



## Yearly Status Report - 2017-2018

### Part A

#### Data of the Institution

<b>1. Name of the Institution</b>		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

<b>2. Institutional Status</b>					
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		
<b>3. Website Address</b>					
Web-link of the AQAR: (Previous Academic Year)			<a href="https://www.mvgrce.com/sites/default/files/NAAC/AQAR/AQAR2016-17.pdf">https://www.mvgrce.com/sites/default/files/NAAC/AQAR/AQAR2016-17.pdf</a>		
<b>4. Whether Academic Calendar prepared during the year</b>			Yes		
if yes,whether it is uploaded in the institutional website: Weblink :			<a href="https://www.mvgrce.com/sites/default/files/NAAC/AcadCal/ACs2017-18.pdf">https://www.mvgrce.com/sites/default/files/NAAC/AcadCal/ACs2017-18.pdf</a>		
<b>5. Accrediation Details</b>					
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
<b>6. Date of Establishment of IQAC</b>			15-Jun-2009		
<b>7. Internal Quality Assurance System</b>					
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
Quality Control and Non-Destructive Testing of Structural Elements	27-Oct-2017 1	50
Repair, Rehabilitation and Retrofitting of Reinforced Concrete Elements, RRRRCE-17	04-Aug-2017 2	80
MATLAB Applications in Civil Engineering	28-Aug-2017 4	45
Structural Reliability	08-Dec-2017 2	60
Applications of Remote Sensing and Geographic Information System for Water resources Management	27-Mar-2018 2	45
A One week Faculty Development Program on Power Electronic Applications for Renewable Energy and Electric Vehicle (PEREEV-2017).	04-Dec-2017 6	44
Lean Six Sigma Training	01-Apr-2017 30	5
Two Day National Workshop on Mechanical and Electrical Architecture of CNC Machine Tools	12-Jun-2017 2	25
Two Day National Workshop on	08-Dec-2017 2	68
Two Day National Workshop on EDGE CAM-2018	27-Apr-2018 2	10
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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 R Maheswaran	DST	SERB	2018 365	10433360
Dr. S Samantham	UGC	CSR	2018 1075	80000
Dr. P Ganesan	DST	Seminar Grant	2018 365	75000
Dr R Maheswaran	DST	Intl. Conference	2017 365	100000

Dr R Maheswaran	DST	SERC	2017 1095	1701310
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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)**

Plays key role in inculcating research culture among faculty and students

Facilitates in conduct of awareness campaign on "environment and climate change" and on "green practices to be adopted". And also plays a role in maintenance of campus cleanliness and Hygiene

Plays key role in dissemination of information on various quality parameters of higher education.

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

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 appoint industry experts as adjunct faculty as per the norms of AICTE	Appointed 17 industry experts as adjunct faculty in various departments.

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. - 9 (ii) Faculty submitted Ph.D. Thesis - 06 (iii) Faculty sponsored to pursue full time Ph.D. - 10
To organise/conduct faculty development activities on emerging and latest technologies	(i) As many as 14 faculty development activities such as Symposiums /FDPs/ Workshops/ Conferences were conducted during the period (ii) 9 proposals were submitted by various Departments (CIV-2, MEC-2, EEE-1, CSE&IT-2, ECE-1 and MBA-1) 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 - 242 (ii) Faculty Internships - 302 (iii) Number of MOOCs done by Faculty - 234
To encourage faculty for high quality Research Publications	(i) No. of paper publications -198 (ii) Number of Publications with impact factor - 78
To apply for Research Centre status for more Departments	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: 47
To offer certification programs to students on emerging trends and advanced technology	A total of 443 students got certifications on emerging trends and advanced technology: (i) GIS in collaboration with IIRS (ii) EPANET (iii) Training Program on SIEMENS PLC (iv) PTC (Creo, ProE) (v) CFD (vi) Embedded Systems Certification Program (vii) NI Lab-View Training Program (viii) IoT (ix) JAVA (x) CCNA (xi) CEH (xii) Interview Self Selling (xiii) Coding Contest
To encourage students to participate in Student development activities	(i) Student Internships & Professional Club activities : 916 (ii) Paper presentations by students: 151 (iii) Guest lectures and seminars arranged for students: 33 (iv) Students represented JNTUK in sports: 13 (v) Institutional Academic awards received by students: 65
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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;">20-May-2017</td> </tr> </tbody> </table>		Name of Statutory Body	Meeting Date	Management	20-May-2017
Name of Statutory Body	Meeting Date				
Management	20-May-2017				
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	2018				
Date of Submission	26-Feb-2018				
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: 201718 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) Hostel Module (Hostel,</p>				

Adjust Room Allotment, Application, DeRegistration, Outing Registration) 7) Admissions Module (Admission, Admission Register, Generate Id Cards, Generate Roll Numbers) 8) Academics Module (Attendance Reports, Current Time Table, Electives, Internal Marks, Lab Batches, Lesson Plan, Time Table, Upload Resource) 9) Placements Module (Companies, Offers, Reports) 10) Transport Module (DeSubscription, Defaulters List, Due Date, Route Halts, Students Halts, Subscription, Vehicle Expenditure Vehicles ) 11) 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	30/06/2018
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1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
BTech	Civil Engineering	01/07/2017	Surveying Laboratory (A1CEL201)	01/07/2017
BTech	Civil Engineering	01/07/2017	Managerial Economics & Financial Analysis(A1MST001)	01/07/2017
BTech	Civil Engineering	01/07/2017	GIS & CAD Lab(A1CEL209)	01/07/2017
BTech	Civil Engineering	01/07/2017	Building Planning & Civil Engineering Drawing(A1CED208)	01/07/2017
BTech	EEE	01/07/2017	Computer Programming(A1CIT001)	01/07/2017
BTech	EEE	01/07/2017	Basic Engineering Workshop(A1MEW001)	01/07/2017
BTech	EEE	01/07/2017	Environmental Studies(A1CHT00)	01/07/2017

			1)	
BTech	CSE	01/07/2017	Data Sciences and Analytics(A1CIT316)	01/07/2017
BTech	CSE	01/07/2017	Neural Networks & Soft Computing(A1CIT315)	01/07/2017
BTech	CSE	01/07/2017	Structured Data Storage DBMS(A1CIT406)	01/07/2017
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## 1.2 – Academic Flexibility

### 1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
Mtech	Product Design and Manufacturing(Mechanical)	01/07/2017
Mtech	Communication Systems (ECE)	01/07/2017
Mtech	Data Sciences (IT)	01/07/2017
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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	NIL	30/06/2018

## 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
Multi Stage Building Design Using Staad Pro	01/07/2017	11
Computer Aided Drawing for Civil Engineers	01/07/2017	23
Hydraulic Analysis of Water Distribution networks using EPANET Software	01/07/2017	19
Basics of Remote Sensing, GIS GNSS	01/07/2017	11
CCNA(Add-on) M.Tech	01/07/2017	4
CCNA(Add-on) B.Tech	01/07/2017	42
Python	01/07/2017	83
Salesforce	01/07/2017	58
IoT	01/07/2017	60
Leadership Development	01/07/2017	111



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### 1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BTech	Civil Engineering	47
BTech	EEE	192
BTech	Mechanical	270
BTech	CSE	22
BTech	CHEM	29
BTech	IT	9

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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

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

## CRITERION II – TEACHING- LEARNING AND EVALUATION

### 2.1 – Student Enrolment and Profile

#### 2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BTech	MECHANICAL	180	133653	180
BTech	ECE	180	181737	179
BTech	CSE	180	142437	180
BTech	EEE	120	142878	114
BTech	IT	60	128345	60
BTech	CIV	120	138101	108
BTech	CHE	60	138256	51

Mtech	VLSI	18	2941	5
Mtech	CNIS	18	1743	3
MBA	MBA	120	54264	119
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## 2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2017	3947	327	221	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
252	252	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
4274	252	1:16.9

## 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
240	240	0	23	73

### 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
2018	Dr.Maheswaran	Assistant Professor	Best Researcher

			Award
2018	K Krishna Kumari	Assistant Professor	NET
2017	B Srinivas	Assistant Professor	1st prize in ICRAMMCE 17 International conference
2018	Dr R Ramesh	Professor	Member of Project Reviw Monotoring Committee setup by Heavy Industry for Review of Project
2017	Dr.C.Kalyana Chakravarthy	Professor	Certificate of appreciation
2017	Dr.C.Kalyana Chakravarthy	Professor	Adarsh Vidya Saraswati Rashtriya Puraskar
2017	Dr.P.Ravi Kiran Varma	Associate Professor	Instructor Years of Service
2017	Dr.P.Ravi Kiran Varma	Associate Professor	Instructor Excellence Award: Advanced Level Instructor
2017	Dr. S.V.A.R.Sastry	Associate Professor	Selected in the prestigious 2000 Outstanding Intellectuals of the 21st Century, 10th Ed." (published in IBC- International edition in Nov. 2017)
2017	Dr. S.V.A.R.Sastry	Associate Professor	Selected in the prestigious "Dictionary of International Biography- 39th Edition"
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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	23/04/2018	23/05/2018
MBA	03	ODD	06/12/2017	05/02/2018
Mtech	02	EVEN	23/04/2018	11/08/2018
Mtech	02	ODD	02/12/2017	27/12/2017

BTech	01	EVEN	21/04/2018	19/05/2018
BTech	01	ODD	11/11/2017	23/12/2017
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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
0	0	0

## 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](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
03	MBA	EVEN	108	108	100
03	MBA	ODD	107	102	95.33
02	Mtech	EVEN	47	39	82.98
02	Mtech	ODD	47	47	100
01	BTech	EVEN	1015	967	95.27
01	BTech	ODD	1015	855	84.24
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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/StudentSatisfactionSurvey2017-18.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

No
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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
International	Dr.Maheswaran	Humboldt Award	01/01/2018	AVH Germany
National	Dr.Maheswaran	Best Researcher Award	01/12/2018	JNTU K

National	T Sudhakar	MHRD Fellowship	01/06/2018	MHRD
National	Dr R S Umamaheswara Raju	Ph D	16/06/2017	JNTU ,Kakinada
National	Dr M Kannam Naidu	Ph D	21/08/2017	Andhra University, Visakhapatnam
National	Dr B Madhavavarma	Ph D	18/10/2017	JNTU Ananthpur
International	M VINODH KUMAR	Sakura Science Fellow	11/01/2017	SAKURA Japan Science Technology
National	Dr. B. V. Ramanaiah	QIP	01/07/2017	AICTE

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### 3.2 – Resource Mobilization for Research

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

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Projects sponsored by the University	1095	DST	10400000	2900000
Projects sponsored by the University	365	MVGRCE	320000	111431
Projects sponsored by the University	365	MVGR Research Board	365000	365000
Projects sponsored by the University	730	BENAKA-MVGR	160000	160000
Projects sponsored by the University	365	MVGR Research Board	318130	318130
Projects sponsored by the University	730	BENAKA-MVGR	1500000	0
Projects sponsored by the University	365	MVGR Research Board	365000	365000
Projects sponsored by the University	365	MVGR Research Board	365000	365000
Projects sponsored by the University	1095	MVGR-UNISA	160000	0
Major Projects	1095	DST, New Delhi	29.1	2.16

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#### 3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies

during the years

5

### 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
International Conference in Emerging Trends in Water and Environmental Engineering	CIVIL	30/03/2017
National Seminar on Structural Reliability	CIVIL	08/12/2017
MATLAB Applications in Civil Engineering	CIVIL	28/08/2017
Repair, Rehabilitation and retrofitting of reinforced concrete elements	CIVIL	04/08/2017
VFD Controllers in Industry	EEE	08/07/2017

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3.3.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
SAE 12th National Student state level convention	BODDETI SIVA TEJA	MLRIT ,Hyderabad	30/03/2018	Manufacturing Tech Challenge Ist Position- Diagrammatic Reasoning 2nd Position
SAE 12th National Student state level convention	ATHMURI ROOPESH	MLRIT ,Hyderabad	30/03/2018	Design of Assembly Ist Position- Diagrammatic Reasoning 2nd Position
SAE-TIER-II- Student convention	BUGATHA BALAJI	CMRIT ,HYDERABAD	29/12/2017	Third position
Wildcard Mesmerize Techfest	Raparathi Jayaram Shaman Sarma	IIT Bombay	29/12/2017	Participation
International Conference on Cognitive Informatics and soft computing (ICCISC-2017), Title: Power Quality Improvement of	V.Varun Rohit	Dept of CSE IT, VBIT, Hyderabad	20/12/2017	Participation

a PV an Fuel cell connected microgrid				
IET Sponsored Workshop on "Modelling Control of Solar Energy Systems	P.Pavan Kumar	Department of EIE, Eswari Engg. College, Chennai	31/07/2017	Participation
IET Sponsored Workshop on "Modelling Control of Solar Energy Systems	K. Navya	Department of EIE, Eswari Engg. College, Chennai	31/07/2017	Participation
IET Sponsored Workshop on "Modelling Control of Solar Energy Systems	Ch. Kavya	Department of EIE, Eswari Engg. College, Chennai	31/07/2017	Participation

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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
NIL	NIL	NIL	NIL	NIL	30/06/2018

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### 3.4 – Research Publications and Awards

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

Name of the Department	Number of PhD's Awarded
EEE	1
Mechanical	3
ECE	1
CSE	1
IT	1
SH	2

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

Type	Department	Number of Publication	Average Impact Factor (if any)
National	Civil	2	0
International	Civil	19	0.26
International	EEE	15	2.81
International	Mechanical	49	0.5
International	ECE	34	0.52
International	CSE	15	1.48

International	Chemical	13	2.64
International	IT	1	0
International	MBA	18	1.26
International	MAT	9	0.75
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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
MAT	2
CSE	12
ECE	30
Mechanical	9
EEE	6
Civil	6
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3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
A Modified Bow-Tie Slotted Circular Patch Antenna	Published	201741034823	29/09/2017
A Quad-band Asymmetric Dual L-Slot fed Dielectric Resonator Antenna (DRA) with Circularly Polarized Bands	Published	201741035252	05/10/2017
3 Curvy Rectangular Slotted Substrate Integrated Cylindrical DRA with Wide CP Bandwidth and Enhanced Gain	Published	201741035257	05/10/2017
Multipurpose Modular Semi-Autonomous Underwater Platform for Maintenance, Surveillance and Reconnaissance	Published	TEMP/E-1/13660/	04/04/2018
<a href="#">View File</a>			

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	Number of citations
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					mentioned in the publication	excluding self citation
Multiscale event synchronization analysis for unraveling climate processes: A wavelet-based approach	Dr. R. Maheswaran	Nonlinear Processes in Geophysics	2017	0.571	YES	0
Computerized Optimum Dimensioning of Prestressed Homogenous Steel I-Beam	Dr. P Markandeya Raju	Engineering Journal [EJ]	2017	0.228	YES	0
Long Term Losses in Pre-Stressed Concrete Member as Per IS 1343:2012 And IS 1343:1980	Dr. P Markandeya Raju	The Indian Concrete Journal	2017	0.151	YES	0
Study on Strength of Hybrid Mortar Synthesis with Epoxy Resin, Fly Ash and Quarry Dust Under Extreme Conditions	P Sudheer, MGM Reddy, S Adishesu	IOP Conference Series: Materials Science and Engineering	2017	0.198	YES	0
Comparative Microstructural Study on Mechanical Properties of Concrete Enhanced with Graphite and Graphene	P. Sudheer and S. Chandramouli	International Journal of Engineering Technology (UAE)	2018	0.11	Yes	0

Compound						
Application of multi-scale wavelet entropy and multi-resolution Volterra models for climatic downscaling	Dr. R. Maheswaran	Journal of Hydrology	2018	1.684	Yes	26
Quantifying the roles of single stations within homogeneous regions using complex network analysis,	Dr. R. Maheswaran	Journal of Hydrology	2018	1.684	Yes	16
Cost Benefit Analysis of Distribution Network By Allocating Renewable DG's Using PSO	R Gowri Sankara Rao	International Journal of Pure and Applied Mathematics( IJPAM)	2017	0.6	YES	2
Influence of nife alloy nano powder on electromagnetic and microwave absorption properties of MWCNT/epoxy composite	M. K. Naidu, K. Ramji, B. V. S. R. N. Santhosi, Killi Krushna Murthy, Ch allapalli Subrahmanyam and B.S atyanarayana	Advances in Polymer Technology	2018	1.69	Yes	9
Curvelet transforms and flower pollination algorithm based machine	R. S. Umamaheswara Raju, R. Ramesh, V. Ramachandra Raju, Sharfuddin Mohammad	Journal of Optics	2018	0.23	Yes	1

vision system for roughness estimation

[View File](#)

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

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Multiscale event synchronization analysis for unraveling climate processes: A wavelet-based approach.	Dr. R. Maheswaran	Nonlinear Processes in Geophysics	2017	55	20	Yes
Long Term Losses in Pre-Stressed Concrete Member as Per IS 1343:2012 And Is 1343:1980	Dr. P Markandeya Raju	The Indian Concrete Journal	2017	30	0	Yes
Study on Strength of Hybrid Mortar Synthesis with Epoxy Resin, Fly Ash and Quarry Dust Under Extreme Conditions	P Sudheer, MGM Reddy, S Adishesu	IOP Conference Series: Materials Science and Engineering	2017	31	0	Yes
Comparative Microstructural Study on Mechanical Properties of Concrete Enhanced with Graphite and	P. Sudheer and S. Chandramouli	International Journal of Engineering Technology (UAE)	2018	23	0	YES

Graphene Compound						
Curvelet transforms and flower pollination algorithm based machine vision system for roughness estimation	R. S. Umamaheswara Raju, R. Ramesh, V. Ramachandra Raju, Sharfuiddin Mohammad	Journal of Optics	2018	14	1	Yes
Influence of nife alloy nano powder on electromagnetic and microwave absorption properties of MWCNT/epoxy composite	M. K. Naidu, K. Ramji, B. V. S. R. N. Santhosi, Killi Krushna Murthy, Challaipalli Subrahmanyam and B.S atyanarayana	Advances in Polymer Technology	2018	42	9	Yes
Performance comparison of FACTS controllers for transmission pricing diminution	I.Kranthi Kiran	Cogent Engineering	2018	18	1	Yes
Quantifying the roles of single stations within homogeneous regions using complex network analysis,	Dr. R. Maheswaran	Journal of Hydrology	2018	208	16	Yes
Application of multi-scale wavelet entropy and multi-resolution	Dr. R. Maheswaran	Journal of Hydrology	2018	208	26	YES

Volterra models for climatic downscaling						
Multiscale event synchronization analysis for unraveling climate processes: A wavelet-based approach.	Dr. R. Maheswaran	Nonlinear Processes in Geophysics	2017	55	20	YES

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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	41	220	26	93
Presented papers	60	15	1	0
Resource persons	2	14	3	6

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### 3.5 – Consultancy

#### 3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultan(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
Civil Engineering	Material Testing(Concrete, Steel, Bricks, Bitumen and Aggregates.)	APSHCL, APTIDCO, Mehar Infrastructures and other Private agencies	146400
Civil Engineering	Soil Testing(SBC, OMC, MDD, CBR, Classification)	RWSS Garugubilli, RWSS Bheemuipatnam, RWSS Kurupam, SGL JBP, Mehar Infrastructures and other private agencies	134400
Civil Engineering	Mix Design	RWSS Bhogapuram, APTIDCO, Water Resources Dept. Vizianagaram, RWSS Garugubilli and Other Private agencies	85000
Mechanical Engineering	Design, Analysis and Fabrication of 3 kW Solar tree	Maharaj Alak Narayan Society of Arts and Science,	318310

		Vizianagaram	
Mechanical Engineering	Vickers Micro Hardness test	Sri Sivani Institute of Technology	8110
Mechanical Engineering	UTM	AITAM, Tekkali	1100
Mechanical Engineering	Pin on Disc Apparatus	Raghu Institute of Technology	4200
Mechanical Engineering	Pin on Disc Apparatus	LENDI Institute of Engg Tech	1350
Mechanical Engineering	Vickers Hardness Machine	Sri Sivani Institute of Technology	1826
Chemical Engineering	Advisory Board on "Exploring Disruptions, Formulations, and Technologies in Lubricant Industry"	Convetit, USA	76000
<a href="#">View File</a>			

### 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
MEC	Design of condenser Design of reactor stirrer	INNOVARE PHARMA, Visakhapatnam	0	2
<a href="#">View File</a>				

### 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
DISTRIBUTION OF FRUITS SERVICE TO OLADAGE PEOPLE, PATIENTS AT PREMASAMJAM AND GOVT.HOSPITAL	MVGRCE, NSS Unit [ 068]	3	40
WORLD ENVIRONMENT DAY	MVGRCE, NSS Unit [ 068]	3	50
ESSAY COMPETITION TO STUDENTS ON YOGA AND ITS SIGNIFICANCE ON HUMAN HEALTH	MVGRCE, NSS Unit [ 068]	3	40
INTERNATIONAL YOGA DAY	MVGRCE, NSS Unit [ 068]	4	100

MOTIVATION LECTURE TO SCHOOL CHILDREN AND DISTRIBUTION OF SPORTS KITS TO SCHOOLS	MVGRCE, NSS Unit [ 068]	4	50
Swachha Bharat Campaign	MVGRCE, NSS Unit [ 068]	3	40
DISTRIBUTION OF FRUITS IN MR Hospital Plantation Program at MVGR College of Engineering	MVGRCE, NSS Unit [ 068]	3	50
Obsevation of Dr.PVG Raju Death Anniversary	MVGR College of Engineering	5	50
Legal Awareness Program on Drug Abuse	MVGRCE, NSS Unit [ 068]	5	100
Open Defecation Door to Door (ODF) Survey	MVGRCE, NSS Unit [ 068]	4	40
<a href="#">View File</a>			

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	300
Plantation Programme	Green Award	SPARKS SOCIETY (NGO)	100
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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
Swachha Bharat Campaign	MVGRCE, NSS Unit [ 068]	Swachha Bharat Campaign	5	100
Janma Bhoomi-Education-Vidya-Vikasam	MVGRCE, NSS Unit [ 068]	Janma Bhoomi-Education-Vidya-Vikasam	4	100
<a href="#">View File</a>				

### 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
Wavelet Entropy	Dr R Maheswaran	DST/SERC	1095

Based Multiscale Performance Analysis: An Approach to Assess and Improve Hydrological Models			
International conference on Emerging Trends in Water Resources and Environmental Engineering	Dr R Maheswaran	DST/GOC	365
Two day National Seminar on Structural Reliability	Dr. P Ganesan	DST/SG	2
Designing Huesler Compounds for Magnetic Refrigeration and Spintronics Application	Dr. S Samantham	UGC/CSR	730
Manufacturing and Materials Science	B Srinivas	MVGR College of Engg, ARCI	2
<a href="#">View File</a>			

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
Project work	Employee job satisfaction	Aurobindo	01/05/2018	31/05/2018	1
Project work	Performance appraisal on Nurses at Apollo Hospitals	Apollo Hospitals, Visakhapatnam	01/05/2018	31/05/2018	2
Collaborative Student Faculty Training, Internships, Faculty Sabbaticals	Making Deep Learning and AI skills. mainstream in India to fulfil trilateral needs of entrepreneurship, Industry-academia partnership and application	Bennett University, Royal Academy of London	01/04/2018	30/04/2018	110



	ion-inspired Engineering Research				
PhD Research work	QIP	IIT Roorkee	01/06/2017	31/05/2018	1
APSSDC-Auto Two Wheeler	Job Training	Siemens Industry Software Pvt. Ltd	01/07/2017	31/03/2018	190
APSSDC-Welding-Auto Two Wheeler	Job Training	Siemens Industry Software Pvt. Ltd	01/07/2017	31/03/2018	190
CNC	Job Training	Siemens Industry Software Pvt. Ltd	01/07/2017	31/03/2018	64
CBT Desig	Job Training	Siemens Industry Software Pvt. Ltd	01/07/2017	31/03/2018	146
Internship	Industry Internship	Steel Plant-VSP, Hindustan Shipyard-VSP, RTC Zonal Workshop-VZM, TATA Motors-VSP VARUN Motors-VSP BHEL-VSP Reliance Gas Transportation Infra Ltd. PSBAH General Industries-Raypur Mahindra Rise Volkswagen-VSP Lakshmi Hyundai - VSP Steel Exchange Indi	01/05/2017	30/06/2017	240
Internship	Industry Internship	Rashtriya Ispat Nigam Limited, Visakhapatnam Steel Plant, NALCO MR Complex Damanjodi, NTPC-EDC,	01/05/2017	30/06/2017	194

Simhadri,  
APGENCO, Ibr  
ahimpatnam  
(post)  
Krishna  
(Dist.), GVK  
Industries  
Ltd.,  
Jegurupadu,  
HPCL Ltd., V  
isakhapatnam  
, Coromandel  
Internationa  
l Ltd.,  
Sriha

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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
Benaka Bio Technologies	30/05/2018	Bio Gas and Bio Technologies	14
Kriatec Services Pvt Ltd	02/04/2018	Centre of excellence in new product development in CNC	8
Bennett University, Royal Academy of London	02/04/2018	trilateral needs of entrepreneurship, Industry-academia partnership and application-inspired Engineering Research	115
IIM-Calcutta	24/07/2017	Training programme to students by IIM-C Mentor to develop B-Plans	39

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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
2065	1871

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)	Newly Added

during the current year	
Others	Newly Added
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Video Centre	Newly Added
Seminar halls with ICT facilities	Newly Added
Classrooms with LCD facilities	Newly Added
Seminar Halls	Newly Added
Laboratories	Newly Added
Class rooms	Existing
Campus Area	Existing
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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	6185	4931026	1175	1831870	7360	6762896
Reference Books	2158	1229269	405	457967	2563	1687236
e-Books	359	188587	421	188587	780	377174
Journals	150	365608	3	310887	153	676495
e-Journals	1323	2285316	2	2325316	1325	4610632
Digital Database	6252	138000	0	138000	6252	276000
CD & Video	1889	75560	266	10640	2155	86200
Weeding (hard & soft)	0	0	0	0	0	0
Library Automation	0	150000	0	0	0	150000
<a href="#">View File</a>						

##### 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
NIL	NIL	NIL	30/06/2018
<a href="#">View File</a>			

### 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	1410	10	200	4	1	13	13	200	0
Added	90	0	25	0	0	0	0	25	0
<b>Total</b>	<b>1500</b>	<b>10</b>	<b>225</b>	<b>4</b>	<b>1</b>	<b>13</b>	<b>13</b>	<b>225</b>	<b>0</b>

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

225 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
NIL	<a href="#">NIL</a>

### 4.4 – Maintenance of Campus Infrastructure

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

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
675.94	457.36	274.65	231.22

#### 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 of 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. o 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. o 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. o 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. o 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. o 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. o 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. Annual

<https://www.mvgrce.com/sites/default/files/NAAC/Others/PP/ProcedureNPolicies2017-18.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	66	1362762
Financial Support from Other Sources			
a) National	0	0	0
b) International	0	0	0
<a href="#">View File</a>			

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
Salesforce	08/07/2017	58	IT DEPT FACULTY
IoT	08/07/2017	60	APSSDC
CRT program	12/06/2017	136	Conduira
Regular Needbased counseling	17/07/2018	813	In House
International yoga day a seminar was conducted about importance of yoga.	21/06/2017	25	YOGA GURU
Language lab	17/07/2017	215	MVGR College of Engg

Soft skill development	24/07/2017	180	MVGR College of Engg
English language Communication Skills	02/02/2018	180	MVGR College of Engg
Skill Development Training Programme	14/07/2017	732	APSSDC-Siemens Technical Skill Development Institute (tSDI)
Remedial Classes	10/10/2017	48	MVGR College of Engg

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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
2017	CRT	1040	862	0	551
2017	GATE	342	0	60	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
3	3	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
Soctronics	110	11	Infosys	100	41

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

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2017	1	B.Tech	CE	Italy	MS
2017	2	B.Tech	CE	AU	M. Tech
2017	3	B.Tech	CE	England	MS
2017	4	B.Tech	CE	NIT, Durgapur	M. Tech
2017	5	B.Tech	CE	IIT Madras	M. Tech

2017	6	B.Tech	CE	Bharatidasan Institute of Technology, Trichy	MBA
2017	7	B.Tech	EEE	University of Ottawa	MBA
2017	8	B.Tech	EEE	NIT, Calicut	M. Tech
2017	9	B.Tech	EEE	IIT, Roorkee	M. Tech
2017	10	B.Tech	MEC	VIT university	M.Tech
<a href="#">View File</a>					

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

Items	Number of students selected/ qualifying
GATE	39
CAT	1
GRE	6
TOFEL	1
Any Other	4
<a href="#">View File</a>	

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	68
B Exam	State Level	41
C Exam	State Level	41
On the occasion of world skill day 15th July 2017 as per the notice of collectorate, we have conducted competitions on essay writing and elocution.	college	100
On 15th August 2017 Independence Day, we have conducted competitions on patriotic singing and dance.	college	100
On the occasion of 70th year of Independence day and 75th year of quit India moment our students participated in online quiz programme conducted by UGC New Delhi.	college	200
On the occasion of Engineers day celebration	college	500

[15-09-17], competitions were conducted on art division and communication division and writing division.		
As a part of support for rally for rivers volunteers from Isha yoga foundation conducted awareness campaign for our students and civil awareness campaign for our students and civil engineering students participated in this.	college	250
Vzm utsav was organized and many of our students actively participated for singing, dance and instrumental music on 1st and 2nd oct 2017, in Vzm fort, and also in Ayodya midanam some of our students participated on 1st oct 2017, Xand students w	college	200
As per Vzm collectorate order, 1000 students performed kuchipudi nrutya pradarsana on 1st oct 2017,our college students were participated in that.	college	500
<a href="#">View File</a>		

### 5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2017	Inter University Represented	National	1	0	13331A04G9	D.Venkateswara Rao, Athletics
2017	Inter University Represented	National	1	0	18331A0156	G.Janakiram, Cricket
2017	Inter University Represented	National	1	0	15335A0526	T.S.R.Durga Prasad,C ricket
2017	Inter	National	1	0	14331A0443	G.Eswar



	University Represented					Prasad, Cricket
2017	Inter University Represented	National	1	0	13331A02B4	V.Hemanth Kumar, Cricket
2017	Inter University Represented	National	1	0	16331A0453	G.Prasanna Kumari, Basket Ball
2017	Inter University Represented	National	1	0	13331A05A6	Shaik Noor Basha, Volley Ball
2017	Inter University Represented	National	1	0	16331A0266	M.Lokesh Kumar, Chess
2017	Inter University Represented	National	1	0	15331A0185	R.Rakesh Varma, Hockey
2017	Inter University Represented	National	1	0	13331A0342	G.Venkatesh, Foot Ball
<a href="#">View File</a>						

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

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:

6780

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

0

5.4.4 – Meetings/activities organized by Alumni Association :

1. Reunion meet at MVGR College of Engineering on 13th January 2018 with 65 participants 2. Mr V Babu Prasad, Scientist E NSTL, delivered a guest lecture on Design constraints of Embedded systems to second and third year ECE students. 3. Mr Sunil Kumar Potnuru has guided two batches of 10 members each from second year CSE for a mini project. 4. Mr. Tata Aditya, Sr Solutions Architect NTT Data, gave a guest lecture to third year students of CSE and IT on Current trends and technologies in development of applications 5. Mr. Gokul Anand, Assistant Manager TVS Automobiles, took a session with final students on Life after college highlighting various opportunities in engineering and non engineering fields 6. Mr N Nagesh kumar reddy, Marine 2nd Engineer Sanmar Shipping, shared his experience quoting opportunities in marine field with third year Mechanical students

#### 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
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.
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
Examination and Evaluation	<p>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</p>
Research and Development	<p>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</p>
Library, ICT and Physical Infrastructure / Instrumentation	<p>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</p>

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

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

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.

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.

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

E-governance area	Details
Planning and Development	<p>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</p>
Administration	<p>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.</p>
Finance and Accounts	<p>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</p>
Student Admission and Support	<p>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</p>
Examination	<p>1. Examination schedule is provided in web site. 2. Processing of results is automated and results are made</p>

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
2017	S ADINARAYANA	Renault Nissan and its Facilities	Chennai, Tamilanadu	2000

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

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2017	Short term Training Program on Quality Control and Non-Destructive Testing of Structural Elements	Nil	27/10/2017	27/10/2017	9	0
2017	National Seminar on Repair, Rehabilitation and Retrofitting of Reinforced Concrete Elements, RRRRCE-17	Nil	04/08/2017	05/08/2017	23	0
2017	Short Training Program MATLAB Applications in Civil Engineering	Nil	28/08/2017	31/08/2017	5	0
2018	National	Nil	27/03/2018	28/03/2018	10	0



	Seminar on Applications of Remote Sensing and Geographic Information System for Water resources Management					
2017	A Guest Lecture on Durability of concrete-Role of advanced concrete technological practices by Dr. N. Bhanumathi Das, Founder, Eco carbon Pvt. Ltd.	Nil	21/07/2017	21/07/2017	11	0
2018	Two Day National Workshop on EDGE CAM -2018	Nil	27/04/2018	28/04/2018	10	0
2017	Nil	Skill Development Training Programme/A PSSDC-Siemens Technical Skill Development Institute (tSDI)	01/05/2018	15/05/2018	12	0
2017	Applied Cryptography	Nil	13/11/2017	18/11/2017	59	0
2017	Instructional Design and Delivery System	Nil	05/06/2017	10/06/2017	25	0
2017	Nil	Loading of Antivirus	21/05/2017	26/05/2017	10	0
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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
One-day Workshop on Employability, Employment opportunities Entrepreneurship Development	7	19/08/2017	19/08/2017	1
NPTEL FDP on Advanced Concrete Technology	7	01/07/2018	31/10/2018	31
National Seminar (Recent innovations in Civil Engineering)	42	07/12/2017	08/12/2017	2
Road Safety and Road Safety Audit for Highways	42	20/11/2017	24/11/2017	5
Introduction to River and Channel Modelling, Mike Hydro River	42	17/01/2018	19/01/2018	2
Applications of RS GIS in water resources management	16	27/03/2018	28/03/2018	2
Structural Reliability	16	08/12/2017	09/12/2017	2
Latest trends in structural engineering and Geo-Environmental Engineering (LTSEGEE-2018)	16	02/03/2018	03/03/2018	2
Two Week ISTE STP on Electric Power System National Mission on Education Through ICT (MHRD, Govt. of India)	3	10/07/2017	15/07/2017	6

One Week Short-Term Training Program (STTP) on "Real-Time Simulation Applications in Power Electronics, Drives and Renewable energy Systems (RTSA-2017)"	2	18/12/2017	23/12/2017	6
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
23	23	15	15

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 Patents for filing 10. Financial Assistance / Sponsorship for attending conferences outside India subject to a maximum 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>

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		
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#### 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	0
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6.4.3 – Total corpus fund generated

0
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#### 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)

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
2017	Quality Control and Non-Destructive Testing of Structural Elements	27/10/2017	27/10/2017	27/10/2017	50
2017	Repair, Rehabilitation and Retrofitting of Reinforced Concrete Elements, RRRRCE-17	04/08/2017	04/08/2017	05/08/2017	80
2017	MATLAB Applications in Civil Engineering	28/08/2017	28/08/2017	31/08/2017	45
2017	Structural Reliability	08/12/2017	08/12/2017	09/12/2017	60
2018	Applications of Remote Sensing and Geographic Information System for Water resources	27/03/2018	27/03/2018	28/03/2018	45

	Management				
2017	A One week Faculty Development Program on "Power Electronic Applications for Renewable Energy and Electric Vehicle" (PE REEV-2017).	04/12/2017	04/12/2017	09/12/2017	44
2017	Two Day National Workshop on Mechanical and Electrical Architecture of CNC Machine Tools	12/06/2017	12/06/2017	13/06/2017	25
2017	Two Day National Workshop on 'Smart and Emerging Materials' (SEM '2017)	08/12/2017	08/12/2017	09/12/2017	68
2018	Two Day National Workshop on EDGE CAM-2018	27/04/2018	27/04/2018	28/04/2018	10
2017	Workshop on Design and Analysis of Antenas using HFSS (WAAH-17)	20/07/2017	20/07/2017	22/07/2017	35
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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
Gender Equality Awareness Campaign	17/02/2018	18/02/2018	30	30

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 52 percent.

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
2018	1	1	17/02/2018	1	Gender Equality Awareness Campaign-I	Yes	30
2018	1	1	18/02/2018	1	Gender Equality Awareness Campaign-II	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 SERVICE TO OLADAGE PEOPLE, PATIENTS AT PREMASAMJAM AND GOVT.HOSPITAL	02/05/2017	02/05/2017	43
WORLD ENVIRONMENT DAY	05/06/2017	05/06/2017	53
ESSAY COMPETITION TO STUDENTS ON YOGA AND ITS SIGNIFICANCE ON HUMAN HEALTH	20/06/2017	20/06/2017	43
INTERNATIONAL YOGA DAY	21/06/2017	21/06/2017	104
MOTIVATION LECTURE TO SCHOOL CHILDREN AND DISTRIBUTION OF SPORTS KITS TO SCHOOLS	17/06/2017	17/06/2017	54
Swachha Bharat Campaign	05/08/2017	05/08/2017	43
DISTRIBUTION OF FRUITS IN MR Hospital Plantation Program at MVGR College of Engineering	08/08/2017	08/08/2017	53
Obsevation of Dr.PVG Raju Death Anniversary	12/08/2017	12/08/2017	55
Legal Awareness Program on Drug Abuse	13/08/2017	13/08/2017	105
Open Defecation Door to Door (ODF) Survey	17/08/2017	17/08/2017	44
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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/BestPractices2017-18.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

Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust: 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/InstitutionalDistinctiveness2017-18.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