



Yearly Status Report - 2019-2020

Part A

Data of the Institution

1. Name of the Institution		MVJ COLLEGE OF ENGINEERING
Name of the head of the Institution		Dr P Mahabaleswarappa
Designation		Principal
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		080-42991002
Mobile no.		7899397735
Registered Email		principalengg@mvjce.edu.in
Alternate Email		viceprincipal@mvjce.edu.in
Address		Near ITPB, Channasandra, Whitefield, Bangalore
City/Town		Bangalore
State/UT		Karnataka
Pincode		560067

2. Institutional Status					
Autonomous Status (Provide date of Conformant of Autonomous Status)		24-Jun-2019			
Type of Institution		Co-education			
Location		Urban			
Financial Status		Self financed			
Name of the IQAC co-ordinator/Director		Dr.M. Brindha			
Phone no/Alternate Phone no.		08042991005			
Mobile no.		9632773981			
Registered Email		viceprincipal@mvjce.edu.in			
Alternate Email		iqac@mvjce.edu.in			
3. Website Address					
Web-link of the AQAR: (Previous Academic Year)		https://www.mvjce.edu.in/wp-content/uploads/2020/10/AOAR-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.mvjce.edu.in/academic-calendar/			
5. Accrediation Details					
Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	B++	3.00	2018	01-Nov-2018	31-Oct-2022
6. Date of Establishment of IQAC			01-Dec-2012		
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	

Skill development programme on Finite Element Analysis using ANSYS	24-Feb-2020 6	20
A talk on Contribution of Engineers for the Sustainable Development of the Country	04-Mar-2020 1	200
Webinar on Autonomous Vehicle Lanes for a Seamless Transition to Future Mobility	09-Jul-2020 1	155
Guest Lecture on The Study on the Sun	25-Oct-2019 1	110
Faculty Development Programme on Application of Remote Sensing (RS) and GIS in Civil Engineering	19-Dec-2019 3	100
A Guest Lecture on Advanced Wastewater Treatment	23-Nov-2019 1	115
A Guest Lecture on Smart and Sustainable Cities in India- The Infrastructure Requirements	08-Nov-2019 1	170
A Guest Lecture on Remote Sensing, GIS and DEM for Water Resources Assessment	21-Sep-2019 1	166
A Guest Lecture on Pitfalls in Soil Investigations and the Consequential Failures of Structures	31-Aug-2019 1	167
View File		

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
Aeronautical Engineering	R and D Project	ARDB-DRDO	2019 730	898700
Aeronautical Engineering	MODROB	AICTE	2020 730	1172550
Aerospace Engineering	R and D Project	ARDB-DRDO	2019 730	857000
Chemical Engineering	R and D Project	KSCST	2020 180	4500

Civil Engineering	R and D Project	KSCST	2020 180	5000
Computer Science Engineering	R and D Project	KSCST	2020 180	4500
Electronics and Communication Engineering	R and D Project	KSCST	2020 180	5000
Electronics and Communication Engineering	MODROB	AICTE	2019 360	1050000
Electronics and Communication Engineering	Conference	AICTE	2019 2	340000
Electronics and Communication Engineering	Workshop	VTU	2019 5	300000
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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 :	2
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)	
<ul style="list-style-type: none"> • Conduction of one Workshop on Readying Students for Industry 4.0 on 24th August 2019 • Training faculty on Teaching Learning Process and Teaching Pedagogy • Increase R D Proposals to enhance funding from funding agencies/R D Organizations • Plan to Introduce new courses in Thrust areas, B.E. in Data Science, B.E. in AI ML • Motivate Students to do many Innovative Projects 	
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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	Achievements/Outcomes				
Increase R and D funding	yes				
View File					
14. Whether AQAR was placed before statutory body ?	Yes				
<table border="1"> <thead> <tr> <th>Name of Statutory Body</th> <th>Meeting Date</th> </tr> </thead> <tbody> <tr> <td>Governing Body</td> <td>10-Oct-2020</td> </tr> </tbody> </table>		Name of Statutory Body	Meeting Date	Governing Body	10-Oct-2020
Name of Statutory Body	Meeting Date				
Governing Body	10-Oct-2020				
15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	Yes				
Date of Visit	20-Dec-2019				
16. Whether institutional data submitted to AISHE:	Yes				
Year of Submission	2020				
Date of Submission	29-Jan-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)	Institution has a Management Information System. The modules currently in operation include the admission application management system, the student on boarding and information system, Learning Management System among others, Academic activities of students and faculty members, students' attendance, Time table, Assignments, Examinations, staff attendance, Staff Leave Management, Various feedback reports, Alumni Engagement, student's Training and Placement of student. Library Management, Inventory Management and Transportation i.e, College bus facilities are also managed through this.				

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
BE	AE	AERONAUTICAL ENGINEERING	29/07/2019
BE	AS	AEROSPACE ENGINEERING	29/07/2019
BE	CH	CHEMICAL ENGINEERING	29/07/2019
BE	CV	CIVIL ENGINEERING	29/07/2019
BE	CS	COMPUTER SCIENCE AND ENGINEERING	29/07/2019
BE	EC	ELECTRONICS AND COMMUNICATION ENGINEERING	29/07/2019
BE	EE	ELECTRICAL AND ELECTRONICS ENGINEERING	29/07/2019
BE	IS	INFORMATION SCIENCE AND ENGINEERING	29/07/2019
BE	ME	MECHANICAL ENGINEERING	29/07/2019
BE	ML	MEDICAL ELECTRONICS ENGINEERING	29/07/2019
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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
BE	AERONAUTICAL ENGINEERING	29/07/2019	17AE51- MANAGEMENT AND ENTREPRENEURSHI P (53 Courses)	29/07/2019
BE	AEROSPACE ENGINEERING	29/07/2019	18AS32- AERO THERMODYNAMICS(18 Courses)	29/07/2019
BE	CHEMICAL ENGINEERING	29/07/2019	17CH51-PROCESS INDUSTRY MANAGEMENT(49 Courses)	29/07/2019
BE	COMPUTER SCIENCE AND ENGINEERING	29/07/2019	17CS51-MANAGE MENT AND ENTREP RENEURSHIP FOR IT INDUSTRY (48 Courses)	29/07/2019
BE	CIVIL ENGINEERING	29/07/2019	17CV61 -CONSTRUCTION	29/07/2019

			MANAGEMENT AND ENTREPRENEURSHIP (48 Courses)	
BE	ELECTRONICS AND COMMUNICATION ENGINEERING	29/07/2019	17ES51-MANAGEMENT ENTREPRENEURSHIP DEVELOPMENT (55 Courses)	29/07/2019
BE	ELECTRICAL AND ELECTRONICS ENGINEERING	29/07/2019	17EE51-MANAGEMENT AND ENTREPRENEURSHIP(52 Courses)	29/07/2019
BE	INFORMATION SCIENCE AND ENGINEERING	29/07/2019	17CS51-MANAGEMENT AND ENTREPRENEURSHIP FOR IT INDUSTRY (48 Courses)	29/07/2019
BE	MECHANICAL ENGINEERING	29/07/2019	17ME51-ENGINEERING MANAGEMENT AND ECONOMICS(51 Courses)	29/07/2019
BE	MEDICAL ELECTRONICS ENGINEERING	29/07/2019	17ES51-MANAGEMENT & ENTREPRENEURSHIP DEVELOPMENT (30Courses)	29/07/2019
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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
BE	BE-AE,AS,CH,CV,CS,EC,EE,IS,ME(FIRST YEAR-16 Courses)	01/08/2019
BE	AERONAUTICAL ENGINEERING(18 Courses)	29/07/2019
BE	AEROSPACE ENGINEERING(18 Courses)	29/07/2019
BE	CHEMICAL ENGINEERING(18 Courses)	29/07/2019
BE	CIVIL ENGINEERING(18 Courses)	29/07/2019
BE	COMPUTER SCIENCE AND ENGINEERING(18 Courses)	29/07/2019
BE	ELECTRONICS AND COMMUNICATION ENGINEERING(18 Courses)	29/07/2019
BE	ELECTRICAL AND ELECTRONICS ENGINEERING(8 Courses)	29/07/2019

BE	INFORMATION SCIENCE AND ENGINEERING(18 Courses)	29/07/2019
BE	MECHANICAL ENGINEERING(1 Course)	29/07/2019
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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
BE	AERONAUTICAL ENGINEERING	29/07/2019
BE	AEROSPACE ENGINEERING	29/07/2019
BE	CHEMICAL ENGINEERING	29/07/2019
BE	CIVIL ENGINEERING	29/07/2019
BE	COMPUTER SCIENCE AND ENGINEERING	29/07/2019
BE	ELECTRONICS AND COMMUNICATION ENGINEERING	29/07/2019
BE	ELECTRICAL AND ELECTRONICS ENGINEERING	29/07/2019
BE	INFORMATION SCIENCE AND ENGINEERING	29/07/2019
BE	MECHANICAL ENGINEERING	29/07/2019
BE	MEDICAL ELECTRONICS ENGINEERING	29/07/2019
Mtech	AERONAUTICAL ENGINEERING	26/08/2019
Mtech	COMPUTER SCIENCE AND ENGINEERING	26/08/2019
Mtech	DIGITAL ELECTRONICS AND COMMUNICATION ENGINEERING	26/08/2019
Mtech	STRUCTURAL ENGINEERING	26/08/2019
Mtech	TRANSPORTATION ENGINEERING	26/08/2019
MBA	MASTER OF BUSINESS ADMINISTRATION	08/08/2019

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
Certification course on SCILAB by IIT-B Spoken Tutorial	29/07/2019	250
Certification course on LATEX by IIT-B Spoken Tutorial	29/07/2019	139

Certification course on OPEN FOAM by IIT-B Spoken Tutorial	29/07/2019	134
Certification course on QCAD by IIT-B Spoken Tutorial	29/07/2019	186
Certification course on C by IIT-B Spoken Tutorial	29/07/2019	388
Certification course on CPP by IIT-B Spoken Tutorial	29/07/2019	236
Certification course on PHP and MYSQL by IIT-B Spoken Tutorial	29/07/2019	220
Certification course on BIO PYTHON by IIT-B Spoken Tutorial	29/07/2019	14
Certification course on LIBRE OFFICE TOOLS by IIT-B Spoken Tutorial	29/07/2019	34
Certification course on BLENDER by IIT-B Spoken Tutorial	29/07/2019	51
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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
BE	AERONAUTICAL ENGINEERING	185
BE	AEROSPACE ENGINEERING	51
BE	CHEMICAL ENGINEERING	83
BE	CIVIL ENGINEERING	251
BE	COMPUTER SCIENCE AND ENGINEERING	631
BE	ELECTRONICS AND COMMUNICATION ENGINEERING	364
BE	ELECTRICAL AND ELECTRONICS ENGINEERING	89
BE	INFORMATION SCIENCE AND ENGINEERING	144
BE	MECHANICAL ENGINEERING	187
BE	MEDICAL ELECTRONICS ENGINEERING	19
View File		

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

The IQAC has been following a systematic approach to collect and analyze feedback from students and other stakeholders on all the aspects of overall development of the institution such as, teaching learning process, infrastructure, facilities, faculty etc., at regular intervals. The suggestions received are analyzed and incorporated for improving the teaching and learning process, facilities, etc., Student feedback regarding the curriculum are taken to assess their opinion on the teaching standards, adequacy of academic infrastructure and updating the employability skills. Class committee meeting were conducted where student representatives discuss their issues with the faculty members and one to one student discussions with HoD and Principal are carried out for understanding the academic and non-academic issues of students. Remedial actions are initiated immediately based on the merits of the issue. The academic programs are designed in alignment with the vision and mission of the Institution, duly incorporating the suggestions and recommendations received from the stake holders. Apart from obtaining and incorporating the suggestions and recommendations from the stakeholders on a continuous basis, the formalized interactions taking place in the Board of Studies, Academic Council and Governing Body meetings also pave a way for updating the curriculum, syllabi and pedagogy. The Board of Studies and Academic Council have representatives from the industry and alumni, apart from academic experts. These forums provide ample opportunities for effective deliberations in designing the academic programme and in updating the curriculum and the syllabi. Feedback from recruiters is obtained at the end of their recruitment process. This is used for improving the employability skills of the students. Feedback from faculty is used to improve the academic activities, Research and Development activities, curriculum and Teaching-Learning process. The modifications that have been incorporated consequent to the feedback from the stakeholders are highlighted: In our Autonomous curriculum for each module a practical laboratory session is made mandatory which improves the practical learning exposure of the student. Value added courses have been identified and students are encouraged to pursue such courses on contemporary/emerging areas.

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	Master of Business Administration	60	119	48
BE	Information Science Engineering	120	213	112
BE	Electronics &	180	348	150

	Communication Engineering			
BE	Computer Science & Engineering	240	482	243
BE	Chemical Engineering	60	117	28
BE	Aerospace Engineering	60	110	47
BE	Aeronautical Engineering	120	221	109
BE	Civil Engineering	120	242	55
BE	Electrical & Electronics Engineering	60	116	41
BE	Mechanical Engineering	180	332	84

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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	3472	160	191	8	35

2.3 – Teaching - Learning Process

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

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
234	234	46	109	5	22

[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)

Yes. An in house fulltime student counsellor is available in the campus. Mentoring system has been streamlined and outcome-based through the effective analysis by IQAC over the number of years. All the faculties are assigned with 18 to 20 students. Each Mentor is given with the file that facilitates the process of mentoring system by collecting all the information about the students like personal details, academic profile, record of monthly participation in co-curricular and extra-curricular activities, achievements, Marks of all the semesters, record of parent-teacher Meetings, details of every week student counselling session. This Mentor file is updated by the mentors every week. There is a section-wise result entry book for all the semesters, Mentors will update the book at the end of each semester with the university result of the students, where the complete student detail is available from their I semester to VIII semester. The Continuous Internal Assessment Marks and the semester end results are immediately conveyed to the parents through post/mail/SMS/phone. Mentor conduct parent's

meetings after each Internal Assessment Test to discuss about their wards' progress, status of attendance and other details related academic, cocurricular and extra-curricular activities. Mentor maintains a file which help them to know about their student's academics, cocurricular and extracurricular activities. The mentor also plays a vital role to encourage the students to participate in various technical/ cultural events and sport competitions conducted by various colleges and organizations. The mentors of third year and final year classes also act as a link to encourage students to participate in the placement training. The mentors have interaction with their IV year students to know the status of their projects status also checks with their project guide about their involvement in the development. Mentors provide a clear guidance for their career by analyzing their interest over the field. A mentoring session is allotted in the timetable to interact with their students about the subjects, academics, Placement, training, competitions, etc., Students are encouraged to give their suggestions and feedback. which will be carried forward to Head of the Department for further actions. Personal counselling is also provided by the mentor for the required students.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
3632	234	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	Nil	Nil	57

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
2020	Prof. K.Muruges	Assistant Professor	Project proposal approved for sponsorship(43rd series of students Project Programme-2 019-20,KSCST)
2019	Dr. S K Manju Bharghavi	Associate Professor	Teacher Innovation Award
2019	Dr. J T Thirukrishna	Associate Professor	Global Teacher Award
2019	Prof.Naeem Ahmed	Assistant Professor	MVJ Recognition for Innovative Project
2019	Prof. Mohammed Yousuf	Assistant Professor	KSCST Sponsorship
2019	Dr. I Hameem Shanavas	Associate Professor	Financial Assistance for UG project,VTU
2019	Prof. Supriya K V	Assistant Professor	Financial Assistance for UG project,VTU
2020	Prof. S C Gupta	Professor	MVJ Recognition for Publishing Research Paper

2020	Dr.Vijaya Kumar R	Assistant Professor	Award of PhD, VTU Belagavi
2020	Prof. Chaitra D	Assistant Professor	KSCST Sponsorship
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2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
MBA	MBA	III	30/12/2019	09/03/2020
Mtech	All Programs	IV	24/08/2020	24/09/2020
Mtech	All Programs	III	08/01/2020	25/04/2020
BE	All Programs	VIII	27/08/2020	01/10/2020
BE	All Programs	VII	01/01/2020	26/02/2020
BE	All Programs	III	09/01/2020	22/03/2020
BE	All Programs	I	23/12/2019	19/02/2020
BE	All Programs	V	06/01/2020	05/03/2020
Mtech	All Programs	I	17/02/2020	11/05/2020
MBA	MBA	I	19/02/2020	11/05/2020
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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 about evaluation	Total number of students appeared in the examination	Percentage
Nil	Nil	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.mvjce.edu.in/electronics-communication-engineering/>

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
MBA	MBA	Master of Business Administration	41	40	98
ME	BE	Mechanical Engineering	150	150	100
ML	BE	Medical Electronics	19	19	100

CV	BE	Civil Engineering	75	61	81
CS	BE	Computer Science & Engineering	234	221	94
CH	BE	Chemical Engineering	43	43	100
AE	BE	Aeronautical Engineering	97	83	86
EC	BE	Electronics & Communication Engineering	135	131	97
EE	BE	Electrical & Electronics Engineering	45	45	100
IS	BE	Information Science & Engineering	45	43	96
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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.mvjce.edu.in/internal-quality-assurance-cell-igac/>

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Promotion of Research and Facilities

3.1.1 – The institution provides seed money to its teachers for research

Yes
Name of the teacher getting seed money
Prof.S C Gupta
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3.1.2 – Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
National	Dr. S K Manju Bhargavi	Teacher Innovation Award	30/09/2019	Zero Investment Innovations for

				Education Initiatives
National	Dr. J. T Thirukrishna	Global Teacher Award	15/09/2019	AKS Education Award
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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	730	AICTE -MODROB	1100000	1100000
Minor Projects	122	VTU	5000	5000
Major Projects	165	AICTE	1050000	1050000
Minor Projects	183	KSCST	5000	5000
Minor Projects	183	KSCST	4500	4500
Minor Projects	183	KSCST	5000	5000
Minor Projects	183	KSCST	4500	4500
Major Projects	730	AICTE-MODROB	1137255	1137255
Major Projects	730	ARDB-DRDO	898750	898750
Major Projects	730	ARDB-DRDO	857000	824500
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3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

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3.3 – Innovation Ecosystem

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

Title of workshop/seminar	Name of the Dept.	Date
Webinar on Autonomous Vehicle Lanes for a Seamless Transition to Future Mobility	Civil Engineering	09/07/2020
A talk on 'Contribution of Engineers for the Sustainable Development of the Country'	Civil Engineering	04/03/2020
Skill development	Civil Engineering	24/02/2020

programme on Finite Element Analysis using ANSYS		
Faculty Development Programme on 'Application of Remote Sensing (RS) and GIS in Civil Engineering', on 19th, 20th and 21st December, 2019	Civil Engineering Civil Engineering Civil Engineering	19/12/2019
A Guest Lecture on 'Advanced Wastewater Treatment'	Civil Engineering	23/11/2019
A Guest Lecture on Smart and Sustainable Cities in India- The Infrastructure Requirements	Civil Engineering	08/11/2019
A Guest Lecture on Remote Sensing, GIS and DEM for Water Resources Assessment	Civil Engineering	21/09/2019
A Guest Lecture on Pitfalls in Soil Investigations and the Consequential Failures of Structures	Civil Engineering	21/08/2019
A Seminar on 'BITCOIN -Virtual Money'	Computer Science Engineering Computer Science Engineering	10/02/2020
Five-Day FDP on 'Recent Trends in Blockchain Technology	Computer Science Engineering	31/01/2020
Guest Lecture on 'Recent Trends in Information Technology'	Computer Science Engineering	16/11/2019
A Guest Lecture on 'Challenges in Natural Language Processing (NLP)'	Computer Science Engineering	19/10/2019
Guest Lecture on 'Manufacturing and Internet of Things'	Computer Science Engineering	26/09/2019
A Guest Lecture on 'Towards the Internet of Things, Architecture, Security and Applications'	Computer Science Engineering	21/09/2019
A Guest Lecture on "Enterprise Computing and the Opportunities in Industry"	Computer Science Engineering	07/09/2019

Workshop on 'Techniques to Implement Technology in Education'	Computer Science Engineering	03/08/2019
Webinar on Little drops makes mighty oceans: Collective intelligence	Computer Science Engineering	29/06/2020
Guest Lecture on Photonics Implementation	Electronics and Communication Engineering	01/10/2019
Workshop on IOT using Node-MCU	Electronics and Communication Engineering	14/11/2019
Pre-conference Workshop of the 4th International Conference on 'Design Innovations for 3Cs: Compute - Communicate - Control'	Electronics and Communication Engineering	27/02/2020
FDP ON "Graphical Programming Real Time System Design" Report	Electronics and Communication Engineering	08/07/2019
Training on Robotic Basics for Robo Kabbadi	Electronics and Communication Engineering	17/02/2020
Hands-on Training on 3D printing and PCB Design	Electronics and Communication Engineering	29/08/2019
Training on Robotics and Industrial Automation	Electronics and Communication Engineering	20/09/2019
Workshop on 'Machine Learning through Data Science and Python	Electronics and Communication Engineering	04/11/2019
Webinar on "Internet of Things for Covid-19	Electronics and Communication Engineering	30/05/2020
Guest Lecture on 'Radar and Signal Processing	Electronics and Communication Engineering	31/08/2019
Guest Lecture on 'Data Science Analysis'	Information Science Engineering	10/08/2019
Workshop on Data Mining using Modern Tools Techniques	Information Science Engineering	20/09/2019
Webinar on 'Evolution of Bigdata'	Information Science Engineering	27/06/2020
Seminar on Forging Technology 2020	Mechanical Engineering	29/02/2020
Advances in Experimental Structural Dynamics of Aerospace Products	Mechanical Engineering	07/09/2019
TCS Academic Interface Programme on Importance of CAD/CAE in Product Life Cycle Management	Mechanical Engineering	19/10/2019
Smart Connected World	Mechanical Engineering	04/03/2020

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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
FOURTH PURGE	Pavan A	C II - Yi YuStart -up idea and concept	28/08/2019	I st place and Cash Reward 25000/-
FOURTH PURGE	Pavan A	Jyothi Institute of Technology- Atal Incubation Center	12/12/2019	Certificate of Appreciation
FPV Drone Race - Drone Delivery Challenge	Koushik Udayachandran	Nitte Meenakshi Institute of Technology, Bangalore	03/05/2020	1 st place
Minitreatment apparatus	Suhas G Puranik, V Dhivakhar, Keerthi M S	NSRCEL, IIM Bangalore	15/12/2019	Reimagine waste Hackathon: Biomedical waste
Marine Litter Tracking System	Ajay Guttedar, Borad Dhaval	Shaastra technology policy competition, IIT Madras	04/01/2020	Waste management
bBook	Rohit Natesh,Ruchitha D J	Institutions Innovation Council, MHRD Innovation Cell, New Delhi	09/09/2019	Presented the student project in the two day Boot Camp
RC controlled Robot	Nishanth Shastry	Gopalan College Of Engineering	14/11/2019	Robo Soccer
RC Race Bot	Nishanth Shastry	CMR Institute Of Technology	06/03/2020	RC Robot Race

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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
Incubation Center for 3D-Printer	Building of 3-D Printer	MVJCE	Minimalists Asthetics	3-D Printer- Rapid Prototyping / Individual	20/07/2019

[View File](#)

3.4 – Research Publications and Awards

3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
Computer Science Engineering	2
Electronics and Communication Engineering	1
Electrical and Electronics Engineering	1
Information Science Engineering	1
Mechanical Engineering	3
Chemistry	1
Aeronautical Engineering	1
Chemical Engineering	2
Civil Engineering	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	aeronautical Engineering ¹³	11	2.5
International	Aerospace Engineering	3	2.1
International	Chemical Engineering	7	Nil
International	Computer Science Engineering	10	1.7
International	Electronics and Communication Engineering	51	1
International	Electrical and Electronics Engineering	3	1
International	Information Science Engineering	9	0
International	Mechanical Engineering	8	0.5
International	Physics	2	2.01
International	Chemistry	2	2.07
View File			

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
Electrical and Electronics Engineering	4
Electronics and Communication Engineering	1

Computer Science Engineering	1
Chemical Engineering	15
Aeronautical Engineering	2
View File	

3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
SMART COACH FOR RACKET SPORTS	Filed	201941027541	19/07/2019
A Smart and efficient cloud storage using parallelism	Filed	201941027818	23/07/2019
System and method for reducing the antenna radiation of a portable electronic devices	Filed	20194104625	03/01/2020
A Kernel oriented modelling system to optimize the convergence performance in Big data analytics	Filed	202041010279	13/03/2020
Voting System by Using AADHAAR Based EVM Voting for General Electing	Published	202041000803A	17/01/2020
Self-Power - Driven Shoes to Assist Visually Disabled People	Filed	201941028426	15/07/2019
Boco-Aid - Bone Conduction Hearing Aid	Filed	201941033470	20/08/2019
A smart algorithm for source allocation and self management of wireless IOT gateway	Published	202021004742	04/02/2020
Deep Root Irrigation System Using Ceramic Sucking Candle/PVC or UPVC/Polyethylene Terephthalate Bottle of Pipe with Pores Filled with Indecomposable	Published	201941023461A	05/06/2020

Fiber materials for
Tree or Plants.

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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
Bi-Crypto: An Efficient System with Enhanced Security	R Moheemmed Yousuf	International Journal of Recent Technology and Engineering	2019	0	MVJ College of Engineering	Nil
Process Optimization Using Response Surface Methodology for the Removal of Thorium from Aqueous Solutions using Rice-Husk	Dr Sayanasri Varala	Chemosphere	2019	7	MVJ College of Engineering	7
Predicting the 2 dimensional airfoil by using machine learning methods	K Thinakaran, R Rajasekar, K Santhi and M Nalini	Advances in Computational Design	2020	0	MVJ College of Engineering	Nil
Assessment of Hypothetical Correlation between the Various Critical Factors for Lean Systems in Automobile Industries	P Arunagiri and P Suresh	Materials Today: Proceedings	2020	1	MVJ College of Engineering	1
	Psuresh	Internat	2020	11	MVJ	11

Evaluation of Physical and Mechanical Properties of Glass Fiber Reinforced Polyester Resin	and R Naveen Nayaka	ional Journal of Scientific Technology Research			College of Engineering	
Experimental Analysis of Aluminum Alloy LM25 with Carbon in Composite Material	P Suresh and P Arunagiri	Materials Today: Proceedings	2019	2	MVJ College of Engineering	2
Parametric Investigation on a transonic axial compressor stage using CFD techniques	M Ayesha Khan, P Arunagiri, G Antony Samuel Prabu	Materials Today: Proceedings	2020	0	MVJ College of Engineering	Nil
Influence of Nanoparticles on Thermal, Mechanical And 3D Analysis of Hybrid Bamboo/Glass Fibre-Reinforced Polymer Composites	D Bino Prince Raja, S C Vettivel, G Antony Samuel Prabu	Transactions of the Indian Institute of Metals	2020	0	MVJ College of Engineering	Nil
Predicting the 2 dimensional airfoil by using machine learning methods	K Thinakaran, R Rajasekar, K Santhi and M Nalini	Advances in Computational Design	2020	0	MVJ College of Engineering	Nil
High-Temperature	Tamilselvam	Silicon	2020	1	MVJ College of	1

Stability of Titanium Boride Reinforced Alumina Silicon Carbide Based Composite	Nallusamy				Engineering
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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
Personalized Content Extraction and Text Classification Using effective Web Scraping Techniques	Dr Vinoth Kumar, Ranjith and Balajee	International Journal of Web Portals	2019	13	61	MVJ College of Engineering
Application of Neural Network and Lifting Wavelet Transform for Long Term Solar Radiation Power Prediction	Manju Khanna, N K Srinath and J K Mendiratta	Advances in Cybernetics, Cogitation and Machine Learning for Communication technologies, Lecture Notes in Electrical engineering	2020	3	Nil	MVJ College of Engineering
Detection and Classification of Tumors Using Medical Imaging Techniques: A Survey	Sheetal Garg and S R Bhagya Lakshmi	Lecturer notes on Data Engineering and communication technologies	2020	1	1	MVJ College of Engineering
Predicting the 2 Dimensional	K Thinakaran, R Rajasekar, K Santhi	Advances in Computational Design	2020	3	Nil	MVJ College of Engineering

Airfoil by using Machine Learning Methods	and M Nalini					
Assessment of Hypothetical Correlation between the Various Critical Factors for Lean Systems in Automobile Industries	P Arunagiri and P Suresh	Materials Today: Proceedings	2020	5	1	MVJ College of Engineering
Experimental Analysis of Aluminum Alloy LM25 with Carbon in Composite Material	P Suresh and P Arunagiri	Materials Today: Proceedings	2020	7	2	MVJ College of Engineering
Parametric Investigation on a transonic axial compressor stage using CFD techniques	M Ayesha Khan, P Arunagiri, G Antony Samuel Prabu	Materials Today: Proceedings	2020	7	Nil	MVJ College of Engineering
Influence of Nanoparticles on Thermal, Mechanical And 3D Analysis of Hybrid Bamboo/Glass Fibre-Reinforced Polymer Composites	D Bino Prince Raja, S C Vettivel, G Antony Samuel Prabu	Transactions of the Indian Institute of Metals	2020	Nil	Nil	MVJ College of Engineering
Moisture Absorption and Biodeg	M Francis Luther	Waffen-Und Kostum kunde	2020	6	Nil	MVJ College of Engineering

radation of Poly Lactic Acid	King, G Robert singh, L John Baruch and V Srinivasan	Journal				g
High-Temperature Stability of Titanium Boride Reinforced AluminaSilicon Carbide Based Composite	Tamilselvam Nallusamy,	Silicon	2020	1	1	MVJ College of Engineering
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	24	283	92	125
Presented papers	4	16	Nil	3
Resource persons	Nil	Nil	Nil	7
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)
Civil Engineering	Cube Testing	Pavithra Projects, 9880508983, satvika niramannm@yahoo.co. in	11400
Civil Engineering	Cube Testing	Dwarakamai Builders Developers Pvt., Ltd., 7259989898, sales@ warakamaihousing.co m	15300
Civil Engineering	Cube Testing	Capric Contractors Pvt., Ltd., 9810977796, i nfo@capriccontracts .in	7650
Civil Engineering	WWM	M/s. Bharat Petroleum	3000

		Corporation Ltd., 8027945741	
Civil Engineering	Fine Aggregate, Bricks, Cube Testing	M/s. Bharat Petroleum Corporation Ltd., 8027945741	9150
Civil Engineering	Paver Blocks Testing	M/s. Silicon Concrete Blocks, 9845663530, silicon concreteblocks@gmai l.com	1200
Civil Engineering	Cube Testing	M/s. Vijay Builders Enterprises, 9845042753, vijay.b uilders@rediffmail. com	1800
Civil Engineering	GSB, WMM, Cube Testing	Yashwanth Constructions, 9945315566, yashwan th.constructions@gm ail.com	10500
Civil Engineering	Paver Blocks	Krishnaiah Projects Pvt., Ltd., 9443434633	1200
Civil Engineering	Solid Blocks Testing	Sri Sai Cement Products, 9986384727	2400
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 activities	Number of students participated in such activities
Grocery Item Distribution	NSS Unit, MVJCE, Bangalore0	Nil	26
Women's Day Celebration	Women Empowerment Cell , MVJCE, Bangalore	100	250
Session for inculcating the patriotism in the future citizens	Department of Basic Sciences	35	450

Teaching corporate speaking, writing body language and etiquette to students from class 8-10 in Rural Bijapur.	Loyola School, Jadar Galli, Vijayapura, Bangalore - 586104	2	1
Developing and managing efficient garbage disposal system	govt. high school, kolar	1	1
Helping local Schools to Achieve good results and Enhance their enrolment in Higher /Technical/Vocational Education	Government Lower Primary School , Kurandahalli , Malur (taluk) , Kolar (district)	2	1
Creating awareness about sustainable water management among school children	NSS Unit, MVJCE, Bangalore	1	60
NSS Activity on "Visit to Govt. School and teaching English grammar, Maths and Moral Values"	NSS Unit, MVJCE, Bangalore	1	40
Drug Awareness Program	NSS Unit, MVJCE, Bangalore	50	1500
Plantation of saplings and guiding the students on Environmental Conservation	NSS Unit, MVJCE, Bangalore	1	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
Facilitating under skill economic, social and women contribution	Certificate of Participation	VISION INDIA ABAYASHRAM - Rehabilitation Centre	1
Helping local school to achieve good result and enhancing their enrolment in higher	Certificate of Participation	Government high school. Nargund	1

education			
Helping local School to achieve good result and enhancing their enrollment in higher education	Certificate of Participation	Government high school. Nargund	1
To helping the local schools to achieve good results and enhancing their enrolment in higher and technical education	Certificate of Participation	Shree Morarji Desai Model Residential School, Thumbakere, Mandya taluk and district.	1
Prepare and implement a plan to improve health parameters of villagers	Certificate of Participation	Government higher primary school yenkura, bhalki, bidar	1
Helping local school children enhance their knowledge and skills.	Certificate of Participation	Government Lower Primary School, Sompura	1
Interacting with local students about advancement in technology and their carrier support.	Certificate of Participation	Government higher secondary for boys school Poonch, JammuKashmir.	1
Guiding local students on resources and its conservation	Certificate of Participation	Government higher primary school pena male,yellamaplli claster, bagepalli (tq), Chikkaballapur district	1
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
Distributing food and safety measures to help fight spread of COVID-19	NSS Unit, MVJCE, Bangalore	Grocery Item Distribution food and safety measures to help fight spread of COVID-19 Unit, MVJCE, Bangalore	Nil	26

Imparting knowledge to local school children	NSS Unit, MVJCE, Bangalore	NSS Activity on "Visit to Govt. School and teaching English grammar, Maths and Moral Values"	1	40
Drug Awareness Program	NSS Unit, MVJCE, Bangalore	Drug Awareness Program	50	1500
AICTE ACTIVITY	Government higher primary School ,janata colony,dommasandra	The project related to helping the local students to achieve good results and personality development	2	4
AICTE ACTIVITY	Abayashram, Kattannalur ,Virgonagar Post, Bangalore - 560049	Interaction with residents of Old aged rehabilitation Home.	2	1
AICTE ACTIVITY	Govt primary school Venkatapura	Plantation in school	2	1
AICTE ACTIVITY	VISION INDIA ABAYASHRAM - Rehabilitation Centre	Facilitating under skill economic, social and women contribution	2	10
Environmental Conservation	NSS Unit, MVJCE, Bangalore	Plantation of saplings and guiding the students on Environmental Conservation	1	50
Women Empowerment	Women Empowerment Cell , MVJCE, Bangalore	Essay writing competition on " International trends in women's empowerment"	10	75
Women Empowerment	Women Empowerment Cell , MVJCE, Bangalore	Women's Day Celebration	100	250
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3.7 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
INTENSHIP	Aakash Mahajan	SELF	24
INTENSHIP	Aayush Tiwari	SELF	28
INTENSHIP	Abhishek P	SELF	30
INTENSHIP	Afshin Segu Ameer	SELF	30
INTENSHIP	Ajay Bhaskar	SELF	30
INTENSHIP	Akarsh Kumar	TRELLISOFT	180
INTERNSHIP	G P Kavya	Infosys	60
INTERNSHIP	Hitesh Agarwal	Zapcom Solutions Pvt Ltd	60
INTERNSHIP	Lavanya S	Micro Focus	180
INTERNSHIP	Ratheesh	DeltaX	90
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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
INTENSHIP	Industrial Training at HAL - Helicopter Division	Mr. A Francis Justin (HR) Manager , Helicopter-MRO Division , HAL , Bengaluru 560017	07/08/2019	14/08/2019	Akhil Patil
INTENSHIP	ALH - Final Assembly	Mr. Devanand HAL - Helicopter Divison	18/01/2020	10/02/2020	B Sujith Kumar Reddy
INTENSHIP	Aryan Drone, Bangalore	Sanjay G, Aryan drones., #649, 6th main road Vijayanagara, Bengaluru 560040	01/01/2020	31/01/2020	Basavaraj Bannihalli
INTENSHIP	HAL(Helicopter Division)	HINDUSTAN AERONAUTICS LIMITED(HAL) HELICOPTER DIVISION BENGALURU, KARNATAKA	23/07/2019	20/08/2019	Basavaraja U

INTENSHIP	Technical Study and Time Observation on PDU	Collins aerospace , hoodi junction , Whitefield -560067	24/02/2020	24/03/2020	Deekshitha V
INTENSHIP	Structural design of F-16 Falcon on CATIA	Mr. Satish Hiremath AERODESIGN SOLUTIONS PVT LTD #69, 1st floor,5th cross, Ramanjaneya layout, Marathahalli, Banglore , Karnatak 560037, CIN :U74999KA2016PTC092492	01/06/2020	20/06/2020	Dhanraj
INTENSHIP	Helicopter MRO Division	Mr. A Francis Justin Helicopter-MRO division, HAL, Bengaluru - 560017	15/07/2019	14/08/2019	Hema
INTENSHIP	HAL, Aerospace Composite Division, Bangalore	HAL, Aerospace Composite Division, Bangalore	06/07/2019	03/08/2019	Nachappa C U
INTENSHIP	Internship Training	FACT Ltd., Udyogamandal Complex, Emakulam, Kerala 683501	05/07/2019	18/07/2019	Abdulla Murshid B M

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

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
Infosys Ltd	22/01/2019	InfyTQ Certification Training	132
LiveWire Pvt. Ltd. , Whitefield	25/04/2019	Vocational Educational Program	9
IIT BOMBAY	16/09/2019	IIT Spoken	2742

**Tutorial
Certification
Courses**

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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
115	133

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Laboratories	Existing
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 partially)	Version	Year of automation
LIBSOFT	Fully	12.0.0 web	2009
CERP	Fully	2.1.7	2018

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	69712	21437766	221	87750	69933	21525516
Reference Books	8874	3018758	10	10248	8884	3029006
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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Dr. Rajesh Kumar P	Mechanics of Materials (18ME32)- All Modules	Microsoft Powerpoint	29/07/2020
Prof. Swetha Agarwal	Basic Thermodynamics (18ME33)- All Modules	Microsoft Powerpoint	29/07/2020
Dr. G Shankar	Computer Aided Machine Drawing (18ME36A)- All Modules	Microsoft Powerpoint	29/07/2020

Prof. Mohan Kumar K	Tribology (15ME742)- All Modules	Microsoft Power point	27/07/2020
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4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	1308	1026	60	0	18	44	160	200	0
Added	3	0	0	0	0	0	3	0	0
Total	1311	1026	60	0	18	44	163	200	0

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

200 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
LMS	http://27.250.33.123/

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
278.3	265	398.6	379.64

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)

The institution has the structured system for maintaining and utilizing the facilities available. MVJCE (<http://www.mvjce.edu.in/facilities/>) Facility management team maintains the physical and academic support facilities. The various responsibilities of the team are housekeeping activities, maintenance of Garden, pest control, entire campus snag work etc. MVJCE deployed four location supervisors across the campus. Each location supervisor will report to the maintenance manager regarding his observations on electrical, plumbing, and housekeeping related issues/complaints. The security of the institute is taken care by in house security guards with the help of an external private agency in two shifts round the clock. The maintenance team does regular visits to class rooms, laboratory, library, sports area, canteen etc. The observations made are summarized as follows. This will help for the effective maintenance in a structured way. The academic support facilities of the college are as follows
Laboratories: Laboratory equipment are regularly inspected by faculty in-charge and Lab instructors. All the instruments in the laboratories are cleaned after the use and maintained frequently. Safety awareness is provided in the laboratories by displaying suitable safety instructions
Library: Library is open for access from 8.00 a.m. to 5.30 p.m. for the benefit of students and

faculty. Usage of the library material is duly and diligently maintained. The record regarding the use of library is maintained. IT helpdesk: Infrastructure like PCs, LAN Connectivity, internet services, Wi-Fi facility and LCD Projectors are available and are maintained regularly by an in-house IT help desk with the services of System admin and technical staff. Hostel Facility: Good boarding and lodging facilities are provided for boys and girls in the campus. Hostels headed by a Chief Warden and a group of Deputy Wardens. The hostels are provided with free Wi-Fi facility, RO water facility, round the clock power supply and security system. Sports Complex : A well-established Sports Department headed by a Physical Education Director and assisted by supporting staff looks after complete sports activities of the institution. Separate well-equipped gymnasium for boys and girls is in place

<http://www.mvjce.edu.in/facilities/>

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	MVJCE Founders Day	29	138500
Financial Support from Other Sources			
a) National	SC/ST SCHOLARSHIP	253	4495022
b) International	NIL	Nil	0

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

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
IITB Spoken tutorial -PERL	01/08/2019	3	IIT BOMBAY
IITB Spoken tutorial -RUBY	01/08/2019	24	IIT BOMBAY
IITB Spoken tutorial -C/CPP	01/08/2019	624	IIT BOMBAY
IITB Spoken tutorial -LATEX	01/08/2019	139	IIT BOMBAY
IITB Spoken tutorial -PHP MYSQL	01/08/2019	220	IIT BOMBAY
IITB Spoken tutorial -SCILAB	01/08/2019	250	IIT BOMBAY
IITB Spoken tutorial -RDBMS	01/08/2019	50	IIT BOMBAY
IITB Spoken tutorial -ADV CPP	01/08/2019	97	IIT BOMBAY
IITB Spoken tutorial- PYTHON	01/08/2019	438	IIT BOMBAY

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

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	Personality Development Programme	370	370	1	70
2019	Personality Development Programme	50	50	Nil	Nil
2019	Personality Development Programme	126	126	2	14
2019	Personality Development Programme	676	676	2	231
2019	Personality Development Programme	292	292	4	16
2019	Personality Development Programme	428	428	4	92
2019	Personality Development Programme	136	136	1	23
2019	Personality Development Programme	140	140	1	32
2019	Personality Development Programme	386	386	1	47
2019	Personality Development Programme	34	34	3	2

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

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

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
TCS	159	33	Cognizant	98	49
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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2019	1	B.E	AE	IIT KANPUR	M.Tech
2019	1	B.E	AE	MVJ college of Engineering, Bangalore	M.Tech
2019	1	B.E	CH	University College Dublin	M.S in Water & Environmental Engineering
2019	1	B.E	CH	Praxis Business School	PGPDS in Data Science
2019	1	B.E	CH	BMS College of Engineering	M.Tech in Biochemical Engineering
2019	1	B.E	CH	Wageningen University & Research	M.S in Water Technology
2019	1	B.E	CSE	Amrita School of Engineering	M.Tech
2019	2	B.E	CSE	PES University	M.Tech in Data Science & Machine Learning
2019	1	B.E	CSE	TU Dortmund University	Masters in Data Science
2019	1	B.E	CSE	IIT Kanpur	MS in Computer Science & Engineering

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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	8
CAT	1
GRE	3
TOFEL	2
Any Other	4

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5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
CHEMCLAVE(TECH SAS CLUB ACTIVITY)	INSTITUTE LEVEL	100
AZEOTROPY(TECH SAS CLUB ACTIVITY)	NATIONAL	150
VERTECHX (CHEMBLIZZARD)	NATIONAL	100
VERTECHX (CONTRAPTION)	NATIONAL	250
NIC CLUB ACTIVITY - TECHTATVA	INSTITUTE LEVEL	230
SDC CLUB ACTIVITY-WORKSHOP -PHP PHOTOSHOP	INSTITUTE LEVEL	120
NIC CLUB ACTIVITY - TECHSPARKS	INSTITUTE LEVEL	150
SDC CLUB ACTIVITY - PYCODER - CODING CONTEST	NATIONAL	125
INNERVE-VERTECHX	NATIONAL	150
CRYPTCODE-VERTECHX	NATIONAL	145

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5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	THIRD PLACE	National	1	Nil	1MJ17AE075	RAKSHITA M B
2020	SECOND PLACE	National	Nil	1	1MJ18AE004	ADITYA P ARTHASARATHY
2019	PARTICIPATION	National	1	Nil	1MJ17CH023	NEETUN
2020	First place in Debate	National	Nil	1	1MJ17CS134	Rishikesh P

	event during CMR Cultura					
2020	VTU TOURNAMENT	National	1	Nill	1MJ17CS140	SANDEEP V PUJAR
2019	RUNNER UP	National	1	Nill	1MJ17ME014	AkshayKumar H G
2019	RUNNER UP	National	1	Nill	1MJ18ME077	Naveen B Shivabasanavar
2019	RUNNER UP	National	1	Nill	1MJ19ME042	Nivas K S
2019	RUNNER UP	National	1	Nill	1MJ19ME055	Shashank S H
Nill	Certificate of Participation	National	Nill	1	1MJ18IS045	Hari
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5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

The institution does not have a student council, but there are societies / clubs the heads of which are part of council which oversee all the cultural activities MVJCE. Similarly, the head of the technical clubs are responsible for all technical activities at MVJCE. The objective is to make the students participate in the development of the institute as well as in the process develop their personality, organizational skills and career through interactive programs with the faculty, administration and society. The goal of the student council is to provide a common platform to students for co-curricular and extra-curricular activities. It is responsible for all the major technical, cultural, literary and sports activities organized in the college premises. Activities under the council will be well supported by a team of faculty members. Every class has a class committee which consists of the students and faculty members. Class committee sets the rules and regulations for the class behavior. It serves as the voice of the students in front of faculty and has say in academic matter such as conduct of test and so on. Class committee meets twice a semester. The institution also provides avenues for the development of technical skills, updating knowledge, personality development and service to the society through various technical clubs/societies ANTI-RAGGING COMMITTEE Institution imparting technical education shall constitute a Committee to be known as the Anti-ragging Committee to be nominated and headed by the Head of the Institution, and consisting of representatives of civil and police administration, local media, Non-Government Organizations involved in youth activities, representatives of faculty members, representatives of parents, representatives of students belonging to the fresher's category as well as senior students, non-teaching staff and shall have a diverse mix of membership in terms of level as well as gender. The anti-ragging committee of MVJCE is constituted as per the guidelines of All India Council for Technical Education. The following is the composition of the committee. All Head of the Departments Hostel chief warden Student coordinators Inspector of Police, Kadugodi Police station, Bengaluru The awards and punishments are affected as per the guidelines of AICTE, Government orders and judgments given by courts of India from time to time. ANTI-SEXUAL HARASSMENT COMMITTEE: The College has constituted anti-sexual harassment committee comprising of senior faculty members and students for preventing any act of sexual harassment. STUDENT

GRIEVANCE REDRESSAL COMMITTEE: A redressal committee functions in the institution. Following are the functions of redressal committee, To receive the grievance in person. To analyze and examine the nature of grievance. To deliberate with the members of committee and call for remarks if necessary To resolve the issues impartially. **OTHER CLUBS DETAILS:** IQAC DAC Software Development club Astronomy club Women Empowerment Cell Internal Compliance Committee Tomorrows Engineers Club Sports committee Anti-ragging Committee Entrepreneur Development Cell (EDC) Hostel Committee Health and Hygiene Club Music Club Dance Club Theatre Club, IEEE, Student Chapter IETE Literary Club.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

On 10th May 2019, our Official Alumni Association was formed in the name 'MVJCE Alumni Association' by the provisions of Karnataka Societies Registration Act, 1960. The main objectives of the Association are : • To strengthen the alumni network. • To provide a forum for bringing together the alumni to contribute effectively to the cause of engineering education and research in the country. • To promote professional, cultural, and social contacts among the members to enhance the further growth and prosperity of this great institution and her progeny. • To create opportunities and kindle the spirit of entrepreneurship among students and to support in their development by sharing the expertise, experience of the alumni. Under this alumni association, various alumni members have generously contributed for the welfare of the Institution. First Annual General Body Meeting was conducted on 11.7.2020. Annual Alumni Meet was organized on 25.08.2019

5.4.2 – No. of registered Alumni:

26000

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

25000

5.4.4 – Meetings/activities organized by Alumni Association :

First Annual General Body Meeting was conducted on 11.7.2020. Annual Alumni Meet was organized on 25.08.2019

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)

The college promotes decentralized and participative management and has various committees to implement all the decisions. The institution has a mechanism of decentralizing the work and providing operational autonomy to various functionaries at the principal level, Vice Principal Level, HOD Level, faculty level, student level, and supporting staff level in order to ensure a decentralized governance system. The Principal is the academic and administrative head followed by Vice Principal, department heads and unit heads. According to the guidelines of the government, various committees such as grievance redressal committee, internal complaints committee, Anti-Ragging committee, committee for SC / ST, women empowerment cell and the institution level committees such as research committee, exam committee, library committee, discipline committee, ethics and value committee, international relationship committee, etc. , are functioning in the institution with operational powers. Also, the principal and HoDs are given financial powers to a limit for the

purpose of purchasing any material needed urgently for the academic purpose.

Participation of management is in practice in strategic planning and operational level functioning, evident from governing council, planning and monitoring board, finance committee and internal quality assurance cell.

Principal meeting with HoDs and unit heads are held in alternative weeks in which department level and institutional level activities are discussed. Based on the discussion, continues reforms are brought in with the knowledge of the management. The institution has a practice of participate management in bringing reforms related to student development, research development, examination related and HR policy for the development of the institution

1. Research and Development (RD) council: The IQAC has initiated the formation of Research and development council in the institution. There is at least one representative from each department. R D council meetings are held every fortnight. The committee continuously reviews the work of PhD research scholars and various funding proposals to be submitted to funding agencies and monitors the progress of funded project. It encourages the institute to sign MoU with industries, to bridge gap between industry and academia. The institute has six research centers: Aeronautical Engineering, Computer Science Engineering, Mechanical Engineering, Physics, Chemistry, Electronics and Communication Engineering. Faculty are motivated to enroll as research supervisors. Faculty members prepares and submits research proposals to various funding agencies. Internal assessment of the research proposals is done by the advisory experts from Research and Development Council. The number of projects submitted to different agencies for funding is steadily increasing every year with the support of RD council. The college has got grants from different agencies like VGST, KSCST, CSIR, AICTE, DRDO, ISRO, IICHe, etc.,

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

Yes

6.2 – Strategy Development and Deployment

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

Strategy Type	Details
Curriculum Development	MVJ college of Engineering is affiliated to Visvesvaraya Technological University Belagavi , Our College got autonomous Status from the Academic year 2019-20. The BOS Meets before the framing of the syllabus for each semester, by considering the feedback from the stake holders and industry needs. The Syllabus Framed is put into the academic council committee to get the approval, the committees checks for the Curriculum gap and look at courses/lectures that need to be augmented to the Curriculum to bridge the gap. The output of this meeting would be add-on Courses to the curriculum and also through guest lecturers / workshops and enhanced laboratory experiments, thereby making the students industry ready.
Teaching and Learning	The following are some of the TLP incorporated in the institution: • Semester plan is prepared in accordance

with the academic calendar published by the COE Office prior to the start of a semester. • Industrial visits and internships are conducted to increase the industry academia relationship. • Students' performance is monitored through continuous assessment. • Guest Lectures/top up lectures, Seminars, Workshops and Conferences are being Conducted to bridge curriculum gaps and to give exposure to content beyond syllabus. • Ensuring the coverage of Practical learning of each course • Monitoring the teaching process through online feedback from students, Academic Audit by peer committee and Academic Council Meeting

Examination and Evaluation

The Institute is affiliated to VTU, Belagavi. The rules and regulations for evaluation process are laid down by the Controller of Examinations and are communicated to students through syllabus copies supplied in the beginning of first year of their academic program. The Institute has a Centralized Internal Evaluation Cell and Examination Cell Committee headed by Principal and Controller of examinations for monitoring and conduction and evaluation of the exams. The Committee Meets at regular intervals and evaluate the performance of the students on regular basis

Research and Development

Research and Development Cell is formed to promote Research and Development in the institute. The cell includes faculty, academicians and researchers. The cell meets once in a fortnight and delivers guidelines for quality improvement in R D. • The institute motivates the faculty to undertake research projects in VGST, KSCST, CSIR, AICTE, DRDO, ISRO, IICHE. • The institute motivates the faculty and students to file patents for the research work. • The Institute has been recognized by the VTU as a research centre for many departments. The Institute encourages faculty members to do publications in journals and conferences.

Library, ICT and Physical Infrastructure / Instrumentation

Library • IEEE institutional login enables the faculty and students for their academic and research works. • New books/journals are purchased every year to update the library. • Each Department has its own Library facility

that includes text books, project and research papers published. ICT • The institute regularly increases ICT facilities for classrooms, tutorial rooms, seminar halls and Laboratories. • The institute regularly enhances the Internet connectivity facility. • Physical Infrastructure: Physical infrastructure is able to meet the current requirements of the students, faculty members and staff. • Providing the various amenities such as canteen, indoor and outdoor game facilities, Gym centre, medical centre, hostels and transport. • CCTV cameras have been installed within and around the campus for security purposes

Human Resource Management

Manpower planning is carried out in the beginning of every academic year by Considering the faculty workload in each department. The HoDs prepare the department workload as per the guidelines for the coming academic year. A copy of the consolidated faculty requirement, along with a copy of the approved department faculty workload, is submitted to the Principal by the Heads of departments. The institute also uses performance evaluation methods for the staff members. At the end of every year, performance evaluation of the staff is done by Head of the Institution. This is used for deciding promotions and increments

Industry Interaction / Collaboration

• MoUs had been signed with companies like National Instruments, Edgate technologies, Robolab Technologies, Avian Aerospace, Sansera Engineering, Flow and Force engineers. • Industrial visits to companies like ISRO, BSNL, DRDO, HP is organised to understand the real time scenario. • Infosys Campus Connect programme to enrich faculty and students in the market trend. • Orientation programmes and guest lectures are conducted for the students by the Industry experts. • Alumni placed in the reputed industries are also invited for providing an insight to the needs of the industry. Industry day/Innovation day will be organized regularly to showcase the student's technical knowledge to the industrialists, academicians and alumni.

Admission of Students

Admission of the students is through

CET entrance exam. • Admissions for Management Seats is through any of these entrance exams- CET, JEE mains, COMEDK AMPCK • The institute maintains its repute by adopting following strategies: • Maintaining good results in University examinations by means of recent trends of teaching learning, providing quality infrastructure and facilities, maintaining good training and placement track records. • Encouraging extra-curricular activities like sports and other competitions. • Maintaining Ragging-free environment.

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

E-governance area	Details
Planning and Development	LIBSOFT INFORMATICS PUBLISHING LIMITED for Digitalization in library LDS INFOTECH : ANTI VIRUS SOFTWARE
Administration	Staff support CERP Software : EFFIA Staff attendance biometric punching: Matrix COSCEC
Finance and Accounts	Tally software
Student Admission and Support	Student biometric attendance :EFFIA SOFTVENT SERVICES PVT LTD: Student attendance tracker Globberina Technologies Pvt Ltd: EDU LIB software for tracking for library usage by student
Examination	CERP Software -for entering the internal marks Student examination fee payment: HDFC online

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	Prof. SYED AZAM	Workshop on Model Based System Identification and Its Application to Civil Engineering Structures	NIL	881
2019	Dr. Manu.D.S	Workshop on Model Based System Identification	NIL	2694

		and Its Application to Civil Engineering Structures		
2019	Mr Banuteja G	3 days workshop on ARTIFICIAL INTELLIGENCE AND ROBOTICS	NIL	3875
2020	Renjini E Nambiar	Workshop on "Power Train and Electromagnetic Transients"	NIL	2903
2020	Mr. MOHAMMED YOUSAF	CSIR Sponsored 2 DAY workshop on BIGDATA ANALYTICS USING HADOOP	NIL	1308
2019	SANTHIYA M	5 Day face-to-face workshop on BIG DATA TECHNOLOGIES AND MACHINE LEARNING , CDAC	NIL	7378
2019	PRAMELA DEVI S	5 Day face-to-face workshop on BIG DATA TECHNOLOGIES AND MACHINE LEARNING , CDAC	NIL	8377
2019	AKSHATHA P S	5 Day face-to-face workshop on BIG DATA TECHNOLOGIES AND MACHINE LEARNING , CDAC	NIL	7392
2019	DEEPA ACHARYA	3 Day face-to-face workshop on ARTIFICIAL INTELLIGENCE AND ROBOTICS	NIL	3900
2019	PUSHPALATHA	3 Day face-to-face workshop on ARTIFICIAL INTELLIGENCE AND ROBOTICS	NIL	2903
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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	Title of the	From date	To Date	Number of	Number of
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	professional development programme organised for teaching staff	administrative training programme organised for non-teaching staff			participants (Teaching staff)	participants (non-teaching staff)
2019	FDP on 'Big Data Deep Learning'	NIL	26/12/2019	28/12/2019	36	Nil
2019	FDP on Graphical Programming Real Time System Design	NIL	08/07/2019	19/07/2019	40	6
2019	Guest Lecture on photonics implementation	NIL	01/10/2019	01/10/2019	33	6
2019	Guest Lecture on 'Radar and Signal Processing	NIL	31/08/2019	31/08/2019	45	6
2020	Webinar on "Internet of Things for Covid-19	NIL	30/05/2020	30/05/2020	50	6
2019	Application of Remote Sensing (RS) and GIS in Civil Engineering	NIL	19/12/2019	21/12/2019	36	Nil
2019	Pitfalls in Soil Investigations and the Consequential Failures of Structures	NIL	31/08/2019	31/08/2019	17	Nil
2019	Remote Sensing, GIS and DEM for Water	NIL	21/09/2019	21/09/2019	16	Nil

	Resources Assessment					
2019	Smart and Sustainable Cities in India- The Infrastructure Requirements	NIL	18/11/2019	18/11/2019	20	Nil
2019	Advanced Wastewater Treatment	NIL	23/11/2019	23/11/2019	14	Nil
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
Recent Trends in Utilization of Waste Materials in Construction Industries and Its Impact	1	22/07/2020	27/07/2020	5
3 day? Virtual Faculty Development Program on Software Applications in Civil Engineering?	1	24/06/2020	26/06/2020	3
Certificate Course on Digital Teaching Techniques	1	29/06/2020	04/07/2020	6
Three Day Online Faculty Development Programme on Recent Advancements In Civil Engineering	1	24/06/2020	26/06/2020	3
Modern Development In Concrete And Construction	1	23/07/2020	29/07/2020	7
ICT Mode STTP	1	22/06/2020	26/06/2020	5

on "Water and Wastewater Treatment and Health (ICT46)"				
ICT Mode STTP on "Purification of Drinking Water and Health (ICT36)"	1	08/06/2020	12/06/2020	5
AICTE Sponsored One Week FDP on Cyber Security organized by the Department of ECE, UVCE, Bangalore	1	09/12/2019	13/12/2019	5
AICTE Sponsored One Week FDP on Internet of Things organized by the Department of CSE, UVCE, Bangalore	1	18/11/2019	21/11/2019	5
FDP on 'Big Data Deep Learning'	7	26/12/2019	28/12/2019	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
234	Nil	174	Nil

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<p>Casual Leave of 12 days per year, Vacation leave of 15 days in a semester. On duty facility (OOD) for attending workshops /conferences/seminars. 7 days of Medical Leave can be availed by staff in case of hospitalization. Maternity leave to the women employees, for 6 months and with 3 months salary. On duty facility is provided to faculty for attending workshops</p>	<p>7 days of Medical Leave can be availed by staff in case of hospitalization. Maternity leave to the women employees, for 6 months and with 3 months salary. All the eligible staff as per the Staffs Provident Fund legislation are enrolled in EPF scheme. For non-teaching staff, financial support is provided to pursue skill development.</p>	<p>Medical Insurance, Scholarships, Financial support for paper presentations, Cash prize awarded to university level toppers, college level toppers and students who have acquired 100 marks in university level examination, Recognition for students who have won in College/Inter college/University/Sports, Transport facility at</p>

/conferences/seminars and visit research organizations to carry out R D. Faculty is rewarded Rs. 5000/- per paper, for publications in Scopus/SCI journals with high impact factor. Faculty are awarded with cash prize for 100 Results and generating funds through research projects. For consultancy projects, faculty is given 60 of the consultancy fees. All the eligible staff as per the Staffs Provident Fund legislation are enrolled in EPF scheme. Group Medical Insurance is provided for all the staff , Transport and cafeteria facilities are provided to all staff at subsidized cost. Medical facility is also being provided for all staff. ATM facilities are available in the campus

Uniform is also being provided for instructors, drivers, attenders, and securities. Group Medical Insurance is provided for all the staff Transport and cafeteria facilities are provided to all staff at subsidized cost. Medical facility is also being provided for all staff. ATM facilities are available in the campus

subsidized rate

6.4 – Financial Management and Resource Mobilization

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

Institution conducts internal and external financial audits regularly. Audit will be conducted at the end of each financial year. The auditors will visit to college at regular intervals, they will verify all financial transaction with the supporting documents and approval of proper authority for each financial transaction. The financial transactions are accounted in Tally ERP by the college. Audit is conducted in accordance with the Auditing standards generally accepted in India. They plan and perform procedure to obtain the reasonable assurance about whether the financial statements are free from material misstatements. Auditor will examine on a test basis evidences, supporting for the amounts and disclosure in the financial statements. It also includes assessing the accounting principles used and management estimates and evaluation of overall financial statements presentation. All financial transactions accounted and financial statements like Balance sheet and Income and Expenditure are also verified. Such financial statements will be signed and approved by Auditor and Management. Based on the audited financial statements, auditor will issue "Audit Report"

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
Live Wire	10000	Sponsorship
View File		

6.4.3 – Total corpus fund generated

320500

6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	VTU -Local Inquiry Committee	Yes	IQAC
Administrative	Yes	VTU -Local Inquiry Committee	Yes	IQAC

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

- Parent teacher meeting is being conducted once in every semester. Student's academic performance, attendance and other related issues are discussed
- Feedback from parents are being taken on curriculum, general facilities and teaching learning process. Based on the feedback action is also taken.
- Progress reports (including attendance and marks) are being send to the parents after every internal assessment

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

- To improve the skill of the support staff, the college deutes the members of the staff to undergo training and workshops organized by other institutions.
- In house training programme are also arranged by various departments to cater to the needs of the support staff. For upgrading the skills in computer, workshops on MS office have been conducted.
- Workshops for stress management , health management are also being conducted.

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

- MVJ College of Engineering has designed the new autonomous curriculum to make a shift from rote learning to experimental learning. Conducting online Classes using MS teams, Usage of Virtual Lab, LMS Materials, Online Class materials are used in teaching learning process.
- Improvement in RD Activities
- Increase the number of Innovative projects by students and to enhance number of patents. 10 provisional patents have been filed.

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	Webinar on Little drops makes mighty oceans: Collective	10/02/2020	29/06/2019	29/06/2019	300

	intelligence				
2019	Guest Lecture on "The Study on the sun"	20/09/2019	25/10/2019	25/10/2019	110
2020	Webinar on Autonomous Vehicle Lanes for a Seamless Transition to Future Mobility	10/02/2020	09/07/2019	09/07/2019	155
2020	A talk on 'Contribution of Engineers for the Sustainable Development of the Country'	10/02/2020	04/03/2020	04/03/2020	200
2020	Skill development programme on Finite Element Analysis using ANSYS	10/02/2020	24/02/2020	29/02/2020	20
2019	Faculty Development Programme on 'Application of Remote Sensing (RS) and GIS in Civil Engineering', on 19th, 20th and 21st December, 2019	20/09/2019	19/12/2019	21/12/2019	100
2019	A Guest Lecture on 'Advanced Wastewater Treatment'	20/09/2019	23/11/2019	23/11/2019	115
2019	A Guest Lecture on Smart and Sustainable Cities in India- The Infrastructure	20/09/2019	08/11/2019	08/11/2019	170

	Requirements				
2019	A Guest Lecture on Remote Sensing, GIS and DEM for Water Resources Assessment	20/09/2019	21/09/2019	21/09/2019	166
2019	A Guest Lecture on Pitfalls in Soil Investigations and the Consequential Failures of Structures	20/09/2019	31/08/2019	31/08/2019	167
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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
Women's Day Celebration	08/03/2020	08/03/2020	150	100
Session on "Gender disparities and mental health: Diversity & Inclusion"	17/02/2020	17/02/2020	430	400
Essay writing competition on "International trends in women's empowerment"	21/11/2019	21/11/2019	35	40
Faculty Sports Day	07/02/2020	07/02/2020	220	125

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

Power requirement met by renewable energy source is in progress during the year 2019-20. Total Power requirement is 400 KVA. Total lighting requirements 27.3 KW. In the year 2019-20, 50 percentage of the lighting is through LED bulbs. Remaining 50 percentage is through other sources. In educational buildings a significant component of the energy used is spent in illuminating the interior of the building. As the energy costs rise, increasing effort has gone into minimizing the energy consumption of lighting installations. In MVJCE, light-

emitting diodes (LEDs) create opportunities for our institute to improve lighting quality, save on energy costs, reduce maintenance demands and improve educational learning in the classroom.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	50
Provision for lift	Yes	50
Ramp/Rails	Yes	50
Braille Software/facilities	Yes	Nil
Rest Rooms	Yes	50
Scribes for examination	Yes	Nil
Special skill development for differently abled students	Yes	Nil
Any other similar facility	Yes	50

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
2019	1	1	25/09/2019	1	Model Making Competition on Innovative Techniques on Reuse And Reduce Plastic Pollution	Plastic Pollution	150
2020	1	1	13/02/2020	3	Plantation of saplings and guiding the students on Environmental Conservation	Deforestation and Pollution	50
2019	1	1	12/10/2019	1	SRISHTI Club event on	Environmental Sustainability	100

					'Poster Presentation on Extempore Speech	ity	
2020	1	1	13/01/2020	4	Creating awareness about sustainable water management among school children	Water Scarcity and the awareness about sustainable water management	60
2019	1	1	06/11/2019	1	Drug Awareness Program	Drug Abuse	1550
2020	1	1	21/01/2020	14	NSS Activity on "Visit to Govt. School and teaching English grammar, Maths and Moral Values"	Imparting knowledge to local school children	45
2020	1	1	20/04/2020	5	Grocery Item Distribution	Distributing food and safety measures to help fight spread of Covid-19	26
2019	1	1	19/12/2019	3	Faculty Development Programme on 'Application of Remote Sensing (RS) and GIS in Civil Engineering'	Participants from different parts of the state attended.	70
2020	1	1	31/01/2020	5	Five-Day FDP on Recent Trends in Blockchain	Participants from different parts of	50

					n Technol ogy	the state attended.	
2019	1	1	04/07/2 019	3	Faculty Developme nt Programme on "Recent Trends in Engineeri ng Materials and Nano technolog y"	Partici pants from different parts of the state attended.	50

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7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
CODE OF CONDUCT AND DISCIPLINE FOR STUDENTS	02/02/2019	<p>Students seeking admission to MVJCE as well as existing students should give an undertaking countersigned by their parents, promising to abide by the guidelines of discipline. Some of the guidelines are as under:</p> <ul style="list-style-type: none"> • Within and outside the premises of the college, all the students should conduct themselves in a manner befitting the great tradition of the college. • The students should not indulge in any kind of activities which are likely to bring down the prestige and traditional image of the College. • The students should show due respect and courtesy to the teachers, administrators, officers, employees and others associated with the college and maintain cordial relationships with fellow students. • Ragging of junior / fellow students, Lack of Courtesy to others, Indecent behavior within and outside the college, wilful damage and thieving of college

property and of fellow students, unruly behaviour causing disturbance to fellow students, hacking in others computers and cyber related crimes, malpractices in examination, plagiarism, (these are all illustrative and not exhaustive) and any other acts of omissions and commissions.... shall constitute gross violation of the code of conduct and liable for invoking disciplinary measures. • Students are advised to wear decent formal dresses and not in casual. • Students are advised to attend all the classes regularly from the start of the academic

- Smoking, use of alcohol, use of hallucinogenic drugs and narcotics consuming non vegetarian food is strictly prohibited in the campus. • Students should not misuse facilities in the campus.
- Students coming by two wheelers should compulsorily wear helmets and possess a valid driving license. • Students should park their vehicles in parking area only keeping the convenience of others also in mind. • Use of Mobile phones is strictly prohibited inside the campus. • Ragging in any form is strictly prohibited and is considered a serious offence as per the order of the Honourable Supreme Court of India. • Commensurate with the gravity of the offence, the punishment includes reprimand, fine, expulsion from the hostel

		<p>/ college, debarment from examination, suspension from the college and handing over the case to the law enforcing authorities of the Government. •</p> <p>Malpractices committed in Examinations by the students, shall be viewed seriously and attract various penalties which include fines, loss of examination, expulsion from the college etc. All cases of examination malpractices detected by the staff / squad, shall be referred to the Malpractices Enquiry Committee for taking suitable action / punishment and the award of punishment will be binding on the students.</p>
<p>CODE OF CONDUCT FOR FACULTY, GOVERNING BODY AND ADMINISTRATION</p>	<p>02/02/2019</p>	<p>This policy applies to all our employees, regardless of employment agreement or position in the Institution. POLICY ELEMENTS The employees of the Institution are bound by their contract, to follow our Employee Code of Conduct, while performing their duties. The components of the Code of Conduct are as outlined below.</p> <p>Compliance with Law All employees must protect the Institution's legality. They should comply with all environmental, safety and fair-dealing laws. We expect employees to be ethical and responsible, when dealing with the finances, products, partnerships and public image of the Institution. Respect in the Workplace All employees should respect their colleagues. No kind of discriminatory behaviour, harassment or victimization shall be</p>

tolerated. Employees should conform with our Equal Opportunity policy, in all aspects of their work - from recruitment and performance evaluation to interpersonal relations.

Protection of

Institution's Property

All employees should treat the properties of the Institution, whether material or intangible, with respect and care.

Employees: • Should not misuse any equipment of the Institution, or use it frivolously. • Should

respect all the incorporeal property - this includes trademarks, copyright and other property (Information, Reports etc.). These can be used by the employees, only with respect to completing the duties which their job demands.

• Should protect the facilities and other material property of the Institution (e.g. cars that belong to the Institution) from damage and vandalism, whenever it is within their capacity. Professionalism

All employees must show integrity and professionalism, in the workplace. Personal appearance needs special attention - all employees must follow the dress code and personal appearance guidelines of the Institution.

Corruption Employees are strictly forbidden from accepting gifts from stakeholders. Job duties and authority All

employees should fulfil their job duties with integrity, and show respect towards stakeholders and the

community. We expect employees to delegate duties to their team members, taking into account their competencies and workload. Likewise, we expect team members to follow their supervisor's instructions and complete their duties skilfully and within the stipulated time. Absenteeism and Tardiness Employees should follow their schedules, diligently. Some exceptions can be made for unexpected instances that prevent employees from following standard working hours or days. But we do expect employees to be punctual when coming to and leaving the workplace. Penalties will be levied for late-coming, early departure, mispunch etc.

Conflict of Interest We expect employees to avoid any personal, financial or other interests that might hinder their capability or willingness to perform their job duties. Collaboration Employees should be friendly and collaborative. They should not disrupt the peace and normal functioning of the workplace, or present obstacles to their colleagues' work.

Communication All employees must be open to communication with their colleagues, supervisors and team members.

Benefits We expect that employees do not abuse their employment benefits. This can refer to time off, insurance, facilities, subscriptions, or other such benefits that the

Institution offers. Social Media Policy The Institution encourages appropriate, responsible and lawful use of social media by its faculty, staff and students. The representation of the Institution on Social Media platforms can be initiated or authorised only by the Institution, and it reserves its rights of publication of recordings, photos, images, videos, texts, slides, presentations etc. connected to it. The employees are advised to strictly abstain from disclosure of copyrights, proprietary or confidential information, intellectual property or any sensitive content, relating to the Institution. The employees are personally responsible for their communications in social media, and posting of inappropriate content, offensive language, or anything that might damage the reputation of the Institution is just not acceptable. Instances of cyberbullying by any employee will be subject to stringent disciplinary action. The Institution reserves its right to initiate disciplinary proceedings (including legal action) against any employee violating its Social Media Policy. Policies All employees should read and follow the policies of the Institution. Queries, if any, should be addressed to the Human Resources (HR) Department.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
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Universal Human Values - Imparting cultural and tradition value	17/02/2020	17/02/2020	800
Universal Human Values- Awareness on Ecosystem and Impact of Industrial Pollution	11/02/2020	11/02/2020	800
Awareness session on "Goal Setting, Time Management and Professional Ethics"	10/02/2020	10/02/2020	800
Session for inculcating the patriotism in the future citizens	15/02/2020	15/02/2020	800
Session on "Universal Human Values -Environment awareness"	14/08/2019	14/08/2019	800
Importance on Yoga, Meditation and Cultivating Moral Values through Yoga	12/02/2020	12/02/2020	800
NSS Orientation Programme	16/08/2019	16/08/2019	800
Independence Day Celebration	15/08/2019	15/08/2019	200
Republic Day Celebration	26/01/2020	26/01/2020	200
Gandhi Jayanthi Celebration - Gandhi Global Solar Yatra - Student solar ambassador workshop.	02/10/2019	02/10/2019	150

[View File](#)

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

The institutional initiatives for greening the campus are as follows: MVJCE has implemented green-friendly practices to manage the available resources and has taken steps in environmental conservation and protection. MVJCE has received AICTE National Level Clean and Smart Campus Award - 2019. a) Restricted entry of automobiles Taxis will be allowed inside the campus only to drop the baggage of the students. Senior members of the faculty and teachers, who wear sarees on daily basis, will be allowed to drive at and nearby academic areas. However, the administration has now decided to continue the practice in a bid to make the campus a vehicle-free zone.

b) Use of bicycles/Battery powered vehicles MVJCE is encouraging students and staff who are staying in a nearby college for bicycle transportation that is reducing both pollution and fuel usage.

c) Pedestrian-friendly pathways Pedestrian Friendly roads in MVJCE is enabling pedestrians and cyclists to travel safely and freely in the campus. Installation of speed humps in the campus road is done to improve traffic and pedestrian safety.

d) Ban on the use of plastic MVJCE is a plastic-free campus. NSS Unit has organized programs to create awareness of the harmful effects of plastics.

e) Landscaping Carbon dioxide neutrality is maintained on the campus by planting different varieties of trees and plants. The green campus concept offers MVJCE to take the lead in redefining its environmental culture and developing new paradigms by creating sustainable solutions to environmental, social and economic needs of the mankind.

f) Paperless office: The college gives emphasis on paperless office to save carbon emission in printers. Reuse of one -side paper printouts is also being done. Smart attendance system is in existence for students and staff with the use of biometric. The SMS/Mail Alert facility to parents regarding their ward's daily attendance and Internal exam marks are carrying out here.

Major Green Campus Initiatives 1. Tree Plantation is done every year through NSS. 2. Recycled water is utilized for maintaining green campus. 3. Rain water harvesting, solid and liquid waste management. 4. The college has nurtured number of trees of different variety. 5. MVJCE ECO Club with a tag line "GO GREEN FOR TOMORROW".

Total expenditure on green initiatives and waste management excluding salary component year wise during the last year (INR in Lakhs): In the year 2019-20, the budget allocated for green initiatives is Rs. 24,70,000. Total Expenditure on green initiatives and waste management excluding salary component is Rs.29,00,132.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best Practice 1 Title of the Practice: Tinkering Lab in MVJCE Objectives of the Practice: The aim of installing Tinkering Lab in MVJCE is to promote innovation and entrepreneurship among students. Tinkering Lab has been established in MVJCE for encouraging students to innovate, and discover the joy of creation. The Lab motivates students to build large engineering devices and develop complex systems. It facilitates the participation of our students at various national and international competitions, representing MVJCE. It also aims to help the inventors and entrepreneurs among our students, to build prototypes of their ideas and generally 'tinker' around, exploring new ideas. The Context: The mission and vision of engineering education should continuously change its focus to satisfy customers requirements - the industry and the students as future employees. The students should create something new, the institution should provide the space for innovating and providing solutions for problems faced by individuals and communities. The terms 'hands-on', 'minds-on' learning are used in connection with student-centered or active learning, and also for educational activities that are dynamic, relevant, and applied. These types of hands-on activities contribute to students' engagement and will better prepare engineering graduates to compete in a demanding market. The hands-on activities can foster in students, the development of knowledge and skills in both the cognitive and affective domains: design, creativity, communication, models and team work. The Practice: The Tinkering Lab is a dedicated space on campus that enables students to explore ideas and experience the process of creation of

technology, from ideation to prototyping. The Lab provides basic machinery, materials, tools and instruments for students to bring form to their imagination. The Tinkering Lab is open to students across all departments of MVJCE, to access at their convenience. The Lab also helps students in learning to work with a team, as it is an essential skill for any career. It provides networking opportunities through student-meetings across various programs of the college. It is a good platform for interdisciplinary research and development. The Tinkering Lab organizes programs, events, and meetings throughout the academic year and it is open to all students from every Engineering discipline. A one-day Workshop on 'Readying Students for Industry 4.0' was held at MVJ College of Engineering on 24th August 2019, to mark the 'College Academia-Industry Day'. The Chief Guest for the Workshop was Dr. Anil D Sahasrabudhe, Chairman - All India Council for Technical Education (AICTE).

Dr. BN Suresh, Chairman - Governing Council of MVJCE, presided over the Workshop. Many eminent speakers from academia and industry addressed the gathering comprising guests from Industries, DRDO Labs, PSUs, ISRO, CSIR Labs, invitees from statutory bodies, VGST, VTU etc., Alumni, parents of current students and the students of the college. Around 60 teams from various departments participated in the event and developed prototype models addressing real-life problems. Students from various departments and faculty members visited the Exhibition Stalls. Braille book, Low-cost biotic semipermeable membrane using fruit peel waste, Smart Helmet and Boco.aid were among the significant projects that were exhibited. Evidence of Success: Four provisional patents have been applied, for some innovative ideas that were born out of Tinkering Lab projects. Our students have presented and published these projects in various conferences and journals. Many student innovations were featured in newspapers, too. List of completed projects 2019-20: 1. Design and development of robotic arm with camera for crack detection, using image processing 2. Design and development of automatic pneumatic car bumper 3. Foldable camping hammock to travel light and easy set up 4. Design and fabrication of methanol extraction plant 5. Multi-functional AI assisted drone, for emergencies 6. 3-axis pneumatic Tiller 7. Alternative fuels using plastics 8. Design and fabrication of dirt bike 9. Pedal operated power generator 10. Fuel tank impact safety system 11. Hydraulic chair 12. Waste separation using smart dustbin 13. Cleaning machine 14. Hybrid motor cycle 15. Hydraulic parking using scissor lift mechanism 16. Road Hump and pothole detection, by using ultrasonic sensors 17. Smart Shelves 18. Smart, wearable reading assistance system 19. Automatic number plate recognition, using Machine Learning 20. Voice-based notice board using Android 21. Snake robot for all-terrain surveillance 22. LIDAR embedded hexacopter 23. IOT monitored hydroponics system 24. Rainfall detection in City 25. Malware Detection Using Machine Learning 26. Selection of University based on the student's performance, by using Deep Learning and Tensor flow Artificial Intelligence Engine 27. Gesture-controlled Computing and Recognition 28. Electoral Voting System using Block Chain Technology 29. Dynamic bus scheduling and routing system 30. Detection of driver drowsiness or alcohol intoxication, and blind curve alert system using Raspberry pi 31. Design and Implementation of a Camouflage Army Robot 32. Deep Learning approaches for cyber security in detection of Network intrusion 33. Campus Spy - Attendance Management System using Face Recognition Problems Encountered: NIL Resources Required: • Dedicated students who have creative ideas and share new developments in various technical fields to discover the joy of creation. • A team of faculty members from different departments for promoting technical awareness among engineering students, to produce better quality engineers, facilitating the overall growth of engineers. They are helping the students in each and every stage of their project. • Physical infrastructure such as laboratory and workshop facilities, computer lab with internet, and machinery, materials, tools and instruments that will enable students to bring form to their creativity. Best Practice 2 Title of the

Practice: Design of Innovative Curriculum in MVJCE Objectives of the Practice: MVJ College of Engineering has designed a new and very contemporary curriculum, made possible on account of our autonomous status, to make a shift from rote learning to experimental learning, in order to meet the moto of OBE and NEP. In this curriculum, we have introduced an experimental study and its analysis for every theoretical concept, so that students will understand the concept thoroughly. The Context: The traditional learning methods in India have been focusing far too much on rote learning and memorization. This would allow students with a good memory to potentially score more, even if the concepts were not clear to them. On the other hand, a pattern which encourages understanding at a conceptual level, can help students build on the foundation of what they already know and help them to create new and more meaningful connections between new and old concepts. By encouraging students to think critically, experiential learning helps them to discover new connections and acquire problem-solving skills, rather than relying on quick fix solutions. The Practice: The main advantage of academic autonomy is to offer continuous learning and evaluation, and to have the freedom to design a curriculum. Academic autonomy facilitates a shift from examination centric learning to student centric learning. MVJCE Governing Council is responsible for the overall general and academic administration of the Institute. Academic Council is responsible for the overall academic regulations, curricula, scheme of syllabi and evaluation and approval of results. Joint Board of Studies, Board of Studies, Board of Examiners, and Internal Quality Assurance Cell of MVJCE facilitates the creation of a learner centric environment conducive to quality education. It also fosters faculty maturation to adopt the required knowledge and technology for a participatory teaching and learning process. A course is divided into five modules and every module has laboratory sessions for the implementation of experimental learning. And to bridge the gap between the academic and industry needs, Value Added Courses are also included in the curriculum. The curriculum was developed by a strong and robust team of faculty members, and it then underwent a series of revisions by the BoS, which comprises of industry and academic experts in the respective stream. After the approval of BoS members, it was sent to the Overview Committee which includes experts from premier institutes. The suggestions given by the Overview Committee were discussed in the Academic Council review meeting with experts for final approval, and then incorporated into the curriculum. Evidence of Success: MVJCE has designed the curriculum in such a way that it meets global requirements, adopting a teaching-learning process that brings out innovation and creativity that is latent in students it enhances the rational, logical and objective thinking ability of students. Students are prompted to figure out what to do with the knowledge acquired, with the focus changing from what you know to how you know. It is a proud moment for the Institution that our students are actively participating and winning in many Hackathons and various state level and national level competitions. Problems Encountered: Nil Resources Required: Board of Studies, Board of Examiners and a team of dedicated faculty members under the supervision of IQAC, MVJ College of Engineering.

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

https://www.mvjce.edu.in/wp-content/uploads/2021/05/7.2_Best-Practices.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

TECHNICAL LABS/CLUBS IN MVJCE TO IMPART QUALITY HOLISTIC EDUCATION: MVJCE has different technical labs/clubs which is giving priority to impart quality

holistic education with international standards, that is focussing to the mission and vision of the institution. These special labs/clubs are judiciously designed and executed on a voluntary basis thereby giving the students an exposure and an opportunity to the practical aspects of engineering thus, fostering creativity innovation, critical thinking, problem solving skills thereby provide a platform for hands- on- training.

1.UAV Lab :The UAV Lab which operates under the department of Aeronautical Engineering stands to facilitate the students with necessary technical assistance to pursue their projects in the domain of design and development of UAVs. Apart from the technical assistance the lab organizes workshops and ab-initio projects as well. Every other event organized by the lab is for the students and executed with organizational involvement of the students. The main objective is to enhance the skill set of undergraduate as well as postgraduate students in the domain of Design, Development, Testing and Certification of unmanned aerial vehicles by supporting the activities conducted in the UAV Lab through various interactive sessions in terms of workshops, invited talks, competitions and other similar events.

2. Idea Box: Idea Box is a unique flagship initiative of MVJ College of Engineering which encourages the students across all the disciplines to present their innovations and gain support across all stages of the innovation. This also fosters interdisciplinary approach thus widening the horizons of innovations. Idea Box, an initiative by the EDC, is linked to our website with the objective of receiving student ideas in entrepreneurship which are identified and shortlisted for incubation and development. Idea box will Call all students of IV semester to form interdisciplinary teams and submit their project ideas. Shortlisted students will undergo three workshops organized by various technical clubs.

3. Robotics and Industrial Automation Centre :MVJCE established Robotics Centre in 2016. The lab is well equipped with all the advanced tools and equipment like 3D Printers, PCB Printers, Pneumatic Machines etc to cater the needs of the students to execute their innovative ideas. Industry level trainings are also being part of the laboratory exercise to the students in different levels. The research activities in this lab focus on new generation mechatronics systems, smart sensors, embedded systems, artificial intelligence and machine learning. Braille Pad, Smart Helmet, 3D printer, e-MAD drone, dBook are the few projects got more attraction and appreciation among the technical expert communities.

4. Student Development Programme On Foundation Skill In Integrated Product Development" (FSIPD): FSIPD aimed at setting the new standards for knowledge sharing between the industry and the educational institutions and has contributed significantly towards strengthening the knowledge economy itself. MVJCE works on the students' skill focusing on practical exposure to them through the Foundation Skills for Integrated Product Development Programme for bridging employability gap. Various workshops on the FSIPD Programme are given by industrial experts to a group of faculty members and subsequently students are trained.

Provide the weblink of the institution

<https://www.mvjce.edu.in/uav-lab/>,<https://www.mvjce.edu.in/entrepreneur-development-centre/>,<https://www.mvjce.edu.in/robotics-and-industrial-automation/>,<https://www.mvjce.edu.in/category/fsipd/>

8.Future Plans of Actions for Next Academic Year

- To start new courses in Thrust areas like Industrial IOT, Computer Science Design
- To train all faculty members in Teaching- Learning Pedagogy for online Teaching and Learning
- To develop experiments for Virtual lab in Aerospace Engineering in association with IIIT Hyderabad, a nodal centre for Virtual lab of MHRD
- Introduce Certification courses for students in association with Industries
- To increase number of Paper publications and Continuous improvement in Quality of Research publications
- To enhance number of Patents

Commercialization • Enhance continuous submission of proposals to various funding agencies. • To enhance innovative projects and motivate students to take part in a greater number of hackathons, competitions. • Submit Compliance Report to NBA for Chemical Engineering, Electrical Electronics, and Information Science Engineering for Accreditation