



YEARLY STATUS REPORT - 2021-2022

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 its own campus? | Yes | |
| • Phone No. of the Principal | 08042991002 | |
| • Alternate phone No. | 08042991000 | |
| • Mobile No. (Principal) | 9448345434 | |
| • Registered e-mail ID (Principal) | principalengg@mvjce.edu.in | |
| • Address | Near ITPB, Channasandra | |
| • City/Town | Bangalore | |
| • State/UT | Karnataka | |
| • Pin Code | 560067 | |
| 2.Institutional status | | |
| • Autonomous Status (Provide the date of conferment of Autonomy) | 24/06/2019 | |
| • Type of Institution | Co-education | |
| • Location | Urban | |

| | | | | | |
|--|---|-------------|-----------------------|-------------------|-------------------|
| • Financial Status | Self-financing | | | | |
| • Name of the IQAC Co-ordinator/Director | Dr M Brindha | | | | |
| • Phone No. | 08042991005 | | | | |
| • Mobile No: | 9632773981 | | | | |
| • IQAC e-mail ID | viceprincipal@mvjce.edu.in; iqac@mvjce.edu.in | | | | |
| 3.Website address (Web link of the AQAR (Previous Academic Year)) | https://mvjce.edu.in/wp-content/uploads/2021/06/AQAR-2019-20.pdf | | | | |
| 4.Was the Academic Calendar prepared for that year? | Yes | | | | |
| • if yes, whether it is uploaded in the Institutional website Web link: | https://www.mvjce.edu.in/academic-calendar | | | | |
| 5.Accreditation Details | | | | | |
| Cycle | Grade | CGPA | Year of Accreditation | Validity from | Validity to |
| Cycle 1 | B++ | 3.00 | 2018 | 02/11/2018 | 01/11/2023 |
| 6.Date of Establishment of IQAC | | | 01/12/2012 | | |
| 7.Provide the list of Special Status conferred by Central and/or State Government on the Institution/Department/Faculty/School (UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC, etc.)? | | | | | |
| | | | | | |

| Institution/ Department/Faculty/School | Scheme | Funding Agency | Year of Award with Duration | Amount |
|--|----------------------------|----------------|-----------------------------|-----------------|
| Prof. S. C. Gupta & Dr.P .Arunagiri | MODROBS | AICTE | 01/07/2020 | Rs.11,37255.00 |
| Prof. S. C. Gupta | ARDB | DRDO | 19/10/2019 | Rs.8,9875.00 |
| Dr.R.Rajasekar | R & D | ARDB | 01/10/2019 | Rs.8,57,000 |
| Dr. Ramakrishna G V S | R & D | KSCST | 01/05/2022 | Rs.12,000.00 |
| Dr. Ramakrishna G V S | BRC | IICHE | 01/07/2022 | Rs.5,000.00 |
| Prof. Megala S | BRC | IICHE | 01/07/2022 | Rs.5,000.00 |
| Prof. Bhanuteja & Dr. S J Sugumar | SPICES | AICTE | 01/05/2022 | Rs.1,00,000.00 |
| Dr. Hameem Shanavas | KFIST | VGST | 01/08/2021 | Rs.10,00,000.00 |
| Dr. Vivekanand B Huddar | NIF | NIAS (IISc) | 01/02/2022 | Rs.2,31,000.00 |
| Dr. Santhosh | NIF | NIAS (IISc) | 01/02/2022 | Rs.1,42500.00 |
| Dr. Sunil Shankar Waddar | NIF | NIAS (IISc) | 01/02/2022 | Rs.57,000 |
| Dr. Soumya Mishra | Innovative Student Project | VTU | 01/09/2021 | Rs.5000.00 |
| Prof. Gayatri R | Innovative Student | VTU | 01/09/2021 | Rs.5000.00 |

| | Project | | | |
|------------------------|----------------------------|-----|------------|------------|
| Prof. Gupta | Innovative Student Project | VTU | 01/09/2021 | Rs.5000.00 |
| Dr. M Pratap Kumar | Innovative Student Project | VTU | 01/09/2021 | Rs.5000.00 |
| Prof. Shambhavi Tadkal | Innovative Student Project | VTU | 01/09/2021 | Rs.5000.00 |
| Prof. Anupama | Innovative Student Project | VTU | 01/09/2021 | Rs.5000.00 |
| Prof. Athira Ashokan | Innovative Student Project | VTU | 01/09/2021 | Rs.5000.00 |
| Dr. Anthony Raj | Innovative Student Project | VTU | 01/09/2021 | Rs.5000.00 |
| Dr. S J Sugumar | Innovative Student Project | VTU | 01/09/2021 | Rs.5000.00 |
| Dr. D Tamilarasi | Innovative Student Project | VTU | 01/09/2021 | Rs.5000.00 |
| Dr. Muzamil Hussain | Innovative Student Project | VTU | 01/09/2021 | Rs.5000.00 |
| Dr. Sunil S Waddar | Innovative Student Project | VTU | 01/09/2021 | Rs.5000.00 |
| Dr. Huddar V B | Innovative Student Project | VTU | 01/09/2021 | Rs.5000.00 |

8. Provide details regarding the composition of the IQAC:

- Upload the latest notification regarding the composition of the IQAC by the HEI

[View File](#)

| | | |
|--|---|--|
| | | |
| 9.No. of IQAC meetings held during the year | 2 | |
| <ul style="list-style-type: none"> Were the minutes of IQAC meeting(s) and compliance to the decisions taken uploaded on the institutional website? | Yes | |
| <ul style="list-style-type: none"> If No, please upload the minutes of the meeting(s) and Action Taken Report | No File Uploaded | |
| 10.Did IQAC receive funding from any funding agency to support its activities during the year? | No | |
| <ul style="list-style-type: none"> If yes, mention the amount | | |
| 11.Significant contributions made by IQAC during the current year (maximum five bullets) | | |
| Faculty training in National Education Policy 2020 | | |
| Introduction of New courses in Thrust areas - Industrial IoT, Computer Science and Design | | |
| Formative Assessment for one of the courses in III Sem as a pilot project Implementation of NEP from 2021-22 Academic Year | | |
| Submission of Compliance report to NBA for three Programmes - Chemical Engineering, Electrical and Electronics Engineering and Information Science & Engineering. | | |
| Nodal team to implement the SoP of CoVID19 during pandemic and constitution of Total Quality Management Team to ensure quality of online teaching. | | |
| 12.Plan of action chalked out by IQAC at the beginning of the academic year towards quality enhancement and the outcome achieved by the end of the academic year: | | |
| Plan of Action | Achievements/Outcomes | |
| Submission of AQAR for the year 2020-21 | AQAR for the academic year 2020-21 was submitted on 07.09.2022. | |
| NIRF 2021 Ranking | Participated in NIRF 2021 | |
| AICTE Approval Process and approval for introduction of two | Extension of Approval was received from AICTE. Got | |

| | |
|---|---|
| new courses Industrial IoT, Computer Science and Design | approval from AICTE to start new courses from 2021-22. |
| Visvesvaraya Technological University Affiliation Process | The details for Visvesvaraya Technological University affiliation were submitted and the affiliation order was received |
| Submission of Compliance report to NBA for three Programmes - Chemical Engineering, Electrical and Electronics Engineering and Information Science & Engineering. | Got NBA accreditation letter and accreditation was granted for three years, 2022-23 to 2024-25 |
| Constitution of Innovation, Incubation and Entrepreneurship Council | Students were motivated to carry out innovative projects. More than 65 innovative projects have been carried out by the students. |
| Introduction of Ability Enhancement Courses | 4 weeks Intra-Institutional Internships to all I year students. |
| Faculty training | Faculty members are trained to use digital technologies, various platforms available to handle online classes |
| National Innovation and Start-up Policy | Policy was drafted as per the guidelines of Ministry of Education and uploaded in NISP Portal |
| Institute Innovation Council (IIC) - conduction of activities as per the calendar of Innovation Cell of Ministry of Education | Conducted all the activities and uploaded all the reports in the IIC portal and obtained 4 star rating. |
| 13. Was the AQAR placed before the statutory body? | Yes |
| <ul style="list-style-type: none"> Name of the statutory body | |

| | |
|--|--------------------|
| Name of the statutory body | Date of meeting(s) |
| BoG | 11/02/2023 |
| 14. Was the institutional data submitted to AISHE ? | Yes |
| <ul style="list-style-type: none"> Year | |
| Year | Date of Submission |
| 2021-22 | 23/01/2023 |
| 15. Multidisciplinary / interdisciplinary | |
| <p>MVJCE is autonomous from 2019-20 and has the flexibility to design its own curriculum. It is planned to implement NEP 2020 Page 8/73 01-10-2022 06:43:36 Annual Quality Assurance Report of MVJ COLLEGE OF ENGINEERING from 2021-22. The multidisciplinary courses introduced to all the students are Management and Entrepreneurship, Constitution of India and Professional Ethics, Universal Human values and Environmental sciences. IQAC of MVJCE is very keen on implementing Multidisciplinary/Interdisciplinary education. Students are encouraged to do multidisciplinary projects (major/minor/course) and mentors have been allocated to them from their respective disciplines. The concept of Major and Minor is introduced from 2021-22 and regulations are drafted for this purpose. Ability Enhancement Courses are introduced from 2021 curriculum for all the students from I year as per NEP guidelines.</p> | |
| 16. Academic bank of credits (ABC): | |
| <p>The college has registered in National Academic Depository and we are in the process of uploading all the required documents. However, the implementation is possible only after obtaining guidelines from the affiliating Visvesvaraya Technological University.</p> | |
| 17. Skill development: | |
| <p>MVJCE has been conducting various skill Development courses for its students. The following skill development courses have been conducted in 2021-22. Apart from this Skill Development courses are offered under 11 verticals and Intra-Institutional Internships were provided to all I-year students.</p> <p>Ability Enhancement Courses for Skill Development:</p> | |

- 1.Idea Box
- 2.Tomorrow's Engineers
- 3.Foundation Skills in Integrated Product Development
- 4.Astronomy Club
- 5.CNC
- 6.IOT
7. Robotics & Industrial Automation
- 8.Software Development
- 9.UAV
- 10.Tinkering Lab
- 11.LabVIEW

We have also included 11 credits for Ability Enhancement courses to develop skills of students in 2021 Autonomous Curriculum.

18.Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course)

We have Ek Bharat Shreshtha Bharat (EBSB) Cell in our college. Ek Bharat Shreshtha Bharat programme aims to enhance interaction & promote mutual understanding between people of different states/UTs through the concept of state/UT pairing. We are mapped to uttarakhand state. students came to know different religions present in Uttarakhand. Students came to know about various Arts and Crafts in Uttarakhand. They came to know about the art style called 'Aipan' which is the main attraction of Art in the state. It helps students to know the culture and tradition followed in other states.

Students actively participate in Yoga, Holistic Health, Painting, Music (Vocal), Music (Instrumental), Film Making, entrepreneurial development etc. Our Institution organises intra and inter college events to promote these events.

19.Focus on Outcome based education (OBE):Focus on Outcome based education (OBE):

All programs are defined according to expected outcomes of Graduates, as defined by National Board of Accreditation guidelines.

This involves identifying Course Outcomes and Program Outcomes, while revising the curriculum.

The Examination questions framed are based on Bloom's Taxonomy of cognitive processes for all our assessment methods including Internal and EndSemester Examinations, value added courses, entrepreneur programs, Internships, projects, Viva-Voce, Assignments etc., Faculty members and students regularly adopt the Outcome Based Education Framework (OBE) and carry out many innovations in teaching-learning practices and assessment. The attainment of Course Outcomes is calculated for all the courses and program attainment is also calculated. The feedback is taken from all the stakeholders through survey forms and analysis and is analysed for continuous improvement. The skill sets of students are analyzed and improved through various activities like seminars, lecture sessions, workshops, industrial visits, internships, course projects, etc., The curriculum is framed according to the industry requirements to make students employable. The IQAC sets the target level for all the courses. The measurement of Course Outcome attainment and Program outcome attainment are analyzed further and appropriate actions are taken for continuous improvement.

20.Distance education/online education:

MVJCE is not offering Distance education or online education. During pandemic, online classes were conducted using Microsoft Teams. The various online tools like Virtual labs, Webex tools, open source tools, and software were used for online teaching and learning.

MVJCE encourages students to learn courses through online mode. Faculty follow the methods of teaching and learning practices such that it is learner centric. Faculty members regularly use number of prominent ICT tools,, Virtual lab practical, etc., In 2021 Autonomous Curriculum, the certification courses (online/offline) and MOOC courses are given 3 credits.

Extended Profile

1.Programme

1.1

18

Number of programmes offered during the year:

| File Description | Documents |
|---|---------------------------|
| Institutional Data in Prescribed Format | View File |

2.Student2.1 **3816**

Total number of students during the year:

| File Description | Documents |
|---|---------------------------|
| Institutional data in Prescribed format | View File |

2.2 **944**

Number of outgoing / final year students during the year:

| File Description | Documents |
|---|---------------------------|
| Institutional Data in Prescribed Format | View File |

2.3 **3816**

Number of students who appeared for the examinations conducted by the institution during the year:

| File Description | Documents |
|---|---------------------------|
| Institutional Data in Prescribed Format | View File |

3.Academic3.1 **919**

Number of courses in all programmes during the year:

| File Description | Documents |
|---|---------------------------|
| Institutional Data in Prescribed Format | View File |

3.2 **226**

Number of full-time teachers during the year:

| Extended Profile | |
|---|---------------------------|
| 1.Programme | |
| 1.1 Number of programmes offered during the year: | 18 |
| File Description | Documents |
| Institutional Data in Prescribed Format | View File |
| 2.Student | |
| 2.1 Total number of students during the year: | 3816 |
| File Description | Documents |
| Institutional data in Prescribed format | View File |
| 2.2 Number of outgoing / final year students during the year: | 944 |
| File Description | Documents |
| Institutional Data in Prescribed Format | View File |
| 2.3 Number of students who appeared for the examinations conducted by the institution during the year: | 3816 |
| File Description | Documents |
| Institutional Data in Prescribed Format | View File |
| 3.Academic | |
| 3.1 Number of courses in all programmes during the year: | 919 |
| File Description | Documents |
| Institutional Data in Prescribed Format | View File |

| | |
|--|---------------------------|
| 3.2 | 226 |
| Number of full-time teachers during the year: | |
| File Description | Documents |
| Institutional Data in Prescribed Format | View File |
| 3.3 | 226 |
| Number of sanctioned posts for the year: | |
| 4.Institution | |
| 4.1 | 605 |
| Number of seats earmarked for reserved categories as per GOI/State Government during the year: | |
| 4.2 | 127 |
| Total number of Classrooms and Seminar halls | |
| 4.3 | 1126 |
| Total number of computers on campus for academic purposes | |
| 4.4 | 1264 |
| Total expenditure, excluding salary, during the year (INR in Lakhs): | |

Part B

CURRICULAR ASPECTS

1.1 - Curriculum Design and Development

1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which are reflected in Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the various Programmes offered by the Institution.

All the courses that have been developed by MVJCE have relevance to local, national and global developmental needs. Every department has a Board of Studies (BoS) comprising the Faculty and external Subject Experts (from Academia and Industry), who, after deliberations, approve the syllabus of every course. Every programme presents the Programme Outcomes, Programme Specific Outcomes, and Course Outcomes of each course. Additionally,

each course/subject of any given programme carries a Course Objective that unfolds the learning outcome for that course. The Board of Studies of each department oversees the relevancy and requirements of any course in the programmes that the department offers. As members of the BoS meet every year without fail, the BoS revises courses if needed, considering the academic trends, and market or industry requirements. Though minor revision is a continuous practice, any major revision is done mostly after the completion of the duration of a programme. Every department has a wide range of domain-based special interest groups to carry out Research and Development activities that are pertinent to the industrial and socio-environmental spectrums, for local, regional, national and global developments. There are several courses in different programmes which enable students to analyze the local and regional needs, and provide solution based on the engineering / science / management knowledge that they have acquired. At the same time, this opportunity also gives the students a real-life experience.

| File Description | Documents |
|---------------------------------------|---|
| Upload additional information, if any | View File |
| Link for additional information | https://www.mvjce.edu.in/autonomous-scheme-and-syllabus |

1.1.2 - Number of Programmes where syllabus revision was carried out during the year

13

| File Description | Documents |
|--|---------------------------|
| Minutes of relevant Academic Council/BOS meeting | View File |
| Details of syllabus revision during the year | View File |
| Any additional information | View File |

1.1.3 - Number of courses focusing on employability/entrepreneurship/ skill development offered by the Institution during the year

854

| File Description | Documents |
|---|---------------------------|
| Curriculum / Syllabus of such courses | View File |
| Minutes of the Boards of Studies/ Academic Council meetings with approval for these courses | View File |
| MoUs with relevant organizations for these courses, if any | No File Uploaded |
| Any additional information | View File |

1.2 - Academic Flexibility

1.2.1 - Number of new courses introduced across all programmes offered during the year

755

| File Description | Documents |
|---|---------------------------|
| Minutes of relevant Academic Council/BoS meetings | View File |
| Any additional information | View File |
| Institutional data in prescribed format (Data Template) | View File |

1.2.2 - Number of Programmes offered through Choice Based Credit System (CBCS)/Elective Course System

18

| File Description | Documents |
|--|---------------------------|
| Minutes of relevant Academic Council/BoS meetings | View File |
| Any additional information | View File |
| List of Add on /Certificate programs (Data Template) | View File |

1.3 - Curriculum Enrichment

1.3.1 - Institution integrates cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability, and Human Values into the curriculum

MVJ College of Engineering strongly believes in integrating Page

15/73 01-10-2022 06:43:36 Annual Quality Assurance Report of MVJ COLLEGE OF ENGINEERING cross-cutting issues with a view to ensuring the holistic development of students. The Institute has left no stone unturned, to create a healthy and harmonious working environment with respect to issues related to Gender, Environment and Sustainability, Human values and Professional Ethics, all of which are included in the curriculum. Professional Ethics: The courses that integrate Professional Ethics are 'Constitution of India, Professional Ethics and Cyber Law'. This helps students identify their individual role and ethical responsibility towards society, and to understand human rights and their implications.

Gender:

Boys and Girls are given equal preference in all aspects such as admission, training and placement activities and all Curricular and Extra-Curricular Activities.

Women Empowerment Cell is developed to increase social, economic and intellectual capacities for peace, security and prosperity of mankind.

Environment and Sustainability:

Subjects like Environmental Studies are offered to all 3rd year students in all the Engineering branches. 6th semester students are offered open elective subjects such as Process Wastewater Management, Solid Waste Management in Process Industry, Occupational Health and Safety, Renewable Energy System and NonConventional Energy Sources - all of these impart knowledge related to Environment and Sustainability. Universal Human values (UHV) is a two-credit course offered at the II-year level for all the students. It provides the essential guidelines for human conduct and human society.

| File Description | Documents |
|---|---------------------------|
| Upload the list and description of the courses which address issues related to Gender, Environment and Sustainability, Human Values and Professional Ethics in the curriculum | View File |
| Any additional information | View File |

1.3.2 - Number of value-added courses for imparting transferable and life skills offered

during the year

178

| File Description | Documents |
|--|---------------------------|
| List of value-added courses | View File |
| Brochure or any other document relating to value-added courses | View File |
| Any additional information | No File Uploaded |

1.3.3 - Number of students enrolled in the courses under 1.3.2 above

4101

| File Description | Documents |
|----------------------------|---------------------------|
| List of students enrolled | View File |
| Any additional information | View File |

1.3.4 - Number of students undertaking field work/projects/ internships / student projects

2740

| File Description | Documents |
|---|---------------------------|
| List of programmes and number of students undertaking field projects / internships / student projects | View File |
| Any additional information | View File |

1.4 - Feedback System

1.4.1 - Structured feedback and review of the syllabus (semester-wise / year-wise) is obtained from 1) Students 2) Teachers 3) Employers and 4) Alumni **A. All 4 of the above**

| File Description | Documents |
|---|---|
| Provide the URL for stakeholders' feedback report | https://www.mvjce.edu.in/feedback |
| Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management | View File |
| Any additional information | View File |

1.4.2 - The feedback system of the Institution comprises the following

A. Feedback collected, analysed and action taken made available on the website

| File Description | Documents |
|---|---|
| Provide URL for stakeholders' feedback report | https://www.mvjce.edu.in/feedback |
| Any additional information | View File |

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment of Students

2.1.1.1 - Number of students admitted (year-wise) during the year

1074

| File Description | Documents |
|---|---------------------------|
| Any additional information | View File |
| Institutional data in prescribed format | View File |

2.1.2 - Number of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.) as per the reservation policy during the year (exclusive of supernumerary seats)

521

| File Description | Documents |
|---|---------------------------|
| Any additional information | View File |
| Number of seats filled against seats reserved (Data Template) | View File |

2.2 - Catering to Student Diversity

2.2.1 - The institution assesses students' learning levels and organises special programmes for both slow and advanced learners.

Based on their CIE & SEE performance in the subjects, students are classified into two groups - advanced learners and slow learners.

After the completion of each CIE, the student who secures good scores in each subject is identified as an advanced learner. And every year, semester toppers and university rank holders are honored with certificates and cash prizes during Founder's Day. Students are continuously motivated to appear in competitive examinations - GATE, GRE etc. - and the necessary support is provided to them. Advanced learners are given opportunities to be part of innovative projects and other technical initiatives of the institute. They are given the opportunity to participate in Hackathons, Paper Presentations, Project Competitions, and participate in Summer Projects and Internships. They also help slow learners through peer learning.

Through a mentor-mentee system also all kinds of support are provided to the slow learners. The strenuous efforts taken by the faculty towards the slow learners has resulted in students' understanding in their chosen domain, improved results, and pass percentage. The mentor takes extra effort to understand the socio-economic backgrounds also which is sometimes a reason for poor performance. Parents of students are informed in case of poor academic performance and psycho-social problems whenever necessary.

| File Description | Documents |
|---------------------------------------|---|
| Upload any additional information | View File |
| Paste link for additional information | https://mvjce.edu.in/founders-day-2022/ |

2.2.2 - Student – Teacher (full-time) ratio

| Year | Number of Students | Number of Teachers |
|------------|--------------------|--------------------|
| 06/12/2021 | 3816 | 226 |

| File Description | Documents |
|-----------------------------------|---------------------------|
| Upload any additional information | View File |

2.3 - Teaching- Learning Process

2.3.1 - Student-centric methods such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences:

Student learning is enhanced by adopting approaches/methods such as the organizing of seminars, conferences, and special lectures. Challenging assignments and projects are given to the students to hone their intellectual caliber and sharpen their inquisitiveness. Study material and periodic assignments are also made available to the students.

The Institute focuses on student-centric methods to enhance the lifelong learning skills of students. Faculty members take efforts in making the learning activity highly interactive, by adopting the following student-centric methods.

1. **Experiential Learning:** Every department conducts add-on programmes to support students in their experiential learning. The Institution adopts the following experiential learning practices to enhance the creativity and cognitive levels of the students
2. **Participatory Learning:** In this type of learning, students participate in various activities such as seminars and group discussions. Students are encouraged to participate in activities where they can use their specialized technical or management skills. These activities include: Annual Tech Fest , Seminar Presentations , Presentation and publishing of Papers in Conferences and Journals
3. **Problem-solving methods:** Departments encourage students to acquire and develop problem-solving skills. Towards this end, the College organizes expert lectures on various topics, motivates students to join NPTEL & MOOC courses, and participate in various inter-college and intra-college technical fests and other competitions. The following activities foster problem-solving skills in students:
 - Regular Case study-based Assignments
 - Creation of innovative Projects
 - Regular participation in Technical Quizzes

| File Description | Documents |
|-----------------------------------|---|
| Upload any additional information | View File |
| Link for additional Information | https://mvjce.edu.in/category/achievements/ |

2.3.2 - Teachers use ICT-enabled tools including online resources for effective teaching and learning

MVJCE constantly upgrades its IT facilities to help make learning more creative, innovative and informative. The entire campus is enabled with Wi-Fi facility with a bandwidth of 1.2 GBps. Classrooms are equipped with LCD projection systems, Screens and Green Boards. Students use an online public Access Catalogue which includes a Digital Library, Bibliography, E-Journals, E-Books and E- Databases. Students and faculty members can access e-books, e-resources through DELNET, VTU - Consortia. In addition to the chalk-and-talk method of teaching, the faculty members are using ICT-enabled learning tools such as PPT, Video clippings, Audio system, online resources, MOOC and NPTEL videos, to expose the students to advanced knowledge and practical learning. There is a major emphasis is on classroom interaction in terms of research paper presentations, seminars, group discussions, assignments, quiz/tests/viva-voce and laboratory work.

LIST OF ICT TOOLS USED BY TEACHERS

1. Smart classroom
2. Seminar Halls
3. Computer-assisted learning
4. Webex online classroom
5. Microsoft Teams online classroom
6. LMS materials available on the College website
7. E-book and E-Journal facilities available in library
8. NPTEL and IIT-Bombay Spoken Tutorial online classes

| File Description | Documents |
|--|---|
| Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process | https://mvjce.edu.in/video-lectures/ |
| Upload any additional information | View File |

2.3.3 - Ratio of students to mentor for academic and other related issues

2.3.3.1 - Number of mentors

226

| File Description | Documents |
|---|---------------------------|
| Upload year-wise number of students enrolled and full-time teachers on roll | View File |
| Circulars with regard to assigning mentors to mentees | View File |

2.3.4 - Preparation and adherence to Academic Calendar and Teaching Plans by the institution

Adherence to Academic Calendar: At the commencement of every academic year, the College announces the academic calendar. The academic calendar provides the date of commencement of the academic session, duration of the semesters, dates of internal assessment tests, final semester examinations and government holidays. The academic calendar helps students and faculty members to get full visibility of events on the campus during the year.

Teaching Plans:

The teaching plan is prepared by each department, under the guidance of the Department Advisory Committee (DAC) and Internal Quality Assurance Cell (IQAC).

Once the academic schedule is prepared, the subject allocation is done as per the following procedure.

- Heads of the departments conduct meetings with their respective faculty well in advance, before the commencement of the semester, and allocate subjects to the faculty.
- Once subject allocation is finalized, the Timetable is

prepared and circulated to the faculty. It is displayed on the notice board after the approval of the Principal, Vice-Principal and Head of the Department.

- The number of hours for each course is decided, depending on the credits of that particular course. The effective implementation of the lesson and lecture schedule is monitored by the Head of the Department and TQM Members.

| File Description | Documents |
|---|---------------------------|
| Upload the Academic Calendar and Teaching Plans during the year | View File |

2.4 - Teacher Profile and Quality

2.4.1 - Number of full-time teachers against sanctioned posts during the year

226

| File Description | Documents |
|--|---------------------------|
| Year-wise full-time teachers and sanctioned posts for the year | View File |
| List of the faculty members authenticated by the Head of HEI | View File |
| Any additional information | View File |

2.4.2 - Number of full-time teachers with PhD/ D.M. / M.Ch. / D.N.B Super-Specialty / DSc / DLitt during the year

67

| File Description | Documents |
|---|---------------------------|
| List of number of full-time teachers with PhD./ D.M. / M.Ch. / D.N.B Super-Specialty / D.Sc. / D.Litt. and number of full-time teachers for 5 years | View File |
| Any additional information | View File |

2.4.3 - Total teaching experience of full-time teachers in the same institution: (Full-time teachers' total teaching experience in the current institution)

882

| File Description | Documents |
|---|---------------------------|
| List of teachers including their PAN, designation, Department and details of their experience | View File |
| Any additional information | View File |

2.5 - Evaluation Process and Reforms

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

18

| File Description | Documents |
|--|---------------------------|
| List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result | View File |
| Any additional information | View File |

2.5.2 - Number of students' complaints/grievances against evaluation against the total number who appeared in the examinations during the year

0

| File Description | Documents |
|---|------------------|
| Upload the number of complaints and total number of students who appeared for exams during the year | No File Uploaded |
| Upload any additional information | No File Uploaded |

2.5.3 - IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA) have brought in considerable improvement in the Examination Management System (EMS) of the Institution

University guidelines have been strictly adhered to, with respect to examination procedures and the evaluation process. Three internal tests are conducted. The schedules of internal assessments are communicated to students and faculty at the beginning of the semester, through the academic calendar which is prepared based on the VTU academic calendar.

A week before the commencement of the internal exam, the timetable

is displayed on the notice board. Questions are framed such that they adhere to VTU standards. It follows Bloom's Taxonomy and Outcome-based Education. The subject-handling faculty prepares a question bank that covers an equal number of questions from each module, and the question paper is set by the senior faculty of the department/course coordinator

MVJCE has a well-established and efficient examination management system, where processes related to the conducting of examinations, declaration of results and awarding of degrees are controlled and monitored by the Controller of Examinations. The office of the COE organizes various meetings with the Principal, Vice-Principal and Registrar, for smooth functioning of the examination system.

| File Description | Documents |
|---------------------------------------|---|
| Upload any additional information | View File |
| Paste link for additional Information | https://mvjce.edu.in/exam-notificationtimetable-and-application/ |

2.6 - Student Performance and Learning Outcomes

2.6.1 - Programme Outcomes and Course Outcomes for all Programmes offered by the institution are stated and displayed on the website and communicated to teachers and students

Every effort is made to ensure that the Course Outcomes, Programme Outcomes and Programme Specific Outcomes are communicated effectively to all stakeholders, namely students, faculty, parents, industry, regulating authorities, alumni, management etc.

MVJCE follows the Programme Outcomes (POs) defined by the National Board of Accreditation (NBA), and these are to be fulfilled by all the programmes. The Course Outcomes (COs) for each subject are available in the syllabus, and are defined by the concerned faculty member (in consultation with other faculty teaching the same subject) and HOD, and approved in the BOS meeting. Learning Outcomes of the Programmes and Courses are observed and measured periodically by IQAC.

The POs, PSOs and COs are available on the College website. Moreover, they are available at the following places too, for the benefit of students, teachers and other staff:

1. College website
2. On department notice boards and laboratories

3. Department Newsletter, Magazine, Brochures and prospectus
4. Lab manuals
5. Disseminated in Placement training programmes
6. Disseminated during student seminars and orientation programmes
7. Department Handbook
8. Survey Forms
9. Academic Calendar
10. Internal Answer Booklets
11. Syllabus Book

Students also get to know the COs, POs and PSOs through faculty announcements during the beginning of each semester, and from time to time during the entire semester

| File Description | Documents |
|--|---|
| Upload COs for all courses (exemplars from the Glossary) | View File |
| Upload any additional information | View File |
| Link for additional Information | https://mvjce.edu.in/about/ |

2.6.2 - Attainment of Programme Outcomes and Course Outcomes as evaluated by the institution

Method of assessment of POs:

Programme Outcomes are assessed with the help of Course Outcomes of the relevant courses, through direct and indirect methods. Direct methods are provided through direct examinations or observations of student knowledge or skills against measurable Course Outcomes. The knowledge and skills described by the Course Outcomes are mapped to specific problems on semester-end examinations, internal exams, and home assignments. The performance of students in different assessments of CIE and SEE are evaluated for the attainment of COs. The attainment calculation is based on the mappings between CO and PO. Finally, Program Outcomes are assessed, and the Program Assessment Committee concludes the PO attainment level.

The weightage given for direct assessment is 80% and indirect assessment is 20%.

- Direct methods gauge the students' knowledge and skills from their performance in the continuous internal assessment tests, semester examinations, seminars, laboratory assignments etc. These methods provide a sampling of what students know and/or can do, and provide strong evidence of student learning.
- Target levels of attainment of Course Outcomes (COs) are set; Course is delivered; actual attainment of COs is determined using internal assessment 1, 2, 3 and SEE.
- Indirect methods such as surveys ask the stakeholders to reflect on the student's learning.
- Target levels of attainment of POs and PSOs are set and attained.

| File Description | Documents |
|---------------------------------------|---------------------------|
| Upload any additional information | View File |
| Paste link for additional Information | 2.6.2.pdf |

2.6.3 - Pass Percentage of students

2.6.3.1 - Total number of final year students who passed in the examinations conducted by Institution

944

| File Description | Documents |
|---|---|
| Upload list of Programmes and number of students appear for and passed in the final year examinations | View File |
| Upload any additional information | View File |
| Paste link for the annual report | https://sgeio-my.sharepoint.com/:b:/g/personal/jeeva_b_mvjce_edu_in1/EUh6GD6LkP1Bm1-DnyobAmwBer1TsHa-jSf5EUtM8Os_Pw?e=13Ihpm |

2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire). Results and details need to be provided as a weblink

<https://mvjce.edu.in/wp-content/uploads/2023/05/Student->

[Satisfaction-Survey-2021-2022.pdf](#)

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Promotion of Research and Facilities

3.1.1 - The institution's research facilities are frequently updated and there is a well-defined policy for promotion of research which is uploaded on the institutional website and implemented

The Research & Development Cell of MVJCE facilitates and encourages research culture among the faculty and students. It enables a congenial and conducive environment for technological development, providing all the infrastructural facilities and monitoring the research activities of faculty and students. The R&D Cell is functioning under the guidance of Dr. V. Bhujanga Rao. Faculty are encouraged to apply to various funding agencies and pursue their research. The Institute also provides seed funding or partial funding, based on the merit of the proposals submitted by faculty or student. The college has formulated a R & D policy to promote R & D amongst faculty. The R & D cell meets every fortnight to discuss the funding proposals to be submitted to various funding agencies. The R&D Cell takes upon itself the responsibility of creating a workplace that can attract the best talent, and strives continuously to pool the skills and internal resources and create strategy, overcoming limitations. The Institute encourages the faculty by providing incentives for peer-reviewed publications in SCI indexed journals, writing books and filing patents. The Institute takes care of the patent filing process, which is governed by the IPR Cell of the Institute. Six of our Research Centers are recognized by Visvesvaraya Technological University, and fulltime research scholars are allotted by the University to pursue their research work in these Centres under the guidance of the College faculty.

| File Description | Documents |
|--|---|
| Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption | View File |
| Provide URL of policy document on promotion of research uploaded on the website | https://mvjce.edu.in/research-and-development |
| Any additional information | No File Uploaded |

3.1.2 - The institution provides seed money to its teachers for research**3.1.2.1 - Seed money provided by the institution to its teachers for research during the year (INR in lakhs)**

0.426

| File Description | Documents |
|---|---------------------------|
| Minutes of the relevant bodies of the institution regarding seed money | View File |
| Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized | View File |
| List of teachers receiving grant and details of grant received | View File |
| Any additional information | View File |

3.1.3 - Number of teachers who were awarded national / international fellowship(s) for advanced studies/research during the year

1

| File Description | Documents |
|---|---------------------------|
| e-copies of the award letters of the teachers | View File |
| List of teachers and details of their international fellowship(s) | View File |
| Any additional information | No File Uploaded |

3.2 - Resource Mobilization for Research**3.2.1 - Grants received from Government and Non-Governmental agencies for research projects, endowments, Chairs during the year (INR in Lakhs)**

45.10505

| File Description | Documents |
|--|---------------------------|
| e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations | View File |
| List of projects and grant details | View File |
| Any additional information | No File Uploaded |

3.2.2 - Number of teachers having research projects during the year

22

| File Description | Documents |
|---|---------------------------|
| Upload any additional information | View File |
| Paste link for additional Information | Nil |
| List of research projects during the year | View File |

3.2.3 - Number of teachers recognised as research guides

21

| File Description | Documents |
|---|---------------------------|
| Upload copies of the letter of the university recognizing teachers as research guides | View File |
| Institutional data in Prescribed format | View File |

3.2.4 - Number of departments having research projects funded by Government and Non-Government agencies during the year

9

| File Description | Documents |
|---|---|
| Supporting document from Funding Agencies | View File |
| Paste link to funding agencies' website | https://www.aicte-india.org/ : https://www.drdo.gov.in/aeronautics-research-development/rules-grants-introductions : https://www.kscst.org.in/spp.html : http://www.iiche-bbsr.org/ : https://aicte-india.org/sites/default/files/SPICES%20advertisement%20for%20Announcement.pdf : http://www.vgst.in/ : https://nif.org.in/ : https://vtu.ac.in/en/administration/circular-financial-assistance-for-innovative-projects-for-final-year-under-graduate-students-for-the-year-2021-22/ |
| Any additional information | View File |

3.3 - Innovation Ecosystem

3.3.1 - Institution has created an ecosystem for innovations and creation and transfer of knowledge supported by dedicated centres for research, entrepreneurship, community orientation, incubation, etc.

The Institution has created an ecosystem for innovation, including incubation centres and other initiatives, for the creation and transfer of knowledge. Faculty members are empowered to take up research activities, utilizing the facilities available at the Institute. The Research and Development Cell of the College motivates the faculty members to write feasibility studies and research projects, and get funding from various funding agencies like DRDO, DST, AICTE, DBT, KSCST, VGST etc, It also helps to create a research culture among faculty members and students. The Entrepreneur Development Cell (EDC) at MVJCE initiated various activities and training programmes for the career enhancement of students. EDC created a platform like IDEABOX, for students to share their research perspectives/ideas. The Institute also has an active Industry Institute Partnership Cell (IIPC), which helps to bridge the gap between industry and academics by organizing various events like skill development programmes, Industry-Academia meets, guest lectures etc. Awareness programmes of various schemes under Karnataka State Small Industry Development Corporation, Digital India, and Make in India were also conducted under the auspices of the IIPC. The Institution has a well-established and vibrant Institute Innovation Council (IIC) which strengthens other cells such as EDC, Idea Box, IIPC, Tomorrow's

Engineers, FSIPD, and Tinkering Lab. The well-established IPR cell at MVJCE guides both faculty and students on Intellectual Property Rights, and also guides them in filing patents with financial support.

| File Description | Documents |
|---------------------------------------|---|
| Upload any additional information | View File |
| Paste link for additional information | https://mvjce.edu.in/iic-dept/ |

3.3.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year

88

| File Description | Documents |
|--|---------------------------|
| Report of the events | View File |
| List of workshops/seminars conducted during the year | View File |
| Any additional information | No File Uploaded |

3.4 - Research Publications and Awards

3.4.1 - The Institution ensures implementation of its Code of Ethics for Research uploaded in the website through the following: Research Advisory Committee Ethics Committee Inclusion of Research Ethics in the research methodology course work Plagiarism check through authenticated software

A. All of the above

| File Description | Documents |
|--|---------------------------|
| Code of Ethics for Research, Research Advisory Committee and Ethics Committee constitution and list of members of these committees, software used for plagiarism check | View File |
| Any additional information | View File |

3.4.2 - Number of PhD candidates registered per teacher (as per the data given with regard to recognized PhD guides/ supervisors provided in Metric No. 3.2.3) during the year

3.4.2.1 - Number of PhD students registered during the year

3

| File Description | Documents |
|--|---------------------------|
| URL to the research page on HEI website | Nil |
| List of PhD scholars and details like name of the guide, title of thesis, and year of registration | View File |
| Any additional information | View File |

3.4.3 - Number of research papers per teacher in CARE Journals notified on UGC website during the year

268

| File Description | Documents |
|---|---------------------------|
| List of research papers by title, author, department, and year of publication | View File |
| Any additional information | View File |

3.4.4 - Number of books and chapters in edited volumes / books published per teacher during the year

11

| File Description | Documents |
|---------------------------------------|---------------------------|
| Upload any additional information | View File |
| Paste link for additional information | Nil |

3.4.5 - Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed**3.4.5.1 - Total number of Citations in Scopus during the year**

610

| File Description | Documents |
|---|---------------------------|
| Any additional information | View File |
| Bibliometrics of the publications during the year | View File |

3.4.6 - Bibliometrics of the publications during the year based on Scopus/ Web of Science – h-Index of the University

3.4.6.1 - h-index of Scopus during the year

21

| File Description | Documents |
|--|---------------------------|
| Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution | View File |
| Any additional information | View File |

3.5 - Consultancy

3.5.1 - Revenue generated from consultancy and corporate training during the year (INR in lakhs)

17.803

| File Description | Documents |
|--|---------------------------|
| Audited statements of accounts indicating the revenue generated through consultancy and corporate training | View File |
| List of consultants and revenue generated by them | View File |
| Any additional information | View File |

3.5.2 - Total amount spent on developing facilities, training teachers and clerical/project staff for undertaking consultancy during the year

17

| File Description | Documents |
|---|---------------------------|
| Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy | View File |
| List of training programmes, teachers and staff trained for undertaking consultancy | View File |
| List of facilities and staff available for undertaking consultancy | View File |
| Any additional information | No File Uploaded |

3.6 - Extension Activities

3.6.1 - Extension activities carried out in the neighbourhood sensitising students to social issues for their holistic development, and the impact thereof during the year

The College is taking up various initiatives to improve the quality of life of the people living in the surrounding neighborhoods. It is mandatory for all our students to play a role in representing various social issues through parallel activities in various student clubs. The student volunteers visit neighboring localities and conduct various activities, regularly. The basics of computer and computer programs such as C, C++, JAVA, MS office etc. are taught to the children in rural areas. Our NSS unit created awareness among these people, of the harmful effects of plastic on the environment, to make our surroundings plastic-free. The NSS unit conducted awareness sessions on COVID-19 in the nearby villages, and distributed food, masks and sanitizers at the peak of the pandemic. Our students are also helping the local school to achieve good results, encouraging these kids to take up technical education. Our students are doing a lot for the overall benefit of the society, fulfilling their responsibility towards the world around them. All these activities have a positive impact on the students too, it has developed student-community relationships, and embellished their leadership skills and self-confidence. It has brought out a hitherto unknown side of our students.

| File Description | Documents |
|---------------------------------------|---|
| Upload any additional information | View File |
| Paste link for additional information | https://mvjce.edu.in/nss |

3.6.2 - Number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government-recognised bodies during the year

550

| File Description | Documents |
|--|---------------------------|
| Number of awards for extension activities in during the year | View File |
| e-copy of the award letters | View File |
| Any additional information | No File Uploaded |

3.6.3 - Number of extension and outreach programmes conducted by the institution through NSS/NCC/Red Cross/YRC, etc. during the year (including Government-initiated programmes such as Swachh Bharat, AIDS Awareness, and Gender Sensitization and those organised in collaboration with industry, community and NGOs)

6

| File Description | Documents |
|---------------------------------|---------------------------|
| Reports of the events organized | View File |
| Any additional information | View File |

3.6.4 - Number of students participating in extension activities listed in 3.6.3 during the year

828

| File Description | Documents |
|----------------------------|---------------------------|
| Reports of the events | View File |
| Any additional information | View File |

3.7 - Collaboration

3.7.1 - Number of collaborative activities during the year for research/ faculty exchange/ student exchange/ internship/ on-the-job training/ project work

702

| File Description | Documents |
|--|---------------------------|
| Copies of documents highlighting collaboration | View File |
| Any additional information | View File |

3.7.2 - Number of functional MoUs with institutions of national and/or international importance, other universities, industries, corporate houses, etc. during the year (only functional MoUs with ongoing activities to be considered)

5

| File Description | Documents |
|---|---------------------------|
| e-copies of the MoUs with institution/ industry/ corporate house | View File |
| Details of functional MoUs with institutions of national, international importance, other institutions etc. during the year | View File |
| Any additional information | No File Uploaded |

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

4.1.1 - The Institution has adequate infrastructure and physical facilities for teaching-learning, viz., classrooms, laboratories, computing equipments, etc.

MVJCE has state of the art infrastructure, creating an environment for progressive learning and development. All classrooms are Wi-Fi enabled. Eight departments of MVJCE are VTU recognized research Centre wherein the students and faculties can carry out their project/research work.

During the pandemic period the online classes the academic activities remained unaffected. Classes were conducted in Microsoft Teams platform. The institution has Microsoft office 365 A1 plus licence and all students and faculties were provided with organizational account. All the classes conducted were recorded and recordings were uploaded in Streams where the students can access it anytime. Lab experiments were recorded and shared with the students during online class.

Apart from regular labs, we have R&D Labs, industry tie up laboratories like, Infosys campus connect lab, UAV lab, NI lab

etc. in order to fill the gap between the curriculum and industry. Labs are equipped with sufficient hardware and licensed software to run program specific curriculum and off program curriculum. Enough number of personal computers are available for the smooth conduction of the lab. The number and area of the classrooms and labs are as per the requirement specified by the statutory bodies.

The faculty innovations in teaching and learning are as follows.

1. Learning management system (LMS Modules)

LMS of MVJCE is a student centric learning facility for the students to refer the study materials anytime within the campus premises. It is a centralized source for study materials and slide based presentation for all the branches.

| File Description | Documents |
|---------------------------------------|---|
| Upload any additional information | View File |
| Paste link for additional information | https://mvjce.edu.in/teaching-and-learning |

4.1.2 - The institution has adequate facilities for cultural activities, yoga, sports and games (indoor and outdoor) including gymnasium, yoga centre, auditorium etc.)

Sports activities occupy a significant part of the college curriculum in MVJ College of engineering. The Physical Education Department of MVJCE is equipped with multitude of sports-centric facilities. These facilities are optimally utilised for training students and assisting them to remain fit through various sports activities. The campus houses full-fledged sports amenities for both indoor and outdoor sporting events.

The outdoor facilities include large playing fields for Cricket, Hockey, Football, Kabbady and Kho-Kho. The campus is equipped with dedicated space for basketball, Volleyball and Throw ball. There is a 200-metre athletic track available for the athletic events.

The indoor sport facility at MVJCE includes practice/training rooms for Wrestling, Judo, Table Tennis, Chess and Carrom. The Weight lifting and Power lifting training facility at our campus helped many students to win many university level and inter collegiate events.

We also host Dr. M.V Jayaraman memorial cricket tournament and Smt Raja Lakshmi Jayaraman inter collegiate volleyball tournament every year.

MVJCE also has a large well equipped indoor gymnasium facility, available for both the staff and students which include facilities for Weight Training and Cardio exercises. An experienced trainer will be available at the gymnasium to assist the users.

Practice of Yoga fosters harmony in the body, mind, and environment. The college organizes Yoga sessions frequently to create awareness on physical and mental well-being among the staff and students of MVJCE.

| File Description | Documents |
|---------------------------------------|---|
| Geotagged pictures | View File |
| Upload any additional information | View File |
| Paste link for additional information | https://mvjce.edu.in/sports |

4.1.3 - Number of classrooms and seminar halls with ICT-enabled facilities

127

| File Description | Documents |
|---|---------------------------|
| Upload any additional information | View File |
| Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template) | View File |

4.1.4 - Expenditure for infrastructure augmentation, excluding salary, during the year (INR in Lakhs)

321

| File Description | Documents |
|--|---------------------------|
| Upload audited utilization statements | View File |
| Details of Expenditure, excluding salary, during the years | View File |
| Any additional information | View File |

4.2 - Library as a Learning Resource

4.2.1 - Library is automated using Integrated Library Management System (ILMS)

Library is fully automated. All the library documents are bar-coded, and books are issued to users by reading the barcode of the document.

Since the Library is fully automated, the holdings of the Library could be searched using OPAC. The holdings include the books and Journals, syllabus, question papers and Project reports.

The library is member of the DELNET since last 5 years. It is being extensively used for ILL and searching the database of other member libraries

The library has become the member of the NDL to access the vast e-resources that are available on Delnet database

The library has the internet facility through which the e-resources could be accessed.

On an average around 1300 students make use of the libraryresources everyday.A register is maintained in order to know the number of users make use of the reference section. The Central Library is a member of the VTU E-Resources Consortia. The users of the library can access publications of all major publishers like Elsevier, Springer, ASCE, etc. The Central Library is also a member of DELNET which gives access to E-Books and 5000 full text E-journals both National and International

| File Description | Documents |
|---------------------------------------|---|
| Upload any additional information | View File |
| Paste link for additional information | https://mvjce.edu.in/library |

4.2.2 - Institution has access to the following: A. Any 4 or more of the above e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access to e-resources

| File Description | Documents |
|---|---------------------------|
| Details of subscriptions like e-journals, e-books, e-ShodhSindhu, Shodhganga membership | View File |
| Upload any additional information | View File |

4.2.3 - Expenditure on purchase of books/ e-books and subscription to journals/e-journals during the year (INR in lakhs)

41

| File Description | Documents |
|--|---------------------------|
| Audited statements of accounts | View File |
| Any additional information | View File |
| Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template) | View File |

4.2.4 - Usage of library by teachers and students (footfalls and login data for online access)

4.2.4.1 - Number of teachers and students using the library per day during the year

1341

| File Description | Documents |
|--|---------------------------|
| Upload details of library usage by teachers and students | View File |
| Any additional information | View File |

4.3 - IT Infrastructure

4.3.1 - Institution has an IT policy covering Wi-Fi, cyber security, etc. and has allocated budget for updating its IT facilities

LAN Facility

There are 38 data network switches (Giga byte),18 POE network

switches (Gb) for access points, CCTV cameras, Intercoms and 1 SOPHOS Cyberoam fire wall for content filtering for 2500 users simultaneously. 1.2 GBps of internet connectivity is shared across the campus

Server configurations in Data Centre

There are 14 servers with Xeon E-5 version-2, 32 GB RAM, 1.2 TB hard drive, student biometric server, faculty biometric server and application servers.

Storage server-2TB*5=10 TB

Back up device-3TB for critical server back up

Work station:

1240 desktops are provided to all the department labs with configurations of core i3 3Generation 4GB, 500 GB hard disk with LAN connectivity. 140 desktops with configurations of core i3 4GB, 500GB and dual core 250 GB, 2GB hard disk

Software:

850 genuine windows licenses, with window 7pro and windows XP. 375 Microsoft office standard and professional editions for departments are also available. We also use open source operating systems such as Fedora, Ubuntu and CentOS.

Wi-Fi:

69 Extendable Wi-Fi access points are placed in various places like Library, corridors, Labs, hostel, Canteen and outdoor. Wi-Fi access is provided to all the students which is monitored and controlled by SOPHOS Cyberoam fire wall at the IT department

| File Description | Documents |
|---------------------------------------|---|
| Upload any additional information | View File |
| Paste link for additional information | https://mvjce.edu.in/it-facilities |

4.3.2 - Student - Computer ratio

| | |
|--------------------|---------------------|
| Number of Students | Number of Computers |
| 3816 | 1126 |

| File Description | Documents |
|-----------------------------------|---------------------------|
| Upload any additional information | View File |

4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus **A. 750 Mbps**

| File Description | Documents |
|---|---------------------------|
| Details of bandwidth available in the Institution | View File |
| Upload any additional information | View File |

4.3.4 - Institution has facilities for e-content development: **D. Any one of the above**
Facilities available for e-content development Media Centre Audio-Visual Centre Lecture Capturing System (LCS) Mixing equipments and software for editing

| File Description | Documents |
|--|---|
| Upload any additional information | View File |
| Paste link for additional information | https://mvjce.edu.in/video-lectures |
| List of facilities for e-content development (Data Template) | View File |

4.4 - Maintenance of Campus Infrastructure**4.4.1 - Expenditure incurred on maintenance of physical and academic support facilities, excluding salary component, during the year (INR in lakhs)****871**

| File Description | Documents |
|-----------------------------------|---------------------------|
| Audited statements of accounts | View File |
| Upload any additional information | View File |

4.4.2 - There are established systems and procedures for maintaining and utilizing physical, academic and support facilities – classrooms, laboratory, library, sports complex, computers, etc.

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. A logbook is maintained for the same.

The college has various committees for maintenance and upkeep of infrastructure. Regular meetings of various committees constituted for this purpose meet regularly to discuss about the requirements which occur time to time.

The computers are maintained in the Institution by IT help desk. This division provides the integrated IT services like smooth running of automation, up-gradation and maintenance of automation package, college website, biometric services, troubleshooting of hardware, networking equipments including internet connectivity, procurement of hardware, software.

The equipment and machineries in the laboratory/workshop are maintained by the lab In-charge(s)/workshop In-Charge(s) with the advice of HOD.

The physical education department is facilitated by the physical directors to educate the students. The marker of the department makes the play field ready for the students, by marking the ground and providing the play kits.

| File Description | Documents |
|---------------------------------------|---|
| Upload any additional information | View File |
| Paste link for additional information | https://mvjce.edu.in/maintenance |

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefitted by scholarships and freeships provided by the Government during the year

2618

| File Description | Documents |
|---|---------------------------|
| Upload self-attested letters with the list of students receiving scholarships | View File |
| Upload any additional information | View File |

5.1.2 - Number of students benefitted by scholarships and freeships provided by the institution and non-government agencies during the year

237

| File Description | Documents |
|---|---------------------------|
| Upload any additional information | View File |
| Institutional data in prescribed format | View File |

5.1.3 - The following Capacity Development and Skill Enhancement activities are organised for improving students' capabilities Soft Skills Language and Communication Skills Life Skills (Yoga, Physical fitness, Health and Hygiene) Awareness of Trends in Technology

A. All of the above

| File Description | Documents |
|---|---|
| Link to Institutional website | https://mvjce.edu.in/events |
| Details of capability development and schemes | View File |
| Any additional information | View File |

5.1.4 - Number of students benefitted from guidance/coaching for competitive examinations and career counselling offered by the institution during the year

3816

| File Description | Documents |
|--|---------------------------|
| Any additional information | View File |
| Number of students benefitted by guidance for competitive examinations and career counseling during the year (Data Template) | View File |

5.1.5 - The institution adopts the following mechanism for redressal of students' grievances, including sexual harassment and ragging: Implementation of guidelines of statutory/regulatory bodies Creating awareness and implementation of policies with zero tolerance Mechanism for submission of online/offline students' grievances Timely redressal of grievances through appropriate committees

A. All of the above

| File Description | Documents |
|--|---------------------------|
| Minutes of the meetings of students' grievance redressal committee, prevention of sexual harassment committee and Anti-ragging committee | View File |
| Details of student grievances including sexual harassment and ragging cases | No File Uploaded |
| Upload any additional information | No File Uploaded |

5.2 - Student Progression

5.2.1 - Number of outgoing students who got placement during the year

751

| File Description | Documents |
|---------------------------------------|---------------------------|
| Self-attested list of students placed | View File |
| Upload any additional information | View File |

5.2.2 - Number of outgoing students progressing to higher education

40

| File Description | Documents |
|---|---------------------------|
| Upload supporting data for students/alumni | View File |
| Details of students who went for higher education | View File |
| Any additional information | View File |

5.2.3 - Number of students qualifying in state/ national/ international level examinations during the year

5.2.3.1 - Number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET/SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State government examinations) during the year

17

| File Description | Documents |
|--|---------------------------|
| Upload supporting data for students/alumni | View File |
| Any additional information | View File |

5.3 - Student Participation and Activities

5.3.1 - Number of awards/medals for outstanding performance in sports and/or cultural activities at inter-university / state /national / international events (award for a team event should be counted as one) during the year

32

| File Description | Documents |
|--|---------------------------|
| e-copies of award letters and certificates | View File |
| Any additional information | View File |

5.3.2 - Presence of an active Student Council and representation of students in academic and administrative bodies/committees of the institution

STUDENTS PARTICIPATION IN ACTIVITIES

The institution does not have any student council, but there are Clubs/Societies where students are a part of with the objective to make the students participate in the development of the institute as well as in the process to develop their personality, organizational skills, and career through interactive programs with the faculty, administration, and society.

ANTI-RAGGING COMMITTEE is 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, non-teaching staff, parents, and students.

STUDENT GRIEVANCE REDRESSAL COMMITTEE A redressal committee functions in the institution 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 and to resolve the issues impartially.

CLASS COMMITTEE is constituted in every department which is headed by the Head of the department and shall have two meetings in a semester to ensure the responsibilities set by the committee.

OTHER CLUBS DETAILS IQAC, EDC, Women Empowerment Cell, IIC, Sports Committee, Hostel Committee Health and Hygiene Club, Music Club, Dance Club, Theatre Club, IEEE, Student Chapter IETE Literary Club

| File Description | Documents |
|---------------------------------------|---|
| Upload any additional information | View File |
| Paste link for additional information | https://mvjce.edu.in/admissions/campus-life |

5.3.3 - Number of sports and cultural events / competitions organised by the institution

43

| File Description | Documents |
|--|---------------------------|
| Report of the event | View File |
| List of sports and cultural events / competitions organised per year | View File |
| Upload any additional information | View File |

5.4 - Alumni Engagement

5.4.1 - The Alumni Association and its Chapters (registered and functional) contribute significantly to the development of the institution through financial and other support services

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. Our Alumni Association works for the overall development of students as well as the institution and it helps our institution in terms of academic planning, placements of students, career guidance and technological guidance. The first Annual General Body Meeting was conducted on 11.7.2020 and recently an Annual Alumni Meet was organized at MVJCE on 28.8.2022 .

The main objectives of the Association are :

- All students graduating from MVJCE to be in sync with the activities and growth of the Institute.
- 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.
- Some of our alumni are industrialists and they share their knowledge and expertise with the students by arranging motivational lectures..

| File Description | Documents |
|---------------------------------------|---|
| Upload any additional information | View File |
| Paste link for additional Information | https://alumni.mvjce.edu.in/ |

5.4.2 - Alumni's financial contribution during the year E. <2 Lakhs

| File Description | Documents |
|-----------------------------------|------------------|
| Upload any additional information | No File Uploaded |

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

6.1.1 - The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the Institution

VISION:

To become an institute of academic excellence with international standards.

MISSION:

1. Impart quality education, along with industrial exposure.

2. Provide world-class facilities to students, to help them undertake research activities relevant to industrial and professional needs.

3. Promote entrepreneurship and value-added education that is socially relevant, along with economic benefits.

The Governance of the Institution is strictly in accordance with the Vision and Mission. The decentralized governance ensures better performance. The Governing Council, which has representatives from the faculty as well, offers its advice on all the functions, goals and important decisions. The Staff Council, headed by the Principal and Vice Principal, with HODs as members, ensures the proper implementation of the decisions and directions given. The Office Administration of the College is headed by the Registrar. There are several committees for implementing decisions

and resolutions. The Institute consistently promotes a culture of participative management. The HODs are conferred department-level authority. The HOD communicates the responsibilities of the faculty members through regular staff meetings. The faculty members involve themselves in the implementation of the decisions of the department. Hence, at every level, there is participative management. The Institute has a perspective plan that helps to streamline various processes like evaluating the methodologies of the teaching-learning process, research progress, infrastructure facilities, Industry-Institute partnership etc. All planning and execution are monitored regularly. The financial perspective is also addressed well.

| File Description | Documents |
|---------------------------------------|---|
| Upload any additional information | View File |
| Paste link for additional Information | https://mvjce.edu.in/board-of-governors/ |

6.1.2 - Effective leadership is reflected in various institutional practices such as decentralization and participative management

The College promotes decentralized and participative management, and has various committees to implement decisions. Operational autonomy is provided to functionaries at every level - Vice Principal, HOD, faculty, students and supporting staff. The Principal is the Academic and Administrative head, followed by Vice Principal, department heads and unit heads on the hierarchy. As per government guidelines, various committees such as Grievance Redressal Committee, Internal Complaints Committee, Anti-Ragging Committee, SC/ST Committee and Women Empowerment Cell are in place. Besides, there are Institution level committees such as Research Committee, Exam Committee, Library Committee, Discipline Committee and Cultural Committee, functioning with operational powers. The Principal and the HODs are bestowed with some financial powers, to purchase any material urgently needed for academic purposes.

| File Description | Documents |
|---|---|
| Upload strategic plan and deployment documents on the website | View File |
| Upload any additional information | View File |
| Paste link for additional Information | https://mvjce.edu.in/aicte-statutory-committees/ |

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ Perspective plan has been clearly articulated and implemented

The institute has a strategic plan which includes the following:

1. Constitution of IIEC:

To promote innovative ideas and entrepreneurship among students and staff, as per NISP policy of India.

2. Innovative Curriculum:

, MVJCE has revamped its curriculum considering the recommendation of

- NEP 2020
- AICTE (Model Curriculum)
- UGC
- VTU
- National and Societal requirements

Ability Enhancement courses are introduced from 2021-22.

3. NBA Accreditation:

NBA Compliance reports shall be submitted to get further extension for three years for three Programmes - Chemical Engineering, Electrical & Electronics Engineering and Information Science and Engineering and to prepare for NBA Compliance visits.

4. Centres of Excellence:

Identify niche areas to develop Centres of Excellence based on the

strength of the facilities and faculty which are already available.

5. Introduction of new UG Courses:

IQAC has suggested to start new course in B.E. in Industrial IoT with 60 intake and B.E in Computer Science and Design with 60 intake.

6. Formative Assessment:

It is suggested to implement Formative Assessment at least for one course in each Programme.

7. NIRF Ranking:

To analyse all the weak areas and plan action to be taken to improve the score in NIRF ranking to come within 300 band.

8.COVID CELL:

MVJCE has been taking continuous efforts and measures to ensure safety of all the students, faculty and staff members.

9. MVJ Merit Scholarship:

To help needy students and motivate meritorious students, MVJ College of Engineering provides financial assistance for meritorious students at Under Graduate and Post graduate levels, to impart technical skills which will ultimately benefit the society.

| File Description | Documents |
|--|---|
| Strategic Plan and deployment documents on the website | View File |
| Paste link for additional information | https://mvjce.edu.in/internal-quality-assurance-cell-igac/ |
| Upload any additional information | View File |

6.2.2 - The functioning of the various institutional bodies is effective and efficient as visible from the policies, administrative set-up, appointment and service rules, procedures, etc.

The Governing Council of MVJCE which is comprised of very eminent people from Industry and Academia, meets once in three months and interacts with faculty and students to understand the improvement areas, and provide the guidance necessary. The Academic Council monitors academic functions and approves the curriculum. The prime task of the IQAC is to develop a system for a conscious, consistent and catalytic improvement in the overall performance of the Institution. There are committees and clubs like DAC, BOS, BOE, Examination Committee, R&D, Budget Monitoring and Purchase Committee, Library Advisory Committee, Anti Ragging, TQM, Student Welfare, Grievance Redressal, Class Committee, Training and Placement, Professional Body, Sports Committee, Event Management, Technical Fest Committee, EDC, IIPC, Idea Box, Innovation Cell, Tomorrow's Engineers Club, FSIPD, Departmental Technical Clubs, Theatre Club, Music Club, Dance Club, Literary Club and ICC, where students and faculty members are members. Meetings are conducted regularly to discuss and implement the decisions and actions suggested by IQAC. The Principal provides necessary advice for effective implementation. All the policies and roles and responsibilities are well-defined in-service rules, and the coordinators/section heads enjoy the freedom to effectively implement official orders, in the best interest of all the stakeholders.

| File Description | Documents |
|---|---|
| Paste link to Organogram on the institution webpage | https://mvjce.edu.in/wp-content/uploads/2022/08/6.1.1-Org-Chart1.docx.pdf |
| Upload any additional information | View File |
| Paste link for additional Information | https://mvjce.edu.in/aicte-statutory-committees/ |

6.2.3 - Implementation of e-governance in areas of operation: Administration Finance and Accounts Student Admission and Support Examination

A. All of the above

| File Description | Documents |
|---|---------------------------|
| ERP (Enterprise Resource Planning) Documen | View File |
| Screen shots of user interfaces | View File |
| Details of implementation of e-governance in areas of operation | View File |
| Any additional information | View File |

6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has effective welfare measures for teaching and non-teaching staff and avenues for their career development/ progression

The following are the welfare measures extended to the teaching and non-teaching staff of the College.

- On-duty facility is provided to faculty attending Workshops /Conferences /Seminars, and for visiting Research organizations to carry out R&D.
- Faculty members are rewarded Rs. 5000 /Rs. 10,000 per paper, for publications in Scopus/SCI journals with a high impact factor.
- Faculty are awarded cash prizes for 100% results, and for generating funds through research projects.
- Faculty is given 60% of the Consultancy fees, for Consultancy projects.

- 7 days of Medical Leave can be availed by staff, in case of hospitalization.
- Women employees are eligible for a 6-month Maternity Leave, with 3 months' salary. •Men employees can avail a Paternity leave of 3 days.
- All eligible staff, as per the Staffs' Provident Fund legislation, are enrolled in the EPF scheme.
- Teaching staff are given financial support for attending conferences, workshops and seminars.
- Non-teaching staff are given financial support to pursue skill development.
- Uniform is provided for Instructors, Attenders and Security personnel.
- All staff members are covered under the Group Medical Insurance.
- In case of any financial emergency, staff can avail a personal loan.
- Transport and cafeteria facilities are provided to all staff, at a subsidized cost
- .Medical facility is provided to all staff members
- .ATM facilities are available on the campus.

| File Description | Documents |
|---------------------------------------|---|
| Upload any additional information | View File |
| Paste link for additional information | https://mvjce.edu.in/campus-life/%20https://mvjce.edu.in/research-development-cell/ |

6.3.2 - Number of teachers provided with financial support to attend conferences / workshops and towards payment of membership fee of professional bodies during the year

109

| File Description | Documents |
|---|---------------------------|
| Upload any additional information | View File |
| Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template) | View File |

6.3.3 - Number of professional development / administrative training programmes organized by the Institution for its teaching and non-teaching staff during the year

44

| File Description | Documents |
|--|---------------------------|
| Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres) | View File |
| Upload any additional information | View File |

6.3.4 - Number of teachers who have undergone online/ face-to-face Faculty Development Programmes during the year: (Professional Development Programmes, Orientation / Induction Programmes, Refresher Courses, Short-Term Course, etc.)

226

| File Description | Documents |
|---|---------------------------|
| Summary of the IQAC report | View File |
| Reports of the Human Resource Development Centres (UGC ASC or other relevant centers) | View File |
| Upload any additional information | View File |

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly

The Institution conducts internal and external financial audits regularly. An Audit will be conducted at the end of each financial year. The auditors will visit the college at regular intervals and verify all financial transactions with the supporting documents and approval of proper authority for each financial transaction. The financial transactions are accounted in Tally ERP by the

college. The audit is conducted in accordance with the Auditing standards generally accepted in India. They plan and perform the procedures to obtain 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 are accounted and financial statements like Balance sheet and Income and Expenditure are also verified.

Such financial statements will be signed and approved by the Auditor and Management. Based on the audited financial statements, the auditor will issue an Audit Report.

| File Description | Documents |
|---------------------------------------|---------------------------|
| Upload any additional information | View File |
| Paste link for additional information | Nil |

6.4.2 - Funds / Grants received from non-government bodies, individuals, and philanthropists during the year (not covered in Criterion III and V) (INR in lakhs)

1031830

| File Description | Documents |
|---|---------------------------|
| Annual statements of accounts | View File |
| Details of funds / grants received from non-government bodies, individuals, philanthropists during the year | View File |
| Any additional information | View File |

6.4.3 - Institutional strategies for mobilisation of funds and the optimal utilisation of resources

Sources of funds:

- For the institution the resources of funds are:
- Tuition fees collected from students and Fee collected for the other services like transportation, Gym, the registration fee for Workshops, Skill enhancement Programs, etc.,
- Grants from ISRO/AICTE/KSCST/IUCHEE/IICHE/IETE/DRDO

- Fees collected from students will be kept as the fixed deposits in the college bank accounts. Part of the fixed deposits will mature for a period of 30 days or less and part of them will be for a long-term period like 1-2 year.

Mobilizations of funds:

The short-term deposits will be used for the monthly salaries, campus and infrastructure maintenance, library book purchases, Faculty development and student skill development programmes, staff welfare, college promotional expenses etc. Loan term deposits will be used for any infrastructure construction or development at the campus.

Fund's utilization strategies:

All Departments propose their budget at the beginning of every financial year. According to the financial requirements of each department, the budget will be allocated annually. Periodic monitoring of the utilization of the funds allocated is done by the Budget and Purchase Committee to ensure optimal utilization of the resources according to the plan. Quarterly budgets are prepared to ensure that funds are utilized and to allot to the areas where it is deficient.

| File Description | Documents |
|---------------------------------------|---|
| Upload any additional information | View File |
| Paste link for additional Information | https://sgeio-my.sharepoint.com/:b:/g/personal/jeeva_b_mvjce_edu_in1/EReDclyx3mVHg2n5joFQsRkB6_vBjKgyIQm5iEK_Tjggw?e=TAdXS7 |

6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing quality assurance strategies and processes visible in terms of incremental improvements made during the preceding year with regard to quality (in case of the First Cycle): Incremental improvements made during the preceding year with regard to quality and post-accreditation quality initiatives (Second and subsequent cycles)

The vibrant Internal Quality Assurance Cell (IQAC) of MVJCE was established in 2012 as per the norms of NAAC, with a vision to streamline the quality initiatives of the Institution. The

Institution has a well-defined policy for quality assurance which is ensured by the effective participation from all stakeholders. The IQAC coordinator interacts with various functionaries for effective implementation of IQAC, and appraises the Chairperson of IQAC from time to time. IQAC meets periodically and records its deliberations, suggesting improvements if required, in any academic/administrative function.

Design of an Innovative Curriculum:

The IQAC of MVJCE facilitates the creation of a learner-centric environment conducive to quality education, and the faculty maturation needed to adopt knowledge and technology for the participatory teaching and learning process. MVJCE has designed an autonomous curriculum to make a shift from rote learning to experimental learning, to meet the motto of OBE and NEP. For every theoretical concept, an experimental study and its analysis have been introduced, for better understanding by students. A course is divided into five modules and every module has laboratory sessions to facilitate experimental learning. Ability Enhancement Courses are also introduced. During the pandemic, online tools, open-source software, and virtual labs were used to conduct experiments, and faculty members were trained to handle these tools.

Innovative Projects:

Experiential learning has motivated students to do many innovative projects - 50 projects have been developed by our students, in this academic year alone, which number is only increasing year after year.

| File Description | Documents |
|---------------------------------------|---|
| Upload any additional information | View File |
| Paste link for additional information | https://www.mvjce.edu.in/files/project_book/Project-Book-2021-22.pdf |

6.5.2 - The institution reviews its teaching-learning process, structures and methodologies of operation and learning outcomes at periodic intervals through its IQAC as per norms

IQAC reviews the teaching-learning process, structures and methodologies of operations and learning outcomes, periodically. The Academic Calendar is prepared in advance,

displayed in the Institution, and strictly followed. It is mandatory for every new student to attend the Orientation Programme, where they learn about the philosophy of the College, the uniqueness of the education system, the teaching-learning process, the system of continuous evaluation, compulsory core courses, the co-curricular activities, and above all, the discipline and culture of the Institution. The students are also given a guided tour of the campus and the facilities available here.

Class Committees take student feedback regularly, and appropriate steps are taken to enhance the teaching-learning process. Feedback from students is also taken individually by teachers, by Proctors, and also directly through IQAC. Students are free to approach the Head of the Institution, too, for feedback and suggestions.

The teaching-learning processes are reviewed, and improvements are implemented, based on the IQAC recommendations. IQAC organizes regular academic audits to ensure effective implementation of teaching-learning and maintenance of course files. The following measures are carried out by IQAC:

- Verifying internal test analysis, and question papers.
- Arranging special classes for weak students.
- Identifying new processes/delivery methods and recommending these for improving quality
- Analyzing deviations from the benchmarks and reporting these.
- Collecting feedback from the stakeholders (students, alumni, industry experts, research organizations and parents) and taking corrective actions.
- Encouraging faculty to do online certification Courses (NPTEL, MOOCS etc.).
- Faculty Development and Skill Development Training Programmes are organized frequently.

| File Description | Documents |
|---------------------------------------|---|
| Upload any additional information | View File |
| Paste link for additional information | https://mvjce.edu.in/internal-quality-assurance-cell-iqac/ |

6.5.3 - Quality assurance initiatives of the institution include Regular meeting of the IQAC Feedback collected, analysed and used for improvement of the institution Collaborative quality initiatives with other institution(s) Participation in NIRF Any other quality audit recognized by state, national or international agencies (such as ISO Certification)

A. Any 4 or all of the above

| File Description | Documents |
|--|---|
| Paste the web link of annual reports of the Institution | https://www.mvjce.edu.in/accreditation_https://sgeio-my.sharepoint.com/:b:/g/personal/jeeva_b_mvjce_edu_in1/EU0XCaVCFBtCl4pvHQ0KvjgBLMtypw18Rq7PJyBoRkOCWA?e=sE2M4M |
| Upload e-copies of accreditations and certification | View File |
| Upload details of quality assurance initiatives of the institution | View File |
| Upload any additional information | View File |

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

MVJCE has been taking specific initiatives to facilitate gender equality and women empowerment:

1. Women Empowerment Cell: WEC aims to empower girl students, to ensure their safety in the college campus, and to tackle women centric issues. WEC conducts various programmes to educate and sensitize both male and female members and create a harmonious atmosphere on the campus.

2. Internal Compliance Committee: The objective of ICC is the prevention, prohibition, and redressal of sexual harassment of women employees and students. ICC hears complaints and grievances related to incidents of sexual harassment. The Committee members are ever vigilant and ensure that no untoward incidents occur on the campus, by creating awareness and having open dialogues with

students and staff.

3. **Anti-Ragging Committee.** The Anti-Ragging Committee aims to prevent and prohibit ragging in the campus. MVJCE leaves no stone unturned to ensure the safety and security of students and staff. Around 375 CCTVs are deployed across the campus, for round-the-clock vigilance and surveillance. Separate timings are earmarked for girls to utilize the gym facilities; there are separate elevators for girls and lady staff. There are separate Common Rooms for boys and girls, with indoor game facilities, magazines, and newspapers. There is an exclusive Common Room for faculty too, to create a stress-free environment for them. Many Gender Equality Promotion programmes are arranged in the MVJCE campus, from time to time.

| File Description | Documents |
|---------------------------------------|---|
| Upload any additional information | View File |
| Paste link for additional Information | https://mvjce.edu.in/aicte-statutory-committees/ |

7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation: Solar energy plant Wheeling to the Grid energy conservation power-efficient equipment

A. Any 4 or All of the above

| File Description | Documents |
|--------------------------------|---------------------------|
| Geotagged Photographs | View File |
| Any other relevant information | View File |

7.1.3 - Describe the facilities in the institution for the management of the following types of degradable and non-degradable waste (within a maximum of 200 words)

MVJCE adopts the best practices in the management and recycling of solid and liquid waste, e-waste and waste generated from hazardous chemicals.

1. **Solid Waste management:** All the waste from the college premises, canteen and hostel is collected and segregated into wet, dry and plastic waste. Biodegradable materials such as fruit peels, tea and coffee grains are converted into manure in compost

pits. Non-biodegradable materials such as paper and plastic are segregated and resold. Dry leaves collected from the campus are converted into compost by rapid composting unit.

2. **Liquid Waste management:** MVJCE utilizes Rainwater Harvesting technology to collect and store rainwater from clean surfaces. The wastewater from the entire campus is treated at our Sewage Treatment Plant. The treated water is then used in the toilet flush tanks, or to water the college garden. The drinking water in the campus is also analysed and checked for its potability, every week.

3. **E-waste management:** All e-waste is disposed to the Municipal Corporation. The printer cartridges are refilled outside the college campus. UPS Batteries are recharged /repaired /exchanged with the suppliers. Waste compact discs and other computer parts are used by students in the Tinkering Lab.

| File Description | Documents |
|---|---------------------------|
| Relevant documents like agreements/MoUs with Government and other approved agencies | View File |
| Geotagged photographs of the facilities | View File |
| Any other relevant information | View File |

7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting
Bore well /Open well recharge
Construction of tanks and bunds
Waste water recycling
Maintenance of water bodies and distribution system in the campus

A. Any 4 or all of the above

| File Description | Documents |
|--|---------------------------|
| Geotagged photographs / videos of the facilities | View File |
| Any other relevant information | View File |

7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for greening the campus are as follows:

A. Any 4 or All of the above

1. Restricted entry of automobiles
2. Use of bicycles/ Battery-powered vehicles
3. Pedestrian-friendly pathways
4. Ban on use of plastic
5. Landscaping

| File Description | Documents |
|--|---------------------------|
| Geotagged photos / videos of the facilities | View File |
| Various policy documents / decisions circulated for implementation | View File |
| Any other relevant documents | View File |

7.1.6 - Quality audits on environment and energy undertaken by the institution

7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following:

A. Any 4 or all of the above

1. Green audit
2. Energy audit
3. Environment audit
4. Clean and green campus recognitions/awards
5. Beyond the campus environmental promotional activities

| File Description | Documents |
|---|---------------------------|
| Reports on environment and energy audits submitted by the auditing agency | View File |
| Certification by the auditing agency | No File Uploaded |
| Certificates of the awards received | No File Uploaded |
| Any other relevant information | View File |

7.1.7 - The Institution has a disabled-friendly and barrier-free environment: Ramps/lifts for easy access to classrooms and centres

A. Any 4 or all of the above

Disabled-friendly washrooms Signage including tactile path lights, display boards and signposts Assistive technology and facilities for persons with disabilities: accessible website, screen-reading software, mechanized equipment, etc. Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading materials, screen reading, etc.

| File Description | Documents |
|--|---------------------------|
| Geotagged photographs / videos of facilities | View File |
| Policy documents and brochures on the support to be provided | View File |
| Details of the software procured for providing assistance | No File Uploaded |
| Any other relevant information | View File |

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e. tolerance and harmony towards cultural, regional, linguistic, communal, socio-economic and other diversities (within a maximum of 200 words).

Activities such as celebration of days in memory of eminent personalities and celebration of National festivals pave the way for an inclusive environment, by bringing students and teachers from diverse backgrounds on a single platform. India is a unique nation, whose fabric has been woven from diverse linguistic, cultural and religious threads, held together into a composite national identity. MVJCE spares no efforts to reinforce this unity in diversity through various activities and initiatives that bring together young minds from different milieus.

MVJCE has an EBSB (Ek Bharat Shreshtha Bharat) Cell, which organizes programmes to promote understanding and enhance interaction between people of different states through the concept of State/Union Territory pairing.

An event on Art & Culture of Karnataka by Dr. Vivkanand Huddar (ME) was organised. The session was about the different art forms, clothing and Cuisine, important places to visit, various festivals, in Karnataka.

A physical activity session was conducted on the topic "Talk on

Uses of Yoga & Meditation, Introduction to Asanas" by Mr. Mohan Kumar CR. The speaker laid emphasis on the importance of Yoga and controlling health by doing yoga.

| File Description | Documents |
|--|---------------------------|
| Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution) | View File |

7.1.9 - Sensitization of students and employees of the institution to constitutional obligations: values, rights, duties and responsibilities of citizens:

Just as we have duties towards our family, we all have a duty towards our country also. MVJCE organizes various activities to sensitize its students and employees to their constitutional obligations: the values, rights, duties and responsibilities, as citizens of India.

The events conducted include,

- Awareness Camp on Scheme and Services by India Post was organized by the NSS unit of MVJCE.
- The NSS unit of MVJCE organized a COVID-19 RTPCR Test Drive -2021, in association with BBMP, for students and employees of the institution.
- The NSS unit of MVJCE organized, "COVAXIN" 2nd dose vaccination drive on 18th February 2022 for all students and faculty members of the institution.

| File Description | Documents |
|---|---------------------------|
| Details of activities that inculcate values necessary to transform students into responsible citizens | View File |
| Any other relevant information | No File Uploaded |

7.1.10 - The institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic sensitization programmes in this regard: The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution A. All of the above

organizes professional ethics programmes for students, teachers, administrators and other staff Annual awareness programmes on the Code of Conduct are organized

| File Description | Documents |
|--|---------------------------|
| Code of Ethics - policy document | View File |
| Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programmes, etc. in support of the claims | View File |
| Any other relevant information | No File Uploaded |

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

India is a land of cultural diversity. Many festivals are celebrated and each of these has its own significance. MVJCE regularly celebrates and organizes commemorative days, events and festivals.

The following events were celebrated during the academic year 2021-22:

- The 54th Engineer's Day celebration was organized by the Department of Civil Engineering, MVJCE, to commemorate 160th birth anniversary of Bharat Ratna Sir Mokshagundam Visvesvaraya, on 15th September 2021
- Kannada Rajyotsava was celebrated on 12th November 2021.
- The 73rd Republic Day was celebrated in college Campus on 26th January 2022.
- The Department of Mathematics, MVJ College of Engineering organized an event 'Mathematical Reasoning' and an invited talk on the occasion of International PI Day - 2022, on 14th March 2022.
- The National Anti-Terrorism Day was organized in MVJ College of Engineering, on 21st May 2022.
- The MVJCE celebrated 75th Independence Day in the College, with a lot of fervour.

| File Description | Documents |
|--|---------------------------|
| Annual report of the celebrations and commemorative events for during the year | View File |
| Geotagged photographs of some of the events | View File |
| Any other relevant information | No File Uploaded |

7.2 - Best Practices

7.2.1 - Provide the weblink on the Institutional website regarding the Best practices as per the prescribed format of NAAC

Practice 1 - Introduction of Ability Enhancement Courses:

MVJCE has introduced 11 innovative programmes at I Year to expose the students to more industry related activities and prepare them Industry ready by the time they move out of the college. While introducing such specific activities, the sole objective has been to equip the students to face the demands of the industries. The following Programmes have been introduced as an Ability Enhancement Courses as a 1 credit course in I and II semesters. Students were given choice to select courses based on their interest.

- Idea Box
- Tomorrow's Engineers
- Tinkering Lab
- UAV
- Astronomy
- Robotics and Industrial Automation Lab
- IoT
- FSIPD
- Software Development
- LabVIEW

- CNC Programming

These programmes vastly helped to inculcate creative and innovative thinking in students, to train them to develop problem solving skills, as well as, to give them an opportunity to design and develop meaningful projects providing solution to some of the societal / industrial problems.

Practice 2 - Gearing up for Covid norms of Online teaching Covid suddenly demanded a non-contact based teaching learning methodology. This required both attitude change by faculty and digital accessories for imparting online learning. The Institution quickly provided all necessary gadgets for online teaching. The faculty were quickly trained and geared up soon for conducting both theory and Lab classes in online mode. The Institution also geared up with necessary software support system for conducting proctored online assessments.

| File Description | Documents |
|---|---|
| Best practices in the Institutional website | https://mvjce.edu.in/internal-quality-assurance-cell-igac/ |
| Any other relevant information | https://mvjce.edu.in/wp-content/uploads/2022/01/MVJCE- AEC SYLLABUS-2021-22.pdf |

7.3 - Institutional Distinctiveness

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 200 words)

Efforts taken to overcome COVID19 Pandemic in the campus

MVJCE has been taking continuous efforts and measures to ensure safety of all the students, faculty and staff members.

The initiatives taken are below:

- Formation of Nodal team to take precautionary measures.
- Strict adherence to Precautionary measures as per Government SOP
- Monitoring the movement of students, faculty and staff members within the campus
- Temperature is monitored for all the students and staff everyday when they enter the campus.

- Design of Face Shield and usage of face shield during End semester Examination.
- Preparation of Sanitizers in the campus and distributed to all the Departments
- Doorknobs are sanitized frequently
- Hand wash is in all the washrooms.
- Organized RTPCR test for all faculty and staff members
- Organized Vaccination Drive for staff aged above 45.
- Conduction of online class and usage of Technology in Education to teach laboratory experiments.
- Use of Technology in Education for Preparation of LMS/ Study materials
- Preparation of online quizzes/Assignments/Flipped Classes
- Usage of Virtual labs/open source tools

- Recording of Lab experiments:

Experiments which cannot be conducted using Virtual labs, open source tools/software are recorded using video. Faculty created scripts to describe how to conduct the experiments, connect components, operate the machine, and how to execute it. 70 videos are created for various labs of all the programmes and shared with students.

- Conduction of online Continuous internal Assessment using Proctored mechanism.
- Conduction of VIII Semester (offline) Examinations as per the guidelines of the University

Part B

CURRICULAR ASPECTS

1.1 - Curriculum Design and Development

1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which are reflected in Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the various Programmes offered by the Institution.

All the courses that have been developed by MVJCE have relevance to local, national and global developmental needs. Every department has a Board of Studies (BoS) comprising the Faculty and external Subject Experts (from Academia and Industry), who, after deliberations, approve the syllabus of every course. Every programme presents the Programme Outcomes, Programme Specific Outcomes, and Course Outcomes of each course. Additionally, each course/subject of any given programme carries a Course Objective that unfolds the learning outcome for that course. The Board of Studies of each department oversees the relevancy and requirements of any course in the programmes that the department offers. As members of the BoS meet every year without fail, the BoS revises courses if needed, considering the academic trends, and market or industry requirements. Though minor revision is a continuous practice, any major revision is done mostly after the completion of the duration of a programme. Every department has a wide range of domain-based special interest groups to carry out Research and Development activities that are pertinent to the industrial and socio-environmental spectrums, for local, regional, national and global developments. There are several courses in different programmes which enable students to analyze the local and regional needs, and provide solution based on the engineering / science / management knowledge that they have acquired. At the same time, this opportunity also gives the students a real-life experience.

| File Description | Documents |
|---------------------------------------|---|
| Upload additional information, if any | View File |
| Link for additional information | https://www.mvjce.edu.in/autonomous-scheme-and-syllabus |

1.1.2 - Number of Programmes where syllabus revision was carried out during the year

13

| File Description | Documents |
|--|---------------------------|
| Minutes of relevant Academic Council/BOS meeting | View File |
| Details of syllabus revision during the year | View File |
| Any additional information | View File |

1.1.3 - Number of courses focusing on employability/entrepreneurship/ skill development offered by the Institution during the year

854

| File Description | Documents |
|---|---------------------------|
| Curriculum / Syllabus of such courses | View File |
| Minutes of the Boards of Studies/ Academic Council meetings with approval for these courses | View File |
| MoUs with relevant organizations for these courses, if any | No File Uploaded |
| Any additional information | View File |

1.2 - Academic Flexibility

1.2.1 - Number of new courses introduced across all programmes offered during the year

755

| File Description | Documents |
|---|---------------------------|
| Minutes of relevant Academic Council/BoS meetings | View File |
| Any additional information | View File |
| Institutional data in prescribed format (Data Template) | View File |

1.2.2 - Number of Programmes offered through Choice Based Credit System (CBCS)/Elective Course System

18

| File Description | Documents |
|--|---------------------------|
| Minutes of relevant Academic Council/BoS meetings | View File |
| Any additional information | View File |
| List of Add on /Certificate programs (Data Template) | View File |

1.3 - Curriculum Enrichment

1.3.1 - Institution integrates cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability, and Human Values into the curriculum

MVJ College of Engineering strongly believes in integrating cross-cutting issues with a view to ensuring the holistic development of students. The Institute has left no stone unturned, to create a healthy and harmonious working environment with respect to issues related to Gender, Environment and Sustainability, Human values and Professional Ethics, all of which are included in the curriculum.

Professional Ethics: The courses that integrate Professional Ethics are 'Constitution of India, Professional Ethics and Cyber Law'. This helps students identify their individual role and ethical responsibility towards society, and to understand human rights and their implications.

Gender:

Boys and Girls are given equal preference in all aspects such as admission, training and placement activities and all Curricular and Extra-Curricular Activities.

Women Empowerment Cell is developed to increase social, economic and intellectual capacities for peace, security and prosperity of mankind.

Environment and Sustainability:

Subjects like Environmental Studies are offered to all 3rd year students in all the Engineering branches. 6th semester students are offered open elective subjects such as Process Wastewater Management, Solid Waste Management in Process Industry, Occupational Health and Safety, Renewable Energy System and NonConventional Energy Sources - all of these impart knowledge related to Environment and Sustainability. Universal Human

values (UHV) is a two-credit course offered at the II-year level for all the students. It provides the essential guidelines for human conduct and human society.

| File Description | Documents |
|---|---------------------------|
| Upload the list and description of the courses which address issues related to Gender, Environment and Sustainability, Human Values and Professional Ethics in the curriculum | View File |
| Any additional information | View File |

1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year

178

| File Description | Documents |
|--|---------------------------|
| List of value-added courses | View File |
| Brochure or any other document relating to value-added courses | View File |
| Any additional information | No File Uploaded |

1.3.3 - Number of students enrolled in the courses under 1.3.2 above

4101

| File Description | Documents |
|----------------------------|---------------------------|
| List of students enrolled | View File |
| Any additional information | View File |

1.3.4 - Number of students undertaking field work/projects/ internships / student projects

2740

| File Description | Documents |
|---|---------------------------|
| List of programmes and number of students undertaking field projects / internships / student projects | View File |
| Any additional information | View File |

1.4 - Feedback System

1.4.1 - Structured feedback and review of the syllabus (semester-wise / year-wise) is obtained from 1) Students 2) Teachers 3) Employers and 4) Alumni

A. All 4 of the above

| File Description | Documents |
|---|---|
| Provide the URL for stakeholders' feedback report | https://www.mvjce.edu.in/feedback |
| Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management | View File |
| Any additional information | View File |

1.4.2 - The feedback system of the Institution comprises the following

A. Feedback collected, analysed and action taken made available on the website

| File Description | Documents |
|---|---|
| Provide URL for stakeholders' feedback report | https://www.mvjce.edu.in/feedback |
| Any additional information | View File |

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment of Students

2.1.1.1 - Number of students admitted (year-wise) during the year

1074

| File Description | Documents |
|---|---------------------------|
| Any additional information | View File |
| Institutional data in prescribed format | View File |

2.1.2 - Number of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.) as per the reservation policy during the year (exclusive of supernumerary seats)

521

| File Description | Documents |
|---|---------------------------|
| Any additional information | View File |
| Number of seats filled against seats reserved (Data Template) | View File |

2.2 - Catering to Student Diversity

2.2.1 - The institution assesses students' learning levels and organises special programmes for both slow and advanced learners.

Based on their CIE & SEE performance in the subjects, students are classified into two groups - advanced learners and slow learners.

After the completion of each CIE, the student who secures good scores in each subject is identified as an advanced learner. And every year, semester toppers and university rank holders are honored with certificates and cash prizes during Founder's Day. Students are continuously motivated to appear in competitive examinations - GATE, GRE etc. - and the necessary support is provided to them. Advanced learners are given opportunities to be part of innovative projects and other technical initiatives of the institute. They are given the opportunity to participate in Hackathons, Paper Presentations, Project Competitions, and participate in Summer Projects and Internships. They also help slow learners through peer learning.

Through a mentor-mentee system also all kinds of support are provided to the slow learners. The strenuous efforts taken by the faculty towards the slow learners has resulted in students' understanding in their chosen domain, improved results, and pass percentage. The mentor takes extra effort to understand the socio-economic backgrounds also which is sometimes a reason for poor performance. Parents of students are informed in case

of poor academic performance and psycho-social problems whenever necessary.

| File Description | Documents |
|---------------------------------------|---|
| Upload any additional information | View File |
| Paste link for additional information | https://mvjce.edu.in/founders-day-2022/ |

2.2.2 - Student – Teacher (full-time) ratio

| Year | Number of Students | Number of Teachers |
|------------|--------------------|--------------------|
| 06/12/2021 | 3816 | 226 |

| File Description | Documents |
|-----------------------------------|---------------------------|
| Upload any additional information | View File |

2.3 - Teaching- Learning Process

2.3.1 - Student-centric methods such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences:

Student learning is enhanced by adopting approaches/methods such as the organizing of seminars, conferences, and special lectures. Challenging assignments and projects are given to the students to hone their intellectual caliber and sharpen their inquisitiveness. Study material and periodic assignments are also made available to the students.

The Institute focuses on student-centric methods to enhance the lifelong learning skills of students. Faculty members take efforts in making the learning activity highly interactive, by adopting the following student-centric methods.

1. **Experiential Learning:** Every department conducts add-on programmes to support students in their experiential learning. The Institution adopts the following experiential learning practices to enhance the creativity and cognitive levels of the students
2. **Participatory Learning:** In this type of learning, students participate in various activities such as seminars and group discussions. Students are encouraged to participate in activities where they can use their

specialized technical or management skills. These activities include: Annual Tech Fest , Seminar Presentations , Presentation and publishing of Papers in Conferences and Journals

3. Problem-solving methods: Departments encourage students to acquire and develop problem-solving skills. Towards this end, the College organizes expert lectures on various topics, motivates students to join NPTEL & MOOC courses, and participate in various inter-college and intra-college technical fests and other competitions. The following activities foster problem-solving skills in students:

- Regular Case study-based Assignments
- Creation of innovative Projects
- Regular participation in Technical Quizzes

| File Description | Documents |
|-----------------------------------|---|
| Upload any additional information | View File |
| Link for additional Information | https://mvjce.edu.in/category/achievements/ |

2.3.2 - Teachers use ICT-enabled tools including online resources for effective teaching and learning

MVJCE constantly upgrades its IT facilities to help make learning more creative, innovative and informative. The entire campus is enabled with Wi-Fi facility with a bandwidth of 1.2 GBps. Classrooms are equipped with LCD projection systems, Screens and Green Boards. Students use an online public Access Catalogue which includes a Digital Library, Bibliography, E-Journals, E-Books and E- Databases. Students and faculty members can access e-books, e-resources through DELNET, VTU - Consortia. In addition to the chalk-and-talk method of teaching, the faculty members are using ICT-enabled learning tools such as PPT, Video clippings, Audio system, online resources, MOOC and NPTEL videos, to expose the students to advanced knowledge and practical learning. There is a major emphasis is on classroom interaction in terms of research paper presentations, seminars, group discussions, assignments, quiz/tests/viva-voce and laboratory work.

LIST OF ICT TOOLS USED BY TEACHERS

1. Smart classroom
2. Seminar Halls
3. Computer-assisted learning
4. Webex online classroom
5. Microsoft Teams online classroom
6. LMS materials available on the College website
7. E-book and E-Journal facilities available in library
8. NPTEL and IIT-Bombay Spoken Tutorial online classes

| File Description | Documents |
|--|---|
| Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process | https://mvjce.edu.in/video-lectures/ |
| Upload any additional information | View File |

2.3.3 - Ratio of students to mentor for academic and other related issues

2.3.3.1 - Number of mentors

226

| File Description | Documents |
|---|---------------------------|
| Upload year-wise number of students enrolled and full-time teachers on roll | View File |
| Circulars with regard to assigning mentors to mentees | View File |

2.3.4 - Preparation and adherence to Academic Calendar and Teaching Plans by the institution

Adherence to Academic Calendar: At the commencement of every academic year, the College announces the academic calendar. The academic calendar provides the date of commencement of the academic session, duration of the semesters, dates of internal assessment tests, final semester examinations and government holidays. The academic calendar helps students and faculty members to get full visibility of events on the campus during the year.

Teaching Plans:

The teaching plan is prepared by each department, under the guidance of the Department Advisory Committee (DAC) and

Internal Quality Assurance Cell (IQAC).

Once the academic schedule is prepared, the subject allocation is done as per the following procedure.

- Heads of the departments conduct meetings with their respective faculty well in advance, before the commencement of the semester, and allocate subjects to the faculty.
- Once subject allocation is finalized, the Timetable is prepared and circulated to the faculty. It is displayed on the notice board after the approval of the Principal, Vice-Principal and Head of the Department.
- The number of hours for each course is decided, depending on the credits of that particular course. The effective implementation of the lesson and lecture schedule is monitored by the Head of the Department and TQM Members.

| File Description | Documents |
|---|---------------------------|
| Upload the Academic Calendar and Teaching Plans during the year | View File |

2.4 - Teacher Profile and Quality**2.4.1 - Number of full-time teachers against sanctioned posts during the year**

226

| File Description | Documents |
|--|---------------------------|
| Year-wise full-time teachers and sanctioned posts for the year | View File |
| List of the faculty members authenticated by the Head of HEI | View File |
| Any additional information | View File |

2.4.2 - Number of full-time teachers with PhD/ D.M. / M.Ch. / D.N.B Super-Specialty / DSc / DLitt during the year

67

| File Description | Documents |
|---|---------------------------|
| List of number of full-time teachers with PhD./ D.M. / M.Ch. / D.N.B Super-Specialty / D.Sc. / D.Litt. and number of full-time teachers for 5 years | View File |
| Any additional information | View File |

2.4.3 - Total teaching experience of full-time teachers in the same institution: (Full-time teachers' total teaching experience in the current institution)

882

| File Description | Documents |
|---|---------------------------|
| List of teachers including their PAN, designation, Department and details of their experience | View File |
| Any additional information | View File |

2.5 - Evaluation Process and Reforms

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

18

| File Description | Documents |
|--|---------------------------|
| List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result | View File |
| Any additional information | View File |

2.5.2 - Number of students' complaints/grievances against evaluation against the total number who appeared in the examinations during the year

0

| File Description | Documents |
|---|------------------|
| Upload the number of complaints and total number of students who appeared for exams during the year | No File Uploaded |
| Upload any additional information | No File Uploaded |

2.5.3 - IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA) have brought in considerable improvement in the Examination Management System (EMS) of the Institution

University guidelines have been strictly adhered to, with respect to examination procedures and the evaluation process. Three internal tests are conducted. The schedules of internal assessments are communicated to students and faculty at the beginning of the semester, through the academic calendar which is prepared based on the VTU academic calendar.

A week before the commencement of the internal exam, the timetable is displayed on the notice board. Questions are framed such that they adhere to VTU standards. It follows Bloom's Taxonomy and Outcome-based Education. The subject-handling faculty prepares a question bank that covers an equal number of questions from each module, and the question paper is set by the senior faculty of the department/course coordinator

MVJCE has a well-established and efficient examination management system, where processes related to the conducting of examinations, declaration of results and awarding of degrees are controlled and monitored by the Controller of Examinations. The office of the COE organizes various meetings with the Principal, Vice-Principal and Registrar, for smooth functioning of the examination system.

| File Description | Documents |
|---------------------------------------|---|
| Upload any additional information | View File |
| Paste link for additional Information | https://mvjce.edu.in/exam-notificationtimetable-and-application/ |

2.6 - Student Performance and Learning Outcomes

2.6.1 - Programme Outcomes and Course Outcomes for all Programmes offered by the institution are stated and displayed on the website and communicated to teachers and students

Every effort is made to ensure that the Course Outcomes, Programme Outcomes and Programme Specific Outcomes are communicated effectively to all stakeholders, namely students, faculty, parents, industry, regulating authorities, alumni, management etc.

MVJCE follows the Programme Outcomes (POs) defined by the National Board of Accreditation (NBA), and these are to be fulfilled by all the programmes. The Course Outcomes (COs) for each subject are available in the syllabus, and are defined by the concerned faculty member (in consultation with other faculty teaching the same subject) and HOD, and approved in the BOS meeting. Learning Outcomes of the Programmes and Courses are observed and measured periodically by IQAC.

The POs, PSOs and COs are available on the College website. Moreover, they are available at the following places too, for the benefit of students, teachers and other staff:

1. College website
2. On department notice boards and laboratories
3. Department Newsletter, Magazine, Brochures and prospectus
4. Lab manuals
5. Disseminated in Placement training programmes
6. Disseminated during student seminars and orientation programmes
7. Department Handbook
8. Survey Forms
9. Academic Calendar
10. Internal Answer Booklets
11. Syllabus Book

Students also get to know the COs, POs and PSOs through faculty announcements during the beginning of each semester, and from time to time during the entire semester

| File Description | Documents |
|--|---|
| Upload COs for all courses (exemplars from the Glossary) | View File |
| Upload any additional information | View File |
| Link for additional Information | https://mvjce.edu.in/about/ |

2.6.2 - Attainment of Programme Outcomes and Course Outcomes as evaluated by the institution

Method of assessment of POs:

Programme Outcomes are assessed with the help of Course Outcomes of the relevant courses, through direct and indirect methods. Direct methods are provided through direct examinations or observations of student knowledge or skills against measurable Course Outcomes. The knowledge and skills described by the Course Outcomes are mapped to specific problems on semester-end examinations, internal exams, and home assignments. The performance of students in different assessments of CIE and SEE are evaluated for the attainment of COs. The attainment calculation is based on the mappings between CO and PO. Finally, Program Outcomes are assessed, and the Program Assessment Committee concludes the PO attainment level.

The weightage given for direct assessment is 80% and indirect assessment is 20%.

- Direct methods gauge the students' knowledge and skills from their performance in the continuous internal assessment tests, semester examinations, seminars, laboratory assignments etc. These methods provide a sampling of what students know and/or can do, and provide strong evidence of student learning.
- Target levels of attainment of Course Outcomes (COs) are set; Course is delivered; actual attainment of COs is determined using internal assessment 1, 2, 3 and SEE.
- Indirect methods such as surveys ask the stakeholders to reflect on the student's learning.
- Target levels of attainment of POs and PSOs are set and attained.

| File Description | Documents |
|---------------------------------------|---------------------------|
| Upload any additional information | View File |
| Paste link for additional Information | 2.6.2.pdf |

2.6.3 - Pass Percentage of students

2.6.3.1 - Total number of final year students who passed in the examinations conducted by Institution

944

| File Description | Documents |
|---|---|
| Upload list of Programmes and number of students appear for and passed in the final year examinations | View File |
| Upload any additional information | View File |
| Paste link for the annual report | https://sgeio-my.sharepoint.com/:b:/g/personal/jeeva_b_mvjce_edu_in1/EUh6GD6LkP1Bm1-DnyobAmwBer1TsHa-jSf5EUtM8Qs_Pw?e=l3Ihpm |

2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire). Results and details need to be provided as a weblink

<https://mvjce.edu.in/wp-content/uploads/2023/05/Student-Satisfaction-Survey-2021-2022.pdf>

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Promotion of Research and Facilities

3.1.1 - The institution's research facilities are frequently updated and there is a well-defined policy for promotion of research which is uploaded on the institutional website and implemented

The Research & Development Cell of MVJCE facilitates and encourages research culture among the faculty and students. It enables a congenial and conducive environment for technological development, providing all the infrastructural

facilities and monitoring the research activities of faculty and students. The R&D Cell is functioning under the guidance of Dr. V. Bhujanga Rao. Faculty are encouraged to apply to various funding agencies and pursue their research. The Institute also provides seed funding or partial funding, based on the merit of the proposals submitted by faculty or student. The college has formulated a R & D policy to promote R & D amongst faculty. The R & D cell meets every fortnight to discuss the funding proposals to be submitted to various funding agencies. The R&D Cell takes upon itself the responsibility of creating a workplace that can attract the best talent, and strives continuously to pool the skills and internal resources and create strategy, overcoming limitations. The Institute encourages the faculty by providing incentives for peer-reviewed publications in SCI indexed journals, writing books and filing patents. The Institute takes care of the patent filing process, which is governed by the IPR Cell of the Institute. Six of our Research Centers are recognized by Visvesvaraya Technological University, and fulltime research scholars are allotted by the University to pursue their research work in these Centres under the guidance of the College faculty.

| File Description | Documents |
|--|---|
| Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption | View File |
| Provide URL of policy document on promotion of research uploaded on the website | https://mvjce.edu.in/research-and-development |
| Any additional information | No File Uploaded |

3.1.2 - The institution provides seed money to its teachers for research

3.1.2.1 - Seed money provided by the institution to its teachers for research during the year (INR in lakhs)

0.426

| File Description | Documents |
|---|---------------------------|
| Minutes of the relevant bodies of the institution regarding seed money | View File |
| Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized | View File |
| List of teachers receiving grant and details of grant received | View File |
| Any additional information | View File |

3.1.3 - Number of teachers who were awarded national / international fellowship(s) for advanced studies/research during the year

1

| File Description | Documents |
|---|---------------------------|
| e-copies of the award letters of the teachers | View File |
| List of teachers and details of their international fellowship(s) | View File |
| Any additional information | No File Uploaded |

3.2 - Resource Mobilization for Research

3.2.1 - Grants received from Government and Non-Governmental agencies for research projects, endowments, Chairs during the year (INR in Lakhs)

45.10505

| File Description | Documents |
|--|---------------------------|
| e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations | View File |
| List of projects and grant details | View File |
| Any additional information | No File Uploaded |

3.2.2 - Number of teachers having research projects during the year

22

| File Description | Documents |
|---|---------------------------|
| Upload any additional information | View File |
| Paste link for additional Information | Nil |
| List of research projects during the year | View File |

3.2.3 - Number of teachers recognised as research guides

21

| File Description | Documents |
|---|---------------------------|
| Upload copies of the letter of the university recognizing teachers as research guides | View File |
| Institutional data in Prescribed format | View File |

3.2.4 - Number of departments having research projects funded by Government and Non-Government agencies during the year

9

| File Description | Documents |
|---|---|
| Supporting document from Funding Agencies | View File |
| Paste link to funding agencies' website | https://www.aicte-india.org/ : https://www.drdo.gov.in/aeronautics-research-development/rules-grants-introductions : https://www.kscst.org.in/spp.html : http://www.iiche-bbsr.org/ : https://aicte-india.org/sites/default/files/SPICES%20advertisement%20for%20Announcement.pdf : http://www.vgst.in/ : https://nif.org.in/ : https://vtu.ac.in/en/administration/circular-financial-assistance-for-innovative-projects-for-final-year-under-graduate-students-for-the-year-2021-22/ |
| Any additional information | View File |

3.3 - Innovation Ecosystem

3.3.1 - Institution has created an ecosystem for innovations and creation and transfer of knowledge supported by dedicated centres for research, entrepreneurship, community orientation, incubation, etc.

The Institution has created an ecosystem for innovation, including incubation centres and other initiatives, for the creation and transfer of knowledge. Faculty members are empowered to take up research activities, utilizing the facilities available at the Institute. The Research and Development Cell of the College motivates the faculty members to write feasibility studies and research projects, and get funding from various funding agencies like DRDO, DST, AICTE, DBT, KSCST, VGST etc, It also helps to create a research culture among faculty members and students. The Entrepreneur Development Cell (EDC) at MVJCE initiated various activities and training programmes for the career enhancement of students. EDC created a platform like IDEABOX, for students to share their research perspectives/ideas. The Institute also has an active Industry Institute Partnership Cell (IIPC), which helps to bridge the gap between industry and academics by organizing various events like skill development programmes, Industry-Academia meets, guest lectures etc. Awareness programmes of various schemes under Karnataka State Small Industry Development Corporation, Digital India, and Make in India were also conducted under the auspices of the IIPC. The Institution

has a well-established and vibrant Institute Innovation Council (IIC) which strengthens other cells such as EDC, Idea Box, IIPC, Tomorrow's Engineers, FSIPD, and Tinkering Lab. The well-established IPR cell at MVJCE guides both faculty and students on Intellectual Property Rights, and also guides them in filing patents with financial support.

| File Description | Documents |
|---------------------------------------|---|
| Upload any additional information | View File |
| Paste link for additional information | https://mvjce.edu.in/iic-dept/ |

3.3.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year

88

| File Description | Documents |
|--|---------------------------|
| Report of the events | View File |
| List of workshops/seminars conducted during the year | View File |
| Any additional information | No File Uploaded |

3.4 - Research Publications and Awards

3.4.1 - The Institution ensures implementation of its Code of Ethics for Research uploaded in the website through the following: Research Advisory Committee Ethics Committee Inclusion of Research Ethics in the research methodology course work Plagiarism check through authenticated software

A. All of the above

| File Description | Documents |
|--|---------------------------|
| Code of Ethics for Research, Research Advisory Committee and Ethics Committee constitution and list of members of these committees, software used for plagiarism check | View File |
| Any additional information | View File |

3.4.2 - Number of PhD candidates registered per teacher (as per the data given with regard to recognized PhD guides/ supervisors provided in Metric No. 3.2.3) during the year

3.4.2.1 - Number of PhD students registered during the year

3

| File Description | Documents |
|--|---------------------------|
| URL to the research page on HEI website | Nil |
| List of PhD scholars and details like name of the guide, title of thesis, and year of registration | View File |
| Any additional information | View File |

3.4.3 - Number of research papers per teacher in CARE Journals notified on UGC website during the year

268

| File Description | Documents |
|---|---------------------------|
| List of research papers by title, author, department, and year of publication | View File |
| Any additional information | View File |

3.4.4 - Number of books and chapters in edited volumes / books published per teacher during the year

11

| File Description | Documents |
|---------------------------------------|---------------------------|
| Upload any additional information | View File |
| Paste link for additional information | Nil |

3.4.5 - Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed

3.4.5.1 - Total number of Citations in Scopus during the year

610

| File Description | Documents |
|---|---------------------------|
| Any additional information | View File |
| Bibliometrics of the publications during the year | View File |

3.4.6 - Bibliometrics of the publications during the year based on Scopus/ Web of Science – h-Index of the University

3.4.6.1 - h-index of Scopus during the year

21

| File Description | Documents |
|--|---------------------------|
| Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution | View File |
| Any additional information | View File |

3.5 - Consultancy

3.5.1 - Revenue generated from consultancy and corporate training during the year (INR in lakhs)

17.803

| File Description | Documents |
|--|---------------------------|
| Audited statements of accounts indicating the revenue generated through consultancy and corporate training | View File |
| List of consultants and revenue generated by them | View File |
| Any additional information | View File |

3.5.2 - Total amount spent on developing facilities, training teachers and clerical/project staff for undertaking consultancy during the year

17

| File Description | Documents |
|---|---------------------------|
| Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy | View File |
| List of training programmes, teachers and staff trained for undertaking consultancy | View File |
| List of facilities and staff available for undertaking consultancy | View File |
| Any additional information | No File Uploaded |

3.6 - Extension Activities

3.6.1 - Extension activities carried out in the neighbourhood sensitising students to social issues for their holistic development, and the impact thereof during the year

The College is taking up various initiatives to improve the quality of life of the people living in the surrounding neighborhoods. It is mandatory for all our students to play a role in representing various social issues through parallel activities in various student clubs. The student volunteers visit neighboring localities and conduct various activities, regularly. The basics of computer and computer programs such as C, C++, JAVA, MS office etc. are taught to the children in rural areas. Our NSS unit created awareness among these people, of the harmful effects of plastic on the environment, to make our surroundings plastic-free. The NSS unit conducted awareness sessions on COVID-19 in the nearby villages, and distributed food, masks and sanitizers at the peak of the pandemic. Our students are also helping the local school to achieve good results, encouraging these kids to take up technical education. Our students are doing a lot for the overall benefit of the society, fulfilling their responsibility towards the world around them. All these activities have a positive impact on the students too, it has developed student-community relationships, and embellished their leadership skills and self-confidence. It has brought out a hitherto unknown side of our students.

| File Description | Documents |
|---------------------------------------|---|
| Upload any additional information | View File |
| Paste link for additional information | https://mvjce.edu.in/nss |

3.6.2 - Number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government-recognised bodies during the year

550

| File Description | Documents |
|--|---------------------------|
| Number of awards for extension activities in during the year | View File |
| e-copy of the award letters | View File |
| Any additional information | No File Uploaded |

3.6.3 - Number of extension and outreach programmes conducted by the institution through NSS/NCC/Red Cross/YRC, etc. during the year (including Government-initiated programmes such as Swachh Bharat, AIDS Awareness, and Gender Sensitization and those organised in collaboration with industry, community and NGOs)

6

| File Description | Documents |
|---------------------------------|---------------------------|
| Reports of the events organized | View File |
| Any additional information | View File |

3.6.4 - Number of students participating in extension activities listed in 3.6.3 during the year

828

| File Description | Documents |
|----------------------------|---------------------------|
| Reports of the events | View File |
| Any additional information | View File |

3.7 - Collaboration

3.7.1 - Number of collaborative activities during the year for research/ faculty exchange/

student exchange/ internship/ on-the-job training/ project work

702

| File Description | Documents |
|--|---------------------------|
| Copies of documents highlighting collaboration | View File |
| Any additional information | View File |

3.7.2 - Number of functional MoUs with institutions of national and/or international importance, other universities, industries, corporate houses, etc. during the year (only functional MoUs with ongoing activities to be considered)

5

| File Description | Documents |
|---|---------------------------|
| e-copies of the MoUs with institution/ industry/ corporate house | View File |
| Details of functional MoUs with institutions of national, international importance, other institutions etc. during the year | View File |
| Any additional information | No File Uploaded |

INFRASTRUCTURE AND LEARNING RESOURCES**4.1 - Physical Facilities**

4.1.1 - The Institution has adequate infrastructure and physical facilities for teaching-learning, viz., classrooms, laboratories, computing equipments, etc.

MVJCE has state of the art infrastructure, creating an environment for progressive learning and development. All classrooms are Wi-Fi enabled. Eight departments of MVJCE are VTU recognized research Centre wherein the students and faculties can carry out their project/research work.

During the pandemic period the online classes the academic activities remained unaffected. Classes were conducted in Microsoft Teams platform. The institution has Microsoft office 365 A1 plus licence and all students and faculties were provided with organizational account. All the classes conducted were recorded and recordings were uploaded in Streams where the students can access it anytime. Lab experiments were recorded and shared with the students during online class.

Apart from regular labs, we have R&D Labs, industry tie up laboratories like, Infosys campus connect lab, UAV lab, NI lab etc. in order to fill the gap between the curriculum and industry. Labs are equipped with sufficient hardware and licensed software to run program specific curriculum and off program curriculum. Enough number of personal computers are available for the smooth conduction of the lab. The number and area of the classrooms and labs are as per the requirement specified by the statutory bodies.

The faculty innovations in teaching and learning are as follows.

1. Learning management system (LMS Modules)

LMS of MVJCE is a student centric learning facility for the students to refer the study materials anytime within the campus premises. It is a centralized source for study materials and slide based presentation for all the branches.

| File Description | Documents |
|---------------------------------------|---|
| Upload any additional information | View File |
| Paste link for additional information | https://mvjce.edu.in/teaching-and-learning |

4.1.2 - The institution has adequate facilities for cultural activities, yoga, sports and games (indoor and outdoor) including gymnasium, yoga centre, auditorium etc.)

Sports activities occupy a significant part of the college curriculum in MVJ College of engineering. The Physical Education Department of MVJCE is equipped with multitude of sports-centric facilities. These facilities are optimally utilised for training students and assisting them to remain fit through various sports activities. The campus houses full-fledged sports amenities for both indoor and outdoor sporting events.

The outdoor facilities include large playing fields for Cricket, Hockey, Football, Kabbady and Kho-Kho. The campus is equipped with dedicated space for basketball, Volleyball and Throw ball. There is a 200-metre athletic track available for

the athletic events.

The indoor sport facility at MVJCE includes practice/training rooms for Wrestling, Judo, Table Tennis, Chess and Carrom. The Weight lifting and Power lifting training facility at our campus helped many students to win many university level and inter collegiate events.

We also host Dr. M.V Jayaraman memorial cricket tournament and Smt Raja Lakshmi Jayaraman inter collegiate volleyball tournament every year.

MVJCE also has a large well equipped indoor gymnasium facility, available for both the staff and students which include facilities for Weight Training and Cardio exercises. An experienced trainer will be available at the gymnasium to assist the users.

Practice of Yoga fosters harmony in the body, mind, and environment. The college organizes Yoga sessions frequently to create awareness on physical and mental well-being among the staff and students of MVJCE.

| File Description | Documents |
|---------------------------------------|---|
| Geotagged pictures | View File |
| Upload any additional information | View File |
| Paste link for additional information | https://mvjce.edu.in/sports |

4.1.3 - Number of classrooms and seminar halls with ICT-enabled facilities

127

| File Description | Documents |
|---|---------------------------|
| Upload any additional information | View File |
| Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template) | View File |

4.1.4 - Expenditure for infrastructure augmentation, excluding salary, during the year (INR in Lakhs)

321

| File Description | Documents |
|--|---------------------------|
| Upload audited utilization statements | View File |
| Details of Expenditure, excluding salary, during the years | View File |
| Any additional information | View File |

4.2 - Library as a Learning Resource

4.2.1 - Library is automated using Integrated Library Management System (ILMS)

Library is fully automated. All the library documents are bar-coded, and books are issued to users by reading the barcode of the document.

Since the Library is fully automated, the holdings of the Library could be searched using OPAC. The holdings include the books and Journals, syllabus, question papers and Project reports.

The library is member of the DELNET since last 5 years. It is being extensively used for ILL and searching the database of other member libraries

The library has become the member of the NDL to access the vast e-resources that are available on Delnet database

The library has the internet facility through which the e-resources could be accessed.

On an average around 1300 students make use of the libraryresources everyday.A register is maintained in order to know the number of users make use of the reference section. The Central Library is a member of the VTU E-Resources Consortia. The users of the library can access publications of all major publishers like Elsevier, Springer, ASCE, etc. The Central Library is also a member of DELNET which gives access to E-Books and 5000 full text E-journals both National and International

| File Description | Documents |
|---------------------------------------|---|
| Upload any additional information | View File |
| Paste link for additional information | https://mvjce.edu.in/library |

4.2.2 - Institution has access to the following: e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access to e-resources

A. Any 4 or more of the above

| File Description | Documents |
|---|---------------------------|
| Details of subscriptions like e-journals, e-books, e-ShodhSindhu, Shodhganga membership | View File |
| Upload any additional information | View File |

4.2.3 - Expenditure on purchase of books/ e-books and subscription to journals/e-journals during the year (INR in lakhs)

41

| File Description | Documents |
|--|---------------------------|
| Audited statements of accounts | View File |
| Any additional information | View File |
| Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template) | View File |

4.2.4 - Usage of library by teachers and students (footfalls and login data for online access)

4.2.4.1 - Number of teachers and students using the library per day during the year

1341

| File Description | Documents |
|--|---------------------------|
| Upload details of library usage by teachers and students | View File |
| Any additional information | View File |

4.3 - IT Infrastructure

4.3.1 - Institution has an IT policy covering Wi-Fi, cyber security, etc. and has allocated budget for updating its IT facilities

LAN Facility

There are 38 data network switches (Giga byte), 18 POE network switches (Gb) for access points, CCTV cameras, Intercoms and 1 SOPHOS Cyberoam fire wall for content filtering for 2500 users simultaneously. 1.2 GBps of internet connectivity is shared across the campus

Server configurations in Data Centre

There are 14 servers with Xeon E-5 version-2, 32 GB RAM, 1.2 TB hard drive, student biometric server, faculty biometric server and application servers.

Storage server-2TB*5=10 TB

Back up device-3TB for critical server back up

Work station:

1240 desktops are provided to all the department labs with configurations of core i3 3Generation 4GB, 500 GB hard disk with LAN connectivity. 140 desktops with configurations of core i3 4GB, 500GB and dual core 250 GB, 2GB hard disk

Software:

850 genuine windows licenses, with window 7pro and windows XP. 375 Microsoft office standard and professional editions for departments are also available. We also use open source operating systems such as Fedora, Ubuntu and CentOS.

Wi-Fi:

69 Extendable Wi-Fi access points are placed in various places like Library, corridors, Labs, hostel, Canteen and outdoor. Wi-Fi access is provided to all the students which is monitored and controlled by SOPHOS Cyberoam fire wall at the IT department

| File Description | Documents |
|---------------------------------------|---|
| Upload any additional information | View File |
| Paste link for additional information | https://mvjce.edu.in/it-facilities |

4.3.2 - Student - Computer ratio

| Number of Students | Number of Computers |
|--------------------|---------------------|
| 3816 | 1126 |

| File Description | Documents |
|-----------------------------------|---------------------------|
| Upload any additional information | View File |

4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus

A. 250 Mbps

| File Description | Documents |
|---|---------------------------|
| Details of bandwidth available in the Institution | View File |
| Upload any additional information | View File |

4.3.4 - Institution has facilities for e-content development: Facilities available for e-content development Media Centre Audio-Visual Centre Lecture Capturing System (LCS) Mixing equipments and software for editing

D. Any one of the above

| File Description | Documents |
|--|---|
| Upload any additional information | View File |
| Paste link for additional information | https://mvjce.edu.in/video-lectures |
| List of facilities for e-content development (Data Template) | View File |

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Expenditure incurred on maintenance of physical and academic support facilities, excluding salary component, during the year (INR in lakhs)

871

| File Description | Documents |
|-----------------------------------|---------------------------|
| Audited statements of accounts | View File |
| Upload any additional information | View File |

4.4.2 - There are established systems and procedures for maintaining and utilizing physical, academic and support facilities – classrooms, laboratory, library, sports complex, computers, etc.

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. A logbook is maintained for the same.

The college has various committees for maintenance and upkeep of infrastructure. Regular meetings of various committees constituted for this purpose meet regularly to discuss about the requirements which occur time to time.

The computers are maintained in the Institution by IT help desk. This division provides the integrated IT services like smooth running of automation, up-gradation and maintenance of automation package, college website, biometric services, troubleshooting of hardware, networking equipments including internet connectivity, procurement of hardware, software.

The equipment and machineries in the laboratory/workshop are maintained by the lab In-charge(s)/workshop In-Charge(s) with the advice of HOD.

The physical education department is facilitated by the physical directors to educate the students. The marker of the department makes the play field ready for the students, by

marking the ground and providing the play kits.

| File Description | Documents |
|---------------------------------------|---|
| Upload any additional information | View File |
| Paste link for additional information | https://mvjce.edu.in/maintenance |

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefitted by scholarships and freeships provided by the Government during the year

2618

| File Description | Documents |
|---|---------------------------|
| Upload self-attested letters with the list of students receiving scholarships | View File |
| Upload any additional information | View File |

5.1.2 - Number of students benefitted by scholarships and freeships provided by the institution and non-government agencies during the year

237

| File Description | Documents |
|---|---------------------------|
| Upload any additional information | View File |
| Institutional data in prescribed format | View File |

5.1.3 - The following Capacity Development and Skill Enhancement activities are organised for improving students' capabilities Soft Skills Language and Communication Skills Life Skills (Yoga, Physical fitness, Health and Hygiene) Awareness of Trends in Technology

A. All of the above

| File Description | Documents |
|---|---|
| Link to Institutional website | https://mvjce.edu.in/events |
| Details of capability development and schemes | View File |
| Any additional information | View File |

5.1.4 - Number of students benefitted from guidance/coaching for competitive examinations and career counselling offered by the institution during the year

3816

| File Description | Documents |
|--|---------------------------|
| Any additional information | View File |
| Number of students benefitted by guidance for competitive examinations and career counseling during the year (Data Template) | View File |

5.1.5 - The institution adopts the following mechanism for redressal of students' grievances, including sexual harassment and ragging: Implementation of guidelines of statutory/regulatory bodies Creating awareness and implementation of policies with zero tolerance Mechanism for submission of online/offline students' grievances Timely redressal of grievances through appropriate committees

A. All of the above

| File Description | Documents |
|--|---------------------------|
| Minutes of the meetings of students' grievance redressal committee, prevention of sexual harassment committee and Anti-ragging committee | View File |
| Details of student grievances including sexual harassment and ragging cases | No File Uploaded |
| Upload any additional information | No File Uploaded |

| 5.2 - Student Progression | |
|--|---------------------------|
| 5.2.1 - Number of outgoing students who got placement during the year | |
| 751 | |
| File Description | Documents |
| Self-attested list of students placed | View File |
| Upload any additional information | View File |
| 5.2.2 - Number of outgoing students progressing to higher education | |
| 40 | |
| File Description | Documents |
| Upload supporting data for students/alumni | View File |
| Details of students who went for higher education | View File |
| Any additional information | View File |
| 5.2.3 - Number of students qualifying in state/ national/ international level examinations during the year | |
| 5.2.3.1 - Number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET/SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State government examinations) during the year | |
| 17 | |
| File Description | Documents |
| Upload supporting data for students/alumni | View File |
| Any additional information | View File |
| 5.3 - Student Participation and Activities | |
| 5.3.1 - Number of awards/medals for outstanding performance in sports and/or cultural activities at inter-university / state /national / international events (award for a team event should be counted as one) during the year | |
| 32 | |

| File Description | Documents |
|--|---------------------------|
| e-copies of award letters and certificates | View File |
| Any additional information | View File |

5.3.2 - Presence of an active Student Council and representation of students in academic and administrative bodies/committees of the institution

STUDENTS PARTICIPATION IN ACTIVITIES

The institution does not have any student council, but there are Clubs/Societies where students are a part of with the objective to make the students participate in the development of the institute as well as in the process to develop their personality, organizational skills, and career through interactive programs with the faculty, administration, and society.

ANTI-RAGGING COMMITTEE is 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, non-teaching staff, parents, and students.

STUDENT GRIEVANCE REDRESSAL COMMITTEE A redressal committee functions in the institution 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 and to resolve the issues impartially.

CLASS COMMITTEE is constituted in every department which is headed by the Head of the department and shall have two meetings in a semester to ensure the responsibilities set by the committee.

OTHER CLUBS DETAILS IQAC, EDC, Women Empowerment Cell, IIC, Sports Committee, Hostel Committee Health and Hygiene Club, Music Club, Dance Club, Theatre Club, IEEE, Student Chapter IETE Literary Club

| File Description | Documents |
|---------------------------------------|---|
| Upload any additional information | View File |
| Paste link for additional information | https://mvjce.edu.in/admissions/campus-life |

5.3.3 - Number of sports and cultural events / competitions organised by the institution

43

| File Description | Documents |
|--|---------------------------|
| Report of the event | View File |
| List of sports and cultural events / competitions organised per year | View File |
| Upload any additional information | View File |

5.4 - Alumni Engagement

5.4.1 - The Alumni Association and its Chapters (registered and functional) contribute significantly to the development of the institution through financial and other support services

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. Our Alumni Association works for the overall development of students as well as the institution and it helps our institution in terms of academic planning, placements of students, career guidance and technological guidance. The first Annual General Body Meeting was conducted on 11.7.2020 and recently an Annual Alumni Meet was organized at MVJCE on 28.8.2022 .

The main objectives of the Association are :

- All students graduating from MVJCE to be in sync with the activities and growth of the Institute.
- 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.
- Some of our alumni are industrialists and they share their knowledge and expertise with the students by arranging motivational lectures..

| File Description | Documents |
|---------------------------------------|---|
| Upload any additional information | View File |
| Paste link for additional Information | https://alumni.mvjce.edu.in/ |

| | |
|--|-----------------------|
| 5.4.2 - Alumni's financial contribution during the year | E. <2 Lakhs |
|--|-----------------------|

| File Description | Documents |
|-----------------------------------|-------------------------|
| Upload any additional information | No File Uploaded |

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

6.1.1 - The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the Institution

VISION:

To become an institute of academic excellence with international standards.

MISSION:

1. Impart quality education, along with industrial exposure.
2. Provide world-class facilities to students, to help them undertake research activities relevant to industrial and professional needs.
3. Promote entrepreneurship and value-added education that is socially relevant, along with economic benefits.

The Governance of the Institution is strictly in accordance with the Vision and Mission. The decentralized governance ensures better performance. The Governing Council, which has representatives from the faculty as well, offers its advice on all the functions, goals and important decisions. The Staff Council, headed by the Principal and Vice Principal, with HODs as members, ensures the proper implementation of the decisions and directions given. The Office Administration of the College is headed by the Registrar. There are several committees for implementing decisions and resolutions. The Institute consistently promotes a culture of participative management. The HODs are conferred department-level authority. The HOD communicates the responsibilities of the faculty members through regular staff meetings. The faculty members involve themselves in the implementation of the decisions of the department. Hence, at every level, there is participative management. The Institute has a perspective plan that helps to streamline various processes like evaluating the methodologies of the teaching-learning process, research progress, infrastructure facilities, Industry-Institute partnership etc. All planning and execution are monitored regularly. The financial perspective is also addressed well.

| File Description | Documents |
|---------------------------------------|---|
| Upload any additional information | View File |
| Paste link for additional Information | https://mvjce.edu.in/board-of-governors/ |

6.1.2 - Effective leadership is reflected in various institutional practices such as decentralization and participative management

The College promotes decentralized and participative management, and has various committees to implement decisions. Operational autonomy is provided to functionaries at every level - Vice Principal, HOD, faculty, students and supporting staff. The Principal is the Academic and Administrative head, followed by Vice Principal, department heads and unit heads on the hierarchy. As per government guidelines, various committees such as Grievance Redressal Committee, Internal Complaints Committee, Anti-Ragging Committee, SC/ST Committee and Women Empowerment Cell are in place. Besides, there are Institution level committees such as Research Committee, Exam Committee, Library Committee, Discipline Committee and Cultural Committee, functioning with operational powers. The Principal and the HODs

are bestowed with some financial powers, to purchase any material urgently needed for academic purposes.

| File Description | Documents |
|---|---|
| Upload strategic plan and deployment documents on the website | View File |
| Upload any additional information | View File |
| Paste link for additional Information | https://mvjce.edu.in/aicte-statutory-committees/ |

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ Perspective plan has been clearly articulated and implemented

The institute has a strategic plan which includes the following:

1. Constitution of IIEC:

To promote innovative ideas and entrepreneurship among students and staff, as per NISP policy of India.

2. Innovative Curriculum:

, MVJCE has revamped its curriculum considering the recommendation of

- NEP 2020
- AICTE (Model Curriculum)
- UGC
- VTU
- National and Societal requirements

Ability Enhancement courses are introduced from 2021-22.

3. NBA Accreditation:

NBA Compliance reports shall be submitted to get further extension for three years for three Programmes - Chemical Engineering, Electrical & Electronics Engineering and

Information Science and Engineering and to prepare for NBA Compliance visits.

4. Centres of Excellence:

Identify niche areas to develop Centres of Excellence based on the strength of the facilities and faculty which are already available.

5. Introduction of new UG Courses:

IQAC has suggested to start new course in B.E. in Industrial IoT with 60 intake and B.E in Computer Science and Design with 60 intake.

6. Formative Assessment:

It is suggested to implement Formative Assessment at least for one course in each Programme.

7. NIRF Ranking:

To analyse all the weak areas and plan action to be taken to improve the score in NIRF ranking to come within 300 band.

8.COVID CELL:

MVJCE has been taking continuous efforts and measures to ensure safety of all the students, faculty and staff members.

9. MVJ Merit Scholarship:

To help needy students and motivate meritorious students, MVJ College of Engineering provides financial assistance for meritorious students at Under Graduate and Post graduate levels, to impart technical skills which will ultimately benefit the society.

| File Description | Documents |
|--|---|
| Strategic Plan and deployment documents on the website | View File |
| Paste link for additional information | https://mvjce.edu.in/internal-quality-assurance-cell-igac/ |
| Upload any additional information | View File |

6.2.2 - The functioning of the various institutional bodies is effective and efficient as visible from the policies, administrative set-up, appointment and service rules, procedures, etc.

The Governing Council of MVJCE which is comprised of very eminent people from Industry and Academia, meets once in three months and interacts with faculty and students to understand the improvement areas, and provide the guidance necessary. The Academic Council monitors academic functions and approves the curriculum. The prime task of the IQAC is to develop a system for a conscious, consistent and catalytic improvement in the overall performance of the Institution. There are committees and clubs like DAC, BOS, BOE, Examination Committee, R&D, Budget Monitoring and Purchase Committee, Library Advisory Committee, Anti Ragging, TQM, Student Welfare, Grievance Redressal, Class Committee, Training and Placement, Professional Body, Sports Committee, Event Management, Technical Fest Committee, EDC, IIPC, Idea Box, Innovation Cell, Tomorrow's Engineers Club, FSIPD, Departmental Technical Clubs, Theatre Club, Music Club, Dance Club, Literary Club and ICC, where students and faculty members are members. Meetings are conducted regularly to discuss and implement the decisions and actions suggested by IQAC. The Principal provides necessary advice for effective implementation. All the policies and roles and responsibilities are well-defined in-service rules, and the coordinators/section heads enjoy the freedom to effectively implement official orders, in the best interest of all the stakeholders.

| File Description | Documents |
|---|---|
| Paste link to Organogram on the institution webpage | https://mvjce.edu.in/wp-content/uploads/2022/08/6.1.1-Org-Chart1.docx.pdf |
| Upload any additional information | View File |
| Paste link for additional Information | https://mvjce.edu.in/aicte-statutory-committees/ |

6.2.3 - Implementation of e-governance in areas of operation: Administration Finance and Accounts Student Admission and Support Examination

A. All of the above

| File Description | Documents |
|---|---------------------------|
| ERP (Enterprise Resource Planning) Documen | View File |
| Screen shots of user interfaces | View File |
| Details of implementation of e-governance in areas of operation | View File |
| Any additional information | View File |

6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has effective welfare measures for teaching and non-teaching staff and avenues for their career development/ progression

The following are the welfare measures extended to the teaching and non-teaching staff of the College.

- On-duty facility is provided to faculty attending Workshops /Conferences /Seminars, and for visiting Research organizations to carry out R&D.
- Faculty members are rewarded Rs. 5000 /Rs. 10,000 per paper, for publications in Scopus/SCI journals with a high impact factor.
- Faculty are awarded cash prizes for 100% results, and for generating funds through research projects.

- Faculty is given 60% of the Consultancy fees, for Consultancy projects.
- 7 days of Medical Leave can be availed by staff, in case of hospitalization.
- Women employees are eligible for a 6-month Maternity Leave, with 3 months' salary. •Men employees can avail a Paternity leave of 3 days.
- All eligible staff, as per the Staffs' Provident Fund legislation, are enrolled in the EPF scheme.
- Teaching staff are given financial support for attending conferences, workshops and seminars.
- Non-teaching staff are given financial support to pursue skill development.
- Uniform is provided for Instructors, Attenders and Security personnel.
- All staff members are covered under the Group Medical Insurance.
- In case of any financial emergency, staff can avail a personal loan.
- Transport and cafeteria facilities are provided to all staff, at a subsidized cost
- .Medical facility is provided to all staff members
- .ATM facilities are available on the campus.

| File Description | Documents |
|---------------------------------------|---|
| Upload any additional information | View File |
| Paste link for additional information | https://mvjce.edu.in/campus-life/%20https://mvjce.edu.in/research-development-cell/ |

6.3.2 - Number of teachers provided with financial support to attend conferences / workshops and towards payment of membership fee of professional bodies during the year

109

| File Description | Documents |
|---|---------------------------|
| Upload any additional information | View File |
| Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template) | View File |

6.3.3 - Number of professional development / administrative training programmes organized by the Institution for its teaching and non-teaching staff during the year

44

| File Description | Documents |
|--|---------------------------|
| Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres) | View File |
| Upload any additional information | View File |

6.3.4 - Number of teachers who have undergone online/ face-to-face Faculty Development Programmes during the year: (Professional Development Programmes, Orientation / Induction Programmes, Refresher Courses, Short-Term Course, etc.)

226

| File Description | Documents |
|---|---------------------------|
| Summary of the IQAC report | View File |
| Reports of the Human Resource Development Centres (UGC ASC or other relevant centers) | View File |
| Upload any additional information | View File |

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly

The Institution conducts internal and external financial audits regularly. An Audit will be conducted at the end of each

financial year. The auditors will visit the college at regular intervals and verify all financial transactions with the supporting documents and approval of proper authority for each financial transaction. The financial transactions are accounted in Tally ERP by the college. The audit is conducted in accordance with the Auditing standards generally accepted in India. They plan and perform the procedures to obtain 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 are accounted and financial statements like Balance sheet and Income and Expenditure are also verified.

Such financial statements will be signed and approved by the Auditor and Management. Based on the audited financial statements, the auditor will issue an Audit Report.

| File Description | Documents |
|---------------------------------------|---------------------------|
| Upload any additional information | View File |
| Paste link for additional information | Nil |

6.4.2 - Funds / Grants received from non-government bodies, individuals, and philanthropists during the year (not covered in Criterion III and V) (INR in lakhs)

1031830

| File Description | Documents |
|---|---------------------------|
| Annual statements of accounts | View File |
| Details of funds / grants received from non-government bodies, individuals, philanthropists during the year | View File |
| Any additional information | View File |

6.4.3 - Institutional strategies for mobilisation of funds and the optimal utilisation of resources

Sources of funds:

- For the institution the resources of funds are:
- Tuition fees collected from students and Fee collected for the other services like transportation, Gym, the registration fee for Workshops, Skill enhancement Programs, etc.,
- Grants from ISRO/AICTE/KSCST/IUCET/IICHE/IETE/DRDO
- Fees collected from students will be kept as the fixed deposits in the college bank accounts. Part of the fixed deposits will mature for a period of 30 days or less and part of them will be for a long-term period like 1-2 year.

Mobilizations of funds:

The short-term deposits will be used for the monthly salaries, campus and infrastructure maintenance, library book purchases, Faculty development and student skill development programmes, staff welfare, college promotional expenses etc. Loan term deposits will be used for any infrastructure construction or development at the campus.

Fund's utilization strategies:

All Departments propose their budget at the beginning of every financial year. According to the financial requirements of each department, the budget will be allocated annually. Periodic monitoring of the utilization of the funds allocated is done by the Budget and Purchase Committee to ensure optimal utilization of the resources according to the plan. Quarterly budgets are prepared to ensure that funds are utilized and to allot to the areas where it is deficient.

| File Description | Documents |
|---------------------------------------|---|
| Upload any additional information | View File |
| Paste link for additional Information | https://sgeio-my.sharepoint.com/:b:/g/personal/jeeva_b_mvjce_edu_in1/EReDclyx3mVHg2n5joFQsRkB6_vBjKgyIQm5iEK_Tjggw?e=TAdXS7 |

6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing quality assurance strategies and processes visible in terms of incremental improvements made during the preceding year with regard to quality (in case of the First Cycle): Incremental improvements made during the preceding year with regard to quality and post-accreditation quality initiatives (Second and subsequent cycles)

The vibrant Internal Quality Assurance Cell (IQAC) of MVJCE was established in 2012 as per the norms of NAAC, with a vision to streamline the quality initiatives of the Institution. The Institution has a well-defined policy for quality assurance which is ensured by the effective participation from all stakeholders. The IQAC coordinator interacts with various functionaries for effective implementation of IQAC, and appraises the Chairperson of IQAC from time to time. IQAC meets periodically and records its deliberations, suggesting improvements if required, in any academic/administrative function.

Design of an Innovative Curriculum:

The IQAC of MVJCE facilitates the creation of a learner-centric environment conducive to quality education, and the faculty maturation needed to adopt knowledge and technology for the participatory teaching and learning process. MVJCE has designed an autonomous curriculum to make a shift from rote learning to experimental learning, to meet the motto of OBE and NEP. For every theoretical concept, an experimental study and its analysis have been introduced, for better understanding by students. A course is divided into five modules and every module has laboratory sessions to facilitate experimental learning. Ability Enhancement Courses are also introduced. During the pandemic, online tools, open-source software, and virtual labs were used to conduct experiments, and faculty members were trained to handle these tools.

Innovative Projects:

Experiential learning has motivated students to do many innovative projects - 50 projects have been developed by our students, in this academic year alone, which number is only increasing year after year.

| File Description | Documents |
|---------------------------------------|---|
| Upload any additional information | View File |
| Paste link for additional information | https://www.mvjce.edu.in/files/project_book/Project-Book-2021-22.pdf |

6.5.2 - The institution reviews its teaching-learning process, structures and methodologies of operation and learning outcomes at periodic intervals through its IQAC as per norms

IQAC reviews the teaching-learning process, structures and methodologies of operations and learning outcomes, periodically. The Academic Calendar is prepared in advance, displayed in the Institution, and strictly followed. It is mandatory for every new student to attend the Orientation Programme, where they learn about the philosophy of the College, the uniqueness of the education system, the teaching-learning process, the system of continuous evaluation, compulsory core courses, the co-curricular activities, and above all, the discipline and culture of the Institution. The students are also given a guided tour of the campus and the facilities available here.

Class Committees take student feedback regularly, and appropriate steps are taken to enhance the teaching-learning process. Feedback from students is also taken individually by teachers, by Proctors, and also directly through IQAC. Students are free to approach the Head of the Institution, too, for feedback and suggestions.

The teaching-learning processes are reviewed, and improvements are implemented, based on the IQAC recommendations. IQAC organizes regular academic audits to ensure effective implementation of teaching-learning and maintenance of course files. The following measures are carried out by IQAC:

- **Verifying internal test analysis, and question papers.**
- **Arranging special classes for weak students.**
- **Identifying new processes/delivery methods and recommending these for improving quality**
- **Analyzing deviations from the benchmarks and reporting these.**
- **Collecting feedback from the stakeholders (students, alumni, industry experts, research organizations and parents) and taking corrective actions.**

- Encouraging faculty to do online certification Courses (NPTEL, MOOCS etc.).
- Faculty Development and Skill Development Training Programmes are organized frequently.

| File Description | Documents |
|---------------------------------------|---|
| Upload any additional information | View File |
| Paste link for additional information | https://mvjce.edu.in/internal-quality-assurance-cell-iqac/ |

6.5.3 - Quality assurance initiatives of the institution include Regular meeting of the IQAC Feedback collected, analysed and used for improvement of the institution Collaborative quality initiatives with other institution(s) Participation in NIRF Any other quality audit recognized by state, national or international agencies (such as ISO Certification)

A. Any 4 or all of the above

| File Description | Documents |
|--|---|
| Paste the web link of annual reports of the Institution | https://www.mvjce.edu.in/accreditation_https://sgeio-my.sharepoint.com/:b:/g/personal/jeeva_b_mvjce_edu_in1/EU0XCavCFBtCl4pvHQ0KvjgBLMtypw18Rq7PJyBoRkOCWA?e=sE2M4M |
| Upload e-copies of accreditations and certification | View File |
| Upload details of quality assurance initiatives of the institution | View File |
| Upload any additional information | View File |

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

MVJCE has been taking specific initiatives to facilitate gender equality and women empowerment:

1. **Women Empowerment Cell:** WEC aims to empower girl students, to ensure their safety in the college campus, and to tackle women centric issues. WEC conducts various programmes to educate and sensitize both male and female members and create a harmonious atmosphere on the campus.

2. **Internal Compliance Committee:** The objective of ICC is the prevention, prohibition, and redressal of sexual harassment of women employees and students. ICC hears complaints and grievances related to incidents of sexual harassment. The Committee members are ever vigilant and ensure that no untoward incidents occur on the campus, by creating awareness and having open dialogues with students and staff.

3. **Anti-Ragging Committee.** The Anti-Ragging Committee aims to prevent and prohibit ragging in the campus. MVJCE leaves no stone unturned to ensure the safety and security of students and staff. Around 375 CCTVs are deployed across the campus, for round-the-clock vigilance and surveillance. Separate timings are earmarked for girls to utilize the gym facilities; there are separate elevators for girls and lady staff. There are separate Common Rooms for boys and girls, with indoor game facilities, magazines, and newspapers. There is an exclusive Common Room for faculty too, to create a stress-free environment for them. Many Gender Equality Promotion programmes are arranged in the MVJCE campus, from time to time.

| File Description | Documents |
|---------------------------------------|---|
| Upload any additional information | View File |
| Paste link for additional Information | https://mvjce.edu.in/aicte-statutory-committees/ |

7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation: Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power-efficient equipment

A. Any 4 or All of the above

| File Description | Documents |
|--------------------------------|---------------------------|
| Geotagged Photographs | View File |
| Any other relevant information | View File |

7.1.3 - Describe the facilities in the institution for the management of the following types of degradable and non-degradable waste (within a maximum of 200 words)

MVJCE adopts the best practices in the management and recycling of solid and liquid waste, e-waste and waste generated from hazardous chemicals.

1. Solid Waste management: All the waste from the college premises, canteen and hostel is collected and segregated into wet, dry and plastic waste. Biodegradable materials such as fruit peels, tea and coffee grains are converted into manure in compost pits. Non-biodegradable materials such as paper and plastic are segregated and resold. Dry leaves collected from the campus are converted into compost by rapid composting unit.

2. Liquid Waste management: MVJCE utilizes Rainwater Harvesting technology to collect and store rainwater from clean surfaces. The wastewater from the entire campus is treated at our Sewage Treatment Plant. The treated water is then used in the toilet flush tanks, or to water the college garden. The drinking water in the campus is also analysed and checked for its potability, every week.

3. E-waste management: All e-waste is disposed to the Municipal Corporation. The printer cartridges are refilled outside the college campus. UPS Batteries are recharged /repaired /exchanged with the suppliers. Waste compact discs and other computer parts are used by students in the Tinkering Lab.

| File Description | Documents |
|---|---------------------------|
| Relevant documents like agreements/MoUs with Government and other approved agencies | View File |
| Geotagged photographs of the facilities | View File |
| Any other relevant information | View File |

7.1.4 - Water conservation facilities available in the Institution: Rain water

A. Any 4 or all of the above

harvesting Bore well /Open well recharge
Construction of tanks and bunds Waste
water recycling Maintenance of water
bodies and distribution system in the
campus

| File Description | Documents |
|---|---------------------------|
| Geotagged photographs / videos of the facilities | View File |
| Any other relevant information | View File |

7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for greening the campus are as follows:

- 1. Restricted entry of automobiles**
- 2. Use of bicycles/ Battery-powered vehicles**
- 3. Pedestrian-friendly pathways**
- 4. Ban on use of plastic**
- 5. Landscaping**

A. Any 4 or All of the above

| File Description | Documents |
|--|---------------------------|
| Geotagged photos / videos of the facilities | View File |
| Various policy documents / decisions circulated for implementation | View File |
| Any other relevant documents | View File |

7.1.6 - Quality audits on environment and energy undertaken by the institution

7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following:

- 1. Green audit**
- 2. Energy audit**
- 3. Environment audit**
- 4. Clean and green campus recognitions/awards**
- 5. Beyond the campus environmental**

A. Any 4 or all of the above

| promotional activities | |
|---|-------------------------------------|
| File Description | Documents |
| Reports on environment and energy audits submitted by the auditing agency | View File |
| Certification by the auditing agency | No File Uploaded |
| Certificates of the awards received | No File Uploaded |
| Any other relevant information | View File |
| 7.1.7 - The Institution has a disabled-friendly and barrier-free environment: Ramps/lifts for easy access to classrooms and centres Disabled-friendly washrooms Signage including tactile path lights, display boards and signposts Assistive technology and facilities for persons with disabilities: accessible website, screen-reading software, mechanized equipment, etc. Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading materials, screen reading, etc. | A. Any 4 or all of the above |
| File Description | Documents |
| Geotagged photographs / videos of facilities | View File |
| Policy documents and brochures on the support to be provided | View File |
| Details of the software procured for providing assistance | No File Uploaded |
| Any other relevant information | View File |
| 7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e. tolerance and harmony towards cultural, regional, linguistic, communal, socio-economic and other diversities (within a maximum of 200 words). | |
| Activities such as celebration of days in memory of eminent personalities and celebration of National festivals pave the | |

way for an inclusive environment, by bringing students and teachers from diverse backgrounds on a single platform. India is a unique nation, whose fabric has been woven from diverse linguistic, cultural and religious threads, held together into a composite national identity. MVJCE spares no efforts to reinforce this unity in diversity through various activities and initiatives that bring together young minds from different milieus.

MVJCE has an EBSB (Ek Bharat Shreshtha Bharat) Cell, which organizes programmes to promote understanding and enhance interaction between people of different states through the concept of State/Union Territory pairing.

An event on Art & Culture of Karnataka by Dr. Vivkanand Huddar (ME) was organised. The session was about the different art forms, clothing and Cuisine, important places to visit, various festivals, in Karnataka.

A physical activity session was conducted on the topic "Talk on Uses of Yoga & Meditation, Introduction to Asanas" by Mr. Mohan Kumar CR. The speaker laid emphasis on the importance of Yoga and controlling health by doing yoga.

| File Description | Documents |
|--|---------------------------|
| Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution) | View File |

7.1.9 - Sensitization of students and employees of the institution to constitutional obligations: values, rights, duties and responsibilities of citizens:

Just as we have duties towards our family, we all have a duty towards our country also. MVJCE organizes various activities to sensitize its students and employees to their constitutional obligations: the values, rights, duties and responsibilities, as citizens of India.

The events conducted include,

- Awareness Camp on Scheme and Services by India Post was organized by the NSS unit of MVJCE.
- The NSS unit of MVJCE organized a COVID-19 RTPCR Test Drive -2021, in association with BBMP, for students and

employees of the institution.

- The NSS unit of MVJCE organized, "COVAXIN" 2nd dose vaccination drive on 18th February 2022 for all students and faculty members of the institution.

| File Description | Documents |
|---|---------------------------|
| Details of activities that inculcate values necessary to transform students into responsible citizens | View File |
| Any other relevant information | No File Uploaded |

7.1.10 - The institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic sensitization programmes in this regard: The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff Annual awareness programmes on the Code of Conduct are organized

A. All of the above

| File Description | Documents |
|--|---------------------------|
| Code of Ethics - policy document | View File |
| Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programmes, etc. in support of the claims | View File |
| Any other relevant information | No File Uploaded |

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

India is a land of cultural diversity. Many festivals are celebrated and each of these has its own significance. MVJCE regularly celebrates and organizes commemorative days, events and festivals.

The following events were celebrated during the academic year 2021-22:

- The 54th Engineer's Day celebration was organized by the Department of Civil Engineering, MVJCE, to commemorate 160th birth anniversary of Bharat Ratna Sir Mokshagundam Visvesvaraya, on 15th September 2021
- Kannada Rajyotsava was celebrated on 12th November 2021.
- The 73rd Republic Day was celebrated in college Campus on 26th January 2022.
- The Department of Mathematics, MVJ College of Engineering organized an event 'Mathematical Reasoning' and an invited talk on the occasion of International PI Day - 2022, on 14th March 2022.
- The National Anti-Terrorism Day was organized in MVJ College of Engineering, on 21st May 2022.
- The MVJCE celebrated 75th Independence Day in the College, with a lot of fervour.

| File Description | Documents |
|--|---------------------------|
| Annual report of the celebrations and commemorative events for during the year | View File |
| Geotagged photographs of some of the events | View File |
| Any other relevant information | No File Uploaded |

7.2 - Best Practices

7.2.1 - Provide the weblink on the Institutional website regarding the Best practices as per the prescribed format of NAAC

Practice 1 - Introduction of Ability Enhancement Courses:

MVJCE has introduced 11 innovative programmes at I Year to expose the students to more industry related activities and prepare them Industry ready by the time they move out of the college. While introducing such specific activities, the sole objective has been to equip the students to face the demands of the industries. The following Programmes have been introduced as an Ability Enhancement Courses as a 1 credit course in I and II semesters. Students were given choice to select courses based on their interest.

- Idea Box
- Tomorrow's Engineers
- Tinkering Lab
- UAV
- Astronomy
- Robotics and Industrial Automation Lab
- IoT
- FSIPD
- Software Development
- LabVIEW
- CNC Programming

These programmes vastly helped to inculcate creative and innovative thinking in students, to train them to develop problem solving skills, as well as, to give them an opportunity to design and develop meaningful projects providing solution to some of the societal / industrial problems.

Practice 2 - Gearing up for Covid norms of Online teaching
Covid suddenly demanded a non-contact based teaching learning methodology. This required both attitude change by faculty and digital accessories for imparting online learning. The Institution quickly provided all necessary gadgets for online teaching. The faculty were quickly trained and geared up soon for conducting both theory and Lab classes in online mode. The Institution also geared up with necessary software support system for conducting proctored online assessments.

| File Description | Documents |
|---|---|
| Best practices in the Institutional website | https://mvjce.edu.in/internal-quality-assurance-cell-igac/ |
| Any other relevant information | https://mvjce.edu.in/wp-content/uploads/2022/01/MVJCE-_AEC_SYLLABUS-2021-22.pdf |

7.3 - Institutional Distinctiveness

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 200 words)

Efforts taken to overcome COVID19 Pandemic in the campus

MVJCE has been taking continuous efforts and measures to ensure safety of all the students, faculty and staff members.

The initiatives taken are below:

- Formation of Nodal team to take precautionary measures.
- Strict adherence to Precautionary measures as per Government SOP
- Monitoring the movement of students, faculty and staff members within the campus
- Temperature is monitored for all the students and staff everyday when they enter the campus.
- Design of Face Shield and usage of face shield during End semester Examination.
- Preparation of Sanitizers in the campus and distributed to all the Departments
- Doorknobs are sanitized frequently
- Hand wash is in all the washrooms.
- Organized RTPCR test for all faculty and staff members
- Organized Vaccination Drive for staff aged above 45.
- Conduction of online class and usage of Technology in Education to teach laboratory experiments.
- Use of Technology in Education for Preparation of LMS/ Study materials
- Preparation of online quizzes/Assignments/Flipped Classes
- Usage of Virtual labs/open source tools

- Recording of Lab experiments:

Experiments which cannot be conducted using Virtual labs, open source tools/software are recorded using video. Faculty created scripts to describe how to conduct the experiments, connect components, operate the machine, and how to execute it. 70 videos are created for various labs of all the programmes and shared with students.

- Conduction of online Continuous internal Assessment using Proctored mechanism.

- Conduction of VIII Semester (offline) Examinations as per the guidelines of the University

| File Description | Documents |
|---|---|
| Appropriate link in the institutional website | https://mvjce.edu.in/internal-quality-assurance-cell-igac/ |
| Any other relevant information | View File |

7.3.2 - Plan of action for the next academic year

2022-23:

- 1.Design of curriculum with a focus on Multidisciplinary education.
- 2.Introduction of Mathemartics lab at I year
- 3.Providing Intra-Institutional Internship to all the students of I year and provide hands on experience by involving them to do innovative projects.
- 4.Introduction of MOOC courses in the curriculum
- 5.Enhance the number of research publications
- 6.Enhance the quality of students projects
- 7.Get NBA Accreditation for all the eligible courses.
8. Establish Centres of Excellence in niche areas.