



## Yearly Status Report - 2017-2018

### Part A

#### Data of the Institution

<b>1. Name of the Institution</b>	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
<b>2. Institutional Status</b>	

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)	<a href="http://www.gmrit.org/AQAR2016-17.pdf">http://www.gmrit.org/AQAR2016-17.pdf</a>
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### 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-2/2.3.4/2.3.4\(c\)Preparation%20and%20adherenceAcademic%20calendars.pdf](http://61.246.187.116/gmritnew/ssr/criteria-2/2.3.4/2.3.4(c)Preparation%20and%20adherenceAcademic%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
External Audit for ACY	28-May-2018	9

2016-2017	3	
Internal Audit #2	22-Jan-2018 2	17
Effective Use of ICT Tools for Teaching and Learning Process	25-Nov-2017 2	45
Cohesive Teaching Learning Practices (CTLP) for new recruiters	09-Nov-2017 1	40
Internal Audit #1	03-Jul-2017 2	17
National Workshop on OBE and OBA	17-May-2017 2	40
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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
GMRIT	NA	ZERO	2018 00	0
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<b>9. Whether composition of IQAC as per latest NAAC guidelines:</b>	Yes
Upload latest notification of formation of IQAC	<a href="#">View File</a>
<b>10. Number of IQAC meetings held during the year :</b>	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	<a href="#">View File</a>
<b>11. Whether IQAC received funding from any of the funding agency to support its activities during the year?</b>	No

**12. Significant contributions made by IQAC during the current year(maximum five bullets)**

1. The members of IQAC suggested formulating a research forum to disseminate the research findings among the peer group

2. Identified appropriate resource persons i.e., subject matter experts from the

teaching-learning center from IIT Bombay to sensitize the members of faculty on innovative teaching pedagogy as well as to vet & validate the proposed CTLP classroom delivery model. Based on the deliberations, the revised CTLP format is introduced by incorporating TPS (Think-Pair-Share). The subject matter experts appreciated the initiative of IQAC in this regard and it is copyrighted.

3. Organized a master training program on OBE and Outcome Based Accreditation (OBA) with eminent experts for further enhancing the proficiency of the members of faculty.

4. 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.

5. Strengthened the industry-academia relationship for all academic and research collaborations.

[View File](#)

**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	Achievements/Outcomes
Extension of the status of Autonomy	Extended upto 2027 - 2028
Re-accreditation for B. Tech. Information Technology	Accredited by NBA for 3 years under TIER - I
a) To initiate faculty capacity building program through faculty internships at industries and accordingly to organize faculty Friday seminar series to promote knowledge sharing b) Faculty capacity building program on an ongoing basis towards outcome based education (OBE) and outcome based accreditation (OBA)	a) Initiated faculty internship programme at industries by providing financial assistance from the Management during summer vacation for a duration of one month b) Several programmes with internal and external resources are being organized to enhance the proficiency of the faculty in the context of OBE and OBA
To complete the availability of static e-content (Learning resources) for the courses available in the curriculum as per the CTLP	All the e-courseware i.e. static learning resources were converted to the new CTLP format, which is inline with the CTLP format. The format provides a very good scope that is needed for student centric approach in terms of evocation, critical thinking, mind map (self reflection element), student articulation and finally TPS i.e. think-pair-share (promoting a vibrant classroom model and peer-to-peer learning).
To increase the percentage of courses for class room delivery with the existing student centric teaching centric pedagogy (Cohesive Teaching Learning Practices- CTLP) compared to	The number of courses delivered through CTLP format is slowly enhanced from 20% to 40%

previous years	
To initiate strengthening of the existing ecourseware by developing the deliverables in the video format and enhancing the digital infrastructure for the same	a) As planned, development of ecourseware in video format is initiated in a phasewise manner and completed 16 video courses for the courses that suit all the times with an aim of introducing flipped learning down the line b) The IT infrastructure is expanded to have a separate server for ecourseware and made available internally for all students c) Develop 100 ecourseware in the format of CTLP and made available in the LAN
<a href="#">View File</a>	
<b>14. Whether AQAR was placed before statutory body ?</b>	No
<b>15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?</b>	Yes
Date of Visit	07-Aug-2015
<b>16. Whether institutional data submitted to AISHE:</b>	No
<b>17. Does the Institution have Management Information System ?</b>	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	02	Electrical & Electronics Engineering	28/10/2017
BTech	04	Electronics & Communication Engineering	28/10/2017
BTech	05	Computer Science & Engineering	28/10/2017
BTech	12	Information Technology	28/10/2017
BTech	01	Civil Engineering	28/10/2017
BTech	08	Chemical Engineering	15/07/2017
BTech	01	Civil Engineering	24/03/2018
BTech	02	Electrical & Electronics Engineering	24/03/2018
BTech	05	Computer Science & Engineering	24/03/2018
BTech	12	Information Technology	24/03/2018

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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	19/06/2017	English Communication Skills I	19/06/2017
BTech	All branches	19/06/2017	English Communication Skills II	19/06/2017
BTech	All branches	19/06/2017	English Communication Skills lab	19/06/2017
BTech	All branches	19/06/2017	Employability Skills I	19/06/2017
BTech	All branches	19/06/2017	Employability Skills II	19/06/2017
BTech	All branches	19/06/2017	CC&EC Activities I	19/06/2017

BTech	All branches	19/06/2017	Summer Internship	19/06/2017
BTech	All branches	19/06/2017	Full Semester Internship	19/06/2017
BTech	All branches	19/06/2017	Project	19/06/2017
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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	All branches	19/06/2017
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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	Chemical Engineering	19/06/2017
BTech	Civil Engineering	19/06/2017
BTech	Electronics & communication Engineering	19/06/2017
BTech	Electrical and Electronics Engineering	19/06/2017
BTech	Mechanical Engineering	19/06/2017
BTech	Power Engineering	19/06/2017
BTech	Computer Science and Engineering	19/06/2017
BTech	Information Technology	19/06/2017

## 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
Introduction to Internet of Things	02/01/2018	9
Cloud Computing	20/06/2017	16
Programming, Data Structures and Algorithms using Python	02/01/2018	22
HDL Synthesis and Full Custom IC Design	17/02/2018	22
Digital IC design using Cadence Tools	25/02/2018	27
PRIMAVERA P6	24/08/2017	32
3D Printing	04/12/2017	7
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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	24
BTech	Civil Engineering	66
BTech	Electronics & Communication Engineering	198
BTech	Electrical and Electronics Engineering	144
BTech	Computer Science and Engineering	188
BTech	Information Technology	86
BTech	Mechanical engineering	146
BTech	Power Engineering	44
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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
BTech	Civil Engineering	120	119	119
BTech	Electrical & Electronics	120	115	115



	Engineering			
BTech	Mechanical Engineering	120	120	120
BTech	Electronics & Communication Engineering	180	180	180
BTech	Computer Science Engineering	180	179	179
BTech	Chemical Engineering	30	24	24
BTech	Information Technology	60	56	56
BTech	Power Engineering	60	19	19
Mtech	VLSI & Embedded Systems design	18	11	11
Mtech	Transportation Engineering	18	16	16
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## 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
2017	812	48	216	18	234

## 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
234	234	6	66	10	21509

[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. Eight regular counseling sessions are taken by Professional Psychologist. 125 students are mentored by Professional Psychologist.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
3449	234	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
234	206	28	28	11

### 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. C L V R S V Prasad	Principal	Member, Executive Council, Apex body, JNTUK Kakinada
2018	Dr.T.Prabhakar	Associate Professor	Outstanding Contribution in Reviewing in the journal of Informatics in Medicine Unlocked, Elsevier, ISSN: 2352-9148, Amsterdam, The Netherlands, SCIE.
2018	Dr. T. S. Kishore	Associate Professor	Outstanding Reviewer Award, IJEPES, Elsevier
2018	Dr.M. venkateswara Rao	Professor	Governing Council, GMRIT
2018	Dr. Balajee Maram	Associate Professor	Outstanding Researcher" from International Institute of Organized Research (I2OR), India   Australia
2018	Dr.V.Rambabu	Professor	Governing Council, GMRIT
2018	Dr.M.Srinivasa Rao	Professor	Judge for Poly Tech Fest on 10/09/18 conducted at Sri Sivani College of Engineering, Srikakulam.
2017	Dr.M. V Nageswara Rao	Professor	BOS member, MVGR college of engineering, Vizianagaram

2017	Dr. J.Raja Murugadoss	Vice Principal	Member Secretary, Academic Council
2017	Dr. V.Kannan	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	1	I/I	20/12/2017	27/12/2017
BTech	1	II/I	23/05/2018	05/06/2018
BTech	1	III/II	29/11/2017	16/12/2017
BTech	1	IV/II	08/05/2018	24/05/2018
BTech	1	V/III	17/11/2017	29/11/2017
BTech	1	VI/III	25/04/2018	10/05/2018
BTech	1	VII/IV	14/11/2017	29/11/2017
BTech	1	VIII/IV	24/04/2018	01/05/2018
BTech	2	I/I	20/12/2017	27/12/2017
BTech	2	I/II	23/05/2018	05/06/2018
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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
129	6779	1.9

## 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%202017-2018.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	44	28	63.64
12	BTech	Information Technology	42	33	78.57
8	BTech	Chemical Engineering	24	11	45.83

5	BTech	Computer Science Engineering	188	149	79.26
4	BTech	Electronics & Communication Engineering	198	144	72.73
3	BTech	Mechanical Engineering	146	123	84.25
2	BTech	Electrical & Electronics Engineering	137	104	75.91
1	BTech	Civil Engineering	67	47	70.15
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## 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\\_2017-2018.pdf](http://61.246.187.116/gmritnew/ssr/Others/SSS_2017-2018.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
Dr. G. Thirumala Rao
<a href="#">View File</a>

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
National	P.Praveen Kumar	QIP	09/06/2017	IIT, Roorkee
<a href="#">View File</a>				

### 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
Any Other (Specify)	365	GMRIT	2.96	0
Major Projects	1095	DST	21.84	11

Major Projects	1095	DST	34.64	19.15
Major Projects	1825	DST	100	49
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3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

16
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### 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 Blockchain Technologies	Computer Science Engineering	29/01/2018
Industry driven one credit course on Automotive Electrical and Electronics	Electrical and Electronics Engineering	05/08/2017
Industry driven one credit course on Material and Energy Balance in Process Industry	Chemical Engineering	16/09/2017
Industry driven one credit course on Building Construction Materials	Civil Engineering	29/08/2017
Industry driven one credit course on Land fill design	Civil and Chemical Engineering	04/01/2018
Industry driven Course on Solar PV Power Plant	Power Engineering	01/09/2017
Industry driven course on Tiberio	Computer Science and Engineering	04/08/2017
Deployment on cloud environment using frameworks Tools	Information Technology	30/01/2018
Brain Wave Controlled Robotics Workshop	Electronics and Communication Engineering	02/02/2018
Workshop on Data Analytics and machine Learning	Computer Science and Engineering	26/04/2018
Training Program on 3D Printing	Mechanical Engineering	04/12/2017
Workshop on Industrial Applications of Fluid Dynamics-Pumps Valves	Chemical Engineering	24/01/2018
Workshop on Digital IC Design using Cadence Tools	Electronics and Communication Engineering	22/01/2018
Seminar on Role of Condition Monitoring in	Power Engineering	07/07/2017

Power Plants		
Workshop on HDL Synthesis and Full Custom IC Design	Electronics and Communication Engineering	17/02/2018
Workshop on Solar PV Power Plant	Power Engineering	31/08/2018
seminar on Energy - Features Scope	Power Engineering	17/02/2018
Swarm Robotics Workshop	Electronics and Communication Engineering	02/02/2018
Workshop on Reliability Centered Maintenance and Energy Audit	Power Engineering	26/02/2018
Workshop on Security Identity Management Access Management	Information Technology	04/09/2017
Workshop on Hazardous Municipal Solid Waste Management in India	Chemical Engineering	01/09/2017
Workshop on Nano Materials	Chemical Engineering	30/06/2017
Deployment on cloud environment using frameworks Tools	Information Technology	22/01/2018
Workshop on Security Identity Management Access Management	Information Technology	20/12/2017
Workshop on Essentials of Big Data with Hadoop using analytical platform Big Data Programming	Information Technology	04/09/2017
Workshop on Essentials of Big Data with Hadoop using analytical platform Big Data Programming	Information Technology	24/07/2017
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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
Automatic Feeding for Agriculture	K.Priyamka	Sathish Dhawan Space Centre SHAR	04/10/2017	Science Experiment
Braille Key Board	B.Surya Kiran	JNTUK- University College of Engineering Vizianagaram	07/03/2018	Project Design Contest
Smart and Integrated Brick Machine	Kuna Sai Sameera	Sri Venkateswara Perumal College of Engineering and Technology,	24/02/2018	Project Design Contest

		Chittor, AP		
Kart Design Challenge	Akella Naga Venkata Narasimha Shashank	Galgotias University, India	02/01/2018	Project Design Contest
Hybrid Vehicle Challenge	V S S Varaprasad	Galgotias University, India	17/01/2018	Project Design Contest
Motor Speed Using Aurdino	Dheeraj Kumar Sahu	GMR Institute of Technology	02/02/2018	Project Design Contest
Front End Web Developer Track	S Ranjit Raman	Google India Challenge Scholarship	14/02/2018	Coding Competetion
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### 3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsered By	Name of the Start-up	Nature of Start-up	Date of Commencement
MSME Incubation center	Mr. K.V Rama Harsha	Self Sponsered	IMUX	Development Tool	17/06/2017
MSME Incubation c	Mr. B.Abhiram	Self Sponsered	Sri Lakshmi Ganapathi Apparals	Shopping Mall	07/01/2017
MSME Incubation c	Mr.P.V.Sathvik	Self Sponsered	Digital Media, Marketing and Traveler plan	Digital Media, Marketing and Traveler plan	25/01/2017
MSME Incubation c	Mr Anup Kumar	Self Sponsered	RamGopal Agro Tech private Ltd.	Food and industries	29/09/2017
MSME Incubation c	Mr. G. Shubham Anand	Self Sponsered	BrandOne	E-Commerce Startup, Selling Apparals	04/01/2018
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### 3.4 – Research Publications and Awards

#### 3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
Computer Science and Engineering	2
Inforamation Technology	0
Mechanical Engineering	2
Electronics and Communication Engineering	3
Electrical and Electronics Engineering	2
Chemical Engineering	2
Basic Science and Humanities	2

### 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	50	1.36
International	Electrical and Electronics Engineering	39	1.36
International	Basic Science and Humanities	28	1.36
International	Electronics and Communication Engineering	25	1.36
International	Computer Science and Engineering	24	1.36
International	Chemical Engineering	17	1.36
International	Civil Engineering	17	1.36
International	Power Engineering	14	1.36
International	Information Technology	11	1.36

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### 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 Sciences and Humanities	1
Computer Science and Engineering	7
Information Technology	2
Electronics and Communication Engineering	10
Electrical and Electronics Engineering	22
Mechanical Engineering	6
Civil Engineering	0
Chemical Engineering	18
Power Engineering	2

[View File](#)

### 3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
Autonomous Floor Cleaning Aparatus	Published	201841033568	14/09/2018

[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	Name of	Title of journal	Year of	Citation Index	Institutional	Number of
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Paper	Author		publication		affiliation as mentioned in the publication	citations excluding self citation
State feedback linearization of a non-linear permanent magnet synchronous motor drive	P. Ramana, K. Alice Mary and M. Surya Kalavathi	Indonesian Journal of Electrical Engineering and Computer Science	2018	4	GMRIT	5
Bit error rate analysis of LTE physical layer with different channel models	V Venkataramanan, V.Kannan	International Journal on Communications Antenna and Propagation	2017	5	GMRIT	5
Behaviour of stone column in layered soils using geotextile reinforcement	S. Siva Gowri Prasad, Ch. Vasavi, K. Praveen Sai	International Journal of Civil Engineering and Technology	2017	2	GMRIT	5
Experimental analysis on a diesel engine with cerium-oxide-added mahua methyl ester blends	Chiranjeeva Rao Seela,	International Journal Ambient Energy	2017	4	GMRIT	10
Decentralised non-linear observer-controller scheme for large-scale power systems	Tummala Ayyarao, Kumar Pakki Bharani Chandra,	IET Generation, Transmission Distribution	2018	3	GMRIT	1

Detection, classification, and location of faults on grid connected and islanded ac microgrid	R.K.Patnaik, P.K.Dash	International Transactions on Electrical Energy Systems	2017	10	GMRIT	10
An optimal robotic assembly sequence planning by assembly subsets detection method using teaching learning-based optimization algorithm	M.V.A.Raju Bahubalendruni and Bibhuti Bhushan Biswal	Transactions on Automation Science and Engineering	2017	13	GMRIT	14
Synthesis and experimental investigation of tribological performance of a blended (palm and mahua) biolubricant using the taguchi design of experiment (DOE)	P.N.L. Pavani, R. Pola Rao, C.L.V.R.S. V. Prasads	International Journal of Technology	2017	2	GMRIT	2
Digital image steganography using bit flipping	Aditya Kumar Sahu, Gandharba Swain	Cybernetics and Information Technologies	2018	10	GMRIT	17
Removal of copper by adsorption on treated laterite	K.Gouru Naidu and K.V.Ramesh	Materials Today	2018	26	GMRIT	19
<a href="#">View File</a>						

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
Low Power High Gain Amplifier for Low Voltage Wearable Biomedical Applications	I.Chaitanya, V.Jagana Naveen and B.M.S. Sreenivasa Rao	Indian Journal of Science and Technology	2017	41	0	GMRIT
Development of gui controller for comint scanning subsystem in electronic warfare	Ch.Manikanta, G.Manmadha Rao and M. Jawaharlal	Indian Journal of Science Technology	2017	41	0	GMRIT
The research framework for quantitative safety assessment for safety-critical computer systems	A Venkata Ramana, Jayasri Kotti	Indian Journal of Science and Technology	2017	41	1	GMRIT
Variable length mixed radix MDC FFT/IFFT processor for MIMO-OFDM application	L.Govinda Rao, Kamala Kanta Mahapatra, and Samit Ari	IET Computers Digital Techniques	2018	42	4	GMRIT
Supporting qos differentiation in energy-constrained cognitive radio networks	Lakshmana Rao, Shanti Chiluluri	Wireless Personal Communications	2017	54	0	GMRIT
An optimal robotic assembly sequence	Balamurali Gunji, B.B .V.L.Deepak,	Transactions on Automation Science	2017	77	19	GMRIT

planning by assembly subsets detection method using teaching learning-based optimization algorithm	M.V.A.Raju Bahubalendruni and Bibhuti Bhushan Biswal	and Engineering				
Decentralised non-linear observer-controller scheme for large-scale power systems	Tummala Ayyarao, Kumar Pakki Bharani Chandra, and V. Ramana Rao Pulipaka	IET Generation, Transmission Distribution	2018	102	1	GMRIT
Enhancement of visible-light-driven photo-response of Mn-doped SnO <sub>2</sub> quantum dots obtained by rapid and energy efficient synthesis	B. Babu, A.K.Kadam, G.Thirumal arao, J.shim	Journal of Luminescence	2018	110	23	GMRIT
Performance of glass fiber reinforced geopolymer concrete composites	J. Venkateswararao, Srinivasa Rao Killamsetti, K. Rambabu	Journal of Structural Engineering	2017	138	1	GMRIT
Removal of copper by adsorption on treated laterite	K.Sudha Rani, B.Srinivas, K.Gouru Naidu and K.V.Ramesh	Materials Today	2018	159	26	GMRIT
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3.4.7 – Faculty participation in Seminars/Conferences and Symposia during the year

Number of Faculty	International	National	State	Local
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Attended/Seminars/Workshops	11	48	10	6
Presented papers	46	7	10	5
Resource persons	1	0	2	4
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### 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)
Examinations Section	Infrastructure utilization for Conducting Examinations	TCS-ION	507576
Civil Engineering	SBC soil, Foundation design	Panchayat Raj and IrrigationSub Division, Tekkali	59883
Electronics and Communications Engineering	NHM- H1N1/ Swine Flu	Ministry of Information and Broadcasting	28886.4
Civil Engineering	Concrete Mix Design for Structural Application	M E O, Mandasa	31000
Civil Engineering	Concrete Mix Design for Structural Application	Panchayat Raj and Irrigation Sub Div. Amudalavalasa	18033
Electronics and Communications Engineering	Swachta Mission- Darwaza Bandh	Ministry of Information and Broadcasting	7703.04
Electronics and Communications Engineering	NHM-DENGUE AND MALARIA	Ministry of Information and Broadcasting	7221.6
Civil Engineering	Concrete Mix Design for Structural Application	Panchayat Raj and Irrigation, Rajam	17983
Civil Engineering	Concrete Mix Design for Structural Application	Annapurna Rice, Rajam	14000
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#### 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	Sasi College Ta depalligudem, Ragh Engineering college, AITAM Tekkali, SRKR	10000	20

		Bhimavaram		
Computer Science and Engineering	Data Analytics and Machine Learning	Sarada Institute of Science Technology and Management, Sagi Ramakrishnam Raju Engineering College, JNTU Vizayanagaram, Andhra University, Raghu Engineering College, Miracle Engineering College, Raghu Institute of Technology, Aditya Institute of Technology a	14000	16
Chemical Engineering	Aspen Plus	GVP College of Engg., Visakhapatnam MVGR College of Engg., Vizianagaram	1500	5
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### 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
Childrens Day Special Field Live Show in Local Schools	CRS/GMRIT	1	15
Awareness Programme on Open Defecation Free (ODF)	NSS UNIT/MPDO office	1	100
Conducted awareness sessions on personality development	GAMYAM in association with CSW-GMRVF	2	34
Blood Donation Camp	NSS UNIT/Indian Red Cross Society, Srikakulam	20	150
Vanam – Manam Programme	NSS UNIT/GMR Varalakshmi CARE Hospital/GMRVF	10	100
2K Run for Unity	NSS UNIT/Department of Physical	4	200

	Education		
Awareness Rally on HIV/AIDS	NSS UNIT/Department of Physical Education	4	100
Awareness Programme on Open Defecation Free (ODF)	NSS UNIT/MPDO office	1	100
Awareness Programme on Voting	NSS UNIT/MPDO office	1	100
Awareness Programme on Voting	NSS UNIT/Mandal Revenue Office	1	100
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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
Swatch Bahart , NSS activity	Certificate of appreciation	Panasalavalasa Gram Panchayat	50
Clean Rajam-Green Rajam	Certificate of appreciation	Rajam Major Panchayathi, Rajam	150
<a href="#">View File</a>			

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
2K Run for Unity	NSS UNIT/Department of Physical Education	National Integrity	4	200
Blood Donation Camp	NSS UNIT/Indian Red Cross Society, Srikakulam	Social Service	20	150
Vanam - Manam Programme	NSS UNIT/GMR Varalakshmi CARE Hospital/GMRVF	Environmental Protection	10	100
Awareness Rally on HIV/AIDS	NSS UNIT/Department of Physical Education	AIDS awareness	4	100
Veterinary camp	NSS UNIT/Veterinary Hospital, Regidi	Public Health	1	50

Awareness Programme on Plantation	NSS UNIT/GMRVF	Environmental Protection	1	50
Awareness Programme on Open Defecation Free (ODF)	NSS UNIT/MPDO office	Health Awareness	1	100
Awareness Programme on Open Defecation Free (ODF)	NSS UNIT/MPDO office	Health Awareness	1	100
Awareness Programme on Voting	NSS UNIT/Mandal Revenue Office	Awareness on Human Rights	1	100
Conducted computer Workshops for 8th and 9th standard school children at GMRIT	GAMYAM in association with CSW-GMRVF	Siksha	2	91
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### 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	M. Premkumar	GMRIT	180
Publication	P. Bharani Chandra Kumar	GMRIT	180
Publication	V.Rambabu, J. Ramarao	GMRIT	120
Publication	Sasanko Sekhar Gantayat	GMRIT	365
Publication	V.Jagan Naveen	GMRIT	365
Publication	M.P.Srinvasa Rao	GMRIT	92
Publication	VSSR Gupta	GMRIT	123
Publication	G.Thirumala rao	GMRIT	92
Publication	M.Gangadhar	GMRIT	210
Publication	P. S. Sagar and Ch. V. R. Murthy	GMRIT	240
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#### 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	Duration From	Duration To	Participant



		details			
Internship	Institute-Industry engagement	GS ALLOYS CASTINGS LTD., VIJAYAWADA, M. Ramesh, Manager - Maintenance, 9396912336, mandavaramesh202@gmail.com, Surampalli	29/11/2017	30/03/2018	5
On job training	Institute-Industry engagement	Think Learn, Bengaluru, Gokul S, HR, 95357 43034, gokul.s@byjus.com, Byjus-Think Learn, Bengaluru	15/12/2017	29/03/2018	3
Student FSI	Institute-Industry engagement	NACL, Chilakapalem, Srikakulam, Mr. B. Ravi Kumar, asst Manager-HPD, naclsklmhr@aclind.com	29/11/2017	17/03/2018	1
ON-Job-Training	Institute-Industry engagement	VIVILEXTECH, Visakhapatnam, Mr. Venkat, CEO, 9591 999 899, venkat@vivilextech.com, Vivilex Technologies, Visakhapatnam	11/12/2017	30/03/2018	6
ON-Job-Training	Institute-Industry engagement	EFFECTRONICS SYSTEMS PVT.LTD., Brundavan Colony, Vijayawada, Mr. T. Bhavani Sankar, Vice President. 0866-2466675, info@effctronics.com	11/12/2017	30/03/2018	1
On job training	Institute-Industry engagement	JUST DIAL, Hyderabad, Sparsha	19/07/2017	04/11/2017	4

		Mahendra, Deputy Manager - Human Resources, 0 40-66306888, sparsha@just dial.com, Hyderabad			
Research project	Collaborativ e Research	ISRO, Thiruv ananthapuram , hrddoffice @urisc.gov.in	06/09/2017	06/09/2018	1
Internship	Institute- Industry engagement	Techbins Solution Pvt. Ltd., Eengaluru, Jaiswal, inf o@niki.ai,	27/11/2017	21/04/2018	1
Internship	Institute- Industry engagement	Finsol Techn ologies, 107 Marigold Block Lt Serene County Gachbowli, Hyderabad, Telangana 500032, cont act@finsolte ch.com	22/03/2018	30/06/2018	2
Internship	Institute- Industry engagement	KVR Industries, Rajam, Mr. K. Sita Ram, Director, 9866077488, sitaram.k@kv rgroups.com, Sarasanapall i village, Regidi, Amdalavalasa mandal, Srikakulam	27/11/2017	21/04/2018	1

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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	15/06/2017	Campus recruitment training	849
Institute of	31/07/2017	Language skill	808

language management Pvt Ltd		development	
All India Radio	27/02/2018	Academic collaboration/ Internship	29
Go speedy Go	27/11/2017	On-Job-Training	9
BSNL	30/12/2017	Internship	100
Visakhapatnam Steel Plant	27/11/2017	Internship	25
Hindustan Shipyard Limited	19/01/2018	Internship	90
Atom Soft solutions	03/05/2018	Internship	21
BHEL	04/02/2018	Internship	30
HPCL	24/03/2018	Internship	15
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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
190	163.71

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Others	Newly Added
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Seminar halls with ICT facilities	Newly Added
Classrooms with LCD facilities	Newly Added
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### 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 patially)	Version	Year of automation
Libsys	Fully	7	2005

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	48351	11245704	528	199382	48879	11445086
Reference Books	11728	3127230	801	329413	12529	3456643

e-Books	0	0	3000	278123	3000	278123
Journals	0	0	89	133149	89	133149
e-Journals	0	0	655	1861612	655	1861612
Weeding (hard & soft)	0	0	0	0	0	0
CD & Video	1500	0	0	0	1500	0
Library Automation	1	798370	0	80000	1	878370
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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.M.P.Srinivasa Rao	Engineering Physics	LMS	20/01/2017
Dr.P.Sumati Kumari	Engineering Mathematics-II	LMS	20/01/2017
Dr.VSSR Gupta	Probability and Statistics	LMS	25/11/2017
Dr.Ajit Kumar Rout	Compiler Design	LMS	15/06/2017
Dr Sreerama Murthy Velaga	Unix Programming	LMS	15/06/2017
Mr.Jami Venkata Suman	Microprocessors and Microcontrollers	LMS	25/11/2017
Dr.G.Sasi Kumar	Materials and Manufacturing Processes	LMS	25/06/2017
Dr.A Venkata Ramana	Big Data Analytics	LMS	25/11/2017
Dr.V.Jagan naveen	Digital Signal Processing	LMS	25/11/2017
Dr Sreerama Murthy Velaga	Object Oriented Programming Through JAVA	LMS	15/06/2017
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#### 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	1330	1139	30	18	120	14	9	111	0
Added	31	31	0	0	0	0	0	121	0
<b>Total</b>	<b>1361</b>	<b>1170</b>	<b>30</b>	<b>18</b>	<b>120</b>	<b>14</b>	<b>9</b>	<b>232</b>	<b>0</b>

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

232 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	<a href="http://61.246.187.116/gmritnew/ssr/Others/Lecture_Capturing_Room_Video.mp4">http://61.246.187.116/gmritnew/ssr/Others/Lecture_Capturing_Room_Video.mp4</a>

**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
100	92.99	165	160.44

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.

## 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	447	10287070
Financial Support from Other Sources			
a) National	Andhra Pradesh Government (Fee Reimbursement)	1845	95526450
b) International	Nil	0	0
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#### 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 Wonderful Life Way	20/09/2017	154	Vivekananda Institute of Human Excellence, Hyderabad
Programme on Study-Stress-Success	11/01/2018	292	Vivekananda Institute of Human Excellence, Hyderabad
Yoga Training Class Series	28/08/2017	160	Swami Vivekananda Centre for Human Excellence (SVCHE, GMRIT)
Campus Recruitment Training Phase II	15/07/2017	372	Focus academy for career enhancement (FACE)
Campus Recruitment Training Phase I	15/06/2017	849	Focus academy for career enhancement (FACE)
Programme on Listening skills	15/03/2018	445	Vivekananda Institute of Human Excellence,

			Hyderabad
Programme on Time Management	15/02/2018	456	Vivekananda Institute of Human Excellence, Hyderabad
Training on Heartfulness Meditation	06/02/2018	819	Vivekananda Institute of Human Excellence, Hyderabad
<a href="#">View File</a>			

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
2017	Career Development	25	603	18	481
<a href="#">View File</a>					

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
Motif India Tech	314	51	Cognizant	38	12
<a href="#">View File</a>					

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
2017	1	B.Tech	Computer Science and Engineering	California State University	MS
2017	1	B.Tech	Computer Science and Engineering	Bishops University	MS
2017	1	B.Tech	Chemical Engineering	University of Calgary,	MS

				Canada	
2017	1	B.Tech	Electronics and Communication Engineering	Delhi Technical University	MBA
2017	1	B.Tech	Mechanical Engineering	IIM Bangalore	MBA
2017	5	B.Tech	Mechanical Engineering	NIT Rourkela	M.Tech
2017	1	B.Tech	Chemical Engineering	IISC, Bangalore	M.Tech
2017	1	B.Tech	Chemical Engineering	Otto Von Guericke University, Magdeburg	MS
2017	1	B.Tech	Electronics and Communication Engineer	KU Unleuven, Belgium	MS
2017	1	B.Tech	Information Technology	California State University, Fullerton	MS
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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
GATE	15
Any Other	3
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5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
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	1496
Essay Contest - Stem Club	Institute Level	81
INQUIZITVE - CSE	Institute Level	32
STEPONE 2k18	National Level	1000
Quiz Competition - Stem Club	Institute Level	150
Arduino Programming Workshop - Robotic Club	Institute Level	30



Friendship Day Matches (Basket Ball, Cricket, Volley Ball, Foot Ball, Kho Kho, Shuttle) Only Hustlers	Institute Level	464
New year Matches (Basket Ball, Cricket, Volley Ball, Foot Ball, Kho Kho, Shuttle) Only Hostellers	Institute Level	498
Robo Race - Project and Innovation Club	Institute Level	40
Treasure hunt- Civil Engineering	Institute Level	80
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### 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
2017	Gold Medal	National	2	0	17341A02A3	T.Samyuktha
2017	Gold Medal	National	1	0	16341A04H5	V.Kusama
2017	Silver Medal	National	1	0	15341A0277	P.S.Gangadhar Rao
2017	Bronze Medal	National	1	0	17345A0209	V.Sanjay Kumar
2017	Bronze Medal	National	1	0	16341A0564	G.Nitesh Babu
2017	Silver Medal	National	2	0	16341A1205	B.L.N.K Teja
2017	Gold Medal	National	1	0	16341A0826	V.Vaishnavi
2017	Bronze Medal	National	1	0	16341A0472	K.Sai Sri
2017	Silver Medal	National	1	0	16341A03B6	V.Guna Pravallika
2017	Silver Medal	National	1	0	16341A0547	V.Bhargavi
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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:

738

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

0

5.4.4 – Meetings/activities organized by Alumni Association :

1. 8th April 2018 at Hotel Ramada, Park Road, Bangalore (16th 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: Internship Cell - In line with the vision of the Institute, several measures were taken to improve the quality of education at all levels right from students' entry to exit. Since 2012, i.e. after the achieving status of autonomy, the Institution has embraced best practices in Curriculum Design, Development, Delivery, and Assessment. While understanding the potential of autonomy, the Institute has initiated in offering credited summer and full semester internship to enhance the employability skills of students during the second and fourth year of study. With this background, to make the internship program more robust and sustainable, the Institute has decided to decentralize the activities pertaining to an internship through an Internship Cell similar to Career Development Cell for the activities related to placement. A separate Standard Operating Procedure is developed in 2013 - 2014 for effective implementation and to make it more autonomous with a team of faculty members

chaired by a senior Professor. The entire internship process of i.e. identification of companies, identification of interns, allotment of students and issuing relevant intern offers and follow-up action were completely taken care by the Internship Cell at institute level. Over a period of time, it is observed that the productivity of the internship team is found to be more effective though they have few challenges at the initial stage. Now that, the internship cell developed a rapport with several industries, and able to manage the entire internship process over a phone call rather than visiting the companies in person. Further, the performance of the internship cell has significantly improved in terms of providing an internship with a stipend and pre-placement offer while comparing to that of the first year of implementation. The decentralization has enabled a lot to develop good mileage for industry-institute engagement and delegation of powers is utilized in the right way as it is expected. Practice #2: Annual Technical Festival for a Holistic Development - Since inception, the institute is very much focused towards holistic growth of the students in terms of enhancing the professionalism, leadership grooming, peer-to-peer learning and developing network among their peer group of other institutions to understand the best practices being followed. With this focus, the institute has set a clear-cut guideline for all the departments to establish Professional Student Body Chapters and Clubs. These clubs and societies organize a technical fest every year in the name of STEPCONE. Post accreditation, the institute has taken a decision to make it completely students driven with an approach of participative management across all years of study. Over a period of time, it is observed that while students understanding the importance of participative management, ownership, and responsibilities, students have given very significant improvement in terms of quality registration across the country and the estimated budget has raised to a tune of Rs. 25 Lakhs. Moreover, it is very much impressed that the students have come up with innovative ideas for events to nurture the critical thinking, creativity, Communication and Collaboration.

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, 102 grades, and sports merit.
Industry Interaction / Collaboration	Signing of MoUs for formal collaborative initiatives viz. internships for faculty and students, Curriculum development revision, Guest/Expert lectures, Collaborative research, consultancy and Co-sponsoring of events.
Human Resource Management	1. Transparent policies and procedures are in place for the welfare of the employees 2. Structured 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 welfare of employees

Library, ICT and Physical Infrastructure / Instrumentation

1. To enhance self-learning and research abilities, the 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

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 2. One comprehensive examination to assess the overall learning 3. Question wise valuation to ensure the uniformity and consistency

Teaching and Learning

1. Industry engagement for curriculum delivery in the form of one-credit course and elective courses 2. Capacity building programs for faculty in line with OBE 3. Empowering the faculty to gain expertise and practice Cohesive Teaching Learning Practices (CTLP) in the way it is being expected 4. Video lectures and Lecture notes to facilitate Flipped Learning

Curriculum Development

1. Strengthened the alignment of curriculum design, development, delivery and assessment in line with OBE and OBA 2. More provisions for self-directed learning and project-based learning through the integrated course and strengthening the quality of mini-projects in the form of augmented experiments in all the laboratory courses in line with the definition of POs, "able to do" 3. Increased the frequency of 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

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

E-governance area	Details
Finance and Accounts	SAP (Administration Management System)
Examination	BEES (Examination Management System)
Student Admission and Support	EZ School (Campus 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
2017	Dr. CLVRSV Prasad	IMECE 2017, USA	Nil	48634
2017	Dr. P Bharani Chandra Kumar	Workshop on Illumination at Efftronics Disign Thinking Workshop	Nil	42000
2017	Dr. J. Raja Murugadoss	Disign Thinking Workshop	Nil	30000
2017	Mr.B.Lakshmana Rao	AICTE Induction Program for Students AICTE Induction Program -English Language Teaching -An implication in 21st century	Nil	5950
2017	Dr. T. S. Kishore	Electric Hybrid Vehicles Design Thinking Workshop Soft Computing in Data Analytics	Nil	52779
2017	Dr.G. Chandra Sekhar	IEEE International Conference TENCON 2017	Nil	36381
2017	Mr. M. Balajee	IoT in Smart Living Cyber-Physical-Social Systems	Nil	20700
2017	Mr. M. Premkumar	Soft Computing in Data	Nil	18859

		Analytics SiC devices enabled power converters applications Emerging Trends in Power Energy and Control Innovations in Power Electronics Control and Systems		
2017	Mr.GVSS Sharma	IUCEE International Engineering Educator Certification Program	Nil	6099
2017	Mr.M. Rambabu	Power Electronics for Smart Grid and Renewable Energy Control - Hands on Experience Social Media Marketing	Nil	11303
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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)
2017	A National Seminar on Ecoefficient Waste Water Treatment Techniques from Indian Perspective(EWTP2K17)	Nil	04/11/2017	04/11/2017	45	0
2017	Nil	Oracle SQL hands on Experience	18/05/2017	19/05/2017	0	8
2017	Nil	Programmin g Fundamnets using	25/05/2017	26/05/2017	0	11

		C Language				
2018	Blockchain Technologies	Nil	29/01/2018	29/01/2018	43	0
2018	Data Analytics and Machine Learning	Nil	26/04/2018	27/04/2018	40	0
2018	Nil	Training on HDL Programming	21/05/2018	26/05/2018	0	7
2017	Nil	Training on Xilinx	22/05/2017	27/07/2017	0	7
2018	Nil	training Program on Solar Power Plant	24/03/2018	24/03/2018	0	5
2018	Cloud Computing Open Stack (Workshop)	Cloud Computing Open Stack (Workshop)	12/03/2018	16/03/2018	11	3
2018	Data Analytics Machine Learning (Workshop by CSE IT)	Nil	26/04/2018	27/04/2018	5	0
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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
Electric Vehicles and Systems Design	2	03/07/2017	13/07/2017	11
High Voltage Soft Switching advanced current fed technologies for micro grid and electric transportation (GIAN)	1	08/08/2017	29/08/2017	6
Cyber Security Trends Technologies (GIAN)	1	14/05/2018	18/05/2018	5

Chemical Looping Combustion or CO2 Capture (GIAN)	1	20/11/2017	24/11/2017	5
Alternate Energy Sources for Distributed Generation (GIAN)	3	18/12/2017	22/12/2018	5
Sic Devices SiC Devices enabled Power Converters Applications- Opportunities and Challenges (GIAN)	1	11/12/2017	15/12/2018	5
Artificial Intelligence for MT Brain processing (GIAN)	1	09/10/2017	18/10/2017	10
IOT in Smart Living Cyber-Physical-Social Systems (GIAN)	1	08/01/2018	17/01/2018	9
Machine Learning (GIAN Course)	1	30/10/2017	11/11/2017	13
Internship (CITD, MSME, Govt. of India, Hyderabad)	1	13/11/2017	09/12/2017	28
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
0	28	0	3

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	13633000	Infrastructure and Equipment
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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 and counseling to students 2. Feedback from parents for the overall growth of the Institution. 3. Internship and Placements

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. Leveraged the potential of autonomy in all possible dimensions appropriate to the age of the autonomy in the institute 2. Implementation for the rubrics for interns 3. Significant improvement in Industry engagement through curriculum development, revision, and delivery, faculty internship, assessment, partnering for technical events, expert talk, etc.

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	Internal ISO Audit #1	27/06/2017	03/07/2017	04/07/2017	17
2017	Internal ISO Audit #2	27/06/2017	22/01/2018	23/01/2018	17
2018	External ISO Audit for ACY 2016-2017	03/04/2018	17/05/2017	18/05/2017	40
2017	Examination Reforms	27/06/2017	29/07/2017	29/07/2017	32
2017	Cohesive Teaching Learning Practices (CTLP) for new recruiters]	03/10/2017	09/11/2017	09/11/2017	40
2017	National Workshop on OBE and OBA	03/04/2017	17/05/2017	18/05/2017	40
2017	Effective Use of ICT Tools for Teaching and Learning Process	03/10/2017	25/11/2017	26/11/2017	45

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**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
Ethics Awareness Program	21/04/2017	21/04/2017	58	200
Striking Balance	15/05/2017	16/05/2017	15	45
PASH Training Programme	23/06/2017	23/06/2017	12	12

Sensitization on Women Protection Scheme	23/08/2017	23/08/2017	180	0
Legal Rights of Women (Quiz)	29/11/2017	29/11/2017	44	0
Women's Day Celebrations 2018	08/03/2018	08/03/2018	120	0

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 Percentage of power requirement of the University met by the renewable energy sources-70
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7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	2
Provision for lift	Yes	1
Ramp/Rails	Yes	0
Braille Software/facilities	No	0
Rest Rooms	Yes	2
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
2017	1	1	04/03/2017	1	Clean Rajam - Green Rajam under Swachh Bharat Abhiyan (1st Spell)	To implement "Swachh Bharat Abhiyan to make GMRIT Clean and Green and there by creating	80

						awareness among the internal stakeholders	
2017	1	1	18/03/2017	1	Clean Rajam - Green Rajam under Swachh Bharat Abhiyan (2nd Spell)	Conducted awareness program on "Swachh Bharat - Clean Campus - Green Campus at GMRIT Campus"	90
2017	1	1	25/03/2017	1	Clean Rajam - Green Rajam under Swachh Bharat Abhiyan (3rd Spell)	Conducted awareness program on "Swachh Bharat - Clean Campus - Green Campus at GMRIT Campus"	100
2017	1	1	01/04/2017	1	Clean Rajam - Green Rajam under Swachh Bharat Abhiyan (4th Spell)	Conducted awareness program on "Swachh Bharat - Clean Campus - Green Campus at GMRIT Campus"	75
2017	1	1	15/04/2017	1	Clean Rajam - Green Rajam under Swachh Bharat Abhiyan (5th Spell)	Conducted awareness program on "Swachh Bharat - Clean Campus - Green Campus at GMRIT Campus" Conducted awareness program	70

						on "Swachh Bharat - Clean Campus - Green Campus at GMRIT Campus" Conducted awareness program on "Swachh Bharat - Clean Campus -	
2017	1	1	21/06/2017	1	International Day of Yoga 2017 (21st June 2017)	Conducted Yoga camp to create awareness on work-life balance and significance of Yoga practices	300
2017	1	1	29/07/2017	1	Vanam - Manam	To address the importance of plant tree sapling and planted 75 samplings	100
2017	1	1	09/08/2017	1	Sankalp se Siddhi Pledge for New India Movement 2017-2022	Organized Sankalp se Siddhi Pledge for New India Movement 2017-2022 (New India Pledge for terrorism-free, caste-free, corruption-free, unc	100

						leanness-free, and poverty-free society)	
2017	1	1	31/10/2017	1	Rashtriya Ekta Diwas	Organized 2K run from GMRIT to Dolapeta Junction with a theme to sensitize the community on National Unity Day	200
2017	1	1	12/01/2017	1	World AIDS Day	Organized a rally by engaging the local community to create awareness on AIDS and its consequence	100
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#### 7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
Code of Business Conduct Ethics	01/06/2017	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

		<p>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.</p> <p>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>
<p>Code of Business Conduct Ethics</p>	<p>01/06/2017</p>	<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 behavior 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 if Expenses, Protection of Intellectual property,</p>

Confidentiality and Nondisclosure, Collaboration with in GMR companies, Falsification and Destruction of information, etc

### 7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
World Environment Day	05/06/2017	05/06/2017	23
World Blood Donor Day	14/06/2017	14/06/2017	50
Teachers Day	05/09/2017	05/09/2017	300
Engineers Day	15/09/2017	15/09/2017	300
National Girl child day (India)	24/01/2018	24/01/2018	40
Voter Day	27/01/2018	27/01/2018	55
World Cancer Awareness Day	03/02/2018	03/02/2018	30
World Peace and Understanding Day	23/02/2018	23/02/2018	20
National Science Day	28/02/2018	28/02/2018	100
World Water Day	22/03/2018	22/03/2018	35

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### 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:** Institutional focus on Environment and Sustainability Objectives: • To balance our economic, environmental and social needs, allowing prosperity for now and future generations • To increase student and campus engagement in sustainability initiatives • To reduce carbon footprint inside campus • To promote use of alternative/ renewable energy resources • To increase operational efficiency  
**The Context:** The Institution is committed to improving the health and quality of life during working hours and beyond. The institute recognizes that sustainability supports that mission by striving to improve the environmental health and quality of life for the campus and community. In order to have healthy communities, we need clean air, natural resources, and a nontoxic environment. We require more resources such as energy, water, and space. Sustainability aims to use our resources efficiently to benefit our campus and community. Sustainability and healthcare are intricately related since the quality of our environment affects public health. In this context, many initiatives were started focusing towards environment and sustainability. **The Practice:** As a way forward towards sustainable development, GMRIT started new initiatives to bring a change in the attitude of internal



stakeholders as well as the residents of GMRIT campus. The first initiative was to bring awareness among the students and staff for maintaining a zero waste campus. Further, proper care was taken from segregation of waste to the disposal. We, at GMRIT established a sewage treatment plant for the reuse of wastewater for gardening purposes and sewage sludge as fertilizer. A biogas plant was put to use the food and kitchen waste from hostels to produce gas which in turn is used for cooking in the hostel. Sanitary napkin incinerators in ladies hostel were setup for proper disposal. A solar power plant with net metering facility was established to promote usage of alternative/renewable energy. The most appreciated best practice is the "Pollution Free Thursdays" where no vehicle is allowed to move in the campus. The housewives and maids in quarters are given necessary education in maintaining a plastic free residential area. Another form of dynamic interaction to accelerate campus sustainability involves the external stakeholders. This has resulted in a co-creative approach in various forms of stakeholder engagement. At the end, the existing Green office and residential practices with waste minimization dimensions such as Save Environment and adopt sustainability techniques, Use Less Paper and Practice Recycling, Plastic free campus represent the multiple pronged approaches in promoting and strengthening the campus sustainability initiatives on waste minimization and management. Evidence of Success • 2nd Rank in AICTE Clean Campus Award 2019 • Fully functional solar power plant in campus • Presence of energy efficient and sensor driven electromechanical equipment • Effective Solid and Liquid Waste Management • Lush green eco-friendly campus

Problems Encountered and Resources Required: • Educating the stakeholders from time to time to bring out a mind-set change to adopt to clean campus initiatives • Involves significant amount of budget and personal allocated for maintenance activities

Practice #2

Title of the Practice: Institutional focus towards digitization of learning resources

Objectives: • To develop the skills and confidence of educators in the appropriate and effective use of digital technology to support learning and teaching. • To ensure that digital technology is a central consideration in all areas of curriculum delivery and assessment. • To provide technology equity to students by providing meaningful access to learning resources • To empower students academically by providing them with the 21st Century learning tools • To prepare students for the workplace of the 21st Century, and thereby enhancing local economic development by creating a technologically-literate graduating work force • To enhance the overall learning experience by generating enthusiasm and a more positive learning environment for students

The Context: Recollecting the famous thought provoking sentence by Jenny Arledge - "Technology can become the wings that will allow the educational world to fly farther and faster than ever before if we will allow it," the present world recognized that technology has no bounds in the 21st century. This is the phase of radical development where technology is taking over every niche and corner.

In this context, the institute understands that the education system is evolving for the sake of betterment, as this generations students are not born to be confined by the limits of simple learning their curiosity is vast and cannot be catered with educational systems that were designed earlier. This effect is even more significant with the adoption of outcome based education. If we teach our graduate students the way we taught them yesterday, we would deprive them of their tomorrow. Our old professional engineering educational system lacks the capability to stand a chance in the 21st century. In this regard, a series of initiatives are in place in the institute catering to the specific needs demanded by students and faculty to allow curriculum design delivery assessment to practice outcome based education in the true spirit.

The Practice: Digital learning is replacing traditional educational methods more and more each day. Irrespective of how much technology is integrated into the classroom, digital learning has come to play a crucial role in education. It empowers students by getting them to be more interested in learning and

expanding their horizons. Below are the digital learning initiatives adopted by the institute.

- Access to digital library
- Subscription to e-journals and e-books
- LAN based courses and learning content
- ICT enabled classrooms
- Contemporary curriculum delivery strategies
- Online examinations
- Encourage and incentivize online certification courses

Evidence of Success:

- a. Transformation from traditional lecture class to a discussion oriented class
- b. Increased participation and promotion of healthy competition among students
- c. Self-motivated and more accountable learners
- d. Increased employability skills and campus placements
- e. Increased participation in seminars, paper presentations and project design contests
- f. Increased access to teachers and learning resources during off working hours
- g. Increase in self-paced learning

Problems Encountered and Resources Required:

- a. Students struggle to maintain self-discipline as there is no direct control or is minimal in an professional education system. It is expected that the students maintains self-discipline in utilizing the resources in a judicious manner for improving his/her learning experiences.
- b. Many students find it difficult to manage time and take up digital initiatives in the way they are intended to
- c. Technological difficulties are a major hindrance to digital learning due to location of the institute in a remote place. Students mainly depend on institute internet and during off work hours internet connectivity by telecom operators is meagre and will not support access to entire digital content
- d. Further, to take advantage of the potential of digitization in improving the students learning experience, modern tools like mobile phones, laptops etc. are required by each and every student for usage in the classroom. However, permitting such tools into the classroom is a trade-off between existing government rules, financial status and above all mind-set of the students to use them judiciously without prejudice to core values and ethics of education.

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\\_2017-2018.pdf](http://61.246.187.116/gmritnew/ssr/Others/Best_Practices_2017-2018.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

Institutional Scholarship Schemes for Meritorious Students 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. Further, as the Institution being located in a small rural-based town, Rajam, which is considered to be one of the most economically backward towns in the country, the Institution aims to provide a quality education realizing the quote of Shri. Mahatma Gandhi, "The future of India lies in its villages". With this focus, the Institution evolved a unique strategy to extend Institutional Scholarship Schemes to those students who are meritoriously good and support them to have a quality higher education, which is in par with city-based colleges and even beyond with those of city-based colleges or peer institutions. Having this thought process as the epicenter and after having necessary discussions, the Institution came up with a strategy in 2007 to extend the scholarship to the students at the level of entry and to sustain the performance during their course of B. Tech. program based on the entrance score in State Level Engineering Admission Test i.e. EAMCET (Engineering Agriculture Medical Common Entrance Test) and the academic performance during their course of study respectively. Further, this scheme was extended to all the students on merit basis, which is over and above the financial support being provided by the state government. Irrespective of the financial impact, the institution continues to extend this scheme till date to enable the deserved students to

get benefitted from good quality education. As an outcome of this practice, the Institution also observed that competition among the deserved students to take admission in GMRIT and student demand ratio is also observed with significant improvement year on year for those who are taking admission through EAMCET. Though there are quite a few more best practices and systems being adopted, this particular practice always stands ahead and distinct at all times as this practice was not pre-availing in other peer institutions. In average, 400 students are getting benefitted every year with a financial impact of more than Rs. 50 Lakhs.

Provide the weblink of the institution

[http://61.246.187.116/gmritnew/ssr/Others/Institutional%20Distinctiveness 2017-2018.pdf](http://61.246.187.116/gmritnew/ssr/Others/Institutional%20Distinctiveness%202017-2018.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 2018-2019. 1. To strengthen the internal academic audit process by enhancing the frequency of audit during the particular academic year 2. To involve external members in the audit process once in a year to ensure the systems and processes are in place. Further, the members will be inducted from the institutions of national repute to seek suggestions for continuous improvement 3. Extension of the status of accreditation from 3 to 6 years for B. Tech. (Civil Engineering, CSE, and EEE) 4. To initiate the discussion for curriculum design for the new academic regulation 2019 as well as receive the feedback from stakeholders on the existing curriculum 5. To initiate the discussion to bring examination reforms by deploying Open Book Examination system to foster higher-order thinking skills among the learners from the academic year 2019-2020 onwards 6. To strengthen the collaborations with industries and universities abroad for all academic collaborations 7. Faculty capacity building program on an ongoing basis towards outcome-based education (OBE) and outcome-based accreditation (OBA)