



Yearly Status Report - 2019-2020

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-2018-19.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/ACs-2019-20.pdf		
5. Accrediation Details					
Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	A	3.23	2009	15-Jun-2009	14-Jun-2014
2	A	3.14	2015	03-Mar-2015	31-Dec-2020
6. Date of Establishment of IQAC			15-Jun-2009		
7. Internal Quality Assurance System					
Quality initiatives by IQAC during the year for promoting quality culture					

Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
Process Simulation using ASPEN Hysis	28-Feb-2020 2	60
Sarda Metals and Alloys	24-Jun-2020 1	6
State level SAE Student Convention (Tier 2)	07-Mar-2020 1	6
Student Solar Ambassador Workshop with IIT Bombay	02-Oct-2019 1	10
Overview of Thermal Power Stations	27-Aug-2019 1	10
Design and Maintenance of Substations	13-Aug-2019 1	66
Power System Automation Using SCADA and GAS Insulated Substations	23-Jul-2019 1	64
AICTE Sponsored 2-week FDP on Recent Trends in Sustainable Design of Structures	18-Nov-2019 11	40
AICTE Sponsored International Conference on Sustainable Systems and Structures	15-Nov-2019 2	40
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8. Provide the list of Special Status conferred by Central/ State Government-UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/ Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Development of Intelligent Algorithms for Campus Navigation System	DST	TARE	2019 365	1830000
International Conference on Sustainable systems and structures	AICTE	Grant of Conference	2019 730	500000
Synthesis and characterization of thermochemical materials for solar thermal energy storage	DST	TARE	2019 365	1830000

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

Yes

Upload latest notification of formation of IQAC

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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

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11. Whether IQAC received funding from any of the funding agency to support its activities during the year?

No

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

1. Plays key role in inculcating research culture among faculty and students. 2. Facilitates in organizing inter and intra institutional workshops, seminars, on various academic curricular, cocurricular and extracurricular themes including quality related themes 3. Facilitates in designing formats of Teaching Plans with focus on Learning Objectives, Outcomes and teaching methods including student centric and experiential learning designed. 4. Conducts formal and informal department staff meetings to focus on Innovation in teaching especially student centric and participatory learning. 5. Conducted regular meetings with HoDs and conveners of academic and administrative committees on various quality enhancement measures, practices, procedures etc.. 6. Reviews the status of laboratory equipment through monitoring in a structured method, involving submission of reports and physical verification. 7. Facilitates in promotion of ethical values through class room behaviors, use of mobile phones as per rules, etiquette in campus corridors and common spaces, energy saving habits, etc., 8. Facilitates in conduct of awareness campaign on "environment and climate change" and on "green practices to be adopted". And also plays a role in maintenance of campus cleanliness and Hygiene 9. Plays key role in dissemination of information on various quality parameters of higher education. 10. Act as a nodal agency of the Institution for coordinating qualityrelated activities, including adoption and dissemination of best practices 11. Prepares Annual Quality Assurance Report (AQAR) as per guidelines and parameters of NAAC, to be submitted to NAAC.

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

Plan of Action

Achivements/Outcomes

To consider closure of (i)

Approval granted by AICTE JNTUK for

M.Tech.(Communication Systems) and (ii) M.Tech.(Data Sciences)	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	(i) As many as 22 faculty development activities such as Symposiums /FDPs/ Workshops/ Conferences were conducted during the period (ii) 9 proposals were submitted by various Departments (CIV-1, MEC-1, EEE-1, CSE&IT-3, ECE-1, CHE-1 and MBA-1) to organize FDPs in the next academic year				
To encourage staff to attend faculty development activities such as Workshops, Industrial Visits and also to pursue MOOCs	(i) Number of FDPs attended by Faculty: 341 (ii) GIAN Courses attended by Faculty : 84 (iii) Number of MOOCs done by Faculty: 131 (iv) Faculty Internships: 78				
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				
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14. Whether AQAR was placed before statutory body ?	Yes				
<table border="1" style="width: 100%;"> <thead> <tr> <th style="width: 50%;">Name of Statutory Body</th> <th style="width: 50%;">Meeting Date</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Management</td> <td style="text-align: center;">02-Feb-2020</td> </tr> </tbody> </table>		Name of Statutory Body	Meeting Date	Management	02-Feb-2020
Name of Statutory Body	Meeting Date				
Management	02-Feb-2020				
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	2020				
Date of Submission	19-Feb-2020				
17. Does the Institution have Management Information System ?	Yes				
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	List of modules currently operational in Management Information System (MIS) During the AY: 201920 MVGR College of Engineering (A) has automated various services which were once done manually. Beginning from 2014, Management Information System, namely ECAP is used in order to automate these services. This ECAP can be accessed both at MVGR				

and through public terminals, outside MVGR. The following are the modules which are operational: 1) Admin Module (Academic Calendars, Branch Sections, Branches, Certificates, Courses, Credits, Departments, Fee Types, Lecture Halls, Password, Seat Types, Settings, Staff Logins, Subjects, User Levels, Users, Circulars) 2) Fee Payments Module (Payments, Dues List, Fee Adjustments, Fee Reminders) 3) Examinations Module (Exam Application, Exam Names, Exam Paper, Exam Schedule, Exams, Invigilation Charges) 4) Employee Module (Assignments, Attendance, Attendance Download, Leave Management, Staff Vs Courses) 5) Accounts Module (Accounts, A/C Statement, Bank Accounts, Bank Trans Report Bill Clearing, Budget Amount Master, Cash Deposit, Cash On Hand, Cash Withdrawal, Day Book, Expenditures, Expenditures Report, Fee Refund) 6) Hostel Module (Hostel, 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	01	CIVIL	01/07/2019
BTech	02	EEE	01/07/2019
BTech	03	MECHANICAL	01/07/2019
BTech	04	ECE	01/07/2019
BTech	05	CSE	01/07/2019

BTech	08	CHEMICAL	01/07/2019
BTech	12	IT	01/07/2019
Mtech	57	VLSI	01/07/2019
Mtech	84	CNIS	01/07/2019
Mtech	87	SE	01/07/2019

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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	01/07/2019	GIS CAD LAB(A1CEL209)	01/07/2019
BTech	Civil Engineering	01/07/2019	BUILDING PLANNING AND CIVIL ENGG DRAWING(A1CED208)	01/07/2019
BTech	Civil Engineering	01/07/2019	PROFESSIONAL COMMUNICATION(A1EHT101)	01/07/2019
BTech	Civil Engineering	01/07/2019	BUSINESS COMMUNICATION(A1EHT102)	01/07/2019
BTech	EEE	01/07/2019	Constitution of India(A2EHA701)	01/07/2019
BTech	EEE	01/07/2019	Program for Problem Solving (A2CII201)	01/07/2019
BTech	EEE	01/07/2019	General Aptitude(A1EHA512)	01/07/2019
BTech	IT	01/07/2019	Data Science & Analytics(A1CIT315)	01/07/2019
BTech	IT	01/07/2019	Routing & Switching Concepts(A1CIT316)	01/07/2019
BTech	IT	01/07/2019	Firewalls & VPN(A1CIT317)	01/07/2019

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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	NIL	01/07/2019

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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	CIVIL	01/07/2019
BTech	EEE	01/07/2019
BTech	MECHANICAL	01/07/2019
BTech	ECE	01/07/2019
BTech	CSE	01/07/2019
BTech	CHEMICAL	01/07/2019
BTech	IT	01/07/2019
Mtech	VLSI	01/07/2019
Mtech	CNIS	01/07/2019
Mtech	SE	01/07/2019

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	01/07/2019	40
Basics of RS, GIS and GNSS	01/07/2019	10
Coding Training	01/07/2019	96
Aptitude Training	01/07/2019	96
3d experience platform	01/07/2019	210
Constitution of india	01/07/2019	193
English-1	01/07/2019	193
Entrepreneurship Development	01/07/2019	187
Professional Ethics IPR	01/07/2019	184
Stress Management by Yoga	01/07/2019	4
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BTech	CIVIL Engineering	16
BTech	EEE	194
BTech	Mechanical	280
BTech	ECE	22
BTech	CSE	23
BTech	CHEM	66
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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
MBA	MBA	120	40000	118
Mtech	CNIS	18	2364	5
Mtech	VLSI	18	3211	4
BTech	CHE	60	129441	52
BTech	CIV	120	124559	103
BTech	IT	60	129342	64
BTech	EEE	120	120057	109
BTech	CSE	180	129889	193
BTech	ECE	180	119990	191
BTech	MEC	180	119270	172

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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
2019	3859	314	208	16	15

2.3 – Teaching - Learning Process

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

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
239	239	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
3859	239	1:16

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
234	234	0	6	83

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	Outstanding Doctoral Thesis in the area of concrete, Indian Concrete Institute (Vijayawada Centre) – Ultratech cements
2019	Dr B Madhava Varma	Assistant Professor	Top performing Mentor for NPTEL course on Engineering Mechanics, NPTEL
2020	Dr B Madhava Varma	Assistant Professor	Top Mentor award for NPTEL course on Strength of Materials Top Mentor award for NPTEL

			course on Strength of Materials
2020	B. Srinivas	Assistant Professor	Best Researcher Award, IJIEMR ELSEVIER-SSRN
2019	P.Ravi Kiran Varma	Associate Professor	Outstanding performance CISCO IPD week, CISCO Networking Acedemy
2020	P.Ravi Kiran Varma	Associate Professor	Received CISCO Expert Level Instructor Excellence Award., CISCO Networking Acedemy
2019	P.Ravi Kiran Varma	Associate Professor	Awarded Elite and Topper (Top 1) in the NPTEL course on Ethical Hacking, NPTEL
2019	ASV Jayasri	Associate Professor	Awarded Elite and Topper (Top 1) in the NPTEL course on "PROGRAMMING with Java, NPTEL
2019	Dr.P.Srinivas	Associate Professor	Research Excellence award, Institute of Scholars
2019	N.Sushma Rani	Assistant Professor	Research Excellence award, Institute of Scholars
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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	01	ODD	11/12/2019	23/01/2020
BTech	01	EVEN	17/06/2020	17/07/2020
Mtech	02	ODD	28/12/2019	27/01/2020
Mtech	02	EVEN	10/10/2020	11/11/2020
MBA	03	ODD	09/12/2019	24/01/2020
MBA	03	EVEN	26/09/2020	11/11/2020
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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	Total number of students appeared	Percentage
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about evaluation	in the examination	
0	0	0

2.6 – Student Performance and Learning Outcomes

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

https://www.mvgrce.com/sites/default/files/NAAC/POs/POs_PSOs_COs.pdf

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	972	803	82.61
01	BTech	EVEN	971	971	100
02	Mtech	ODD	51	51	100
02	Mtech	EVEN	44	44	100
03	MBA	ODD	115	114	99.13
03	MBA	EVEN	116	116	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/StudentSatisfactionSurvey2019-20.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	Outstanding Doctoral Thesis in the area of concrete	02/10/2019	Outstanding Doctoral Thesis in the area of concrete
National	H. Sudha	Visvesvaraya PhD Scheme for Electronics IT (SRF)	01/04/2020	Ministry of Electronics IT
International	Dr. B.M.B. Krushna	American Journal of Applied Mathematics	19/05/2020	Science Publishing Group

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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
International Projects	365	Currnt, USA	1000	1000
Major Projects	1095	DST-SERB UNDER SERB TARE	1650000	550000
Major Projects	1095	SERB (DST)	3141000	518105
International Projects	1095	MVGR-UNISA	0	0
Major Projects	1095	DST -SERB	1840000	603918
Major Projects	1095	SERB-DST	1830000	610000

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

4

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
Power System Automation Using SCADA and GAS Insulated Substations	EEE	23/07/2019
Design and Maintenance of Substations	EEE	13/08/2019
Overview of Thermal Power Stations	EEE	27/08/2019
Student Solar Ambassador Workshop with IIT Bombay	EEE	02/10/2019

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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
Consumer Outreach Programme	K.Siva Sai Varma	Telecom Regulatory Authority of India, Hyderabad	01/08/2019	Participation
Consumer Outreach Programme	J. Koundinya	Telecom Regulatory Authority of India, Hyderabad	01/08/2019	Participation
Consumer	G. Anvesh	Telecom	01/08/2019	Participation

Outreach Programme		Regulatory Authority of India, Hyderabad		
Consumer Outreach Programme	A. Pawan Kumar	Telecom Regulatory Authority of India, Hyderabad	01/08/2019	Participation
Consumer Outreach Programme	B. Hari Prasad	Telecom Regulatory Authority of India, Hyderabad	01/08/2019	Participation
Consumer Outreach Programme	B. Vinod	Telecom Regulatory Authority of India, Hyderabad	01/08/2019	Participation
Consumer Outreach Programme	B. Yamini	Telecom Regulatory Authority of India, Hyderabad	01/08/2019	Participation
Consumer Outreach Programme	K. Nikhila	Telecom Regulatory Authority of India, Hyderabad	01/08/2019	Participation
Consumer Outreach Programme	D. Depeepya	Telecom Regulatory Authority of India, Hyderabad	01/08/2019	Participation
Consumer Outreach Programme	K. Anusha	Telecom Regulatory Authority of India, Hyderabad	01/08/2019	Participation
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3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
Nil	Nil	Nil	Nil	Nil	01/07/2019
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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	2
IT	1

SH	1
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3.4.2 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
National	Mechanical	21	1.55
International	ECE	36	0
International	CSE	9	1.72
International	EEE	13	4.92
International	IT	4	0
National	CIVIL	1	0
International	CIVIL	23	0.49
International	CHEM	15	0
National	CHY	1	0.7

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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
MECHANICAL	4
ECE	10
CSE	1
EEE	3
IT	1
CIVIL	11
CHEM	2

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3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
Artificial Intelligence Based automated Music Composing Model	Published	201941013991	25/07/2019
Auto-powered Assistive Device for Visually Impaired People	Filed	2020102442	25/07/2019

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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
Review on	K. Naga	Internatio	2019	0.11	Yes	0

Sustainable Micro-Concrete	Rajesh, Manoj Kumar Rath, P. Markandeya Raju,	Journal of Recent Technology and Engineering (IJRTE)				
A REVIEW ON SOIL STRUCTURE INE T R A C T I O N	Vinod Kumar Malla, Manoj Kumar Rath, P. Markandeya Raju	International Journal of Technical Innovation in Modern Engineering Science (IJTIMES)	2019	0	Yes	0
Forecasting of extreme flood events using different satellite precipitation products and wavelet-based machine learning methods.	Yeditha, P.K., Kasi, V., Rathinasamy, M., Agarwal, A.	Chaos: An Interdisciplinary Journal of Nonlinear Science	2020	0.93	Yes	1
Attribution of Hydrologic Changes in a Tropical River Basin to Rainfall Variability and Land-Use Change: Case Study from India	Setti, S., Maheswaran, R., Radha, D., Sridhar, V., Barik, K.K., Narasimham, M.L.,	Journal of Hydrologic Engineering	2020	0.69	Yes	1
A novel method to improve vertical accuracy of CARTOSAT DEM using machine learning	Kasi, V., Yeditha, P.K., Rathinasamy, M., Pinninti, R., Landa, S.R., Sangamreddi, C.,	Earth Science Informatics	2020	0.39	Yes	0

model	Agarwal, A., Dandu Radha, P.R.,					
Comparison of different digital elevation models for drainage morphometric parameters: a case study from South India.	Kasi, V., Pinninti, R., Landa, S.R., Rathinasamy, M., Sangamreddi, C., Kuppili, R.R., Dandu Radha, P.R., 2020.	Arabian Journal of Geosciences	2020	0.4	Yes	2
Wavelet entropy-based evaluation of intrinsic predictability of time series	Guntu, R.K., Yeditha, P.K., Rathinasamy, M., Perc, M., Marwan, N., Kurths, J., Agarwal, A.,	Chaos:An Interdisciplinary Journal of Nonlinear Science	2020	0.93	Yes	4
Spatiotemporal variability of Indian rainfall using multiscale entropy	Guntu, R.K., Rathinasamy, M., Agarwal, A., Sivakumar, B	Journal of Hydrology	2020	1.68	Yes	3
Accounting for temporal variability for improved precipitation regionalization based on self-organizing map coupled with information theory	Guntu, R.K., Maheswaran, R., Agarwal, A., Singh, V.P., .	Journal of Hydrology	2020	1.68	Yes	1
FE modelling	P Ganesan, S Kumar	Structural Engineering	2019	0.65	Yes	2

of low velocity impact on RC and prestressed RC slabs		g and Mechanics				
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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
Review on Sustainable Micro-Concrete	K. Naga Rajesh, Manoj Kumar Rath, P. Markandeya Raju,	International Journal of Recent Technology and Engineering (IJRTE)	2019	17	0	Yes
A REVIEW ON SOIL STRUCTURE INTERACTION	Vinod Kumar Malla, Manoj Kumar Rath, P. Markandeya Raju	International Journal of Technical Innovation in Modern Engineering Science (IJTIMES)	2019	0	0	No
Forecasting of extreme flood events using different satellite precipitation products and wavelet-based machine learning methods.	Yeditha, P.K., Kasi, V., Rathinasamy, M., Agarwal, A.	Chaos: An Interdisciplinary Journal of Nonlinear Science	2020	100	1	Yes
Attribution of Hydrologic Changes in a Tropical River Basin to Rainfall Variability and Land-	Setti, S., Maheswaran, R., Radha, D., Sridhar, V., Barik, K.K., Narasimham, M.L.,	Journal of Hydrologic Engineering	2020	82	1	Yes

Use Change: Case Study from India						
A novel method to improve vertical accuracy of CARTOSAT DEM using machine learning model	Kasi, V., Yeditha, P.K., Rath inasamy, M., Pinninti, R., Landa, S.R., Sangamreddi, C., Agarwal, A., Dandu Radha, P.R.,	Earth Science Informatics	2020	19	0	Yes
Comparison of different digital elevation models for drainage morphometric parameters: a case study from South India.	Kasi, V., Pinninti, R., Landa, S.R., Rath inasamy, M., Sangamreddi, C., Kuppili, R.R., Dandu Radha, P.R., 2020.	Arabian Journal of Geosciences	2020	40	2	Yes
Wavelet entropy-based evaluation of intrinsic predictability of time series	Guntu, R.K., Yeditha, P.K., Rath inasamy, M., Perc, M., Marwan, N., Kurths, J., Agarwal, A.,	Chaos: An Interdisciplinary Journal of Nonlinear Science	2020	100	4	Yes
Spatiotemporal variability of Indian rainfall using multiscale entropy	Guntu, R.K., Rath inasamy, M., Agarwal, A., Sivakumar, B	Journal of Hydrology	2020	208	3	Yes
Accounting for temporal variability	Guntu, R.K., Maheswaran, R.,	Journal of Hydrology	2020	208	1	Yes

for improved participation on regionalization based on self-organizing map coupled with information theory	Agarwal, A., Singh, V.P., .					
FE modelling of low velocity impact on RC and prestressed RC slabs	P Ganesan, S Kumar	Structural Engineering and Mechanics	2019	51	2	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	28	332	19	3
Presented papers	41	7	0	0
Resource persons	8	18	12	1
View File				

3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultant(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
Civil Engineering	Material Testing (Concrete, Steel) NDT (Rebound Hammer, UPV)	EC-MG NREGS, RWS S, Garugabilli, RWS S G L Puram, RWSS G.L. Puram, RWSS, Vizianagaram, RWS S Vepada, RWS S Vepada, Aakruti, RWS S Kurupam, RWS S Kurupam, RWS S Kurupam, RWS S parvathipuram, MANSAS Trust, STARK MARINE, Sagar Vihar, RWS	193625
Civil Engineering	Soil Testing (SBC)	RWS S, Garugabilli, RWS S G L Puram, RWSS G.L. Puram, RWSS, Vizianagaram,	34500

		RWS S Vepada, RWS S Vepada, Aakruti, RWS S Kurupam, RWS S Kurupam, RWS S Kurupam, RWS S parvathipuram, MANSAS Trust, RWS S Bhogapuram, RWS S L Kota, Krishna Ks	
Civil Engineering	Mix Design	RWS S, Garugabilli, RWS S G L Puram, RWSS G.L. Puram, RWSS,Vizianagaram, RWS S Vepada, RWS S Vepada, RWS S Kurupam, RWS S Kurupam, RWS S Kurupam, RWS S parvathipuram, RWS S Bhogapuram, RWS S L Kota,	120000
MEC	Wear test	Vignan's Institute of Information Technology	1050
MEC	Wear test hardness testing	Raghu Institute of Technology	3050
MEC	Tensile testing and wear testing	Avanthi Institute of Engg Technology	1400
MEC	FFT Analyser	Daita Madhusudhana Sastry Sri Venkateswara Engg College	1250
MEC	Hardness and impact strength testing	Chaitanya Engg College	1700
MEC	Wear test	Raghu Institute of Technology	1050
MEC	Testing on bomb calorimeter	Testing on bomb calorimeter	2250
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
Nil	Nil	Nil	0	0
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	Number of students participated in such
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		activities	activities
Distribution of Fruits at MR Hospital	MVGRCE, NSS Unit [068]	4	50
Plantation Program Environmental Awareness programme	MVGRCE, NSS Unit [068]	5	100
Yoga and Meditation Awareness Campaign	MVGRCE, NSS Unit [068]	5	100
Blood Donation Camp -1	MVGR COLLEGE OF ENGINEERING	8	300
Medical Camp	MVGRCE, NSS Unit [068]	5	50
Mega planation program	MVGRCE, NSS Unit [068]	5	200
Women Empowerment program	MVGRCE, NSS Unit [068]	5	100
Swachh Bharat Campaign	MVGRCE, NSS Unit [068]	5	50
National Library Week Celebrations	MVGRCE, NSS Unit [068]	4	50
Drug Abuse Awareness Programme	MVGRCE, NSS Unit [068]	4	150
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	150
Blood Donation Camp	District Level Award for Mega Blood Donation Camp	Lions club Rotary Club, Vishakapatnam	300
View File			

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

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
NSS UBA	MVGRCE, NSS Unit [068]	Swachh Bharat Campaign	6	100
NSS UBA	MVGRCE, NSS Unit [068]	Mega planation program	8	300
NSS UBA	MVGRCE, NSS Unit [068]	Women Empowerment program	4	75
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
Development of Intelligent Algorithms for Campus Navigation System	Dr G Suvarna Kumar	DST/TARE	1095
Electric and Hybrid Vehicle Technologies	Dr. N Ravi Kumar	AICTE/STTP	365
Machine Learning Applications with R Programming	Dr P Satheesh	AICTE/STTP	365
Design and Simulation of Miniature Antennas for IoT Applications	Dr. M. Satyanarayana	AICTE/STTP	365

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

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Project Students to company linkage	Soil Stabilization using cement and stableroad additive	KDM Engineers Pvt Ltd.	01/12/2019	11/03/2020	4
Internship	Industry Internship	132/33KV Substation - Vontithadi,, VT Agraharam, VZM Dist.,,R ashtriya Ispat Nigam Limited, Vis akhapatnam Steel Plant, 765 KV (GIS)/400KV (AIS) Substation, amakrishnapuram (Vill), SKLM Dist, Hindustan	01/05/2020	30/06/2020	134

		Petroleum Corporation Ltd., New Block Oil Termina			
Industry Internship	Industry Internship	Zonal Workshop -AP SRTC-Vizianagara	27/08/2019	28/08/2019	132
Project Work	Project Work	CSIR-National Aerospace Laboratories	01/06/2019	31/05/2020	2
Project Work	Project Work	Skill and innovation Promotion (SAIP) Central Mechanical Engineering Research Institute (CMERI)	01/06/2019	30/05/2020	2
Project Work	Project Work	NSTL, Visakhapatnam	01/08/2019	15/07/2020	2
Industry Internship	Industry Internship	BHEL, APSRTC, Zonal Workshop, SAMKRG Piston Rings Ltd-M/s Uniparts India Ltd, M/s Synergies Castings Ltd., Hyundai Motors, Varun Motors, Leela Krishna Toyota Showroom, Eastern Naval Command, Naval Base	01/08/2019	25/03/2020	50
CBT -Solid Edge	Job Training	Siemens Industry Software Pvt. Ltd	01/06/2019	12/03/2020	105
CNC	Job Training	Siemens Industry Software Pvt. Ltd	01/06/2019	12/03/2020	164
APSSDC-Welding-	Job Training	Siemens Industry Software	01/06/2019	12/03/2020	207

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
GES VIZAG	11/09/2019	Research and Training for students, Constultancy	4
BSNL, Visakhapatnam	05/01/2020	The students and faculty can do internship/projects, to learn BSNL Infrastructure, to get hands on experience in all telecom streams, namely digital switching, digital transmission systems (Optical communications), wireless communications, mobile com	4
COURSERA	01/04/2020	Coursera offers teachers and students free access to online education with the possibility of a certificate of achievement on successful completion of their chosen course.	100
MICROSOFT CAMPUS AGREEMENT	30/12/2019	1. One-year faculty license and Software Assurance packs 2. One-year student license and Software Assurance packs	100
CISCO NETWORKING ACADEMY	05/05/2020	The Cisco Networking Academy program is a program aimed at helping improve the skills of different students all over the world with basic Networking	300

		skills about routing, switching, configuration of networking devices e.t.c. This will enable the learner	
SALESFORCE	01/01/2019	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
CODETANTRA	01/01/2019	Online Classes, Assessments, Proctored Exams, Assignments, Auto-grading, Plagiarism Checks – all in one platform	100
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
150	108.63

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
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

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4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
KOHA (Open Source Software)	Fully	19.05	2019

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	7795	8240338	234	211334	8029	8451672
Reference Books	2815	2056596	123	52833	2938	2109429
e-Books	467	181292	526	187750	993	369042
Journals	128	411982	4	218646	132	630628
Digital Database	6252	138414	0	222228	6252	360642
CD & Video	2312	92480	310	15500	2622	107980
Library Automation	0	200000	0	2200000	0	2400000
e-Journals	1002	2234390	0	2369048	1002	4603438

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

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
NIL	NIL	NIL	01/07/2019

[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	1700	10	300	4	3	13	13	300	0
Added	0	0	95	1	0	0	0	95	0
Total	1700	10	395	5	3	13	13	395	0

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

395 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 incurred on maintenance of physical facilities
517.63	258.51	419.16	329.84

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

Procedures and policies for maintaining and utilizing physical, academic and support facilities (like laboratory, library, sports complex, computers, classrooms etc...) Various committees are constituted with one of the senior faculty as convener to monitor the maintenance of academic infrastructure and facilities. Distinct features of Maintenance of Buildings: Maintenance committee headed by Dean (Civil Infrastructure) looks after everything connected to construction maintenance of buildings. College has a Campus Engineer to implement the decisions taken by maintenance committee in connection with maintenance of infrastructure, electrical and plumbing requirements, painting and repairs if any in the campus. In addition, campus engineer attends to the complaints and suggestions from students and faculty.

o Maintenance of Campus: The day-to-day cleaning of the campus is maintained by the Maintenance Supervisor who reports to the Campus Engineer. Maintenance Supervisor is provided with a team of contingent staff for housekeeping, sanitation and gardening works in the campus daily. The Maintenance Supervisor prepares a schedule for regular maintenance of the campus.

o Maintenance of Library: the infrastructure and facilities available in the library are looked after by the library staff as per the guidelines for library committee headed by Asst. Principal (Academics). Library stock verification is carried out annually. Up keep of the library is also looked after by the Maintenance Supervisor. The books and journals are kept clean and tidy by the library assistants who report to the Librarian.

o Maintenance of Play Area: - The Physical Directors are in-charge for the play areas. The cleanliness is maintained with man-power provided by the Campus Engineer.

o Maintenance of Labs Lab Equipment: The Equipment in the labs is monitored by the lab technicians who closely observe their functioning calibration regularly and report failures to the lab in-charges. The lab in-charges are responsible for the physical safety, preventive and breakdown maintenance of all lab equipment. They also suggest the purchase of new equipment (necessitated by change of Syllabus), scrapping obsolete and old equipment in the lab stock and for the replacement/ repair of the damaged. The committee ensures the availability and accessibility by keeping the lab infrastructure in working condition. Each Lab is provided with suitable Notice Boards, Display Charts for access to information and enhanced learning.

o Maintenance of Teaching Aids: All the departments have dedicated teaching aids which are centrally maintained by the E-Service committee headed by a senior professor with the help of system administrator and E-Service committee member representing the department. Department E-service committee member nominated by the HoD is in charge for maintenance and to monitor the teaching aids allotted to the department like department lap-tops, OHPs, LCD projectors, White Screens etc., The maintenance registers are available in the respective departments.

o All the equipment and the other office infrastructure are maintained under the supervision and guidance of Maintenance Coordinators/Conveners in Electrical, Mechanical and Communication equipment. Whereas, the computers located all over the campus are maintained by system administrator and his team and regular up

graduation is carried out for proper functioning. Annual

<https://www.mvgrce.com/sites/default/files/NAAC/Others/PP/ProcedureNPolicies2019-20.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	0	0	0
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 implementation	Number of students enrolled	Agencies involved
Supplementary remedial (IV Sem)	03/08/2019	203	In House
Supplementary remedial (II Sem)	03/08/2019	81	In House
Student Counselling Programme	01/06/2019	400	Department Faculty Counselling Psychologist.Dr K Sunitha
Yoga Certification Course (Audit Course)	01/11/2019	148	MVGR College of Engg
Bridge courses Lateral Entry Students	03/08/2019	18	MVGR College of Engg
Remedial coaching	03/01/2020	107	MVGR College of Engg
Skill Development Training Programme	01/01/2019	754	APSSDC-Siemens Technical Skill Development Institute (tSDI)
NSS, NCC, Sports Culturals	01/12/2019	101	MVGR College of Engg
Yoga Training	01/12/2019	18	MVGR College of Engg
Remedial Classes	01/10/2019	25	MVGR College of Engg
View File			

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

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2020	CRT	888	374	0	577
2020	GATE	193	0	33	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
3	3	7

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
Infosys	270	46	TechnipFMC	27	3
View File					

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

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2020	1	01	CE	NIT Silchar	M.Tech
2020	2	01	CE	NIT Rourkela	M.Tech
2020	3	01	CE	NIT Silchar	M.Tech
2020	4	01	CE	University of Petroleum and Energy Studies	M.Tech
2020	5	03	Mechanical	AU	M.Tech
2020	6	03	Mechanical	AU	M.Tech
2020	7	04	Mechanical	ICFAI IBS	M.Tech
2020	8	04	ECE	IIT KHARAGPUR	M.Tech
2020	9	04	ECE	Teesside University, UK	MS
2020	10	04	ECE	IIM Tiruchirappalli	MBA
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5.2.3 – Students qualifying in state/ national/ international level examinations during the year
(eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
GATE	30
CAT	1
GRE	2
Civil Services	6
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	0
^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
2020	Inter University Represented	National	1	0	15331A0339	D. Sai Varun(Roller Sports)
2020	Inter University Represented	National	1	0	17331A03G2	Shaik Nazeer(Karate)
2020	Runners	National	1	0	College Team	Collge Team(Basket Ball)
2020	Inter University Represented	National	1	0	17331A0448	D. Sridevi (Kho-Kho)
2020	Inter University Represented	National	1	0	17331A0257	K. Bharathi(Volley Ball)
2020	Inter University Represented	National	1	0	18331A05H0	V. Dinesh Kumar (Badminton)
2020	Inter University	National	1	0	16331A0266	M. Lokesh Kumar (Ches

	Represented					s)
2020	Inter University Represented	National	1	0	15331A0837	P. Jeevan Kumar (Hand ball)
2020	Inter University Represented	National	1	0	15331A03G1	T. Jashwant (Roller Sports)

[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:

- Each class for each year of study nominates two Class Representatives (CRs) one from girls and one from boys
- As such each year of study is going to have two CRs for each section in each program department.
- 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.
- 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.
- 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.
- The ancillary student bodies are
 - o Cultural Committee
 - o Sports Committee
 - o Anti - Ragging Committee
 - o NSS Committee
 - o Magazine Committee
 - o Women Empowerment
 - o Entrepreneur Development Committee
 - o Alumni Committee
 - o Hostel Committees

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

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

1. Alumni Association Registration Number: Alumni Association is registered under societies registration act XXI of 1860 in 2007 with the name MVGR Alumni Association (MAA) (Registration No.100/07) 2. It has two Chapters in other Cities/Countries: One in India at Hyderabad and other Abroad at USA. The

Institution is making efforts to identify places where alumni chapters can be started. 3. The institution maintains a separate interactive website on its sub-domain to actively engage with alumni. Regular email exchanges also happen online. The website may be accessed @ <http://www.mvgr-alumni.org> 4. Extent of alumni involvement in the development of the Institution: (Facilitating placements and industrial visits, Providing exposure to different areas in their organizations, Financial assistance for economically backward students, Assistance in identifying consultancy projects)

5.4.2 – No. of registered Alumni:

7644

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

0

5.4.4 – Meetings/activities organized by Alumni Association :

1. Bengaluru local chapter of MAA called for a executive body meeting to discuss the possibilities to reach the alumni who are completely out of contacts and to discuss future plan 2. Mr P Ram Prasad, Deputy Manager PGCIL, gave a technical talk on Power system automation using SCADA and Gas insulated substations 3. Ms M Padmaja shared her thoughts on career opportunities for Electrical students in core and IT fields. 4. Mr Prasad Arun Kumar, Lead Engineer Mahindra Mahindra, shared challenges and opportunities in Automobile industry with 3rd year mechanical students. 5. Mr Sarat Chandra R, Navigational Radar Engineer BEL, gave a motivational talk to third and final year students of ECE. 6. Ms Sree Raghavi, an alumni from Chemical Engineering, interacted with the faculty of her parent department to share future career opportunities for chemical students

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

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

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

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

Yes

6.2 – Strategy Development and Deployment

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

Strategy Type	Details
Admission of Students	1. Admission process of the institution is transparent and the government of Andhra Pradesh through APSCHE undertakes counseling through a state level process which is inclusive in its nature. Further the district of Vizianagaram being in a backward area attracts more than design/stipulated percentage admissions in various reserved categories. Therefore, it can be said that the admission process is not only transparent but also highly inclusive.
Industry Interaction / Collaboration	1. Industry interaction 2. Organisation of industrial tours 3. Deputing faculty and staff or industrial training 4. Guest lectures by the experts from industry 5. Collaboration with industries 6. The institution has RD Cell to collaborate with industries and outside organizations and to take up consultancy works.
Human Resource Management	1. Transparent policy document 2. Transparent and scientific way of selections 3. Imparting related training 4. Formulation and communication of policies of the college 5. Support for academic advancement 6. Systematic performance appraisal system and guidance to the faculty 7. Systematic promotion policies 8. Democratic way of administration with participative management
Library, ICT and Physical Infrastructure / Instrumentation	1. Exit feedback is collected from the students regarding the library facility available in the campus. And the feedback information analysed by the library advisory committee is utilized for further improvement of the library. 2. Computer systems are upgraded with latest configuration once in Three years. 3. Individual up gradation of the computers is taken up as per the need and requirements of the various departments. 4. Enough provision is made available in the annual budgets for the procurement of the computer systems. 5. Once new systems are

procured, they replace the existing systems as per the requirements of the departments. 6. All the computer systems in the campus are regularly monitored by the system administrator and maintenance staff. 7. The trouble/problems experienced by the computers in the various laboratories are entered by the lab programmers/technicians in the complaint register. 8. The maintenance staff will then goes to the respective labs for identification of the problems and resolves the same at the respective places. 9. In case of major problems i.e. replacement of component/part during warranty they are sent to the respective service centers and got replaced at the earliest. 10. Computer center is provided with Fourteen servers of different capacities to cater the computer requirements

Research and Development

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

Examination and Evaluation

1. The performance of the students both in midterm examinations and end semester examinations in theory and laboratory subjects and project works are considered as an indicator in evaluating the student performance and also achievement of learning objectives. 2. Further, students are evaluated on continuous basis in the form of conducting tutorials, assignments, class tests etc., to

assess the learning outcomes. 3. Direct Assessment: (i) Performance evaluation through internal and external examinations in both theory and lab, (ii) Performance evaluation by conduct of tutorials and assignments and (iii) Performance evaluation in project work. 4. Indirect Assessment: (i) Survey of Alumni, (ii) Exit feedback and (iii) Employer feedback

Teaching and Learning

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

Curriculum Development

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

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

E-governance area	Details
Planning and Development	1. SMS system for dissemination of information including regular notice to students is implemented. 2. ERP Management system is implemented with database of students, faculty and staff etc. 3. Library is automated using 'SOUL' software
Administration	1. Online leave requisition system is made available through ERP Management system. 2. Signage Boards are provided to display notices for students and

	<p>other stakeholder. 3. PFMS portal is uploaded regularly with expenditure related to Govt. fund. 4. Notices and circulars are uploaded in the college website and communicated to different departments through email from the office of the Principal 5. Salary of faculty members and staff is transferred directly to the bank account.</p>
Finance and Accounts	<p>1. College accounts are computerised and maintained through ERP Management system 2. In addition, Tally software is also used to generate various financial reports 3. All financial transactions are being done online including salaries</p>
Student Admission and Support	<p>1. Online admission of students is being done by state government of AP through EAMCET. 2. Student's database is maintained through ERP Management system 3. Information of Course curriculum, Academic calendar, Time tables are made available in the college website. 4. Email IDs and contact numbers of all members of Anti Ragging Committee, Anti Ragging Squad and Grievance Redressal Cell have been uploaded in the college website and students can communicate to the members through email 5. Automatic SMS alerts are sent to the parents of students whenever they are absent to class on daily basis. 6. SMS alerts are sent to the parents of students to convey any important information</p>
Examination	<p>1. Examination schedule is provided in web site. 2. Processing of results is automated and results are made available in website. 3. SMS alerts are sent to the parents regarding performance in the examinations of their wards.</p>

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
2019	B SRINIVAS	INTER NATIONAL CONFERENCE (ICISS-2019) INTERNATIONAL CONFERENCE	Professional body	27820

		(SUSCOM-2019)		
2019	MR.D.SIDHARDHA	PERSONALISATION - AN ALTERNATIVE TARGETING TOOL.THROUGH DIGITAL MARKETING	Professional body	3974
View File				

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

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2019	International Conference on Sustainable Systems and Structures	Nil	15/11/2019	16/11/2019	30	0
2019	Two Week FDP On Recent Trends In Sustainable Design Of Structures	Nil	18/11/2019	30/11/2020	35	0
2019	Nil	Scheduled and Breakdown Maintenance of Electrical Equipment for Technical Staff	19/07/2019	19/07/2019	0	18
2019	Executive Leadership Development Program	Nil	24/06/2019	28/06/2020	200	0
2019	Nil	Skill Development Training Programme/A PSSDC-Siemens	01/06/2019	15/06/2019	0	12

		Technical Skill Development Institute (tSDI)				
2019	Workshop on channel coding in 5G	Nil	24/08/2019	25/08/2019	10	0
View File						

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

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
ATAL FDP on Artificial Intelligence, MNNIT Allahabad	27	18/05/2020	22/05/2020	5
Teaching English Online FDP 2020	27	27/05/2020	31/05/2020	4
ICSSS 2019 (International Conference on Sustainable Structures and Systems)	27	15/11/2019	16/11/2019	2
Recent Advances in Chemistry, Pharmaceutical and Life Sciences (RACPL 2019)	27	13/07/2019	15/07/2019	3
AICTE Sponsored workshop on Machine Learning Applications with R Programming	27	05/03/2020	11/03/2020	17
GIAN course on Analysis and Design of MSE Walls	27	29/07/2019	09/08/2019	12
Hands-on Training for Remote Sensing its Applications	27	23/11/2019	30/11/2019	8
AICTE sponsored two week FDP on	27	18/11/2019	30/11/2019	12

Recent Trends in Sustainable Design of Structures				
TEQIP-III sponsored one week short term course on Recent Developments in Water and Geo-Environmental Issues	1	05/08/2019	09/08/2019	5
Revision of IS456:2000	1	07/12/2019	07/12/2019	1
View File				

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
6	6	0	0

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<p>1. Group Gratuity Scheme for all the staff 2. Provisions of Employees Provident Fund (EPF) ESI 3. Group Insurance cover to the tune of Rs. 2,00,000/- 4. Medical Insurance Cover to the tune of Rs. 1,00,000/- to Employee family members 5. Cash Incentives for Research Publications and other such RD Activities such as Funded Projects, Consultancy, MOOCs, Patents etc... 6. Sponsorship for higher Education through QIP. 7. Academic Leave with Pay to pursue PhD 8. Reimbursement of TA, DA, Registration Fee to attend FDPs such as Seminars / Workshops / Refresher Courses / GIAN / Industry Internships / Training on Modern Tools / etc... 9. Reimbursement of application and registration fee of Patents for filing 10.</p>	<p>1. Group Gratuity Scheme for all the staff 2. Provisions of Employees Provident Fund (EPF) ESI 3. Group Insurance cover to the tune of Rs. 2,00,000/- 4. Medical Insurance Cover to the tune of Rs. 1,00,000/- to Employee family members 5. Pay Scales with allowances 6. Free local transportation for NT Staff 7. Paid Maternity Leave of SIX months</p>	<p>1. Gold Medals and Silver Medals to the best performers. 2. Industrial Visits -free transport. 3. Seminars/Workshops/Refresher Courses - T.A., D.A., Registration Fee reimbursements. 4. Extramural Sports, Cultural Literary Events - T.A., D.A. reimbursements 5. Sponsorship for fabrication/modelling works in projects 6. Free transport for socially disadvantaged students 7. Academic Awards for meritorious students: (a) An amount of Rs.35,000/- cash award for I ranker from each class, (b) An amount of Rs.23,333/- cash award for II ranker from each class and (c) An amount of Rs.11,667/- cash award for III ranker from each class</p>

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

6.4 – Financial Management and Resource Mobilization

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

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

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

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

6.4.3 – Total corpus fund generated

0

6.5 – Internal Quality Assurance System

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

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

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

Parents meetings are conducted once in a year and their opinions on the academic environment in the campus are collected. After analysing the feedback,

their suggestions are considered for improvement. There is no formal parent-teacher association.

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

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

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

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

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	Yes
c) ISO certification	No
d) NBA or any other quality audit	Yes

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2020	Sarda Metals and Alloys	24/06/2020	24/06/2020	24/06/2020	6
2020	Process Simulation using ASPEN Hysis	28/02/2020	28/02/2020	29/02/2020	60
2019	AICTE Sponsored International Conference on Sustainable Systems and Structures	15/11/2019	15/11/2019	16/11/2019	40
2019	AICTE Sponsored 2-week FDP on Recent Trends in Sustainable Design of Structures	18/11/2019	18/11/2019	30/11/2019	40
2019	Power System Automation Using SCADA and GAS	23/07/2019	23/07/2019	23/07/2019	64

	Insulated Substations				
2019	Design and Maintenance of Substations	13/08/2019	13/08/2019	13/08/2019	66
2019	Overview of Thermal Power Stations	27/08/2019	27/08/2019	27/08/2019	10
2019	Student Solar Ambassador Workshop with IIT Bombay	02/10/2019	02/10/2020	02/10/2020	10
2020	State level SAE Student Convention (Tier 2)	07/03/2020	07/03/2020	07/03/2020	6

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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

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

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Empowerment of women at village level Door to door campaign on abolition of girl child marriages	02/01/2019	03/01/2019	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	No	0

Software/facilities		
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
2020	1	1	02/02/2020	1	Abolition of girl child marriages	Yes	30

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7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
Service Manual(Professional Ethics and academic Responsibility)	20/06/2019	Service manual is distributed to all Faculty on rolls
Student Hand Book (Rolls and responsibilities including code of conduct)	01/07/2019	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)	20/06/2020	Examination Manual is distributed to all faculty on rolls

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Distribution of Fruits at MR Hospital	02/05/2019	02/05/2019	54
Plantation Program Environmental Awareness programme	25/06/2019	25/06/2019	105
Yoga and Meditation Awareness Campaign	21/06/2019	21/06/2019	105
Blood Donation Camp -1	02/03/2020	02/03/2020	308
Medical Camp	17/07/2019	17/07/2019	55
Mega planation	13/07/2019	13/07/2019	205

program			
Women Empowerment program	14/02/2019	14/02/2019	105
Swachh Bharat Campaign	28/08/2019	28/08/2019	55
National Library Week Celebrations	01/10/2019	01/10/2019	54
Drug Abuse Awareness Programme	26/09/2019	29/09/2019	154
View File			

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

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

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

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

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

A Detailed Project Report covering the above activities along with the estimated budget, possible demand, proposed course fee and viability for break-even within 5 years is prepared by the department proposing to introduce an add-on program. The report of the department is reviewed by the central administrative team of the college chaired by the Principal. Upon approval of the proposed program, the department proceeds with implementation of the add-on program. The central administrative team is responsible for monitoring the effectiveness of delivery of the add-on programme and in ensuring that the stated objectives and outcomes are met while the departmental program committee, consisting of a team of faculty with relevant training, bears the responsibility for implementation and successful delivery of the program. The college has put in place suitable add-on programs in collaboration with industry to bridge skill gaps. The course content for these programs are detailed based on discussions with the concerned industry and the individual delivery modules and their contents are finalised. The programs are delivered to the students during their course of study at the undergraduate level typically beginning from the later half of their II year and ending in the first half of their final year of study. By the time they complete their B.Tech program, they also receive certification of completion of these industry-oriented training modules. Evidence of Success • Increased student employability as reflected in improved placements • Increased competency and resulting enhanced delivery from faculty in their teaching learning • Increased RD capacity resulting in significant improvement in research proposals • Substantial growth in Industry- Institution collaboration

As a result: The college is implementing 8 such add-on programs which are given below: 1. Oracle Certified Java Programmer (OCJP): - This is certified by Oracle Corporation. Over 100 students from the Computer Science and Engineering department have the prestigious OCP certification 2. Creo-2.0:- This is certified by Parametric Technology Corporation. The course was started in 2009 and till date, 160 students have completed the course. Of these, 41 students were placed in various MNCs on the strength of their certification training 3. NI LabVIEW:- NI LabVIEW Academy has been set up in the college by National Instruments Corporation for training on design and deployment of systems for embedded design applications 4 Process Equipment Design-SIMTECH 5 Technology Learning Center-VLSI-WIPRO Technologies 6 SIEMENS -AC Drives 7 New Down Automation-PLCs 8 Think Labs-Embedded Systems These and few other such add-on programs currently being administered in the college have given a big edge to the students in enhancing their employability. Many of these students easily get placed on the strength of their skill enhancement. Problems Encountered and Resources Required When applied practically, a few gaps exist between the proposed methodology and practical implementation. This is mainly because of the financial constraints as each department is given budgetary allocations exclusively to meet costs of academic services which are curricular in nature.

Hence the need for procurement of auxiliary infrastructure to meet the industrial skill needs to be carefully planned and administered properly. To avoid this, measures are taken to anticipate the requirements so that resources can be not only well maintained but also managed to enhance the purpose of skill development. Apart from this, faculty have to be properly trained to justify the objective of the value added program by being flexible to the changes in the current trend. Should there be lack of pace with the contemporary versions of the technology, an aggregate overview of the package is lost. Faculty with aptitude in the program are therefore sent for training at the respective organizations in advance to be able to handle the training programs.

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

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

<https://www.mvgrce.com/sites/default/files/NAAC/Others/BP/BestPractices2019-20.>

7.3 – Institutional Distinctiveness

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

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

Provide the weblink of the institution

<https://www.mvgrce.com/sites/default/files/NAAC/Others/ID/InstitutionalDistinctiveness-2019-20.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