



Yearly Status Report - 2016-2017

Part A

Data of the Institution

1. Name of the Institution		MAHARAJ VIJAYARAM GAJAPATHI RAJ COLLEGE OF ENGINEERING
Name of the head of the Institution		Dr. K. V. L. Raju
Designation		Principal
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		08922241732
Mobile no.		9440018656
Registered Email		principal.mvgr@gmail.com
Alternate Email		dean.ae@mvgrce.edu.in
Address		Vijayaram Nagar, Chintalalavalasa (PO)
City/Town		VIZIANAGARAM
State/UT		Andhra Pradesh
Pincode		535005

2. Institutional Status					
Autonomous Status (Provide date of Conformant of Autonomous Status)			29-Apr-2015		
Type of Institution			Co-education		
Location			Rural		
Financial Status			private		
Name of the IQAC co-ordinator/Director			Dr. P. Ravindranadh		
Phone no/Alternate Phone no.			08922241752		
Mobile no.			9346317178		
Registered Email			dean.sp.mvgr@gmail.com		
Alternate Email			principal.mvgr@gmail.com		
3. Website Address					
Web-link of the AQAR: (Previous Academic Year)			https://www.mvgrce.com/sites/default/files/NAAC/AQAR/AQAR2015-16.pdf		
4. Whether Academic Calendar prepared during the year			Yes		
if yes,whether it is uploaded in the institutional website: Weblink :			https://www.mvgrce.com/sites/default/files/NAAC/AcadCal/ACs2016-17.pdf		
5. Accrediation Details					
Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	A	3.23	2009	15-Jun-2009	14-Jun-2014
2	A	3.14	2015	03-Mar-2015	31-Dec-2020
6. Date of Establishment of IQAC			15-Jun-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
An awareness Programme Niryat Bandhu on Foreign Trade in association with DGFT, Visakhapatnam	27-Jul-2017 1	150
Five-Day Student Training Programme on Interview Self Selling by IIM-C	18-Jul-2016 5	46
FDP on Hadoop & Big data Analytics	14-Nov-2016 6	64
Workshop on Salesforce	06-Aug-2016 2	255
FACULTY DEVELOPMENT PROGRAMME (FDP) ON HADOOP AND BIG DATA ANALYTICS	14-Nov-2016 6	50
Advanced Digital Signal Processing and Applications	08-Nov-2016 6	52
Two Day National Workshop on Emerging Trends in Automotive Technologies:	01-Aug-2016 2	29
A One Week Faculty Development on Real Time Applications Using LabView (RTAL)	28-Nov-2016 6	47
International Conference on Emerging Trends in Water Resources and Environmental Engineering	30-Mar-2017 3	100
Repair, Rehabilitation and Retrofitting of Reinforced Concrete Elements, RRRRCE-16	21-Oct-2016 2	90
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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
Dr D R PrasadaRaju	Adjunct Facultyrogram	AICTE	2016 730	600000
Dr G Anjaneyulu	Empowerment Equity Opportunity for excellence in science	DST	2016 730	3141000
Dr. R. Maheshwaran	INSPIRE Program	DST	2016 730	3500000

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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 :

3

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)

1. Plays key role in inculcating research culture among faculty and students

2. Reviews the status of laboratory equipment through monitoring in a structured method, involving submission of reports and physical verification

3. Facilitates in promotion of ethical values through class room behaviors, use of mobile phones as per rules, etiquette in campus corridors and common spaces, energy saving habits, etc.,

4. Act as a nodal agency of the Institution for coordinating quality related activities, including adoption and dissemination of best practices

5. Prepares Annual Quality Assurance Report (AQAR) as per guidelines and parameters of NAAC, to be submitted to NAAC.

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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
To submit Prequalifiers to NBA so as to get extension of accreditation period for one more year	On submission of Prequalifiers, NBA vide its proceeding dated 09.09.2016 revised the period of the accreditation from 2 years to 3 years(up to 30th June 2018)

"To consider closure of (i) M.Tech.(Machine Design) and (ii) M.Tech.(Computer Science and Engineering)"	"Approval granted by AICTE & JNTUK for closure of (i) M.Tech.(Machine Design) and (ii) M.Tech.(Computer Science and Engineering) With effect from the Academic Year 2017-18"
To consider introduction of new M.Tech. programs with specialisations: (i) Data Sciences, (ii) Communication Systems and (iii) Product Design and Manufacturing	"AICTE has sanctioned the following 3 new M. Tech. Programs effective from AY 2017-18 (i) Communication Systems (ii) Data Sciences (iii) Product Design and Manufacturing."
To encourage staff to pursue higher education by liberally granting academic leaves and financial assistance if norms permit	"(i) Faculty got award of Ph.D. - 14 (ii) Faculty submitted Ph.D. Thesis - 07 (iii) Faculty sponsored to pursue full time Ph.D. - 11"
To organise/conduct faculty development activities on emerging and latest technologies	"(i) As many as 18 faculty development activities such as Symposiums /FDPs/ Workshops/ Conferences were conducted during the period (ii) 11 proposals were submitted by various Departments (CIV-2, MEC-2, EEE-1, CSE&IT-2, ECE-1 and MBA-3) to organize FDPs in the next academic year"
To encourage staff to attend faculty development activities such as Workshops, Industrial Visits and also to pursue MOOCs	"(i) Number of FDPs attended by Faculty - 342 (ii) Faculty Internships - 102 (iii) Number of MOOCs done by Faculty - 205"
To encourage faculty for high quality Research Publications	"(i) No. of paper publications -111 (ii) Number of Publications with impact factor - 84 (iii) An internal grant of Rs. 18,72,000 is disbursed to faculty under various Institutional Funded Projects sanctioned under FORAY (iv) Faculty recognized as Research Supervisors by JNTU-K - 36"
To apply for Research Centre status for more Departments	MEC, ECE, CHE & CSE were already recognized as Research Centres. Applications were submitted for four more departments namely, EEE, CIV, MAT & MBA for grant of Research Centre by JNTUK
To encourage faculty to undergo training on modern tools and emerging technologies	No. of Trained & Certified faculty during period: 60
To sign MoUs with industry	"Institution signed NINE more MoUs with Industry: 1. Tata Consultancy Services (TCS) 2. Virtusa-Polaris 3. CYIENT 4. Leadership Foundation 5. Conduira 6. Costuco Pvt. Ltd 7. Nicco Ventures Limited 8. Internshala 9. Caussius Technologies"
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14. Whether AQAR was placed before statutory body ?	Yes				
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%; text-align: center;">Name of Statutory Body</th> <th style="width: 50%; text-align: center;">Meeting Date</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Management</td> <td style="text-align: center;">23-Apr-2016</td> </tr> </tbody> </table>		Name of Statutory Body	Meeting Date	Management	23-Apr-2016
Name of Statutory Body	Meeting Date				
Management	23-Apr-2016				
15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	No				
16. Whether institutional data submitted to AISHE:	Yes				
Year of Submission	2017				
Date of Submission	17-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)	<p>List of modules currently operational in Management Information System (MIS) During the AY: 201617 MVGR College of Engineering (A) has automated various services which were once done manually. Beginning from 2014, Management Information System, namely ECAP is used in order to automate these services. This ECAP can be accessed both at MVGR and through public terminals, outside MVGR. The following are the modules which are operational: 1) Admin Module (Academic Calendars, Branch Sections, Branches, Certificates, Courses, Credits, Departments, Fee Types, Lecture Halls, Password, Seat Types, Settings, Staff Logins, Subjects, User Levels, Users, Circulars) 2) Fee Payments Module (Payments, Dues List, Fee Adjustments, Fee Reminders) 3) Examinations Module (Exam Application, Exam Names, Exam Paper, Exam Schedule, Exams, Invigilation Charges) 4) Employee Module (Assignments, Attendance, Attendance Download, Leave Management, Staff Vs Courses) 5) Accounts Module (Accounts, A/C Statement, Bank Accounts, Bank Trans Report Bill Clearing, Budget Amount Master, Cash Deposit, Cash On Hand, Cash Withdrawal, Day Book, Expenditures, Expenditures Report, Fee Refund) 6) Admissions Module</p>				

(Admission, Admission Register, Generate Id Cards, Generate Roll Numbers) 7) Academics Module (Attendance Reports, Current Time Table, Electives, Internal Marks, Lab Batches, Lesson Plan, Time Table, Upload Resource) 8) Correspondence Module (Correspondence, Inbox, Mail, Parents Address, Parents, Correspondence, SMS)

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	0	0	30/06/2017
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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	Civil Engineering	01/07/2016	Survey Field work-1(A1CEL201)	01/07/2016
BTech	Civil Engineering	01/07/2016	Managerial Economics and Financial Analysis(A1MST001)	01/07/2016
BTech	Civil Engineering	01/07/2016	GIS & CAD Lab(RT4101M)	01/07/2016
BTech	Civil Engineering	01/07/2016	Computer Aided Engineering Drawing(RT32017)	01/07/2016
BTech	Civil Engineering	01/07/2016	Estimating, Specifications & Contracts(A1CET218)	01/07/2016
BTech	Civil Engineering	01/07/2016	Building Planning & Civil Engineering Drawing(A1CED208)	01/07/2016
BTech	EEE	01/07/2016	Computer Programming(A1CIT001)	01/07/2016
BTech	EEE	01/07/2016	English Language Practice -	01/07/2016

			I (A1EHL001)	
BTech	EEE	01/07/2016	Computer Programming Lab(A1CIL001)	01/07/2016
BTech	EEE	01/07/2016	Environmental Studies(A1CHT001)	01/07/2016
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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	0	30/06/2017
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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	0	30/06/2017

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
3D Modelling of Structures using Auto Desk Revit Structure	01/07/2016	30
Basics of Remote Sensing, GIS GNSS	01/07/2016	7
Hydraulic Analysis of Water Distribution networks using EPANET Software	01/07/2016	9
Training Programme on MATLAB	01/07/2016	18
Basic Course on Automation	01/07/2016	42
Freshman Induction Program	01/07/2016	118
Life Skills Training Program	01/07/2016	140
Corporate Recruitment Training	01/07/2016	98
CFD	01/07/2016	31
CREO	01/07/2016	74
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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
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		Projects / Internships
MBA	MBA	108
BTech	IT	5
BTech	Chemical Engineering	10
BTech	CSE	42
BTech	MEC	256
BTech	EEE	141
BTech	Civil Engineering	24
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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>Mid semester end feedbacks are taken from students on teaching evaluation processes and on course experience. Exit feedback is taken from outgoing students on over all experience of education during the period of study. Suggestions given by students are considered for further improvement. Alumni feedbacks are collected during alumni meets. Feedback is taken from the parents during parents meet and during the study period of their children. Feedback is analysed and suggestions are considered for further improvement of curriculum, training and infrastructure facilities and all such other activities / facilities for upliftment of educational standards in the Institution.</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	CNIS	18	3784	9
Mtech	VLSI	18	4068	6
Mtech	MD	18	1903	10
BTech	CHEM	60	126784	56
BTech	CIV	120	131752	114
BTech	IT	60	133686	60
BTech	EEE	120	135151	117
BTech	CSE	180	131484	179
BTech	ECE	180	131105	180
BTech	MEC	180	135445	180

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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
2016	3913	356	219	16	15

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
250	250	65	64	1	51

[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)

An effective mentoring system is in place at MVGR since long. The salient features of this system are as follows: A group of students are assigned to a faculty member at the commencement of the program. Mentors meet their students and guide them with their studies and extracurricular activities. They also provide advice relating to academics, career guidance and personal problems. The mentoring system of MVGR ensures that the students to adapt to the dynamic learning environment and lead their ways into highly successful careers. Through this mentoring system the faculty acts as a link between the students and the institution and become instrumental in successful conduct of all student related activities including academics

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
3913	250	15.65

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
246	246	0	24	66

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
2016	Dr.Maheswaran	Associate Professor	Inpsire Award
2016	Dr.Maheswaran	Associate Professor	Early Career Research Award
2016	Dr I Sudhakar	Associate Professor	PATHANKI MEMORIAL

			AWARD
2016	B Srinivas	Assistant Professor	Silver Medal for Technical Paper in International Conference
2017	Dr.M.Siva Subrahmanyam	Associate Professor	Editorial board member
2017	Dr.N.Ravi Kumar	Professor	Doctoral Committee Member
2017	Dr R Ramesh	Professor	Member of Project Reviw Monotoring Committee setup by Heavy Industry for Review of Project
2016	Dr. T A N S N VARMA	Associate Professor	Young Scientist Award
2016	Dr.C.Kalyana Chakravarthy	Professor	Certificate of appreciation
2016	Dr. R. Santosh Kumar	Assistant Professor	NET

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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
MBA	03	EVEN Sem	01/05/2017	05/06/2017
Mtech	02	EVEN Sem	22/05/2017	01/07/2017
BTech	01	EVEN Sem	06/05/2017	06/06/2017
MBA	03	ODD Sem	19/12/2016	20/03/2017
Mtech	02	ODD Sem	31/12/2016	09/02/2017
BTech	01	ODD Sem	22/11/2016	09/01/2017

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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
5	2297	0.005

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)

https://www.mvgrce.com/sites/default/files/NAAC/POs/POs_PSOs_COs.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
01	BTech	ODD Sem	952	790	82.98
02	Mtech	ODD Sem	80	79	98.75
03	MBA	ODD Sem	116	113	97.41
01	BTech	EVEN Sem	952	863	90.65
02	Mtech	EVEN Sem	80	68	85.00
03	MBA	EVEN Sem	117	117	100
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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)

<https://www.mvgrce.com/sites/default/files/NAAC/SSS/StudentSatisfactionSurvey2016-17.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
Ms. Sobha Rani
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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	H SUDHA	Visvesvaraya PhD Scheme for Electronics IT	04/01/2017	Ministry of Electronics IT
National	Dr. B. V. Ramanaiah	QIP	01/07/2016	AICTE
National	Dr.Ch.Venkata Rao	Senior Research Fellow	19/12/2016	MHRD, India
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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	Total grant	Amount received
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		agency	sanctioned	during the year
Industry sponsored Projects	1095	SERB-DST	1701310	1200000
Students Research Projects (Other than compulsory by the University)	730	BENAKA-MVGR	1500000	0
Major Projects	1095	DST SERB (EEQ)	3141000	2050000
Major Projects	1095	DST, New Delhi	2658000	2246000
Major Projects	1095	DST	2764000	0
Major Projects	1095	UGC	340000	0
Major Projects	1095	UGC	290000	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

6

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
Repair, Rehabilitation and retrofitting of reinforced concrete elements	CIV	21/10/2016
3 day workshop on hydraulic analysis of water distribution networks using EPANET	CIV	06/01/2017
Best Practices on O M and failure analysis on AC machines in Industries	EEE	23/07/2016
Thermal Power Station Practices	EEE	27/02/2017
Advanced Fuel Efficiency and Combustion Technologies - Fuel efficiency technologies, Combustion photography, HCCI, PCCI, GDI, OPOC,	MEC	02/08/2016
Engine Management, Controls, Measurement and Calibration	MEC	01/08/2016
Alternate Fuel Technologies - Future Emission Regulations and	MEC	01/08/2016

Road Map for India		
Acoustic Signature Mitigation Techniques	MEC	18/08/2016
Pure Substance ETD	MEC	25/10/2016
Life Cycle of An Automobile	MEC	06/12/2016
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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
TECHNOZION - 16, Witricity	A.Udai Keerthi	NIT, Warangal	21/10/2016	Participation
TECHNOZION - 16, Witricity	K.Jyothirmayi	NIT, Warangal	21/10/2016	Participation
TECHNOZION - 16, Witricity	K.Sri Sai Swetha	NIT, Warangal	21/10/2016	Participation
TECHNOZION - 16, Witricity	M.Rupa Devi	NIT, Warangal	21/10/2016	Participation
Andhra University women Electrical Engineering Student Association - Faraday Memorial E-SPECTRA 2K16	Mr. P.Pavan Kumar	Dept. of EE, AUCE for Women,AU., VSKP	01/10/2016	Participation
National Robotic Championship, "Mobile Controlled Robotics (NRC)" - TECHNOZION-16	T. Uday Kumar	NIT,Warangal	21/10/2016	3rd Prize
National Robotic Championship, "Mobile Controlled Robotics (NRC)" - TECHNOZION-16	P. Pankaj	NIT,Warangal	21/10/2016	3rd Prize
National Robotic Championship, "Mobile Controlled Robotics (NRC)" - TECHNOZION-16	P. Bhanu Prakash	NIT,Warangal	21/10/2016	3rd Prize
National Robotic Championship,	P Rohitha	NIT,Warangal	21/10/2016	3rd Prize

"Mobile Controlled Robotics (NRC)" - TECHNOZION-16				
National Robotic Championship, "Mobile Controlled Robotics (NRC)" - TECHNOZION-16	V. Varshini	NIT, Warangal	21/10/2016	3rd Prize
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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
0	0	0	0	0	30/06/2017
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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
MEC	1
ECE	1
CSE	1
SH	4

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)
National	CIV	1	0
International	CIV	18	0.75
International	EEE	4	2.59
International	MECH	41	0.77
International	ECE	30	1.21
International	CSE	15	15.33
International	CHEM	2	0.70
International	IT	2	0
International	MBA	14	1.85
International	MAT	15	0.58
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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
CHEM	4
CSE	12

ECE	35
MECH	7
EEE	14
CIV	3
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3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
A Compact Hexagonal Triangular Fractal Antenna for Wideband Applications	Published	201741035252A	22/12/2016
A New PCB Based Antenna for IoT Applications	Published	201641043764A	22/12/2016
A Modified Bow-Tie Slotted Circular Patch Antenna	Filed	201741034823	31/01/2017
A Quad-band Asymmetric Dual L-Slot fed Dielectric Resonator Antenna (DRA) with Circularly Polarized Bands	Filed	201741035252	31/01/2017
3 Curvy Rectangular Slotted Substrate Integrated Cylindrical DRA with Wide CP Bandwidth and Enhanced Gain	Filed	201741035257	31/01/2017
Multipurpose Modular Semi-Autonomous Underwater Platform for Maintenance, Surveillance and Reconnaissance	Filed	TEMP/E-1/13660/	31/01/2017
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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
An experimental study on	P. Sudheer, M.G.	Advances in Materials	2016	0.371	YES	2

strength of hybrid mortar synthesis with epoxy resin, fly ash and quarry dust under mild condition	Munireddy, and S. Adishesu	Research				
Study on Strength of Innovative Mortar Synthesis with Epoxy Resin, Fly Ash and Quarry Dust	P Sudheer, MGM Reddy, S Adishesu	American Journal of Engineering Research	2016	0	YES	0
Effect of Moderate Temperature (100 degrees C for 5 hours) Exposure on Compressive Strength and Density of Geo-Polymer Concrete	Dr. P Markandeya Raju	International Research Journal of Engineering and Technology [IRJET]	2016	0	YES	0
Mathematical Model for Estimation of Self Weight of Flexural Steel Members	Dr. P Markandeya Raju	International Journal of Optimization in Civil Engineering [IJOCE]	2017	0	YES	1
Effect of wind speed on structural behaviour of monopole and self-support te	Dr. P Markandeya Raju	Asian Journal of Civil Engineering	2017	0.233	YES	7

lecommunication towers						
A Parametric Study on Lateral Load Resistance of Steel Chimneys	Dr. P Markandeya Raju	International Journal of Civil Engineering and Technology [IJCIET]	2017	0.285	YES	0
Parametric Comparison of Communication Towers with Different Bracings	Dr. P Markandeya Raju	International Journal of Civil Engineering and Technology [IJCIET]	2017	0.285	YES	0
Regional scale groundwater modelling study for Ganga River basin	Dr. R Maheswaran	Journal of Hydrology	2016	1.684	YES	0
Wavelet Spectrum and Self-Organizing Maps-Based Approach for Hydrologic Regionalization -a Case Study in the Western United States,	Dr. R Maheswaran	Water Resources management ,	2016	1.007	YES	28
A non-linear and non-stationary perspective for downscaling mean monthly temperature: a wavelet coupled second order Volterra	Dr. R Maheswaran	Stochastic Environmental Research and Risk Assessment	2017	0.902	YES	7

model,

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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
A non-linear and non-stationary perspective for downscaling mean monthly temperature: a wavelet coupled second order Volterra model,	Dr. R Maheswaran	Stochastic Environmental Research and Risk Assessment	2017	62	7	YES
Wavelet Spectrum and Self-Organizing Maps-Based Approach for Hydrologic Regionalization -a Case Study in the Western United States,	Dr. R Maheswaran	Water Resources management	2016	91	28	YES
Regional scale groundwater modelling study for Ganga River basin	Dr. R Maheswaran	Journal of Hydrology	2016	208	0	YES
Parametric Comparison of Communication Towers with Different Bracings	Dr. P Markandeya Raju	International Journal of Civil Engineering and Technology [IJCIET]	2017	22	0	YES
A	Dr. P	International	2017	22	0	YES

Parametric Study on Lateral Load Resistance of Steel Chimneys	Markandeya Raju	International Journal of Civil Engineering and Technology [IJCIET]				
Effect of wind speed on structural behaviour of monopole and self-support telecommunication towers	Dr. P Markandeya Raju	Asian Journal of Civil Engineering	2017	18	7	YES
Mathematical Model for Estimation of Self Weight of Flexural Steel Members	Dr. P Markandeya Raju	International Journal of Optimization in Civil Engineering [IJOCE]	2017	0	1	YES
Effect of Moderate Temperature (100 degrees C for 5 hours) Exposure on Compressive Strength and Density of Geo-Polymer Concrete	Dr. P Markandeya Raju	International Research Journal of Engineering and Technology [IRJET]	2016	0	0	YES
Study on Strength of Innovative Mortar Synthesis with Epoxy Resin, Fly Ash and Quarry Dust	P Sudheer, MGM Reddy, S Adishesu	American Journal of Engineering Research	2016	0	0	YES
An experim	P.	Advances	2016	5	2	YES

ental study on strength of hybrid mortar synthesis with epoxy resin, fly ash and quarry dust under mild condition	Sudheer, M.G. Munireddy, and S. Adishesu	in Materials Research				
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3.4.7 – Faculty participation in Seminars/Conferences and Symposia during the year

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	24	201	29	31
Presented papers	51	24	0	0
Resource persons	5	10	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)
CIV	Material Testing(Concrete, Steel, Bricks, Bitumen and Aggregates.)	APSHCL Vizianagaram, RWSS Vizianagaram, RWSS Cheepurupalli and Other private agencies	187100
CIV	Soil Testing	RWSS Parvathipuram, RWSS Cheepurupalli and Other Private Agencies	71300
CIV	Mix Design	RWSS Parvathipuram, RWSS Kurupam, RWSS L Kota,	32000
CIV	Vetting Reports, Design and Drawings	VUDA, Vensar Meadows	17000
CIV	GSB, WMM, DBM, BC	SVS Mookambika Constructions Pvt. Ltd	24000
CIV	18 road junctions improvement plans	VUDA	345000
MECH	EGR.	JNTUK, Kakinada	1000
MECH	Flexural test.	Lendi Institute of	1000

		Engg Tech	
MECH	Pin on Disc	Lendi Institute of Engg Tech	1900
MECH	UTM	Lendi Institute of Engg Tech	1250
View File			

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
EEE	Training program for ITI/Diploma students on solar plant(Solar Technician) SURYAMITRA SKILL DEVELOPMENT PROGRAMME	NISE- National Institute of Solar Energy- Gurgoan NREDCAP- Vizianagaram	0	26
MBA	Training to Frontline Executives	RINL, Visakhapatnam	48000	80
MBA	Training to District Police Personnel	District Police Training Centre, Vizianagaram	0	40
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
Financial Literacy Awareness Campaign	MVGRCE, NSS Unit [068]	5	60
NSS Volunteers Students Registration Orientation Program	MVGRCE, NSS Unit [068]	5	227
Blood Grouping Hemoglobin test for all first year students	MVGRCE, NSS Unit [068]	8	950
Tiranga March	CHINTALAVALASA	4	50
Distribution of Fruits Clothes at Prema Samajam Blood Donation Camp at	MVGRCE, NSS Unit [068]	4	50

M.R. Hospital, VZM			
Independence Day Celebrations	MVGRCE, NSS Unit [068]	5	150
Vanam-Manam Plantation Program Swatch Bharat	CHELLURU	5	75
Yoga and Meditation Awareness Campaign	MVGR COLLEGE OF ENGINEERING	5	100
Plantation on occasion of " World Environment day"	MVGRCE, NSS Unit [068]	4	50
Distribution of Fruits Clothes at Prema Samajam M.R. Hospital, VZM Blood donation camp at M.R. Hospital, VZM	MVGRCE, NSS Unit [068]	3	50

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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	District Level Award for Mega Blood Donation Camp	Indian Red Cross Society	250
Blood Donation Camp	District Level Award for Mega Blood Donation Camp	Rotary Club, Vishakapatnam	200

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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
NSS	MVGRCE, NSS Unit [068]	Vanam-Manam Plantation Program Swatch Bharat	8	300
NSS	MVGRCE, NSS Unit [068]	Postive Health Camapaign	5	100
NSS	MVGRCE, NSS Unit [068]	Plantation on occasion of " World Environment day"	6	100

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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
Funds for improvement of ST infrastructure	Dr. K. V. L. Raju	DST/FIST	1825
Process optimization studies on Removal of Heavy Metals from Waste Water using Mixed Adsorbents	Dr. D. Krishna	DST/SERC	1095
INSPIRE Faculty Awardees	Dr. R. Maheshwaran	DST/INSPIRE	1825
Design and Development of KU band Micro strip patch antenna Array for Satellite Application	Dr G Anjaneyulu	DST/EEQ	1095
AICTE-Adjunct Faculty	Dr D R PrasadaRaju	AICTE/Adjunct Faculty	180
Manufacturing and Materials Science	B Srinivas	MVGR College of Engg, ARCI	30
Advanced Materials	N Jagadeesh	MVGR College of Engg, ARCI	30
Advanced Materials	N Abhisheik	MVGR College of Engg, ARCI	30

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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 details	Duration From	Duration To	Participant
Internship	Internship	Vizianagaram Bio Tech, Vizianagaram	26/07/2016	26/07/2016	1
Internship	Internship	SPRERI	15/02/2017	17/02/2017	1
Internship	Internship	NCS Sugars, Bobbili	10/01/2017	12/01/2017	1
PhD Research work	QIP	IIT Roorkee	01/06/2016	31/05/2017	1
Research Work	Case Study Preparation	APXOR Pvt. Ltd	01/07/2017	31/07/2017	1
MOU A ONE WEEK TRAINING AND FURTHER	REFRESHABLE COURSE	VIRTUSA CORP	03/07/2016	09/07/2016	2

STUDENTS GET TRAINED ON THEM					
CREO	Job Training	Siemens Industry Software Pvt. Ltd	01/07/2016	31/03/2017	74
CFD	Job Training	Siemens Industry Software Pvt. Ltd	01/07/2016	31/03/2017	31
Internship	Industry Internship	Steel Plant-VSP Hindustan Shipyard-VSP RTC Zonal Workshop-VZM TATA Motors-VSP VARUN Motors-VSP BHEL-VSP Reliance Gas Transportati on Infra Ltd. PSBAH General Industries-Raypur Mahindra Rise Volkswagen-VSP Lakshmi Hyundai - VSP Steel Exchange India	01/05/2017	30/06/2017	226
Internship	Industry Internship	Vishakhapatnam Steel Plant, HPCL - Vishakha Refinery, 220/132Kv TLSS, APTRANSCO Garividi, Hindustan Shipyard Limited, Vishakhapatnam, Visakhapatnam Port Trust, A.P.E .P.D.C.L Dasannapeta, SPM Dept, APEPDCL Visa	01/05/2017	30/06/2017	170

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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
Virtusa Consulting Services Pvt Ltd	08/06/2016	To make the students more exposed to the present industrial needs and requirements thereby reducing the cost and time involved in training.	30
Andhra Pradesh Skill Development Center	01/07/2016	To set up a technical center of excellence	14
Benaka Technologies	30/05/2017	To establish a Biogas plant in the college	21
SIEMENS India Ltd	12/04/2016	Training support to students on Automation and Drive Modules	37
Benaka Bio Technologies	30/05/2016	Bio Gas and Bio Technologies	14
Phytec Embedded Technologies	01/06/2016	Training and Collaborative Research	40
IIM-Calcutta	01/07/2016	Training programme to students by IIM-C Mentor to develop B-Plans	47

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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
232	203.44

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Classrooms with Wi-Fi OR LAN	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
Video Centre	Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Newly Added
Seminar Halls	Newly Added
Classrooms with LCD facilities	Newly Added
Seminar halls with ICT 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
SOUL (Software for University Libraries)	Fully	2	2015

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	4820	3435362	1365	1495664	6185	4931026
Reference Books	1612	855353	546	373916	2158	1229269
e-Books	356	173901	359	188587	715	362488
Journals	131	387662	19	365608	150	753270
e-Journals	1323	2139977	0	2285316	1323	4425293
Digital Database	6252	136800	0	138000	6252	274800
CD & Video	1516	60640	373	14920	1889	75560
Library Automation	0	130000	0	20000	0	150000
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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
0	0	0	30/06/2017
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	1281	0	200	4	1	13	13	200	0
Added	129	0	0	0	0	0	0	0	0
Total	1410	0	200	4	1	13	13	200	0

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

200 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
0	0

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
594.99	496.92	247.42	226.06

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)

Procedures and policies for maintaining and utilizing physical, academic and support facilities (like laboratory, library, sports complex, computers, classrooms etc...) Various committees are constituted with one of the senior faculty as convener to monitor the maintenance of academic infrastructure and facilities. Distinct features

- 1. Maintenance of Buildings:** Maintenance committee headed by Dean (Civil Infrastructure) looks after everything connected to construction maintenance of buildings. College has a Campus Engineer to implement the decisions taken by maintenance committee in connection with maintenance of infrastructure, electrical and plumbing requirements, painting and repairs if any in the campus. In addition, campus engineer attends to the complaints and suggestions from students and faculty.
- 2. Maintenance of Campus:** The day-to-day cleaning of the campus is maintained by the Maintenance Supervisor who reports to the Campus Engineer. Maintenance Supervisor is provided with a team of contingent staff for housekeeping, sanitation and gardening works in the campus daily. The Maintenance Supervisor prepares a schedule for regular maintenance of the campus.
- 3. Maintenance of Library:** the infrastructure and facilities available in the library are looked after by the library staff as per the guidelines for library committee headed by Asst. Principal (Academics). Library stock verification is carried out annually. Up keep of the library is also looked after by the Maintenance Supervisor. The books and journals are kept clean and tidy by the library assistants who report to the Librarian.
- 4. Maintenance of Play Area:** - The Physical Directors are in-charge for the play areas. The cleanliness is maintained with man-power provided by the Campus Engineer.
- 5. Maintenance of Labs Lab Equipment:** The Equipment in the labs is monitored by the lab

technicians who closely observe their functioning calibration regularly and report failures to the lab in-charges. The lab in-charges are responsible for the physical safety, preventive and breakdown maintenance of all lab equipment. They also suggest the purchase of new equipment (necessitated by change of Syllabus), scrapping obsolete and old equipment in the lab stock and for the replacement/ repair of the damaged. The committee ensures the availability and accessibility by keeping the lab infrastructure in working condition. Each Lab is provided with suitable Notice Boards, Display Charts for access to information and enhanced learning. 6. Maintenance of Teaching Aids: All the departments have dedicated teaching aids which are centrally maintained by the E-Service committee headed by a senior professor with the help of system administrator and E-Service committee member representing the department. Department E-service committee member nominated by the HoD is in charge for maintenance and to monitor the teaching aids allotted to the department like department lap-tops, OHPs, LCD projectors, White Screens etc., The maintenance registers are available in the respective departments. 7. All the equipment and the other office infrastructure are maintained under the supervision and guidance of Maintenance Coordinators/Conveners in Electrical, Mechanical and Communication equipment. Whereas, the computers located all over the campus are maintained by system administrator and his team and regular up gradation is carried out for proper functioning.

<https://www.mvgrce.com/sites/default/files/NAAC/Others/PP/ProcedureNPolicies2016-17.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	Academic Awards	68	1402277
Financial Support from Other Sources			
a) National	0	0	0
b) International	0	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
Remedial Classes	01/11/2016	46	MVGR College of Engineering (Autonomous)
Bridge Classes for Lateral Entry Studentss	01/07/2017	27	MVGR College of Engineering (Autonomous)
Skill Development Training Programme	01/04/2017	47	APSSDC-Siemens Technical Skill Development Institute (tSDI)
English language Communication Skills	01/10/2016	180	MVGR College of Engineering (Autonomous)

Lateral Entry Students	20/08/2016	36	MVGR College of Engineering (Autonomous)
Soft skill development	25/07/2016	180	MVGR College of Engineering (Autonomous)
Language lab	13/06/2016	214	MVGR College of Engineering (Autonomous)
Soft skill development	16/01/2017	179	MVGR College of Engineering (Autonomous)
Soft skill development	21/11/2016	214	MVGR College of Engineering (Autonomous)
Supplementary remedial (I sem)	14/11/2016	49	MVGR College of Engineering (Autonomous)

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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	CRT	779	672	0	535
2017	GATE	224	0	78	0

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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
2	2	7

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
38	3384	301	133	710	234

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

Year	Number of students enrolling into	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
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	higher education				
2017	3	CIV, MEC	CIV, MEC	Amity University-Noida	MBA
2017	10	CIV, EEE, MEC, ECE	CIV, EEE, MEC, ECE	Andhra University	M. Tech, MBA
2017	1	CSE	CSE	CQUniversity melbourne	MS (AUS)
2017	1	CSE	CSE	Deakin university	MS (AUS)
2017	1	CSE	CSE	Eindhoven university of technology	MS (USA)
2017	1	Mechanical	Mechanical	GITAM - VSKP	M.Tech
2017	1	CSE	CSE	Griffith university	MS(AUS)
2017	1	ECE	ECE	GVP	M.Tech
2017	1	Mechanical	Mechanical	IBS	MBA
2017	1	EEE	EEE	IIM Sambalpur	PGDM
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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
CAT	4
GATE	40
GRE	9
Civil Services	3
TOFEL	12
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
Combined Annual Training Camp	2(A) CTR Unit Level	65
^B Exam	State Level	32
^C Exam	State Level	15
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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
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2016	Inter University Represented	National	1	0	16331A0266	M.Lokesh Kumar, Chess
2016	Inter University Represented	National	1	0	18331A04D1	R.Deena Ratnam, Chess
2016	Inter University Represented	National	1	0	16331A03D1	R.Kiran Kumar, Basket Ball
2016	Inter University Represented	National	1	0	17331A03A0	M.Anish Kumar, Foot Ball
2016	Inter University Represented	National	1	0	19331A03A0	M.Satya Sai, Foot Ball
2016	Inter University Represented	National	1	0	16331A01A2	T.Samuel, Volley Ball
2016	Inter University Represented	National	1	0	16331A0530	Ch.Reshma, Volley Ball
2016	Inter University Represented	National	1	0	17331A0257	K.Bharathi, Volley Ball
2016	Inter University Represented	National	1	0	17331A0342	Shaik Nazeer, Karate
2016	Inter University Represented	National	1	0	15331A05D5	T.Saketh, Best Physique

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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)

Activity of Student Council representation of students on academic administrative bodies/committees of the institution MVGR College of Engineering has its student active representation on academic and administrative bodies and committees of the college. The student representation is made active at every curricular, co-curricular and extra-curricular initiative in the campus. Students participate at every level of academic and administrative functioning in the college for smooth and effective planning and implementation of the academic policies befitting to the need of the time. The structure of the student representation in the college is as follows: 1. Each class for each

year of study nominates two Class Representatives (CRs) one from girls and one from boys 2. As such each year of study is going to have two CRs for each section in each program department. 3. Like that in every program department for all four years of study section-wise CRs represent the students regarding their issues and concerns related to academic and administrative matters and network between the students, faculty and head of the department for a healthy and happy environment in the campus. 4. In turn, all the CRs elect among themselves and form various student bodies for the smooth and effective conduct of wide range of student activities in the campus. 5. The Student Executive Committee constitutes of President, Vice-President, Secretary, Joint-Secretary, Treasurer and four Executive Members. This is the Central Student Council which leads all ancillary student bodies which are formed to look after specific activities in the campus. 6. The ancillary student bodies are a) Cultural Committee b) Sports Committee c) Anti - Ragging Committee d) NSS Committee e) Magazine Committee f) Women Empowerment g) Entrepreneur Development Committee h) Alumni Committee i) Hostel Committees All together these committees represent students at various levels in supporting the College Academic and Administrative bodies in smooth and effective functioning of the college. The student Executive Committee in coordination with all the ancillary committees plan and organize inter, intra mural, and national level student seminars, workshops, fests, sports and cultural meets in order to equip themselves and their peers to combat the competitive arena assertively. Students have formed different clubs like NSS, SWECHA, UBA and social forums to bring awareness among the school children and people of surrounding villages on various public health and social issues.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

ALUMNI INFORMATION: 1. Alumni Association Registration Number: Alumni Association is registered under societies registration act XXI of 1860 in 2007 with the name MVGR Alumni Association (MAA) (Registration No.100/07) 2. It has two Chapters in other Cities/Countries: One in India at Hyderabad and other Abroad at USA. The Institution is making efforts to identify places where alumni chapters can be started. 3. The institution maintains a separate interactive website on its sub-domain to actively engage with alumni. Regular email exchanges also happen online. The website may be accessed @ <http://www.mvgr-alumni.org> 4. Extent of alumni involvement in the development of the Institution: (Facilitating placements and industrial visits, Providing exposure to different areas in their organizations, Financial assistance for economically backward students, Assistance in identifying consultancy projects)

5.4.2 – No. of registered Alumni:

6349

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

0

5.4.4 – Meetings/activities organized by Alumni Association :

1. Mr Nischal Gadhavarajula, Design Engineer Mercedes Benz, interacted with mechanical students on 16 July 2016 and also extended his support in SAE event
 2. Ms W Lalitha, Lead Consultant TCS, interacted with third and final year students of CSE to enlighten them on essential skills to be inculcated to be successful in interviews. 3. Mr Rajgopal Dora, Sr Program Manager, shared his views on challenges and opportunities for a mechanical engineer student to get into IT industry 4. Ms. K Divya Reddy, Associate Consultant TCS, interacted

with 2nd and 3rd year students of CSE and IT over skype and shared key principles for success in IT industry.

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)

1. The institution is run by academicians. All the sub-committee members who are the management representatives are eminent academicians. 2. The head of the institution has complete academic and operational autonomy and with his rich vein of academic experience, the head of institution ensures the overall teaching and learning process is effective and meets the ever changing demands of the stake holders. 3. The institution has an institutionalized process of encouraging and harnessing participative management at all levels and almost all faculty members are involved in one or the other administrative process in addition to being involved in their regular teaching duties. This ensures the faculty members feel involved in decision making process and the institution has found that this kind of involvement also makes the faculty be more committed to the decisions make the appropriate decision making body with due involvement of faculty members. 4. The institution encourages the individual departments to come up with budget proposals for the upcoming academic year after internal discussion based on broad guidelines and the proposals thus received are reviewed by the institute academic committee. This allows the budget proposals to address the ground level needs of the departments and helps in ensuring budget gets allocated to the right areas. 5. The institute has high-level faculty committees for Research Development, Training and Placement among other things that help drive efforts in their respective areas across the institution on a consistent basis and in line with institution's objectives in these area

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	1. Admission process of the institution is transparent and the government of Andhra Pradesh through APSCHE undertakes counseling through a state level process which is inclusive in its nature. Further the district of Vizianagaram being in a backward area attracts more than design/stipulated percentage admissions in various reserved categories. Therefore, it can be said that the admission process is not only transparent but also highly inclusive.
Industry Interaction / Collaboration	1. Industry interaction 2. Organisation of industrial tours 3. Deputing faculty and staff or industrial training 4. Guest lectures by the experts from industry 5. Collaboration with industries 6. The institution has RD

Cell to collaborate with industries and outside organizations and to take up consultancy works.

Human Resource Management

1. Transparent policy document
2. Transparent and scientific way of selections
3. Imparting related training
4. Formulation and communication of policies of the college
5. Support for academic advancement
6. Systematic performance appraisal system and guidance to the faculty
7. Systematic promotion policies
8. Democratic way of administration with participative management

Library, ICT and Physical Infrastructure / Instrumentation

1. Exit feedback is collected from the students regarding the library facility available in the campus. And the feedback information analysed by the library advisory committee is utilized for further improvement of the library.
2. Computer systems are upgraded with latest configuration once in Three years.
3. Individual up gradation of the computers is taken up as per the need and requirements of the various departments.
4. Enough provision is made available in the annual budgets for the procurement of the computer systems.
5. Once new systems are procured, they replace the existing systems as per the requirements of the departments.
6. All the computer systems in the campus are regularly monitored by the system administrator and maintenance staff.
7. The trouble/problems experienced by the computers in the various laboratories are entered by the lab programmers/technicians in the complaint register.
8. The maintenance staff will then goes to the respective labs for identification of the problems and resolves the same at the respective places.
9. In case of major problems i.e. replacement of component/part during warranty they are sent to the respective service centers and got replaced at the earliest.
10. Computer center is provided with Fourteen servers of different capacities to cater the computer requirements

Research and Development

1. Institute makes separate budget allocation every year to enhance the research facilities for procuring advanced equipment in laboratories beyond the syllabus curriculum and to

procure necessary software. 2. Institute encourages students and faculty to promote research environment and provides incentives who publish journal papers, get research projects from industry and funding agencies. 3. The departments conduct seminars and workshops for inculcating research culture among students and faculty. 4. The institute / departments arrange guest lectures by eminent researches from reputed institutes and industries on emerging and new areas of research. 5. Formulation of Research committee 6. Allocation of budget for in house RD 7. Incentives and rewards for publications/research 8. Financial assistance to students for model buildings

Examination and Evaluation

1. The performance of the students both in midterm examinations and end semester examinations in theory and laboratory subjects and project works are considered as an indicator in evaluating the student performance and also achievement of learning objectives. 2. Further, students are evaluated on continuous basis in the form of conducting tutorials, assignments, class tests etc., to assess the learning outcomes. 3. Direct Assessment: (i) Performance evaluation through internal and external examinations in both theory and lab, (ii) Performance evaluation by conduct of tutorials and assignments and (iii) Performance evaluation in project work. 4. Indirect Assessment: (i) Survey of Alumni, (ii) Exit feedback and (iii) Employer feedback

Teaching and Learning

1. Provision of State-of-the art learning resources in Central Library Information Centre and department libraries. 2. Ergonomically designed classrooms with networking facility 3. Provision of e-classrooms 4. Development of student support material 5. Organisation of Remedial classes 6. Delivery of Add-on-courses 7. Conduct of pre-placement training classes and campus connect programmes 8. Conduct of GATE coaching classes 9. Structured course files and lab manuals on all courses 10. Academic audit 11. Continuous improvement of resources

Curriculum Development

1. The college scrupulously develops action plans for effective

implementation of the curriculum. 2. The College Academic Committee / Council conducts frequent meetings with the Heads of the departments and staff members to come out with various strategies for effective implementation of the curriculum. 3. All faculty members prepare course files for each subject and develop Lab. Manuals for all labs and these are periodically audited and modified with new developments in the field of technology. All efforts are made to maintain the quality sustenance in curriculum delivery.

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

E-governance area	Details
Planning and Development	1. SMS system for dissemination of information including regular notice to students is implemented. 2. ERP Management system is implemented with database of students, faculty and staff etc. 3. Library is automated using 'SOUL' software
Administration	1. Online leave requisition system is made available through ERP Management system. 2. Signage Boards are provided to display notices for students and other stakeholder. 3. PFMS portal is uploaded regularly with expenditure related to Govt. fund. 4. Notices and circulars are uploaded in the college website and communicated to different departments through email from the office of the Principal 5. Salary of faculty members and staff is transferred directly to the bank account
Finance and Accounts	1. College accounts are computerised and maintained through ERP Management system 2. In addition, Tally software is also used to generate various financial reports 3. All financial transactions are being done online including salaries
Student Admission and Support	1. Online admission of students is being done by state government of AP through EAMCET. 2. Student's database is maintained through ERP Management system 3. Information of Course curriculum, Academic calendar, Time tables are made available in the college website. 4. Email IDs and contact numbers of all members of Anti Ragging Committee, Anti Ragging Squad

	and Grievance Redressal Cell have been uploaded in the college website and students can communicate to the members through email 5. Automatic SMS alerts are sent to the parents of students whenever they are absent to class on daily basis. 6. SMS alerts are sent to the parents of students to convey any important information
Examination	1. Examination schedule is provided in web site. 2. Processing of results is automated and results are made available in website. 3. SMS alerts are sent to the parents regarding performance in the examinations of their wards.

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	M.V.V. Bhanu	MBA EMPLOYMENT , ENTERPRENURES HIP REASERCH OPPORTUNITIES IN INDIA	MBA EMPLOYMENT , ENTERPRENURES HIP REASERCH OPPORTUNITIES IN INDIA	8840
2016	D. Siddhardha	MBA EMPLOYMENT , ENTERPRENURES HIP REASERCH OPPORTUNITIES IN INDIA	MBA EMPLOYMENT , ENTERPRENURES HIP REASERCH OPPORTUNITIES IN INDIA	8840

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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	Professional development programmes organized for teaching staff	A Guest Lecture on Earth Science and Engineering Integration in creation of sustainable multi	15/07/2016	15/07/2016	19	0

village
safe
drinking
water
supply in
Vizianagar
am
district
by Sri. B.
Uma
Shankar,
Deputy
Executive
Engineer,
Rural
Water
Supply

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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
Lean Six Sigma Black Belt	11	04/01/2017	08/01/2017	5
Finite Element Methods Applications in Civil Engineering	11	26/06/2017	30/06/2017	5
Recent developments in Structural Engineering at AITAM, Tekkali	11	17/10/2016	22/10/2016	6
Workshop on Coastal Erosion Issues and remedies: Andhra Pradesh Coast	11	19/10/2016	19/10/2016	1
Three Days workshop on Condition Assessment and Rehabilitation of Structures- CARS 2017	11	17/03/2017	19/03/2017	3
Two day hands on training on Groundwater Modelling using VISUAL MODFLOW	11	09/06/2016	10/06/2016	2

Finite Element Methods Applications in Civil Engineering	11	26/06/2017	30/06/2017	5
Lean Six Sigma Black Belt	11	04/01/2017	08/01/2017	5
Earthquake Resistant Design of Buildings	11	19/09/2016	23/09/2016	5
NPTEL course on Earth Sciences for Civil Engineering	11	18/07/2016	18/08/2016	30
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
24	24	11	11

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<p>1. Group Gratuity Scheme for all the staff 2. Provisions of Employees Provident Fund (EPF) ESI 3. Group Insurance cover to the tune of Rs. 2,00,000/- 4. Medical Insurance Cover to the tune of Rs. 1,00,000/- to Employee family members 5. Cash Incentives for Research Publications and other such RD Activities such as Funded Projects, Consultancy, MOOCs, Patents etc... 6. Sponsorship for higher Education through QIP. 7. Academic Leave with Pay to pursue PhD 8. Reimbursement of TA, DA, Registration Fee to attend FDPs such as Seminars / Workshops / Refresher Courses / GIAN / Industry Internships / Training on Modern Tools / etc... 9. Reimbursement of application and registration fee of</p>	<p>1. Group Gratuity Scheme for all the staff 2. Provisions of Employees Provident Fund (EPF) ESI 3. Group Insurance cover to the tune of Rs. 2,00,000/- 4. Medical Insurance Cover to the tune of Rs. 1,00,000/- to Employee family members 5. Pay Scales with allowances 6. Free local transportation for NT Staff 7. Paid Maternity Leave of SIX months</p>	<p>1. Gold Medals and Silver Medals to the best performers. 2. Industrial Visits -free transport. 3. Seminars/Workshops/Refresher Courses - T.A., D.A., Registration Fee reimbursements. 4. Extramural Sports, Cultural Literary Events - T.A., D.A. reimbursements 5. Sponsorship for fabrication/modelling works in projects 6. Free transport for socially disadvantaged students 7. Academic Awards for meritorious students: (a) An amount of Rs.35,000/- cash award for I ranker from each class, (b) An amount of Rs.23,333/- cash award for II ranker from each class and (c) An amount of Rs.11,667/- cash award for III ranker from each class</p>

Patents for filing 10. Financial Assistance / Sponsorship for attending conferences outside India subject to a maximum of 25000/- 11. Sponsorship of Professional Society Memberships free (Full for HODs and 50 for faculty) 12. Internal RD funding to faculty 13. AICTE 6th Pay Scales with allowances 14. Paid Maternity Leave of SIX months

6.4 – Financial Management and Resource Mobilization

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

A well-defined budget formulation process, review and approval are adopted by the institution. The initiation of the budget proposal is made at the department level. The budget requirements prior to the commencement of the academic year are estimated at the department level after thorough discussions among the faculty by considering the needs and requirements of the department. The department prepares the budget estimates based on the discussion and submits to the Institution for review. The Institution vets the proposals in the line with the Vision and Mission and developmental requirements of the Institution and the Department and submits its recommendation to GB for approval. The proposed budget is approved by the Governing Body and the same is intimated to the departments. Optimal utilization and execution of the budget is monitored through internal and external auditing. Internal audit is conducted and the statutory external audit is conducted annually by chartered accountants

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
NIL	0	NIL
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	No	NA	Yes	Internal Audit Committee
Administrative	No	NA	Yes	Internal Audit Committee

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

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Parents meetings are conducted once in a year and their opinions on the academic environment in the campus are collected. After analysing the feedback, their suggestions are considered for improvement. There is no formal parent-teacher association.

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

1. Skill development programs for non-teaching staff are being conducted on a regular basis. Technical, computer and soft skills including MS Office, Tally are the main areas on which training is imparted. 2. Non-teaching staff are encouraged to attend and participate in the technical events organised within the campus or outside so as to enable them to enhance their skills and aptitude. 3. Non-teaching staff are also encouraged to pursue higher education by granting study leaves liberally

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

1. Quality Assurance Initiatives 2. Implementation of Academic Audit System 3. Adopting Best Practices like a. Improving Employability through Skill Development b. Participative Management c. Student Start-up Ecosystem 4. Strengthening Research

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	Yes
c) ISO certification	No
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
2016	Repair, Rehabilitation and Retrofitting of Reinforced Concrete Elements, RRRRCE-16	21/10/2016	21/10/2016	22/10/2016	90
2017	International Conference on Emerging Trends in Water Resources and Environmental Engineering	30/03/2017	30/03/2017	01/04/2017	100
2016	A One Week Faculty Development on "Real Time Applications Using	28/11/2016	28/11/2016	03/12/2016	47

	LabView (RTAL)“				
2016	Two Day National Workshop on Emerging Trends in Automotive Technologies:	01/08/2016	01/08/2016	02/08/2017	29
2016	FACULTY DEVELOPMENT PROGRAMME (FDP) ON HADOOP AND BIG DATA ANALYTICS	14/11/2016	14/11/2016	19/11/2016	50
2016	Workshop on Salesforce “Trail Head”	06/08/2016	06/08/2016	07/08/2016	255
2016	FDP on “Hadoop Big data Analytics”	14/11/2016	14/11/2016	19/11/2016	64
2016	Five-Day Student Training Programme on “ Interview Self Selling” by IIM-C	18/07/2016	18/07/2016	22/07/2016	46
2016	An awareness Programme Niryat Bandhu on Foreign Trade in association with DGFT, Visakhapatnam	27/07/2016	27/07/2016	27/07/2016	150
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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
Empowerment of women at village level Door to Door	30/01/2017	31/01/2017	30	30

Campaign on Abolition of girl child marriages, imparting training to women in sewing, embroidery, knitting and other skills wherever possible.

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

As a part of green initiative, 400kWp Rooftop Solar Power Plant has been commissioned on 01.01.2017. The total cost of the project was 2.56 Crores of rupees. Percentage of power requirement of the College met by the renewable energy sources in 2016-17 is 54.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	100
Provision for lift	Yes	100
Ramp/Rails	Yes	100
Braille Software/facilities	No	0
Rest Rooms	Yes	1500
Scribes for examination	Yes	100
Special skill development for differently abled students	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	30/01/2017	1	Imparting training to women in sewing, embroidery, knitting and other skills wherever	Yes	30

					possible.		
2017	1	1	30/01/2017	1	Empowerment of women at village level Door to Door Campaign on Abolition of girl child marriages	Yes	30
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7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
Service Manual(Professional Ethics and academic Responsibility)	20/06/2017	Service manual is distributed to all Faculty on rolls
Student Hand Book (Rolls and responsibilities including code of conduct)	01/07/2017	Department wise Student Handbooks is prepared every year and the same is distributed to all students on rolls
Examination Manual (Code of conduct of Examinations)	20/06/2017	Examination Manual is distributed to all faculty on rolls

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Distribution of Fruits Clothes at Prema Samajam M.R. Hospital, VZM Blood donation camp at M.R. Hospital, VZM	02/05/2016	02/05/2016	53
Plantation on occasion of " World Environment day"	05/06/2016	05/06/2016	54
Yoga and Meditation Awareness Campaign	21/06/2016	21/06/2016	105
Vanam-Manam Plantation Program Swatch Bharat	28/07/2016	28/07/2016	80
Independence Day Celebrations	15/08/2016	29/08/2016	155
Distribution of Fruits Clothes at Prema Samajam Blood Donation Camp at	26/08/2016	26/08/2016	54

M.R. Hospital, VZM			
Tiranga March	22/08/2016	22/08/2016	54
Blood Grouping Hemoglobin test for all first year students	20/09/2016	22/09/2016	958
NSS Volunteers Students Registration Orientation Program	05/10/2016	10/10/2016	232
Financial Literacy Awareness Campaign	26/06/2016	26/06/2016	65
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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

Initiatives to make the campus eco- friendly? Energy Conservation Institution meters energy segment wise and constantly reviews the same for initiatives for minimizing the consumption. Periodic energy audit is being conducted at regular intervals by EEE department and recommendation made for savings Periodic inspection and maintenance is carried out for improved performance of electrical systems and reduced loss Awareness among the students and staff on energy conservation is created by displays at appropriate places. The buildings are fitted with glass windows for maximum utilization of natural light. Use of Renewable Energy Steps are being taken for the utilization of solar power in the college campus. Water Harvesting To minimize the wastage of water resources and to improve the ground water level, the rain water is led into the pond located in the campus. Efforts for Carbon neutrality Care is taken to restrict vehicle entry into the campus and specific parking area is allotted for faculty and students. The institute restricted the usage of plastic bags in the campus. Plantation Plantation program has been taken up by the NSS unit for increasing the Green Cover in the campus and surrounding villages. The NSS unit regularly conducts awareness programs on plastic free environment in and around the village. Hazardous Waste Management and e-Waste Management The condemned batteries are disposed through outside agencies. Awareness programs are initiated on waste management

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best Practice-I Title of the Practice Improving Employability Through Skill Development Goal In an attempt to bridge the above gaps as well as enhance the employability of its graduates, MVGR College of Engineering has actively been involved in the design and implementation of add-on programs across different engineering streams. The following are the educational objectives and expected outcomes of such add-on programs: 1. To expose students to industry culture and practices 2. To inculcate in students a flair for problem definition and build problem-solving capability 3. To provide hands-on training to students in contemporary industry tools and techniques The Context Despite best efforts at developing a curriculum for industry ready engineering graduates, a targeted and well-established approach towards bridging the gap between the talent pool and the demands of core engineering sectors still needs to be clearly defined. Attempts are being made in pockets to understand the industry need and address the same through add-on programs at the undergraduate level. However, the effectiveness of such programs critically depends upon thorough understanding of industry needs and skill requirements and developing programs, in collaboration with the concerned industry sectors, in order to fill the gap.

Educational institutions typically tend to work in isolation with the demands of the industry leading to engineering content delivery being mostly textbook oriented and traditional. Students hardly ever get to understand or be exposed to state-of-the-art developments in their respective fields. The Practice

Administering an add-on program requires careful consideration of the engineering curriculum already being delivered, the gaps in the curriculum that need to be plugged to make the student industry-ready and the ability of the administering department to effectively bridge this gap. The following is the procedure adopted by departments in introducing an add-on program to bridge curricular gaps: i. Review the academic curriculum and identify gaps in the content ii. Define industry sector requirements and identify potential skill development/training programs to augment student capability iii. Prepare a clear mapping of the curricular gaps with the proposed skill development program iv. Identify available infrastructure with the department and propose additional facilities (if any) required (with budgetary requirements) v.

Identify faculty competency available in the department (if any) in the proposed area and/or propose faculty skill enhancement plan (with budgetary requirements) vi. Anticipated intake, proposed course fee and viability of the programme A Detailed Project Report covering the above activities along with the estimated budget, possible demand, proposed course fee and viability for break-even within 5 years is prepared by the department proposing to introduce an add-on program. The report of the department is reviewed by the central administrative team of the college chaired by the Principal. Upon approval of the proposed program, the department proceeds with implementation of the add-on program. The central administrative team is responsible for monitoring the effectiveness of delivery of the add-on programme and in ensuring that the

stated objectives and outcomes are met while the departmental program committee, consisting of a team of faculty with relevant training, bears the responsibility for implementation and successful delivery of the program. The college has put in place suitable add-on programs in collaboration with industry to bridge skill gaps. The course content for these programs are detailed based on discussions with the concerned industry and the individual delivery modules and their contents are finalised. The programs are delivered to the students during their course of study at the undergraduate level typically beginning from the later half of their II year and ending in the first half of their final year of study. By the time they complete their B.Tech program, they also receive certification of completion of these industry-

oriented training modules. Evidence of Success • Increased student employability as reflected in improved placements • Increased competency and resulting enhanced delivery from faculty in their teaching learning • Increased RD capacity resulting in significant improvement in research proposals •

Substantial growth in Industry- Institution collaboration As a result: The college is implementing 8 such add-on programs which are given below: 1. Oracle Certified Java Programmer (OCJP): - This is certified by Oracle Corporation. Over 100 students from the Computer Science and Engineering department have the prestigious OCP certification 2. Creo-2.0:- This is certified by Parametric Technology Corporation. The course was started in 2009 and till date, 160 students have completed the course. Of these, 41 students were placed in various MNCs on the strength of their certification training 3. NI LabVIEW:- NI

LabVIEW Academy has been set up in the college by National Instruments Corporation for training on design and deployment of systems for embedded design applications 4 Process Equipment Design-SIMTECH 5 Technology Learning Center-VLSI-WIPRO Technologies 6 SIEMENS -AC Drives 7 New Down Automation-PLCs

8 Think Labs-Embedded Systems These and few other such add-on programs currently being administered in the college have given a big edge to the students in enhancing their employability. Many of these students easily get placed on the strength of their skill enhancement. Problems Encountered and Resources Required When applied practically, a few gaps exist between the

proposed methodology and practical implementation. This is mainly because of the financial constraints as each department is given budgetary allocations exclusively to meet costs of academic services which are curricular in nature.

Hence the need for procurement of auxiliary infrastructure to meet the industrial skill needs to be carefully planned and administered properly. To avoid this, measures are taken to anticipate the requirements so that resources can be not only well maintained but also managed to enhance the purpose of skill development. Apart from this, faculty have to be properly trained to justify the objective of the value added program by being flexible to the changes in the current trend. Should there be lack of pace with the contemporary versions of the technology, an aggregate overview of the package is lost. Faculty with aptitude in the program are therefore sent for training at the respective organizations in advance to be able to handle the training programs. Notes(Optional) Nil Contact Details Name of the Principal: Dr. K. V. L. Raju Name of the Institution: City: MVGR College of Engineering Pin Code: 535005 Accredited Status: Accredited with A Grade Work Phone: 08922 241732 Fax: 08922 241014 Website: www.mvgrce.edu.in E-mail: principal.mvgr@gmail.com Mobile: 9440018656 Best Practice-II Title of the Practice Participative Management Goal • To promote in the faculty a sense of belongingness and responsibility for the overall development of the college through collaborative and participative management, the faculty are oriented and motivated to plan, organise and implement activities related to a specific institutional requirement such as conduct of examinations, purchases, civil and infrastructural development etc. The Context For the success of any organisation, it is imperative that all its employees feel a sense of belongingness and learn to take responsibility for the effective functioning of the organisation. In most organisations, employees are given a set of responsibilities and expected to execute them to some degree of conformance. They generally do not have much of a say in the overall integration of these responsibilities to the development of the organisation. Only those organisations that are able to motivate their staff to see and take responsibility for the overall functioning of the organisation can go the extra mile in delivering quality output through coordinated and concerted efforts of the staff and not through individual excellence. The Practice For the overall administration of the institution, there are several requirements that need to be planned and addressed effectively. Generally, the overall responsibility for this lies with the Principal of the college, who, along with a team of administrative staff, attempt to execute the same. This places the entire onus of success of the institution on this team as also the burden of its execution. Moreover, such an approach tends to isolate individual faculty members from the overall institutional challenges for they fail to identify themselves in suitable assistive roles. The practise at MVGR College has been to draw in all its faculty members into different administrative roles so that each and every faculty of the college feel responsible for the overall success of the institution. The faculty are therefore grouped into various committees each headed by a senior faculty member who serves as convenor of the committee. The following are some of the major committees of the college: 1. Examination Cell 2. Purchase Committee 3. Training and Placement Cell 4. Alumni Cell 5. Library Committee 6. RD Cell 7. Maintenance Committee 8. Disciplinary Committee 9. Grievance Cell 10. College Academic Council 11. E-Services Committee 12. Women Empowerment Cell 13. Cultural Committee 14. Canteen Committee 15. IQAC 16. Magazine Committee The members of each of these committees are drawn one from each department. The Principal of the college serves ex-officio as chairman of all these committees. The members of each of these committees meet on a regular basis to plan, coordinate and implement various developmental activities under their purview. The challenge faced in such an approach is to bring all faculty involved onto a common platform to be able to appreciate the

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

<https://www.mvgrce.com/sites/default/files/NAAC/Others/BP/BestPractices2016-17.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

As identified by several surveys, there exists a large gap between industry and academia especially in professional education. This has led to the poor employability of professional graduates. The institution has as its primary vision objective, defined its mandate to provide high-quality education tailored to the needs of students in the emerging technology age. Since it acquired autonomy status in 2015, MVGR has been actively building curriculum and pedagogy approaches to bridge this gap. MVGR conduct bridge courses in basic sciences for students at the first year level to supplement their understanding and build a common platform before embarking on their respective professional programs. Attempt is made by the faculty to also bring in relevant program-wise examples of application of basic sciences (math, physics and chemistry) so that students can better appreciate the importance of strong foundation in basic sciences. Once this platform is built, individual programs deliver their respective curricula that have been developed comprehensively by the concerned faculty members. The curricula attempts to integrate industry practices into academic settings to give students exposure to real-life scenarios both in classroom as well as laboratory sessions. In the classroom, this has been done through the introduction of industry parts catalogue for design and selection of suitable part. In the laboratory, attempts have been made to recreate industry scenarios that students have to address through suitably self-designed experiments and present the solution to the problem. Elective course on leadership using a case-based approach as adopted in the world's best management institutions such as Harvard and MIT, was introduced at the undergraduate level to engineering students to give them exposure to alternate pedagogical approaches as well as to prepare them for leadership careers in industry. The autonomous curriculum also offers elective streams that are carefully designed to build competence in upcoming areas of technology such as cloud computing, big data analytics, product development etc. rather than providing a list of electives alone. These major curriculum development initiatives have helped the faculty members carefully understand the needs of the student in the present smart connected age and build competence in them accordingly through a combination of curriculum, pedagogy approaches and evaluation methodologies.

Provide the weblink of the institution

<https://www.mvgrce.com/sites/default/files/NAAC/Others/ID/InstitutionalDistinctiveness2016-17.pdf>

8.Future Plans of Actions for Next Academic Year

1. To focus more and improve training on communication skills
2. To broaden the scope of Career Guidance Cell
3. Increased engagement in training for National Level Competitive Examinations
4. To work for improved core industry participation in placements
5. To work for deeper engagement of Students through Professional Club Activities
6. To progressively strengthen faculty and student certifications through MOOCs platform
7. To focus more on Faculty interaction with outside world
8. To further strengthen Research and Consultancy
9. To work for IPRs Patents
10. Deeper engagement of students in community services
11. To become Residential Campus

