Yearly Status Report - 2018-2019

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

2. Institutional Status	
Autonomous Status (Provide date of Conformant of Autonomous Status)	**29-Apr-2015**
Type of Institution	**Co-education**
Location	**Rural**
Financial Status	**private**
Name of the IQAC co-ordinator/Director	**Prof. P. S. Sitharama Raju**
Phone no/Alternate Phone no.	**08922241199**
Mobile no.	**9849075577**
Registered Email	**dean.qa@mvgrce.edu.in**
Alternate Email	**principal.mvgr@gmail.com**

3. Website Address	
Web-link of the AQAR: (Previous Academic Year)	https://www.mvgrce.com/sites/default/files/NAAC/AQAR/AQAR-2017-18.pdf
4. Whether Academic Calendar prepared during the year	**Yes**
if yes,whether it is uploaded in the institutional website: Weblink :	https://www.mvgrce.com/sites/default/files/NAAC/AcadCal/ACs2018-19.pdf

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	A	3.23	2009	15-Jun-2009	14-Jul-2014
1	A	3.14	2015	03-Mar-2015	31-Dec-2020

6. Date of Establishment of IQAC	**15-Jun-2009**

7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture

Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
Hydrologic and Hydraulic modeling using MIKE SHE & MIKE HYDRO RIVER	31-Oct-2018 3	40
Water Distribution Network Modeling using EPANET	03-Jan-2019 3	40
Power Electronic Applications in Power Systems	17-Dec-2018 6	64
5-day Faculty Development Program On Hybrid & Electric Vehicle Technologies (HEVT	11-Dec-2018 5	66
Executive Leadership Development Program organized by APSSDC & MVGR College of Engineering (A)	24-Jun-2019 5	26
Workshop on Signal Processing via Python(WSPP)	28-Jul-2018 1	50
Five-Day Student Training Programme on	24-Jul-2018 5	30
FACULTY DEVELOPMENT PROGRAMME (FDP) ON ANN & DEEP LEARNING	03-Jun-2019 6	66
One day Workshop on	20-Nov-2018 1	134
AI and Deep Learning	03-Jun-2019 5	57
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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 G Suvarna Kumar	TARE	DST	2019 730	1830000
Dr P Markandeya Raju	Grant of Conference	AICTE	2019 730	500000
Dr M S Subrahmanyam	TARE	DST	2019 730	1830000
Dr P Markandeya Raju	Faculty Development Program	AICTE	2019 730	403000
Dr S	MODROBS	AICTE	2019	1227900

Adinarayana			730	
Dr P Ganesan	TARE	DST	2018 730	1830000
Dr. S Samantham	TARE	DST	2018 730	1830000

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9. Whether composition of IQAC as per latest NAAC guidelines:	Yes
Upload latest notification of formation of IQAC	View File
10. Number of IQAC meetings held during the year :	3
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes
Upload the minutes of meeting and action taken report	View File
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	No

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

1. Plays key role in inculcating research culture among faculty and students. Facilitates inorganizing inter and intra institutional workshops, seminars, on various academic curricular, cocurricular and extracurricular themes including quality related themes

2. Facilitates in designing formats of Teaching Plans with focus on Learning Objectives,Outcomes and teaching methods including student centric and experiential learning designed.

3. Conducts formal and informal department staff meetings to focus on Innovation inteaching especially student centric and participatory learning.

4. Conducted regular meetings with HoDs and conveners of academic and administrativecommittees on various quality enhancement measures, practices, procedures etc…

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

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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 consider closure of (i) M.Tech.(Communication Systems) and (ii) M.Tech.(Data Sciences	Approval granted by AICTE JNTUK for closure of (i) M.Tech.(Communication Systems) and (ii) M.Tech.(Data Sciences) With effect from the Academic Year 201920
To organise/conduct faculty development activities on emerging and latest technologies	Symposiums /FDPs/ Workshops/ Conferences were conducted during the period (ii) 10 proposals were submitted by various Departments (CIV-1, MEC-1, EEE-1, CSE&IT-3, ECE-1, CHE-1 and MBA-2) 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: 248 (ii) GIAN Courses attended by Faculty : 22 (iii) Number of MOOCs done by Faculty: 122 (iv) Faculty Internships: 45
To encourage faculty for high quality Research Publications	(i) No. of paper publications -260 (ii) Faculty got PhD award : - 7 (iii) Faculty submitted PhD: -5
To encourage faculty to undergo training on modern tools and emerging technologies	No. of Trained & Certified faculty during period: 61
To sign MoUs with industry	Institution signed NINE more MoUs with Industry: 1. University of Central Florida 2. Maharaja Institute of Medical Sciences 3. iKria Learning LLC 4. Zunik Energies 5. Geospatial and Environmental Solutions 6. Geospatial and Environmental Solutions 7. APSSDC and Dassault Systems 8. JNTU Kakinada 9. CodeTantra Tech Solutions Pvt. Ltd 10. Novel Intellectual Property Rights Academy (NIA) 11. Benaka Technologies 12. Andhra Pradesh Skill Development Center
To encourage students to participate in Student development activities	(i) Student Internships & Professional Club activities : 1193 (ii) Student participations in MOOCs: 326 (iii) Students represented JNTUK in sports: 7 (iv) Institutional Academic awards received by students: 68
To improve/review placements	A total of 706 students got placements in reputed organisations like TCS, IBM, Virtusa, Hyundai etc…
To improve/review academic performance of students	Academic performance of 2014-19 batch: Dept. Total Regd Total Passed % CE 127 101 79.53 EEE 130 115 88.46 ME 204 195 95.59 ECE 206 183 88.83 CSE 195 157

	80.51 CHE 63 49 77.78 IT 46 41 89.13 TOTAL 971 841 86.61
To establish new labs in tune with new curriculum	The following new laboratory / Infrastructure has been established during the AY 2018-19 based on curricular changes, aging, Technological obsolescence and requirements of additional skill development Dept Department & Laboratories (AY-2018-19) Cost 1 CE Environmental Engineering Lab - Weather station 1,95,000 Concrete Technology Lab - LVDT 2 No's 34,900 2 ME Robotics & CNC Lab -ICP Array Microphone, Impulse Free Hammer 1,27,746 3 ECE ECAD LAB 36,78,000 4 CSE 30 @ 8 GB Rams 2,38,500 5 CHE AAS 17,71,261 Orbital Shaking Incubulator 2,11,776 6 CHY Equipment 25,912 Total Investment 58,32,819
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14. Whether AQAR was placed before statutory body ?	Yes

Name of Statutory Body	Meeting Date
Management	25-Jan-2019

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	2019
Date of Submission	12-Jan-2019
17. Does the Institution have Management Information System ?	Yes
If yes, give a brief descripiton and a list of modules currently operational (maximum 500 words)	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 Withdrawl, Day Book, Expenditures, Expenditures Report, Fee Refund) 6) Hostel Module (Hostel, 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	30/06/2019

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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	01/07/2018	A1CEL209	30/06/2019
BTech	Civil	01/07/2018	A1CED208	01/07/2018

	Engineering			
BTech	Civil Engineering	01/07/2018	A1CEL201	01/07/2018
BTech	Civil Engineering	01/07/2018	A1EHT101	01/07/2018
BTech	Civil Engineering	01/07/2018	A1EHT102	01/07/2018
BTech	Civil Engineering	01/07/2018	A1CET305	01/07/2018
BTech	Civil Engineering	01/07/2018	A1CET312	01/07/2018
BTech	Civil Engineering	01/07/2018	A1CET313	01/07/2018
BTech	Civil Engineering	01/07/2018	A1CET315	01/07/2018
BTech	Civil Engineering	01/07/2018	A1CET316	01/07/2018
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1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
BTech	0	30/06/2019
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the College level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BTech	0	30/06/2019

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
Hydraulic Analysis of water distribution networks using EPANET Software	01/07/2018	40
Basics of RS, GIS and GNSS	01/07/2018	18
Coding Training	01/07/2018	102
Aptitude Training	01/07/2018	102
CATIA	01/07/2018	205
CATIA	01/07/2018	204
Environmental Studies	01/07/2018	179
English Language Practice - I	01/07/2018	179

English Language Practice - II	01/07/2018	179
Professional Communication	01/07/2018	179
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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	ANVI TECHNICAL ADVISORS(Preparation of Estimates)	1
BTech	BVSR Construction Pvt. Ltd(Field Study and Preparation of floor plans)	1
BTech	District Water management Authority (DWMA) Srikakulam (Field Survey)	2
BTech	GVMC(Study of Plans)	3
BTech	Hindustan Shipyard Pvt. Ltd.(Site Surveying and Estimation preparation)	1
BTech	IIT DHANBAD (Study of flow characteristics of coal)	1
BTech	IIT MADRAS(Treatment of Grey water using coagulants)	3
BTech	KOMAL BUILDCON PVT LTD(Pavement design and execution)	3
BTech	KP Management and Project Consultants Pvt. Ltd (Site supervision)	2
BTech	NAGARJUNA CONSTRUCTION COMPANY (Study of plans and Estimation preparation)	3
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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
Mtech	**SE**	**18**	**1834**	**18**
Mtech	**CNIS**	**18**	**2747**	**4**
Mtech	**VLSI**	**18**	**3785**	**12**
BTech	**CHEM**	**60**	**127983**	**57**
BTech	**CIV**	**120**	**130218**	**120**
BTech	**IT**	**60**	**126095**	**59**
BTech	**EEE**	**120**	**127927**	**109**
BTech	**CSE**	**180**	**122840**	**179**
BTech	**ECE**	**180**	**124929**	**180**
BTech	**MEC**	**180**	**125565**	**180**

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2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018	**3904**	**335**	**213**	**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	Numberof smart classrooms	E-resources and techniques used
244	**244**	**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
4239	244	1:17

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
238	238	0	10	78

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
2019	Dr. P. Sudheer	Assistant Professor	Young Faculty
2019	Dr. P. Sudheer	Assistant Professor	Outstanding Contribution
2018	Dr B Madhava Varma	Assistant Professor	For Securing All India 1st Rank (99) in NPTEL
2018	Dr. Vinodh Kumar M	Assistant Professor	National Research Fellowship(SRF)
2019	K V Subba Raju	Assistant Professor	Received CISCO Expert Level Instructor Excellence Award.
2019	K V Subba Raju	Assistant Professor	10 years of active Participation and Dedicated Services in Cisco NetAcad
2018	Dr. P. Satheesh	Associate Professor	Outstanding Scientist in Bio-Informatics
2018	Dr. P.Ravi Kiran Varma	Associate Professor	Received Mentor Certificate from NPTEL for the course “Introduction to Internet of Things”, in June

			2018.
2019	Dr. P.Ravi Kiran Varma	Associate Professor	Received CISCO Expert Level Instructor Excellence Award for the year 2018. On April 1 2019.
2019	K V Subba Raju	Assistant Professor	Outstanding performance CISCO IPD week

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2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BTech	1	ODD Sem	22/11/2018	08/12/2018
Mtech	2	ODD Sem	29/12/2018	04/02/2019
MBA	3	ODD Sem	10/12/2018	04/02/2019
BTech	1	EVEN Sem	08/04/2019	02/05/2019
Mtech	2	EVEN Sem	20/05/2019	30/07/2019
MBA	3	EVEN Sem	30/04/2019	07/06/2019

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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	2253	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

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
01	BTech	ODD	971	855	88.05
02	Mtech	ODD	47	47	100
03	MBA	ODD	111	106	95.50
01	BTech	EVEN	967	967	100
02	Mtech	EVEN	47	34	72.34

03	MBA	EVEN	110	110	100

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2.7 – Student Satisfaction Survey

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

https://www.mvgrce.com/sites/default/files/NAAC/SSS/StudentSatisfactionSurvey2018-19.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

No file uploaded.

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

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
National	Dr. P. Sudheer	Young Faculty	01/07/2018	Young Faculty
National	Dr. P. Sudheer	Outstanding Contribution	01/07/2018	Outstanding Contribution
National	Dr. Vinodh Kumar M	UGC- NFOBC	15/06/2018	National Research Fellowship(SRF)

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3.2 – Resource Mobilization for Research

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

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Major Projects	1095	SERB-DST	1830000	610000
Projects sponsored by the University	1095	DST -SERB	1840000	610000
Interdisciplinary Projects	1095	MVGR-UNISA	0	0
Projects sponsored by the University	730	BENAKA-MVGR	160000	0
Projects sponsored by the University	730	BENAKA-MVGR	200000	0
Major Projects	1095	SERB (DST)	3141000	550000
InternationalProjects	30	Convetit, USA	37500	37500
Major Projects	1095	DST, New Delhi	2910000	0
Industry	1095	SERB	750000	275000

sponsored Projects				

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

6

3.3 – Innovation Ecosystem

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

Title of workshop/seminar	Name of the Dept.	Date
Fuel Cell Technology - Opportunities Challenges	CHE	29/09/2018
Principals of chemical Engineering	CHE	16/02/2019
3 day workshop on Hydraulic analysis of Water Distribution Networks using EPANET	CIVIL	03/01/2019
HYDRAULIC AND HYDROLOGIC MODELING USING MIKE SHE MIKE HYDRO	CIVIL	31/10/2018
Recent Trends in Industrial Practices	EEE	21/08/2018
Operations of Thermal Power Plants Introduction of hot line works	EEE	02/12/2018
Embedded Systems workshop with APSSDC	EEE	03/01/2019
5-day Faculty Development Program on Hybrid Electric Vehicle Technologies (HEVT	MEC	11/12/2018

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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
Basics of Induction Motor	Madhava Reddy Narala	Andhra University, Visakhapatnam	18/12/2018	Participation
Basics of Induction Motor	Modalavalasa Prudhvi	Andhra University, Visakhapatnam	18/12/2018	Participation
Basics of PLC	Madhava Reddy Narala	Andhra University, Visakhapatnam	18/12/2018	Participation
Basics of PLC	Shaik Shamshad	Andhra University, Visakhapatnam	18/12/2018	Participation

Basics of PLC	Vewnkata Prema Latha Kotni	Andhra University, Visakhapatnam	18/12/2018	Participation
Basics of PLC	Rupadevi Maddi	Andhra University, Visakhapatnam	18/12/2018	Participation
Basics of PLC	Akasam Jayadeep	Andhra University, Visakhapatnam	18/12/2018	Participation
Basics of SCADA	Shaik Shamshad	Andhra University, Visakhapatnam	18/12/2018	Participation
Basics of SCADA	Rupadevi Maddi	Andhra University, Visakhapatnam	18/12/2018	Participation
Basics of SCADA	Madhava Reddy Narala	Andhra University, Visakhapatnam	18/12/2018	Participation

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

Incubation Center	Name	Sponsered By	Name of the Start-up	Nature of Start-up	Date of Commencement
0	NIL	NIL	NIL	NIL	30/06/2019

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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
ECE	1
CHEM	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)
International	MEC	11	2.51
International	ECE	52	0
International	CSE	5	1.14
International	EEE	12	3.65
National	IT	3	0
International	IT	7	0
National	CIV	5	0
International	CIV	18	0.42
International	CHEM	9	0
National	MAT	1	0.01

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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
MEC	9
ECE	30
CSE	2
EEE	4
IT	2
CIV	11
CHEM	3

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3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
Hybrid Concrete Composition	Published	201941011593	26/03/2019
Hybrid Mortar Composition	Published	201941011594	26/03/2019
Wearable device to monitor dehydration	Published	201941011593	08/04/2019
Artificial Intelligence Based automated Music Composing Model	Filed	201941013991	30/06/2019

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

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Progressive collapse study of 220 KV transmission line tower with different bracing patterns	Madisetti Pavan Kumar, Duba Vishalakshi, Ponnada Markandeya Raju and Dadi Rambabu	Disaster Advances	2018	0.14	YES	0
Parametric Study on Effect of Wind on Geometrical Configurations of RC Space	P Markandeya Raju, Pavan Kumar Madisetti, B Sahithichandra	Disaster Advances	2018	0.14	YES	0

Frames						
OPTIMUM RATIO OF WIDTH TO HEIGHT FOR SEISMIC RESISTANT G10 RC BUILDING	P. Markandeya Raju, V. Vinay Kumar, Ganesh Raparthi	International Journal of Advanced Research in Science and Engineering [IJARSE]	2018	0	YES	0
GRG Optimization of Prestressed Rolled Steel Compact Sections	Ponnada Markandeya Raju	Disaster Advances	2018	0.14	YES	1
Relative Performance of Multistoried RC Buildings with Reduced Wall Densities	P Markandeya Raju, S S Bhanu Sai Kumar and M Pavan Kumar	The IUP Journal of Structural Engineering	2018	0	YES	1
Assessment of water balance for a forest dominated coastal river basin in India using a semi distributed hydrological model. Model. Earth Syst. Environ	Setti, S., Rathinasamy, M., Chandramouli, S., 2018	Modelling Earth Systems and Environment	2018	0	YES	4
Wavelet-based multiscale similarity measure for complex networks.	Agarwal, Ankit, Maheswaran, R., Marwan, N., Caesar, L., Kurths, J.,	The European Physical Journal B	2018	0.46	YES	3

Wavelet analysis of precipitation extremes over India and teleconnections to climate indices	Rathinasamy, M., Agarwal, A., Sivakumar, B., Marwan, N., Kurths, J.	Stochastic Environmental Research and Risk Assessment	2019	0.9	YES	3
Unravelling the spatial diversity of Indian precipitation teleconnections via a non-linear multi-scale approach.	Kurths, J., Agarwal, A., Shukla, R., Marwan, N., Rathinasamy, M., Caesar, L., Krishnan, R., Merz, B.,	Nonlinear Processes in Geophysics	2019	0.57	YES	5
Network-based identification and characterization of teleconnections on different scales.	Agarwal, A., Caesar, L., Marwan, N., Maheswaran, R., Merz, B., Kurths, J.,	Scientific Reports	2019	1.34	YES	0
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3.4.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Network-based identification and characterization of teleconnections on different scales.	Agarwal, A., Caesar, L., Marwan, N., Maheswaran, R., Merz, B., Kurths, J.,	Scientific Reports	2019	179	0	YES
Unravelling the spatial diversity of Indian	Kurths, J., Agarwal, A., Shukla,	Nonlinear Processes in Geophysics	2019	55	5	YES

precipitation teleconnections via a non-linear multi-scale approach.	R., Marwan, N., Rathinasamy, M., Caesar, L., Krishnan, R., Merz, B.,					
Wavelet analysis of precipitation extremes over India and teleconnections to climate indices	Rathinasamy, M., Agarwal, A., Sivakumar, B., Marwan, N., Kurths, J.	Stochastic Environmental Research and Risk Assessment	2019	62	3	YES
Wavelet-based multiscale similarity measure for complex networks.	Agarwal, Ankit, Maheswaran, R., Marwan, N., Caesar, L., Kurths, J.,	The European Physical Journal B	2018	120	3	YES
Assessment of water balance for a forest dominated coastal river basin in India using a semi distributed hydrological model. Model. Earth Syst. Environ	Setti, S., Rathinasamy, M., Chandramouli, S., 2018	Modelling Earth Systems and Environment	2018	0	4	YES
Relative Performance of Multistoried RC Buildings with Reduced Wall	P Markandeya Raju, S S Bhanu Sai Kumar and M Pavan Kumar	The IUP Journal of Structural Engineering	2018	0	1	YES

Densities						
GRG Optimization of Prestressed Rolled Steel Compact Sections	Ponnada Markandeya Raju	Disaster Advances	2018	15	1	YES
OPTIMUM RATIO OF WIDTH TO HEIGHT FOR SEISMIC RESISTANT G10 RC BUILDING	P. Markandeya Raju, V. Vinay Kumar, Ganesh Raparthi	International Journal of Advanced Research in Science and Engineering [IJARSE]	2018	0	0	YES
Parametric Study on Effect of Wind on Geometrical Configurations of RC Space Frames	P Markandeya Raju, Pavan Kumar Madisetti, B Sahithichandra	Disaster Advances	2018	15	0	YES
Progressive collapse study of 220 KV transmission line tower with different bracing patterns	Madisetti Pavan Kumar, Duba Vishalakshi, Ponnada Markandeya Raju and Dadi Rambabu	Disaster Advances	2018	15	0	YES

View File

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

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	43	191	25	5
Presented papers	70	6	0	0
Resource persons	7	8	6	5

View File

3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultan(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)

CIV	Material Testing(Concrete, Steel, Bricks, Bitumen and Aggregates.)	RWSS Bobbili, APTIDCO Nellimarla, APTIDCO Saripalli, Mehar Infra, APTRANSCO, SSA, EC-MG NREGS	194000
CIV	Mix Design	RWS S, Bobbili, RWSS, Bhogapuram, RWS S Anakapalli, RWS S Gajapathi Nagarm, RWSS Sub. Division Gajapathinagaram, RWS S Parvathipuram, RWSS Salur, RWSS, Vizinagaram Sub devision, RWSS, Komarada, RWSS Kurupam, RWS S Bobbili	162000
MEC	Testing on VCR Engine Smoke meter	Sri Venkateswara College of Engineering Technology	2700
MEC	Testing on Bomb Calorimeter	Sri Venkateswara College of Engineering Technology	1200
MEC	Testing on Ultrasonicator	Mechanical Engineering Department, College of Engineering, Andhra University,	2064
MEC	Pin on Disc	Raghu Institute of Technology	4200
MEC	Pin on Disc	Baba Institute of Technology	2100
MEC	Vickers Hardness Machine	Sri Sivani Institute of Technology	950
MEC	Vickers Hardness Machine	Sri Sivani Institute of Technology	950
View File			

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

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
CHEM	Training Module for Employers	EISAI PHARMA	24000	28
View File				

3.6 – Extension Activities

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

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Blood Donation Camp on the Eve of 21st Anniversary of MVGR College of Engg.,	MVGRCE, NSS Unit [068]	5	300
Awareness Program on International Yoga Day	MVGRCE, NSS Unit [068]	4	100
Medical Blood Donation Camp on the occasion of	MVGRCE, NSS Unit [068]	5	200
Social Service at Prem Samajam	MVGRCE, NSS Unit [068]	3	50
Blood Donation camp School benches Distribution program on the Eve 116th Birth Anniversary of Late Dr. Dr.P A G Raju garu (founder of MANSAS Trust)	MVGRCE, NSS Unit [068]	8	250
Swatch Bharath Camp	MVGRCE, NSS Unit [068]	4	50
HEALTH AND HYGIENE-BREAST CANCER awareness campaign	MVGRCE, NSS Unit [068]	4	50
SWACCH BHARATH CAMPAIGN	MVGRCE, NSS Unit [068]	4	50

View File

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

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
Blood Donation Camp	District Level Award for Mega Blood Donation Camp	Indian Red Cross Society	200
Plantation Blood Donation Camp	District Level Award for Mega Blood Donation Camp	SETVIZ, VZM	150

View File

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

Name of the scheme	Organising unit/Agen	Name of the activity	Number of teachers	Number of students

	cy/collaborating agency		participated in such activites	participated in such activites
Swatch Bharath Camp	MVGRCE, NSS Unit [068]	Swatch Bharath Camp	0	45
SWACCH BHARATH CAMPAIGN	MVGRCE, NSS Unit [068]	SWACCH BHARATH CAMPAIGN	0	30

View File

3.7 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
Integrated Water Management Through Rejuvenation of Surface Tanks in Vizianagaram Town	Dr R Maheswaran	DST/SERB	1095
Synthesis and characterization of thermochemical materials for solar thermal energy storage	Dr M S Subrahmanyam	DST/TARE	1095
Exploring magnetic, magnetocaloric and magnetoresistive properties of Ti(Fe1-xCox)2	Dr. S Samantham	DST/TARE	1095
Toughened Concrete for Building Structures of National Importance against Impact Forces	Dr P Ganesan	DST/TARE	1095
Modernization and Removal of obsolescence in Machine Tools Lab	Dr S Adinarayana	AICTE/MODROBS	365
International Conference on Sustainable systems and structures	Dr P Markandeya Raju	AICTE/GOC	3
Recent Trends in Sustainable Design of Structures	Dr P Markandeya Raju	AICTE/FDP	15
Modernisation of ECAD Laboratory using Zynq 7000 series	Dr. M. Sunil Prakash	AICTE/MODROBS	365

View File

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

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Research	TARE	IIT Madras, Chennai	01/11/2018	30/11/2018	0
Internship	Industry Internship	Rashtriya Ispat Nigam Limited, Visakhapatnam Steel Plant, VSKP, ZUNIK Energies IIT Roorkee, NTPC Visakhapatnam, BHEL – HPVP Limited Nathayyapalem, VSKP, The ivisional ailway Manager (DRM), Electric Loco Shed, VSKP, APEPDCL Vishakhapatnam, Wing-Fo-T	01/05/2019	30/06/2019	232
Indiustry Institute Interaction	Faculty Internship	ZUNIK Energies Pvt Ltd	12/05/2019	27/05/2019	1
APSSDC	Job Training	Basics of Programming Logic Controllers	01/11/2018	31/12/2018	51
APSSDC	Job Training	SCADA	01/11/2018	31/12/2018	55
APSSDC	Job Training	Induction Motor	01/11/2018	31/12/2018	49
APSSDC	Job Training	AC-DC Drives	01/11/2018	31/12/2018	20
APSSDC	Job Training	Mechatronics	01/11/2018	31/12/2018	33
Internship	Industry Internship	IIT,Chennai-Steel Plant-VSP Hindustan Shipyard-VSP RTC Zonal Workshop-VZM TATA Motors-VSP VARUN	01/05/2018	30/06/2019	310

		Motors-VSP BHEL-VSP Reliance Gas Transportation Infra Ltd. Volkswagen-VSP, Lakshmi Hyundai – VSP, Port Trust-VSP, HAL-Bangalore, NALCO – Odisha, GMR Ene			
CBT Design	Job Training	Siemens Industry Software Pvt. Ltd	01/06/2018	31/03/2019	79

View File

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

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
ZUNIK Energies Pvt Ltd,TIDES,IIT Roorkee	30/11/2018	To train faculty on power elctronic Convertors Design and Controller Development	7
Benaka Bio Technologies	30/05/2018	Bio Gas and Bio Technologies	14
Kriatec Services Pvt Ltd	01/04/2018	Centre of excellence in new product development in CNC	8
CISCO NetACADEMY	04/10/2018	The Cisco Networking Academy program is a program aimed at helping improve the skills of different students all over the world with basic Networking skills about routing, switching, configuration of networking devices e.t.c. This will enable the lear	300
MICROSOFT CAMPUS AGREEMENT	30/12/2018	1. One-year faculty license and	300

		Software Assurance packs 2. One-year student license and Software Assurance packs	
CODETANTRA	01/01/2018	Online Classes, Assessments, Proctored Exams, Assignments, Auto-grading, Plagiarism Checks – all in one platform	960
SALESFORCE	01/01/2018	Salesforce: The Customer Success Platform To Grow Your Business CRM offers services on all these areas. Salesforce CRM is the most effective, efficient and cloud-based CRM tool. It is the most popular tool available in the market. We can boost our bu	100
Royal Academy of London, Brunell University, Bennett University, MVGRCE	01/04/2018	Faculty Student Training, Research Sabbaticals, Sharing of research facilities	103

View File

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
700	596.76

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Newly Added
Seminar Halls	Newly Added
Classrooms with LCD facilities	Newly Added
Seminar halls with ICT facilities	Newly Added
Video Centre	Newly Added
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added

Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Classrooms with Wi-Fi OR LAN	Newly Added
View File	

4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
SOUL (Software fo University Libraires)	Fully	2	2015

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	7360	6762896	435	1477442	7795	8240338
Reference Books	2563	1687236	252	369360	2815	2056596
e-Books	421	188587	467	181292	888	369879
Journals	153	310887	-25	411982	128	722869
e-Journals	1325	2325316	-323	2234390	1002	4559706
Digital Database	6252	138000	0	138414	6252	276414
CD & Video	2155	86200	157	6280	2312	92480
View File						

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

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
NIL	NIL	NIL	30/06/2019
View File			

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/ GBPS)	Others
Existing	1500	1500	225	4	1	13	13	225	0
Added	200	200	75	0	2	0	0	75	0
Total	1700	1700	300	4	3	13	13	300	0

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

300 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	NIL

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 incurredon maintenance of physical facilites
593.49	490.25	456.93	336.65

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)

Various committees are constituted with one of the senior faculty as convener to monitor the maintenance of academic infrastructure and facilities. Distinct features: o 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 maintenance contracts are made with outside agencies for maintenance of a few equipment where maintenance is required to be done by professionals
https://www.mvgrce.com/sites/default/files/NAAC/Others/PP/ProcedureNPolicies2018-19.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	67	1408154
Financial Support from Other Sources			
a) National	0	0	0
b)International	0	0	0
View File			

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

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Soft skill development	24/12/2018	178	MVGR College of Engineering (Autonomous)
Soft skill development	19/07/2018	180	MVGR College of Engineering (Autonomous)
Certification Course (Audit Course)	01/11/2018	12	MVGR College of Engineering (Autonomous)
Lateral Entry Students	28/07/2018	36	MVGR College of Engineering (Autonomous)
English language Comunication Skills	01/08/2018	180	MVGR College of Engineering (Autonomous)
Remedialcoaching	09/03/2019	237	MVGR College of Engineering (Autonomous)
Skill Devlopment Training Programme	01/06/2018	747	APSSDC-Siemens Technical Skill Development Institute (tSDI)
NSS, NCC, Sports Culturals	01/12/2018	108	MVGR College of Engineering (Autonomous)
Yoga Training	01/12/2018	22	MVGR College of Engineering

			(Autonomous)
Remedial Classes	01/11/2018	48	MVGR College of Engineering (Autonomous)

View File

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

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passedin the comp. exam	Number of studentsp placed
2018	CRT	778	453	0	706
2019	GATE	241	0	56	0

View File

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

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
2	2	7

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Nameof organizations visited	Number of students participated	Number of stduents placed	Nameof organizations visited	Number of students participated	Number of stduents placed
70	3070	621	32	22	85

View File

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

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2018	3	Civil	Civil	IIT Hyderabad	M.Tech
2018	1	Civil	Civil	NIT ROURKELA	M. Tech
2018	2	Mechanical	Mechanical	Canada University	M.S.
2018	1	Mechanical	Mechanical	Coventry University, Coventry, UK	M.S.
2018	5	Mechanical	Mechanical	Germany University	M.S.
2018	1	Mechanical	Mechanical	IIT Kharagpur	M.S. (Cryogenic

				(Cryogenic engineering)	engineering)
2019	1	ECE	ECE	Skema Business School, Paris, France	MBA
2019	1	ECE	ECE	Texas Tech University	M.S.
2019	3	CSE	CSE	University of Cincinnati	M.S.
View File					

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

Items	Number of students selected/ qualifying
NET	1
GATE	51
GRE	21
TOFEL	3
Civil Services	20
Any Other	2
View File	

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	55
B Exam	State Level	14
C Exam	State Level	0
View File		

5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2018	Inter University Represented	National	1	0	15335A0526	T.S.R.Durga Prasad-Cricket
2018	Inter University Represented	National	1	0	14331A0443	G.Eswar Prasad-Cricket
2018	Inter University	National	1	0	15331A0185	R.Rakesh Varma-

	Represented					Hockey
2018	Inter University Represented	National	1	0	16335A0114	K.Gowri Shankar-Volley Ball
2018	Inter University Represented	National	1	0	13331A0259	Manoj Datta-Volley Ball
2018	Inter University Represented	National	1	0	18331A05H0	Dinesh-Shuttle Badminton
2018	Inter University Represented	National	1	0	16331A0266	M.Lokesh Kumar-Chess
2019	JNTUK `A' Zone Inter Collegiate	National	1	0	College Team	College Team-Volley Ball
2019	JNTUK `A' Zone Inter Collegiate	National	1	0	Collge Team	Collge Team-Shuttle Badminton
2019	JNTUK `A' Zone Inter Collegiate	National	1	0	College Team	College Team-Basket Ball

View File

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

Activity of Student Council representation of students on academic administrative bodies/committees of the institution MVGR College of Engineering has its student active representation on academic and administrative bodies and committees of the college. The student representation is made active at every curricular, co-curricular and extra- curricular initiative in the campus. Students participate at every level of academic and administrative functioning in the college for smooth and effective planning and implementation of the academic policies befitting to the need of the time. The structure of the student representation in the college is as follows: 1. Each class for each year of study nominates two Class Representatives (CRs) one from girls and one from boys 2. As such each year of study is going to have two CRs for each section in each program department. 3. Like that in every program department for all four years of study section-wise CRs represent the students regarding their issues and concerns related to academic and administrative matters and network between the students, faculty and head of the department for a healthy and happy environment in the campus. 4. In turn, all the CRs elect among themselves and form various student bodies for the smooth and effective conduct of wide range of student activities in the campus. 5. The Student Executive Committee constitutes of President, Vice-President, Secretary, Joint-Secretary, Treasurer and four Executive Members. This is the Central Student Council which leads all ancillary student bodies which are formed to look after specific activities in the campus. 6. The ancillary student bodies are a) Cultural Committee b) Sports Committee c) Anti – Ragging Committee d) NSS Committee e)

Magazine Committee f) Women Empowerment g) Entrepreneur Development Committee h) Alumni Committee i) Hostel Committees All together these committees represent students at various levels in supporting the College Academic and Administrative bodies in smooth and effective functioning of the college. The student Executive Committee in coordination with all the ancillary committees plan and organize inter, intra mural, and national level student seminars, workshops, fests, sports and cultural meets in order to equip themselves and their peers to combat the competitive arena assertively. Students have formed different clubs like NSS, SWECHA, UBA and social forums to bring awareness among the school children and people of surrounding villages on various public health and social issues.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

ALUMNI INFORMATION: 1. Alumni Association Registration Number: Alumni Association is registered under societies registration act XXI of 1860 in 2007 with the name MVGR Alumni Assiciation (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:

7211

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

0

5.4.4 – Meetings/activities organized by Alumni Association :

2018-19 1. MAA Reunion at Bengaluru on December 29th 2018 with around 125 participants 2. MAA Reunion at Chennai on April 27th 2019 with around 35 participants 3. Mrs Keerthana S has given a guest lecture on Industry expectations from young engineers with final year EEE Students 4. Mr Raghu Ram B, Sr Engineer in BHEL, has delivered a guest lecture to final year EEE students sharing challenges in work life. 5. Mr Ch Ashwini Kumar, Scientist D ISRO, shared his views on importance of developing analytical thinking with senior facutly and students of 3rd year 6. Ms. Kiranmayi A, TRON Analyst Amazon, visited the campus and interacted with senior faculty of ECE to share few challenges ECE students would experience in IT 7. Mrs Divya Yechuri, Sr Software Engineer Global soft, interacted with third year students of CSE and shared her views on overseas career opportunities

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

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

1. The institution is run by academicians. All the sub-committee members who are the management representatives are eminent academicians. 2. The head of the institution has complete academic and operational autonomy and with his rich

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

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

Yes

6.2 – Strategy Development and Deployment

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

Strategy Type	Details
Admission of Students	1. Admission process of the institution is transparent and the government of Andhra Pradesh through APSCHE undertakes counseling through a state level process which is inclusive in its nature. Further the district of Vizianagaram being in a backward area attracts more than design/stipulated percentage admissions in various reserved categories. Therefore, it can be said that the admission process is not only transparent but also highly inclusive.
Industry Interaction / Collaboration	1. Industry interaction 2. Organisation of industrial tours 3. Deputing faculty and staff or industrial training 4. Guest lectures by the experts from industry 5. Collaboration with industries 6. The institution has RD Cell to collaborate with industries and outside organizations and to take up consultancy works.
Human Resource Management	1. Transparent policy document 2. Transparent and scientific way of selections 3. Imparting related training 4. Formulation and communication of policies of the college 5. Support for academic advancement 6. Systematic performance appraisal system and guidance to the

	faculty 7. Systematic promotion policies 8. Democratic way of administration with participative management
Library, ICT and Physical Infrastructure / Instrumentation	1. Exit feedback is collected from the students regarding the library facility available in the campus. And the feedback information analysed by the library advisory committee is utilized for further improvement of the library. 2. Computer systems are upgraded with latest configuration once in Three years. 3. Individual up gradation of the computers is taken up as per the need and requirements of the various departments. 4. Enough provision is made available in the annual budgets for the procurement of the computer systems. 5. Once new systems are procured, they replace the existing systems as per the requirements of the departments. 6. All the computer systems in the campus are regularly monitored by the system administrator and maintenance staff. 7. The trouble/problems experienced by the computers in the various laboratories are entered by the lab programmers/technicians in the complaint register. 8. The maintenance staff will then goes to the respective labs for identification of the problems and resolves the same at the respective places. 9. In case of major problems i.e. replacement of component/part during warranty they are sent to the respective service centers and got replaced at the earliest. 10. Computer center is provided with Fourteen servers of different capacities to cater the computer requirements.
Research and Development	1. Institute makes separate budget allocation every year to enhance the research facilities for procuring advanced equipment in laboratories beyond the syllabus curriculum and to procure necessary software. 2. Institute encourages students and faculty to promote research environment and provides incentives who publish journal papers, get research projects from industry and funding agencies. 3. The departments conduct seminars and workshops for inculcating research culture among students and faculty. 4. The institute / departments arrange guest lectures by eminent researches

	from reputed institutes and industries on emerging and new areas of research. 5. Formulation of Research committee 6. Allocation of budget for in house RD 7. Incentives and rewards for publications/research 8. Financial assistance to students for model buildings
Examination and Evaluation	1. The performance of the students both in midterm examinations and end semester examinations in theory and laboratory subjects and project works are considered as an indicator in evaluating the student performance and also achievement of learning objectives. 2. Further, students are evaluated on continuous basis in the form of conducting tutorials, assignments, class tests etc., to assess the learning outcomes. 3. Direct Assessment: (i) Performance evaluation through internal and external examinations in both theory and lab, (ii) Performance evaluation by conduct of tutorials and assignments and (iii) Performance evaluation in project work. 4. Indirect Assessment: (i) Survey of Alumni, (ii) Exit feedback and (iii) Employer feedback
Teaching and Learning	1. Provision of State-of-the art learning resources in Central Library Information Centre and department libraries. 2. Ergonomically designed classrooms with networking facility 3. Provision of e-classrooms 4. Development of student support material 5. Organisation of Remedial classes 6. Delivery of Add-on-courses 7. Conduct of pre-placement training classes and campus connect programmes 8. Conduct of GATE coaching classes 9. Structured course files and lab manuals on all courses 10. Academic audit 11. Continuous improvement of resources
Curriculum Development	1. The college scrupulously develops action plans for effective implementation of the curriculum. 2. The College Academic Committee / Council conducts frequent meetings with the Heads of the departments and staff members to come out with various strategies for effective implementation of the curriculum. 3. All faculty members prepare course files for each subject and develop Lab. Manuals for all labs and these are periodically audited and modified with new

	developments in the field of technology. All efforts are made to maintain the quality sustenance in curriculum delivery.

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

E-governace area	Details
Administration	1. Online leave requisition system is made available through ERP Management system. 2. Signage Boards are provided to display notices for students and other stakeholder. 3. PFMS portal is uploaded regularly with expenditure related to Govt. fund. 4. Notices and circulars are uploaded in the college website and communicated to different departments through email from the office of the Principal 5. Salary of faculty members and staff is transferred directly to the bank account.
Finance and Accounts	1. College accounts are computerised and maintained through ERP Management system 2. In addition, Tally software is also used to generate various financial reports 3. All financial transactions are being done online including salaries
Planning and Development	1. SMS system for dissemination of information including regular notice to students is implemented. 2. ERP Management system is implemented with database ofstudents, faculty and staff etc. 3. Library is automated using ‘SOUL’ software
Student Admission and Support	1. Online admission of students is being done by state government of AP through EAMCET. 2. Student’s database is maintained through ERP Management system 3. Information of Course curriculum, Academic calendar, Time tables are made available in the college website. 4. Email IDs and contact numbers of all members of Anti Ragging Committee, Anti Ragging Squad and Grievance Redressal Cell have been uploaded in the college website and students can communicate to the members through email 5. Automatic SMS alerts are sent to the parents of students whenever they are absent to class on daily basis. 6. SMS alerts are sent to the parents of students to convey any important information
Examination	1. Examination schedule is provided in web site. 2. Processing of results is

	automated and results are made available in website. 3. SMS alerts are sent to the parents regarding performance in the examinations of their wards.

6.3 – Faculty Empowerment Strategies

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

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2018	K. Sobha Rani	Conference Registration Fee	Professional Body	2220
2018	Dr. Ch. Purnachandra Rao	APSCHE ORGANIZED STATE LEVEL WORK SHOP ON UNIVERSITY RANKING AT NAGARJUNA UNIVERSITY GUNTUR	APSCHE ORGANIZED STATE LEVEL WORK SHOP ON UNIVERSITY RANKING AT NAGARJUNA UNIVERSITY GUNTUR	9934
2018	Dr. B. Sarva Rao	UBA ORIENTATION WORK SHOP AT NEW DELHI	UBA ORIENTATION WORK SHOP AT NEW DELHI	15171
2018	Sarath Kumar Sahu	HARDWARE MODELS/ PROJECTS AT TECHNICAL FEST ORGANIZED BY IIT BOMBAY	HARDWARE MODELS/ PROJECTS AT TECHNICAL FEST ORGANIZED BY IIT BOMBAY	12157
2018	M Siva Subhramanyam	Work Shop	Professional Body	1300
2018	Dr. N. Ravi Kumar	Work Shop	Professional Body	1300
2018	G. Veeraiah	Work Shop	Professional Body	500
2018	Dr. K. Rakesh	Work Shop	Professional Body	5870
2018	Dr. I. Sudhakar	Work Shop	Professional Body	1040
2018	J. Venkata Rao	Work Shop	Professional Body	2600

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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	Title of the administrative training programme	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)

	organised for teaching staff	organised for non-teaching staff				
2019	Professional development programmes organized for teaching staff	Guest Lecture on Wind Effects on Structures By Dr. P. Krishnam Raju, Professor, GVP College of Engineering	08/04/2019	08/04/2019	15	0
2018	Professional development programmes organized for teaching staff	National Workshop on Hydrologic and Hydraulic modeling using MIKE SHE MIKE HYDRO RIVER	31/10/2018	02/11/2018	10	0
2018	Professional development programmes organized for teaching staff	Power Electronic Applications in Power Systems” (PEAPS - 2018)	17/11/2018	22/12/2018	64	0
2018	Professional development programmes organized for teaching staff	Hybrid and Eclectic Vehicle Technologies ,HEVT-2018	11/12/2018	15/12/2018	36	0
2018	Professional development programmes organized for teaching staff	Guest Lecture on Infrastructure Resilience and Sustainability with advanced materials By Dr. Srinivas Allena,	23/07/2018	23/07/2018	15	0

		Associate Professor, Washington state University-Tricities				
2018	Professional development programmes organized for teaching staff	Guest Lecture on Pervious Concrete By Dr. A. R. Santha Kumar, Dean, ANNA University	26/07/2018	26/07/2018	13	0
2018	Professional development programmes organized for teaching staff	Guest Lecture on Project Planning Techniques By Mr. Kanuri Venkata Naga Ravi, Superintendent Engineer, Metropolitan regional urban transport development authority, Visakhapatnam	15/09/2018	15/09/2018	20	0
2018	Professional development programmes organized for teaching staff	Guest Lecture on Waste water recycling: A sustainable option for water management By Dr. Ligy Philip, Professor, IIT Madras	01/02/2019	01/02/2019	21	0
2019	Professional development	Guest Lecture on Demand for	15/03/2019	15/03/2019	19	0

	programmes organized for teaching staff	Civil Engineers in future By Sri. Naveen Chakravarthi Vedula, Associate Director, SAMARTH Infra Engineering Technocrats Pvt. Ltd.				
2019	Professional development programmes organized for teaching staff	Guest Lecture on Importance of Skills for future Engineers By Mr. A. Rajesh, Senior Section Engineer, North East Frontier Railways	15/03/2019	15/03/2019	15	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
GIAN Course on Dynamic Modelling of Stormwater, Sewerage, and Watershed systems with SWMM/ PCSWMM	10	10/09/2018	14/09/2018	5
NBC 2016 and Indian Stadards: Innovations and case studies in geotechnical Engineering: Unsaturated Soil Mechanics	10	06/07/2018	07/07/2018	2
GIAN Course on Concrete: Microstructure	10	18/06/2018	22/06/2018	5

Characterization at NITK, Suratkal				
Energy efficiency acoustics and daylighting in building	10	21/01/2019	20/04/2019	90
Short Term GIAN Course on Advanced Structural Dynamics	5	24/12/2018	28/04/2019	124
One-day workshop on Intellectual property in innovation New product development	5	26/04/2019	26/04/2019	1
One-day workshop on Intellectual property – A Knowledge gateway for Business	5	10/01/2019	10/01/2019	1
Earthquake Resistant Design of Steel Moment Resisting Frame Buildings	5	14/02/2019	16/02/2019	3
Developing Web Apps with ArcGIS API for JavaScript	5	26/12/2018	28/12/2018	3
Hydrologic and Hydraulic Modeling using MIKE SHE and MIKE HYDRO	7	31/10/2018	02/11/2018	3

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
10	10	1	1

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
1. Group Gratuity Scheme for all the staff 2.	1. Group Gratuity Scheme for all the staff 2.	1. Gold Medals and Silver Medals to the best

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 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	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	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

6.4 – Financial Management and Resource Mobilization

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

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

is monitored through internal and external auditing. Internal audit is conducted and the statutory external audit is conducted annually by chartered accountants

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

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
NIL	0	NIL

View File

6.4.3 – Total corpus fund generated

0

6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	No	NA	Yes	Internal Audit Committee
Administrative	No	NA	Yes	Internal Audit Committee

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

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 grating 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	Date of	Duration From	Duration To	Number of

	initiative by IQAC	conducting IQAC			participants
2018	Hydrologic and Hydraulic modeling using MIKE SHE MIKE HYDRO RIVER	31/10/2018	31/10/2018	02/11/2018	40
2019	Water Distribution Network Modeling using EPANET	03/01/2019	03/01/2019	05/01/2019	40
2018	Power Electronic Applications in Power Systems” (PEAPS - 2018)	17/12/2018	17/12/2018	22/12/2018	64
2018	5-day Faculty Development Program On Hybrid Electric Vehicle Technologies (HEVT ‘2018)	11/12/2018	11/12/2018	15/12/2018	66
2019	Executive Leadership Development Program organized by APSSDC MVGR College of Engineering (A)	24/06/2019	24/06/2019	28/06/2019	26
2018	Workshop on Signal Processing via Python(WSPP)	28/07/2018	28/07/2018	28/07/2018	50
2018	3-DAYS COMPREHENSIVE WORKSHOP ON INTERNET OF THINGS WITH PRACTICAL HANDS	24/07/2018	24/07/2018	26/07/2018	36
2019	FACULTY DEVELOPMENT PROGRAMME (FDP) ON ANN DEEP	03/06/2019	03/06/2019	08/06/2019	66

	LEARNING				
2018	Fuel Cell Technology – Opportunities Challenges	29/09/2018	29/09/2018	29/09/2018	60
2019	AI and Deep Learning	03/06/2019	03/06/2019	08/06/2019	57

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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 Awarness Campaign	10/02/2018	11/02/2018	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 48.

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	10/02/201	1	Gender	Yes	30

			9		Equality Awarness Campaign-I		
2019	1	1	11/02/2019	1	Gender Equality Awarness 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)	20/06/2018	Service manual is distributed to all Faculty on rolls
Student Hand Book (Rolls and responsibilities including code of conduct)	01/07/2018	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)	20/06/2018	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
Blood Donation Camp on the Eve of 21st Anniversary of MVGR College of Engg.,	03/08/2018	03/08/2018	305
Awareness Program on International Yoga Day	21/06/2018	21/06/2018	104
Medical Blood Donation Camp on the occasion of	17/07/2018	17/07/2018	205
Social Service at Prem Samajam	27/08/2018	27/08/2018	53
Blood Donation camp School benches Distribution program on the Eve 116th Birth Anniversary of Late Dr. Dr.P A G Raju garu (founder of MANSAS Trust)	22/09/2018	22/09/2018	258
Swatch Bharath Camp	22/09/2018	22/09/2018	54
HEALTH AND HYGIENE-BREAST CANCER	29/09/2018	29/09/2018	54

awareness campaign			
SWACCH BHARATH CAMPAIGN	20/10/2018	20/10/2018	54
National Library Week Celebrations	14/11/2018	20/11/2018	54

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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? a) Energy Conservation 1 Institution meters energy segment wise and constantly reviews the same for initiatives for minimizing the consumption. 2 Periodic energy audit is being conducted at regular intervals by EEE department and recommendation made for savings 3 Periodic inspection and maintenance is carried out for improved performance of electrical systems and reduced loss 4 Awareness among the students and staff on energy conservation is created by displays at appropriate places. 5 The buildings are fitted with glass windows for maximum utilization of natural light. b) Use of Renewable Energy Steps are being taken for the utilization of solar power in the college campus. c) 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. d) Efforts for Carbon neutrality 1 Care is taken to restrict vehicle entry into the campus and specific parking area is allotted for faculty and students. 2 The institute restricted the usage of plastic bags in the campus. e) Plantation 1 Plantation program has been taken up by the NSS unit for increasing the Green Cover in the campus and surrounding villages. 2 The NSS unit regularly conducts awareness programs on plastic free environment in and around the village. f) Hazardous Waste Management and e-Waste Management 1 The condemned batteries are disposed through outside agencies. 2 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 • In creased 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.

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/BestPractices2018-19.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

7.3. 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/InstitutionalDistinctiveness2018-19.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