7 – Collaborations

3.7.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

| Nature of activity | Participant | Source of financial support | Duration |
|--------------------|-----------------------------|-----------------------------|----------|
| Publication | T. Prabhakar | GMRIT | 365 |
| Publication | M.Lakshmi Prasad | GMRIT | 120 |
| Publication | S S Gantayat | GMRIT | 365 |
| Publication | P. Bharani Chandra Kumar | GMRIT | 180 |
| Publication | H. Joga Rao | GMRIT | 180 |
| Publication | M.Premkumar | GMRIT | 180 |
| Publication | G.Sasi Kumar | GMRIT | 180 |

| | | | |
|---------------------------|---------------|-------|-----|
| Publication | G.Kalyani | GMRIT | 180 |
| Publication | TSLV. Ayyarao | GMRIT | 180 |
| Publication | A.Sivasangari | GMRIT | 365 |
| View File | | | |

3.7.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

| Nature of linkage | Title of the linkage | Name of the partnering institution/ industry /research lab with contact details | Duration From | Duration To | Participant |
|-------------------|-------------------------------|--|---------------|-------------|-------------|
| Internship | Institute-Industry engagement | HCL Gujarat Copper Projects, Gujarat, Pratyush Banerjee, Senior Manager (HR), Ph: 02 645-226751, Mob: 91 9051041345, pratyush_b@industancopper.com | 23/03/2017 | 30/06/2017 | 1 |
| Internship | Institute-Industry engagement | PEC Pvt Ltd, 105 Sophias Choice, 7 St Marks Road, Bengaluru, Karnataka 560001 | 04/04/2017 | 30/06/2017 | 1 |
| Internship | Institute-Industry engagement | Mudunuru software Ltd, 1st and 2nd Floor, C-Scape Building, R K Beach Road, Pandurangapuram, Visakhapatnam, Andhra Pradesh 530003, 099072 47247 | 01/04/2017 | 30/06/2017 | 2 |
| Internship | Institute-Industry engagement | JJA Infra Projects Pvt. Ltd., Visakhapatnam, 10-27-8/1, | 27/02/2017 | 30/06/2017 | 5 |

| | | | | | |
|-------------|--------------------------------------|--|------------|------------|---|
| | | KAILASA METTA SIRIPURAM UPLANDS VISA KHAPATNAM AP 530003, jjai nfra@rediffm ail.com | | | |
| Internship | Institute- Industry engagement | AIESEC, Malaysia, yo uth@aiesec.m y | 17/04/2017 | 30/06/2017 | 1 |
| Internship | Institute- Industry engagement | Ind Power, V isakhapatnam , K.Srinivasa Rao, Manager FA, 9948125588, indpower-viz ag@yahoo.co. in | 04/02/2017 | 30/06/2017 | 3 |
| Student FSI | Institute- Industry engagement | TREI, Visakh apatnam, Ms. Swathi, HR Manager, swa ti.t@trei.in | 27/06/2016 | 27/10/2016 | 1 |
| Internship | Institute- Industry engagement | Angaros (india) Pvt Ltd, Hyderabad, Akshita Mahindrakar, Associate Executive, Human Resources, Angaros (India) Pvt. Ltd. 9140 49492000, ak shita.mahind rakar@angaro s.com | 25/04/2017 | 30/06/2017 | 1 |
| Internship | Institute- Industry engagement | M.V.K. TRANS FORMERS, Plot No. 49 50, AIE, Pedagantya, Visakhapatna m-44, Mr. MVK Krishnan, 9347069117, krishnan.mvk @gmail.com | 04/03/2017 | 30/06/2017 | 2 |

| | | | | | |
|------------|-------------------------------|---|------------|------------|----|
| Internship | Institute-Industry engagement | CIITS/Tammina Infotech, Visakhapatnam, Eswar Tammina, President, 9032038029, eswar@ciitin.c.com, Sriramnagar, Visakhapatnam | 22/02/2017 | 30/06/2017 | 67 |
|------------|-------------------------------|---|------------|------------|----|

[View File](#)

3.7.3 – MoUs signed with institutions of national, international importance, other institutions, industries, corporate houses etc. during the year

| Organisation | Date of MoU signed | Purpose/Activities | Number of students/teachers participated under MoUs |
|--|--------------------|--|---|
| Focus academy for career enhancement | 15/06/2016 | Campus recruitment training | 663 |
| Think Learn | 05/12/2016 | On-Job-Training | 21 |
| Hindustan Shipyard Limited, Vishakhapatnam | 06/03/2017 | Internship | 150 |
| ISRO, Tiruvananthapuram | 06/09/2017 | Coloborative Research | 1 |
| All India Radio, Visakhapatnam | 16/02/2017 | Internship | 38 |
| IBM Pvt Ltd | 01/10/2017 | To provide IBM software required for the trainig programs | 254 |
| Tech Mahindra Ltd | 28/07/2016 | Iintegration of academic with industry for a stronger collaboration | 130 |
| EdGate Technologies Pvt Limited, Bangalore | 14/12/2016 | Lab set up, online contests, curriculam development, FDPs, workshops | 150 |
| Bharath Heavy Electricals Limited, Visakhapatnam | 01/12/2016 | Final Year project | 2 |
| NIT Warangal | 05/05/2017 | Faculty Internship | 1 |

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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

| | |
|--|--|
| Budget allocated for infrastructure augmentation | Budget utilized for infrastructure development |
| 450 | 466.43 |

4.1.2 – Details of augmentation in infrastructure facilities during the year

| Facilities | Existing or Newly Added |
|--|-------------------------|
| Number of important equipments purchased (Greater than 1-0 lakh) during the current year | Newly Added |
| Value of the equipment purchased during the year (rs. in lakhs) | Newly Added |
| Seminar halls with ICT facilities | Newly Added |
| Classrooms with LCD facilities | Newly Added |
| Others | Newly Added |
| View File | |

4.2 – Library as a Learning Resource

4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

| Name of the ILMS software | Nature of automation (fully or partially) | Version | Year of automation |
|---------------------------|---|---------|--------------------|
| Libsys | Fully | 7 | 2005 |

4.2.2 – Library Services

| Library Service Type | Existing | | Newly Added | | Total | |
|---------------------------|----------|----------|-------------|---------|-------|----------|
| | | | | | | |
| Text Books | 47367 | 10822777 | 984 | 422927 | 48351 | 11245704 |
| Reference Books | 10870 | 2653929 | 858 | 473301 | 11728 | 3127230 |
| e-Books | 0 | 0 | 3000 | 258738 | 3000 | 258738 |
| Journals | 0 | 0 | 89 | 182536 | 89 | 182536 |
| e-Journals | 0 | 0 | 655 | 1367225 | 655 | 1367225 |
| Weeding (hard & soft) | 0 | 0 | 0 | 0 | 0 | 0 |
| CD & Video | 1500 | 0 | 0 | 0 | 1500 | 0 |
| Library Automation | 1 | 718370 | 0 | 80000 | 1 | 798370 |
| View File | | | | | | |

4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

| Name of the Teacher | Name of the Module | Platform on which module is developed | Date of launching e-content |
|---------------------|-------------------------|---------------------------------------|-----------------------------|
| Dr.H.Joga Rao | Process Instrumentation | LMS | 15/06/2016 |
| Dr.P.Satya Sagar | Mechanical Unit | LMS | 25/11/2016 |

| | | | |
|---------------------------|-------------------------------------|-----|------------|
| | Operations | | |
| Dr.A.V. Ramana | Operating Systems | LMS | 25/11/2016 |
| Mr.G.Suresh | Satellite Communications | LMS | 25/11/2016 |
| Mr.Anil Kumar B | Wireless Sensor Networks | LMS | 25/11/2016 |
| Dr.K.Srividya | Data base Management Systems | LMS | 25/11/2016 |
| Dr.M.Balajee | Network Programming | LMS | 15/06/2016 |
| Mr.J.S.V.Siva Kumar | Linear System Analysis | LMS | 25/11/2016 |
| Dr.P.Ramana | Transformers and Induction Machines | LMS | 25/11/2016 |
| Dr Sreerama Murthy Velaga | Unix Programming | LMS | 15/06/2016 |
| View File | | | |

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

| Type | Total Computers | Computer Lab | Internet | Browsing centers | Computer Centers | Office | Departments | Available Bandwidth (MBPS/GBPS) | Others |
|--------------|-----------------|--------------|-----------|------------------|------------------|-----------|-------------|---------------------------------|----------|
| Existing | 1171 | 1040 | 30 | 18 | 60 | 14 | 9 | 100 | 0 |
| Added | 159 | 99 | 0 | 0 | 60 | 0 | 0 | 11 | 0 |
| Total | 1330 | 1139 | 30 | 18 | 120 | 14 | 9 | 111 | 0 |

4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

| |
|----------------|
| 111 MBPS/ GBPS |
|----------------|

4.3.3 – Facility for e-content

| | |
|--|---|
| Name of the e-content development facility | Provide the link of the videos and media centre and recording facility |
| Video Recording Room | http://61.246.187.116/gmritnew/ssr/Others/Lecture_Capturing_Room_Video.mp4 |

4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

| Assigned Budget on academic facilities | Expenditure incurred on maintenance of academic facilities | Assigned budget on physical facilities | Expenditure incurred on maintenance of physical facilities |
|--|--|--|--|
| 80 | 74.7 | 85 | 89 |

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website)

Maintenance of Physical facilities: A well-organized team is in place at Estate office(EO) to maintain all physical facilities. Estate department having the

expertise in all the trades shall carryout periodic and preventive maintenance of the respective infrastructural facilities across the campus. During the summer and semester break, all the major maintenance works that are notified by the respective departments will be taken up and executed by the EO to ensure seamless academic operations. EO maintains an e-portal to report all the maintenance works indented by the departments as per the SOP. The maintenance of all the general amenities like drinking water, UPS, Roads Street lights, Washrooms, Food courts Canteen is undertaken by the EO from time to time. The campus has power backup supported by 1MW solar power plant and 1000KVA DG sets.

All the crucial equipment across the campus after completing the warranty period as an initiative of the preventive maintenance are put under AMC. Further, calibration of the equipment used for the consultancy works in the respective departments is done periodically to ensure the compliance with certification. To ensure the protection of computing systems across the campus, all the laboratories are supported with UPSs with capacity of 250KW spread out across all the laboratories. Maintenance of the housekeeping and horticulture across the campus is taken up through an outsourcing agency. The day to day library operations are automated using Libsys-7. Yearly maintenance of the books is ensured by proper pest control periodically. Library has a policy to issue and returns of the books for students and faculty. The sports complex, Gym, and all other play rounds are seasonally maintained facilitating uninterrupted facilities for the conduct of sports and games. IT- Help Desk Support team takes care of service and maintenance of all the computers, LAN/Wi-Fi connectivity, Wi-Fi modules, Servers etc. on the campus. Firmware upgradation for network equipment like access points, switches are carried out on need basis. Utilization of Physical facilities: All the academic facilities are made available for the effective utilization of students and staff. The campus being residential, laboratory and theory class schedules are done in an optimistic way to ensure the resources are used effectively 24x7. The different laboratory courses are provided to the students in a staggered manner for maximum utilization of the laboratory hours. The common computing facilities in the departments are provided with a schedule for occupancy ensuring effective utilization of the students from all the years. Library operations are extended from 9AM - 5PM to 7AM-11PM for effective utilization and facilitating the students operating as day scholars. A separate logbook is maintained in each laboratory for ensuring the above systems. On holidays, the computer laboratory support is provided for the community training purpose as a part of the outreach program. For effective utilization of the Gym and sports facilities, different time slots are allocated for both boys and girls starting from 5AM to 8AM and 3PM to 8PM.

<http://61.246.187.116/gmritnew/ssr/Others/Utilization%20Procedures%20and%20Policies.pdf>

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

| | Name/Title of the scheme | Number of students | Amount in Rupees |
|--------------------------------------|--|--------------------|------------------|
| Financial Support from institution | EAMCET Rank based merit scholarship and Academic Performance Merit Scholarship | 337 | 6369390 |
| Financial Support from Other Sources | | | |
| a) National | Andhra Pradesh Government (Fee | 1772 | 87309200 |

| | | | |
|---------------------------|----------------|---|---|
| | Reimbursement) | | |
| b) International | Nil | 0 | 0 |
| View File | | | |

5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

| Name of the capability enhancement scheme | Date of implementation | Number of students enrolled | Agencies involved |
|---|------------------------|-----------------------------|--|
| Programme on Inner Excellence | 08/09/2017 | 168 | Vivekananda Institute of Human Excellence, Hyderabad |
| Programme on Human Excellence | 27/10/2017 | 82 | Vivekananda Institute of Human Excellence, Hyderabad |
| Programme on Self Confidence and Stress Management | 29/12/2016 | 215 | Vivekananda Institute of Human Excellence, Hyderabad |
| Yoga Training Class Series | 22/08/2016 | 160 | Swami Vivekananda Centre for Human Excellence (SVCHE, GMRIT) |
| Programme on 21st Century Skills and Art of Public Speaking | 03/02/2017 | 114 | Vivekananda Institute of Human Excellence, Hyderabad |
| Programme on Learn to Meditate | 02/01/2017 | 95 | Vivekananda Institute of Human Excellence, Hyderabad |
| Training on Heartfulness Meditation | 01/02/2017 | 212 | Vivekananda Institute of Human Excellence, Hyderabad |
| Campus Recruitment Training Phase I | 15/06/2016 | 663 | Focus academy for career enhancement (FACE) |
| Campus Recruitment Training Phase II | 15/07/2016 | 649 | Focus academy for career enhancement (FACE) |
| View File | | | |

5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

| Year | Name of the scheme | Number of benefited students for competitive examination | Number of benefited students by career counseling activities | Number of students who have passed in the comp. exam | Number of students placed |
|------|--------------------|--|--|--|---------------------------|
| | | | | | |

| | | | | | |
|-------------------|---------------------------|----|-----|----|-----|
| 2016 | Career Development Center | 35 | 609 | 24 | 413 |
| No file uploaded. | | | | | |

5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

| Total grievances received | Number of grievances redressed | Avg. number of days for grievance redressal |
|---------------------------|--------------------------------|---|
| 1 | 1 | 15 |

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

| On campus | | | Off campus | | |
|-------------------------------|---------------------------------|---------------------------|-------------------------------|---------------------------------|---------------------------|
| Name of organizations visited | Number of students participated | Number of students placed | Name of organizations visited | Number of students participated | Number of students placed |
| Tech Mahindra | 462 | 63 | Osmosys | 202 | 7 |
| View File | | | | | |

5.2.2 – Student progression to higher education in percentage during the year

| Year | Number of students enrolling into higher education | Programme graduated from | Department graduated from | Name of institution joined | Name of programme admitted to |
|------|--|--------------------------|---|-----------------------------------|-------------------------------|
| 2016 | 1 | B.Tech | Electronics and Communication Engineering | University of Bridgeport | MS |
| 2016 | 1 | B.Tech | Electronics and Communication Engineering | University of Southern California | MS |
| 2016 | 1 | B.Tech | Chemical Engineering | IIT Madras | M.Tech |
| 2016 | 1 | B.Tech | Computer Science and Engineering | Kent State University | MS |
| 2016 | 1 | B.Tech | Computer Science and Engineering | University of Texas | MS |
| 2016 | 1 | B.Tech | Computer Science and Engineering | Northwestern Illinois University | MS |
| 2016 | 1 | B.Tech | Civil Engineering | University of Texas, Arlington | MS |
| 2016 | 1 | B.Tech | Chemical Engineering | University of Calgary, Canada | MS |

| | | | | | |
|---------------------------|---|--------|---|--------------------------------|--------|
| 2016 | 1 | B.Tech | Electronics and Communication Engineering | University of Texas, Arlington | MS |
| 2016 | 1 | B.Tech | Civil Engineering | NICMAR | M.Tech |
| View File | | | | | |

5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

| Items | Number of students selected/ qualifying |
|---------------------------|---|
| NET | 1 |
| GATE | 21 |
| CAT | 1 |
| Any Other | 1 |
| View File | |

5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

| Activity | Level | Number of Participants |
|--|-----------------|------------------------|
| Call to Action - EEE | Institute Level | 25 |
| Poster Presentation - Stem Club | Institute Level | 30 |
| Hidden Sports Talent First Year Students (Basket Ball, Cricket, Volley Ball, Foot Ball, Kho Kho, Shuttle, Chess, Carroms, Table Tennis, Athletics, Throw Ball Tenny Koit) Boys Girls | Institute Level | 608 |
| Sports Day (Basket Ball, Cricket, Volley Ball, Foot Ball, Kho Kho, Shuttle, Chess, Carroms, Table Tennis, Athletics, Throw Ball Tenny Koit, Kabaddi, Body Building Power Lifting, Throw Ball) Boys Girls | Institute Level | 1486 |
| Friendship Day Matches (Basket Ball, Cricket, Volley Ball, Foot Ball, Kho Kho, Shuttle) Only Hostellers | Institute Level | 464 |
| Paper Art- Civil Engineering | Institute Level | 30 |
| Project Design Contest - Project and Innovation Club | Institute Level | 72 |
| STEPSTONE 2k17 | National Level | 750 |

| | | |
|------------------------------------|-----------------|----|
| Know your C - CSE | Institute Level | 28 |
| Movie Mania - Chemical Engineering | Institute Level | 50 |
| View File | | |

5.3 – Student Participation and Activities

5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

| Year | Name of the award/medal | National/ Internaional | Number of awards for Sports | Number of awards for Cultural | Student ID number | Name of the student |
|---------------------------|-------------------------|------------------------|-----------------------------|-------------------------------|-------------------|---------------------|
| 2016 | Bronze Medal | National | 1 | 0 | K V S T D Prasad | 14341A0354 |
| 2016 | Bronze Medal | National | 1 | 0 | V Kusuma | 16341A04H5 |
| 2016 | Gold Medal | National | 1 | 0 | A.Sree Vishnavi | 15341A0506 |
| 2016 | Silver Medal | National | 2 | 0 | V.Bargavi | 16341A05H7 |
| 2016 | Winners Trophy | National | 1 | 0 | D B Sunil Kumar | 13341A0225 |
| 2016 | Silver Medal | National | 1 | 0 | V.Guna Pravallika | 16341A03B6 |
| 2016 | Silver Medal | National | 1 | 0 | V Kusuma | 16341A04H5 |
| 2016 | Winners Trophy | National | 1 | 0 | P Mukesh | 13341A0378 |
| 2016 | Winners Trophy | National | 1 | 0 | B Vijay Raju | 14341A0212 |
| 2016 | Winners Trophy | National | 1 | 0 | P Sai Pavan | 15341A04C6 |
| View File | | | | | | |

5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

The students across all the years of the study from all the branches of engineering and technology are actively involved in the following committee to receive and consider their views for achieving a better academic ecosystem. ? Class Committee Meeting ? Class Representative Students Council ? ISTE Students Council ? Food and Beverage Committee for Hostels ? Anti-Ragging Committee ? Placement Committee ? Entrepreneur Development Cell (EDC) ? Students Club The class committee meeting is organized at the department level with the head of the department seeking suggestions to improve the overall academic performance in the department. The suggestion includes the effectiveness of classroom delivery, effectiveness of the teaching methodology, availability of adequate learning resources and so on. Similarly, all the class representatives are called for meeting by the Vice Principal once or twice in a semester seeking suggestion for overall improvement in all possible dimensions in the campus. Further the student's members of Indian Society for Technical Education (ISTE, Students chapter of GMRIT) are effectively involved in organizing academic and academic administrative activities in organizing the events at institute level

for the holistic growth. In addition, the representatives of inmates of the hostel are actively involved in the activities of students mess in finalizing the menu as well to ensure the quality of the served food in the mess. Anti-Ragging Committee includes students across all departments and years to ensure prevention of ragging inside and outside the campus. Career Development Center (CDC) takes care of organizing Internships, Guest lectures, Placement training, and Campus recruitments. EDC is in operation conducting various activities since 2006 funded by AICTE. EDC regularly conducts activities related to entrepreneurship training and motivational classes by inviting the various successful entrepreneurs and GMRIT alumni. Students Club namely Eco club, Stem Club, SVCHE, Dance Club, Music Club, Short Film Club, Robotic Club, Project Innovation Club. CSAC, Ham Club has been introduced in various domains to enhance the skill of the students

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

No

5.4.2 – No. of registered Alumni:

822

5.4.3 – Alumni contribution during the year (in Rupees) :

0

5.4.4 – Meetings/activities organized by Alumni Association :

1. 23rd October, 2016 at Hotel Royal Fort, Ramnagar, Asilmetta junction, Visakhapatnam (14th Alumni Meet). 2. 30th April, 2017 at Hotel Plaza, Telangana Tourism Bhavan, Begumpet, Hyderabad (15th Alumni Meet).

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

Practice #1: Local Management Committee (LMC) - To promote the culture of decentralization and delegation of powers, the management has introduced LMC with an objective to facilitate the decision making related to academic administration, and transparent HR policies leading to prompt and systematic follow-up actions. The LMC constituted with Chief Operating Officer (COO), Principal, Vice Principal, Chief Finance Officer (CFO), Head HR, and Head CDC (Career Development Center). The committee meets periodically, preferably once in a month, to review the various aspects of the above-said responsibilities. The recommendations of the meeting are forwarded to the Chief Executive Officer (CEO) for necessary approvals without any delay. Practice #2: The institution strongly believes the culture of participative management in institutional governance at all possible domains. In this aspect, though there are several initiatives being practiced in the institution, "formulation of anti-ragging committee and functioning" is one among those practices. The institution has a well-established committee in place to completely avoid ragging in any of the forms among the student community. The committee is formulated promoting participative management of various stakeholders including parents, teachers, students, the people from the local community, and the local management of the institution. The major responsibilities of this committee include: 1. To provide a secured and safe learning environment for the students 2. To sensitize the consequences of the ragging to all the relevant stakeholders 3.

To periodically review by convening a meeting at the campus with regard to the disciplinary issues within and outside the campus, if any 4. To initiate necessary preventive and corrective action to avoid any sort of unpleasant activity among students. As this practice of participative management is being followed meticulously in the previous years, there are no cases of unpleasant activity is being reported.

6.1.2 – Does the institution have a Management Information System (MIS)?

Yes

6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

| Strategy Type | Details |
|--|--|
| Admission of Students | To enhance the quality of the intake and to realize the vision, merit scholarships and Hostel fee concession are announced based on the Engineering Agriculture Medical Common Entrance Test (EAMCET) ranks, and 102 grades. |
| Industry Interaction / Collaboration | Industry interaction: Signing of MoUs for formal collaborative initiatives viz. internships for faculty and students, Curriculum development revision, Guest/Expert lectures, Collaborative research, and Co-sponsoring of events. |
| Human Resource Management | 1. Transparent policies and procedures are in place for the welfare of the employees. 2. Annual appraisal system is in place for all employees. 3. Maintaining the faculty-student ratio as per the norms. 4. Internal promotion policy is in place for career advancement. 5. Training programs for skill development and personality development of employees. 6. Organogram and resource management is in place through SAP. 7. Gratuity policy is in place for the welfare of employees. |
| Library, ICT and Physical Infrastructure / Instrumentation | 1. To enhance self-learning and research abilities, digital library is facilitated beyond working hours 2. Encouraged faculty members to deliver at least 50 of content using ICT 3. KRC subscription is in place for online journals 4. Library management system through LibSys |
| Research and Development | 1. Incentives for quality publications, mentoring on writing research publications and funded projects, Financial Support Quality Improvement Programme (QIP, Incentives for timely completion of the PhDs. 2. Seed grant 3. Providing infrastructure to promote research |

| | |
|----------------------------|--|
| Examination and Evaluation | <p>1. Leveraging the potential of autonomy by increasing the ratio of continuous assessment from 30 to 40 for effective implementation of assessment tools and methods</p> <p>2. One comprehensive examination to assess the overall learning</p> <p>3. Question wise valuation to ensure the uniformity and consistency</p> <p>4. Question paper Scrutiny</p> |
| Teaching and Learning | <p>1. Introduction of new student-centric teaching-learning pedagogy viz. Cohesive Teaching Learning Practices (CTLP)</p> <p>2. Faculty capacity building in the context of OBE and OBA (Continuous process)</p> |
| Curriculum Development | <p>1. Aligning curriculum design, delivery, and assessment in line with outcome-based education.</p> <p>2. Curriculum design focusing on different learning experience viz. self-directed learning, Layer learning, Project-based learning, Interactive learning, Collaborative learning, experiential learning, and Participative learning</p> <p>3. Introduction of layer learning to provide more scope on the practical insight</p> <p>4. Feedback mechanism on the curriculum from the stakeholders viz., industry, peer institutions, alumni and representatives from professional bodies to enhance the quality of the same</p> |

6.2.2 – Implementation of e-governance in areas of operations:

| E-governance area | Details |
|-------------------------------|--|
| Student Admission and Support | EZ School (Campus Management System) |
| Finance and Accounts | SAP (Administration Management System) |
| Examination | BEES (Examination Management System) |

6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

| Year | Name of Teacher | Name of conference/ workshop attended for which financial support provided | Name of the professional body for which membership fee is provided | Amount of support |
|------|-----------------|--|--|-------------------|
| 2016 | Mr.G.Veerraju | Fog Computing Internet Of Things Engineering Technology Analytics with R Applied Engineering | Nil | 25760 |

| | | | | |
|------|----------------------|---|-----|-------|
| | | Research | | |
| 2016 | Mrs.V.Vasudha Rani | Machine Learning | Nil | 14405 |
| 2016 | Mr.P.Ramana | Emerging Trends in Power Electronics and Power Systems Science and Technology | Nil | 17139 |
| 2016 | Mr.B.Venkata Suresh | Chem Tech Research | Nil | 10000 |
| 2016 | Mr.M.Rambabu | New Trend in Multidisciplinary Research and Practice Aerospace, Electronics, Electrical, Communications Instrumentation Signal Processing Applications in Power Control Systems | Nil | 37476 |
| 2016 | Mr.GBSR Naidu | Cooperative 4G/5G MIMO wireless communications | Nil | 11894 |
| 2016 | Mr.T.Govinda Rao | Cooperative 4G/5G MIMO wireless communications | Nil | 14263 |
| 2016 | Dr.V.Sreerama Murthy | Internet of Things (IOT) Security: Issues, Innovations and Interplays(GIAN) | Nil | 13118 |
| 2016 | Mr.B.Anil Kumar | Advanced Image Processing Solutions for Emerging Challenges in Medical Applications Biomedical Image Analysis (GIAN) | Nil | 13583 |
| 2016 | Mr. G.V.S.S.Sharma | All India Manufacturing Technology, Design and | Nil | 11417 |

Research
Conference
(AIMTDR-2016)
All India
Manufacturing
Technology,
Design and
Research
Conference
(AIMTDR-2016)

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6.3.2 – Number of professional development / administrative training programmes organized by the Colleges for teaching and non teaching staff during the year

| Year | Title of the professional development programme organised for teaching staff | Title of the administrative training programme organised for non-teaching staff | From date | To Date | Number of participants (Teaching staff) | Number of participants (non-teaching staff) |
|------|--|---|------------|------------|---|---|
| 2016 | Object oriented RBT | Nil | 24/09/2016 | 24/09/2016 | 20 | 0 |
| 2017 | Outcome Based Education Accreditation (OBE OBA) | Nil | 17/05/2017 | 18/05/2017 | 29 | 0 |
| 2017 | Recent Advances in Signal Processing and Communications | Nil | 21/04/2017 | 22/04/2017 | 53 | 0 |
| 2017 | Trust Areas of Research in Renewable Energy and Storage System. | Nil | 03/03/2017 | 04/03/2017 | 29 | 0 |
| 2017 | Nil | DSP(28335) and FPGA(S PARTAN6) controller | 23/05/2017 | 23/05/2017 | 0 | 5 |
| 2016 | Three day training program on BigData and Hadoop (STTP by CSE IT) | Nil | 23/06/2016 | 25/06/2016 | 8 | 0 |

| | | | | | | |
|---------------------------|--|---|------------|------------|----|---|
| 2017 | Sensor Networks and Internet of Things(FDP) | Nil | 14/02/2017 | 19/02/2017 | 11 | 0 |
| 2016 | Nil | Training programme on AutoCAD Pro E | 21/06/2016 | 22/06/2016 | 0 | 8 |
| 2017 | Nil | Technical Staff Training programme on CNC programming 3D modeling using CATIA | 16/05/2017 | 19/05/2017 | 0 | 8 |
| 2016 | Sensitization Program on NBA | Nil | 08/09/2016 | 08/09/2016 | 29 | 0 |
| View File | | | | | | |

6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

| Title of the professional development programme | Number of teachers who attended | From Date | To date | Duration |
|---|---------------------------------|------------|------------|----------|
| Internship (NIT Warangal) | 1 | 08/05/2017 | 19/12/2017 | 12 |
| Internship (ARCI, Hyderabad) | 3 | 15/05/2017 | 26/05/2017 | 9 |
| Advanced Process Control (GIAN) | 1 | 12/12/2016 | 17/12/2016 | 6 |
| Advanced Digital Signal Processing (GIAN) | 2 | 06/03/2017 | 10/03/2017 | 5 |
| Power Electronics for Renewable Energy Systems (GIAN) | 2 | 08/12/2017 | 17/12/2017 | 10 |
| Advancements in Privacy Preserving Data Mining (GIAN) | 1 | 19/12/2016 | 29/12/2017 | 11 |

| | | | | |
|--|---|------------|------------|----|
| Data Science and Big Data Analytics | 2 | 06/06/2016 | 15/06/2016 | 10 |
| Internet of Things (IOT) Security Issues, Innovations, and Interplays (GIAN) | 3 | 12/12/2016 | 16/12/2016 | 5 |
| Biomedical Image Analysis (GIAN) | 1 | 15/12/2016 | 23/12/2016 | 9 |
| Ground Water Flow and Transport Modeling through Fractured Geologic Media (GIAN) | 1 | 27/06/2016 | 08/07/2016 | 12 |
| View File | | | | |

6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

| Teaching | | Non-teaching | |
|-----------|-----------|--------------|-----------|
| Permanent | Full Time | Permanent | Full Time |
| 0 | 22 | 0 | 2 |

6.3.5 – Welfare schemes for

| Teaching | Non-teaching | Students |
|--|---|---|
| PF, Gratuity, Group Medical Insurance, GPA and GTA, Tuition Fee Concession, Concession in medical support, Campus Accommodation, Cooperative Credit Society. | PF, Gratuity, Group Medical Insurance, GPA and GTA, ESI, Concession in medical support, Tuition fee Concession, Cooperative Credit Society. | Accident and Medical Insurance facility, 24x7 Medical assistance, Concession in medical support, Proctor System and Student Counselling, Coaching for higher studies and Competitive Exams. |

6.4 – Financial Management and Resource Mobilization

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

The objective of the audits is to assess and evaluate the adequacy and effectiveness of the internal control systems deployed by the institute. The audit is carrying out using a sampling approach, analysis of data, review of accounting, materials management payment processes, validation of information, combined with discussions with respective process owners. Review of Recruitment of employees, Procurement Policy, Contract Bills contract Agreements, Disbursement of salaries, Documents attached to Invoices, Compliance with contracts entered, Scrutiny of Non PO based expenses, Attendance records of teachers and other staff.

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

| | | |
|--|-------------------------------|------------------------------|
| Name of the non government funding agencies /individuals | Funds/ Grnats received in Rs. | Purpose |
| Management | 24209000 | Infrastructure and Equipment |
| View File | | |

6.4.3 – Total corpus fund generated

| |
|---|
| 0 |
|---|

6.5 – Internal Quality Assurance System

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

| Audit Type | External | | Internal | |
|----------------|----------|---|----------|----------------------------|
| | Yes/No | Agency | Yes/No | Authority |
| Academic | Yes | AQA(I) International, Hyderabad | Yes | QAC |
| Administrative | Yes | B.V.Rao CO Chartered Accounts, Visakhapatnam | Yes | MAG Auditory, Bangalore |

6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

| |
|--|
| 1. Involvement in anti-ragging committee promoting participative management 2. Strengthening of student mentoring process 3. Feedback from parents through phone calls |
|--|

6.5.3 – Development programmes for support staff (at least three)

| |
|---|
| 1. Training programs on Personality Development 2. Workshops for skill up-gradation 3. Motivational talks to enhance interpersonal skills |
|---|

6.5.4 – Post Accreditation initiative(s) (mention at least three)

| |
|---|
| 1. Feedback mechanism on the curriculum from various stakeholders and complete alignment of curriculum design development and delivery with outcome-based education 2. Improved industry-institute interaction 3. Successful implementation of long-term internship in the form of FSI 4. Examination reforms |
|---|

6.5.5 – Internal Quality Assurance System Details

| | |
|--|-----|
| a) Submission of Data for AISHE portal | Yes |
| b) Participation in NIRF | Yes |
| c) ISO certification | Yes |
| d) NBA or any other quality audit | Yes |

6.5.6 – Number of Quality Initiatives undertaken during the year

| Year | Name of quality initiative by IQAC | Date of conducting IQAC | Duration From | Duration To | Number of participants |
|------|---|-------------------------|---------------|-------------|------------------------|
| 2017 | Outcome Based Education and Accreditation | 02/01/2017 | 17/05/2017 | 17/05/2017 | 29 |

| | | | | | |
|---------------------------|---|------------|------------|------------|----|
| 2017 | Familiarization of various Funding Schemes for research and faculty development | 02/01/2017 | 16/03/2017 | 18/03/2017 | 75 |
| 2017 | Establishment of Virtual Laboratories | 02/01/2017 | 09/01/2017 | 10/01/2017 | 29 |
| 2016 | Object Oriented Enriched Revised Bloom's Taxonomy | 01/07/2016 | 24/09/2016 | 24/09/2016 | 20 |
| 2016 | Empowering Engineering faculty in Question Paper Setting | 01/07/2016 | 19/07/2016 | 19/07/2016 | 50 |
| 2016 | Sensitization on CTLP format | 01/10/2016 | 15/10/2016 | 15/10/2016 | 35 |
| 2016 | Internal Audit #1 | 08/03/2016 | 01/07/2016 | 02/07/2016 | 19 |
| 2016 | Sensitization Program on NBA | 01/07/2016 | 08/09/2016 | 08/09/2016 | 19 |
| 2016 | Introduction of New Teaching Pedagogy Focussing on Learner Centric Environment [Cohesive Teaching - Learning Practices] | 01/10/2016 | 15/10/2016 | 15/10/2016 | 40 |
| 2016 | Internal Audit #2 | 01/10/2016 | 23/01/2017 | 24/01/2017 | 19 |
| View File | | | | | |

CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

| Title of the programme | Period from | Period To | Number of Participants |
|------------------------|-------------|-----------|------------------------|
|------------------------|-------------|-----------|------------------------|

| | | | Female | Male |
|---|------------|------------|--------|------|
| Womens Day Celebrations | 08/03/2017 | 08/03/2017 | 110 | 0 |
| Women Empowerment Club Inauguration Day | 28/07/2016 | 28/07/2016 | 52 | 0 |
| Role of Yoga in Gender Empowerment | 28/12/2016 | 28/12/2016 | 74 | 89 |
| Women Week Celebration | 02/03/2017 | 08/03/2017 | 110 | 0 |
| Hospitality Transaction and Self Analysis | 06/11/2016 | 06/11/2016 | 9 | 15 |

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

| Percentage of power requirement of the University met by the renewable energy sources |
|--|
| (1) Solid waste management (2) Liquid waste management (3) e-waste management (4) Solar energy (5) Use of LED bulbs/ power-efficient equipment (6) Sensor-based energy conservation (7) Percentage of power requirement of the University met by the renewable energy sources-70 |

7.1.3 – Differently abled (Divyangjan) friendliness

| Item facilities | Yes/No | Number of beneficiaries |
|--|--------|-------------------------|
| Physical facilities | Yes | 3 |
| Provision for lift | Yes | 1 |
| Ramp/Rails | Yes | 0 |
| Braille Software/facilities | No | 0 |
| Rest Rooms | Yes | 3 |
| Scribes for examination | No | 0 |
| Special skill development for differently abled students | No | 0 |
| Any other similar facility | No | 0 |

7.1.4 – Inclusion and Situatedness

| Year | Number of initiatives to address locational advantages and disadvantages | Number of initiatives taken to engage with and contribute to local community | Date | Duration | Name of initiative | Issues addressed | Number of participating students and staff |
|------|--|--|------------|----------|---------------------|---------------------------|--|
| 2016 | 1 | 1 | 02/04/2016 | 1 | Blood Donation Camp | Sensitized the importance | 150 |

| | | | | | | | |
|------|---|---|------------|---|--------------------------------|---|-----|
| | | | | | | of blood donation in association with GMR Varalakshmi CARE hospital, Rajam. | |
| 2016 | 1 | 1 | 21/06/2016 | 1 | International Day of Yoga 2016 | Conducted Yoga camp to create awareness on work-life balance and significance of Yoga practices | 300 |
| 2016 | 1 | 1 | 21/06/2016 | 3 | Heartfulness Meditation | Sensitized work-life balance through heartfulness meditation | 50 |
| 2016 | 1 | 1 | 16/07/2016 | 1 | Awareness rally on Plantation | Organized an awareness rally on plantation from GMRIT to Butchimpeeta. | 200 |
| 2016 | 1 | 1 | 16/07/2016 | 1 | Vanam-Manam | Vanam - Manam Programme at GMR CARE Hospital Road Palakonda Road and Organized an awareness rally on plantation from GMRIT to Govt. High School, Rajam. | 200 |

| | | | | | | | |
|------|---|---|------------|---|---------------------------|--|-----|
| 2016 | 1 | 1 | 16/08/2016 | 1 | AZADI-70: YaadKaroKurbani | organized a rally on "Let Us Remember the Sacrifices of Freedom Fighters" from ECE Gate to Dolapeta Junction. In view of "AZADI-70: YaadKaroKurbani" from 9th to 23rd August 2016, | 200 |
| 2016 | 1 | 1 | 02/10/2016 | 1 | Gandhi Jayanti | Observed Gandhi Jayanthsensitized people on Bapujis thought on rural India | 200 |
| 2016 | 1 | 1 | 31/10/2016 | 2 | Rashtriya Ekta Diwas | Organized 2K run from GMRIT to Dolapeta Junction with a theme to sensitize the community on National Unity Day | 100 |
| 2016 | 1 | 1 | 01/12/2016 | 1 | World AIDS Day | Organized a rally by engaging the local community to create awareness on AIDS and its consequences | 80 |

| | | | | | | | |
|------|---|---|------------|---|--|---|-----|
| | | | | | | e | |
| 2016 | 1 | 1 | 07/01/2017 | 1 | Digital Financial Literacy for Cashless Transactions | Organized an Awareness programme on Digital Financial Literacy for Cashless Transactions at our adopted village M unakalaValasa | 220 |

[View File](#)

7.1.5 – Human Values and Professional Ethics

| Title | Date of publication | Follow up(max 100 words) |
|---------------------------------|---------------------|--|
| Code of Business Conduct Ethics | 01/06/2016 | <p>Faculty Staff: Institution has a Handbook of Code of Business conduct and Ethics and is intended to provide guidelines for professional, Ethical, Legal and Social Responsible behaviour that the institute expects from its employees. All employees on regular rolls of the institute including employees on contract governed by the policy. Employees are the representatives of the institute and hence are expected to demonstrate high degree of discretion and astute judgement in their dealings. The code of Business conduct Ethics is written in the aspect of National Interest, Institute Brand, Group Social Responsibility, Sexual Harassment, Competition, Quality of Services, Equal Opportunities, Accurate and Complete Accounting, Settlement of Expenses, Protection of</p> |

| | | |
|---------------------------------|------------|---|
| | | Intellectual property, Confidentiality and Nondisclosure, Collaboration with in GMR companies, Falsification and Destruction of information, etc. |
| Code of Business Conduct Ethics | 01/06/2016 | <p>Students: (1) Student shall conduct himself in an exemplary manner and shall do all necessary things to uphold the prestige and reputation of GMRIT. He/She shall not involve in any strikes, demonstrations and in any other unlawful activities, both inside and outside the campus. He/she understand any violation, on his/her part, of the disciplinary measures prescribed by the institute will attract imposition of fines, suspension and even rustication or any other punishment deemed fit by the authorities, and he/she abide by the decision that would be taken by the authorities.</p> <p>(2) He/she understand that ragging of junior students is inhuman and punishable under law. He/she promise that he/she will not involve in any form of ragging. I clearly understand that any person (may be myself) who so ever is directly or indirectly involved in ragging is subject to serve punishment, can be booked in a criminal case, and can be arrested. (3) He/she shall strictly abide by all the rules of the institution.</p> |

7.1.6 – Activities conducted for promotion of universal Values and Ethics

| Activity | Duration From | Duration To | Number of participants |
|-----------------------|---------------|-------------|------------------------|
| World Environment Day | 05/06/2016 | 05/06/2016 | 35 |

| | | | |
|-----------------------------------|------------|------------|-----|
| World Blood Donor Day | 14/06/2016 | 14/06/2016 | 55 |
| Teachers Day | 05/09/2016 | 05/09/2016 | 300 |
| Engineers Day | 15/09/2016 | 15/09/2016 | 300 |
| National Girl child day (India) | 24/01/2017 | 24/01/2017 | 25 |
| Voter Day | 27/01/2017 | 27/01/2017 | 55 |
| World Cancer Awareness Day | 03/02/2017 | 04/02/2017 | 33 |
| World Peace and Understanding Day | 23/02/2017 | 23/02/2017 | 25 |
| National Science Day | 28/02/2017 | 28/02/2017 | 100 |
| World Water Day | 22/03/2017 | 22/03/2017 | 30 |
| View File | | | |

7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

(1) Solid waste management (2) Liquid waste management (3) e-waste management (4) Solar energy (5) Use of LED bulbs/ power efficient equipment (6) Sensor-based energy conservation (7) Air pollution management - Thursdays observed as pollution-free days (8) Separate Horticulture department

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Practice #1 Title of the Practice: Industry Institute Engagement Objectives: • To establish Industry-Institute Partnership /Interaction Cell • To extend participation of experts from industry in curriculum development and revision • To promote professional consultancy by the faculty to industries • To undertake collaborative research programmes and field studies by faculty and industry experts • To ensure students can take their theoretical and practical knowledge ahead to carve out a role for themselves in their chosen industry and society • To adopt industry institute interaction as a tactile method of teaching for enabling students to build relationship with companies and practice networking with industry peers and experts The Context: Since ACY 2012 – 2013, the time of at which the autonomy was granted, the Institute is giving lot of importance to develop a holistic curriculum to the stakeholders with an objective of enhancing the students capability and raise their standards in par with other leading institutions. In this context, while realizing the vision of the Institute as well as preparing the graduates to meet the minimum requirements by the industries, the Institute has taken several measures by leveraging the potential of autonomy to tie-up with IT, ITES and Core industries. This realization and the context of building the relationship with industries enabled the institution to make an attempt to partner with industries to prepare the graduating engineering with 21st century skills. The Practice: Industry institute interaction is essential for ensuring that practice meets theory across all functional areas. It is highly essential in enhancing a student's interpersonal skills and making him/her industry-ready. Industrial visits, internships and practical mentoring have their own importance in building a career of a student, especially those pursuing a professional degree. Industry interaction with institute is regarded as the part of the curriculum as it gives students an insight into the regular, internal workings of a company. It is a known fact that just theoretical knowledge is not enough for making a professional career. Industry institute interactions go beyond

academics and it provides excellent exposure for students to attain practical perspective of the world of work. Students get an opportunity to learn practically by applying their theoretical knowledge, through working methods, interactions and employment practices. It gives them the exposure to current working methods as opposed to just classroom theoretical knowledge.

Furthermore, students are also able to learn about the work environment of companies and feel more confident when it is time for them to appear for campus interviews or otherwise. To realize this, the institute has the following practices in place • Industry experts in various committees of the institute • Summer internship for one month with credits • One credit course designed and delivered by industry experts • Full semester internship • Organization of interaction sessions with industry experts for students and faculty twice a semester • Organization of national level workshops with industry experts for academic community once an year • Interaction programs by alumni of the institute working in industry for motivating young minds Regular industrial visits to students and faculty Evidence of Success: • Establishment of internship cell • Grant received for research project from ISRO • Positive Feedback from Internal and External Stakeholders • Companies are volunteering to take interns with pre-placement offers • Quantitative outcomes S. No. Key Performance Indicator 2016-17 1 Networking with companies 43 2 No. of interns 285 3 No. of interns with stipend () 34 4 No. of pre-placement offers () 13 5 Placements 367 6 No. of research grants by industry 1 Problems Encountered and Resources Required: • In initial stage, networking with companies posed serious challenges as the Institute is located in a very remote place from the city • Initial travel was too hectic to establish the industry connect • Paradigm change in the mind set of stakeholders posed serious challenges to adopt to this initiative at the very beginning • Identifying the companies who are seriously looking for industry-academia engagement through various avenues had several challenges Practice #2 Tittle of the Practice: Innovative Teaching Learning Pedagogy towards Student Centric Learning Objectives: • To slowly phase out teacher centric learning environment to student centric environment • To develop an innovative teaching learning pedagogy promoting a vibrant classroom model and to break the monotonous way of lecturing • To facilitate peer-to peer learning strategy and to provide a platform to encourage critical thinking among the learners The Context: The Institution always believes in continuous improvement and embrace changes in adopting and deploying best practices in the academic eco-system. Realizing the limitations and scope for improvement with the conventional teaching - learning process that affects the preparedness of the students for 21st century skills, the institution has made an attempt to develop an innovative teaching learning practice with the use of appropriate ICT tools. And to change from complete teacher centric learning environment to student centric learning environment, Cohesive Teaching Learning Practice (CTLP) is developed after having several discussions with concerned stakeholders. This has been formulated to have the elements that were found to be minimal or missing in regular classroom environment. The attention level of learners are found to be decreasing for several reasons. Also, learners of nowadays show interest to digital platform. All these factors, led to formulate CTLP framework that addresses all these issues to the maximum extent. The Practice: In the context of outcome based education, an effort has been made to align the teaching-learning process in line with the philosophy of OBE by deploying "Cohesive Teaching Learning Practices (CTLP)" which includes the following class room delivery elements. These elements are introduced to accomplish focused classroom delivery, effective assessment, creating interest among learners, articulation skills and finally, critical thinking skills. Some of the key elements of CTLP include: • Intended Learning Outcomes • Visualization (Static/Dynamic) • Mapping (RBT Knowledge Dimension) • Self-Reflection (Mind map) • Peer Instructional Questions • Articulation (Student Centric) • Questions that addresses learning levels • Student Centric

Activities that addresses ILO Evidence of Success: a. Improvement in teaching - learning process and shift from teacher centric to learner centric environment is being observed in the classroom environment b. Improvement with regard to the preparedness of the course instructor for effective classroom delivery with a focused intended learning outcomes c. Availability of e-courseware in similar line with CTLP format d. Think-Pair-Share model of CTLP helped a lot for peer-to-peer learning e. All the deliverables are developed in CTLP format in LAN

Problems Encountered and Resources Required: a. Paradigm change in the mind-set of internal stakeholders posed serious challenges to adapt to this new teaching-learning pedagogy. As this was initiated by the members of IQAC, several programmes in this line was organized to train the members of faculty after necessary vetting of the proposed pedagogy by a team from IIT Mumbai and thus the challenge was slowly turned to a success story b. In the very beginning, there was a serous resistance from few members of faculty to prepare the lecture plan as per the format of CTLP as this takes much time in the first attempt. After having several training and sensitizing programmes, now all the courses are developed in the CTLP format

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

http://61.246.187.116/gmritnew/ssr/Others/Best_Practices_2016-2017.pdf

7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

Full Semester Internship: GMR Institute of Technology is promoted by one of the country's infrastructure major, GMR Group through its CSR wing, GMR Varalakshmi Foundation. Since 1997, the time of inception, the Institution thrive hard to evolve several strategies in all the academic spheres in line with the vision of the Institution to be one among the most preferred institutions for engineering and technological education in the country. The institute has always felt that better interaction between technical institutions and industry is the need of the hour in shaping the thought process of the stakeholders in engineering education. This will have great bearing on exposure of industrial atmosphere to engineering students and subsequent placement of young graduating engineers in industries across the country. In this context, a new initiative was deployed into practice in the year 2016 i.e. Full Semester Internship (FSI). FSI is a formal, institutionalized process designed to provide the hands-on experience to the students in the industrial and research environment. It paves a platform for a student to apply the theoretical knowledge gained during the course of study, learn new skills and supplement knowledge. The course provides mutual benefit to both intern and the organization. The FSI follows a well-defined Standard Operating Procedure. Dedicated Team of Faculty members are assigned to visit the industries/Research organizations for internship confirmation, allotment, monitoring and assessments with the support of Career Development Center (CDC) and the departments. As it is an institutionalized process, the students are not allowed to go to the industry arranged by them however they will be allowed through proper procedure only. After the completion of the allotment, the students must have join their respective companies by submitting the undertaking provide by the student and parent. The students will be assigned with an industry supervisor and a faculty member from their respective department as internal supervisor. The responsibility of the internal supervisor is to interact with students and industry supervisor periodically to review the activities and progress of the interns. After successful completion of internship at industry, the student knowledge and skills gained during internship will be assessed by an external industry expert nominated by the authority. This practice is assumed to be highly beneficial to

engineering graduates and the management wishes its students a successful journey for in this new path.

Provide the weblink of the institution

http://61.246.187.116/gmritnew/ssr/Others/Institutional%20Distinctiveness_2016-2017.pdf

8.Future Plans of Actions for Next Academic Year

The institution is very much keen on adopting and deploying the best practices in all the possible dimensions in the academic ecosystem in accordance with the vision of the institute in the journey of academic excellence. In this context, there are several initiatives are deployed post accreditation (Cycle 2) and year on year the initiatives are strengthened based on the learning experience gained during the implementation process. Accordingly, the following are the plans for the forthcoming academic year 2017-2018. 1. To initiate strengthening of the existing e-courseware by developing the deliverables in the video format and enhancing the digital infrastructure for the same 2. To increase the percentage of courses for classroom delivery with the existing student-centric teaching centric pedagogy (Cohesive Teaching Learning Practices- CTLP) compared to previous years 3. To complete the availability of static e-content (Learning resources) for the courses available in the curriculum as per the CTLP 4. To initiate faculty capacity building program through faculty internships at industries and accordingly to organize faculty Friday seminar series to promote knowledge sharing 5. Faculty capacity building program on an ongoing basis towards outcome-based education (OBE) and outcome-based accreditation (OBA)