



SELF STUDY REPORT

FOR

1st CYCLE OF ACCREDITATION

**DR. J. J. MAGDUM COLLEGE OF ENGINEERING,
JAYSINGPUR**

GAT NO. 289 (314/330), SHIROL-WADI ROAD, AGARBHAG, JAYSINGPUR,
DISTRICT - KOLHAPUR.

416101

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SSR SUBMITTED DATE: 09-09-2022

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

September 2022

1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Dr. J. J. Magdum College of Engineering (Dr.JJMCOE), Jaysingpur, was founded in 1992 as a self-funded institution affiliated with Shivaji University, Kolhapur, and approved by the All India Council for Technical Education, New Delhi. Under the banner of Dr. J.J.Magdum Trust, a medical practitioner and social reformer Dr. J. J. Magdum with the explicit vision of providing sustainable impetus to society, corporate and entrepreneurial abilities in the youth, started top quality graduate and post-graduate courses in the fields of medicine, pharmacy, nursing, architecture, ITI, and engineering. In 2003, the Maharashtra government designated the institute as a 'A' Grade Institute, and it was also TCS accredited.

The campus is 8.53 acres in size and offers superior education in five undergraduate and one post graduate programme, three of which were formerly NBA certified. The institute offers a fantastic infrastructure, as well as well-equipped laboratories, a large central library, and numerous other amenities. The institute offers 801 cutting-edge computer systems, cutting-edge software, a 100 mbps internet lease line, and Wi-Fi coverage throughout the entire campus. Students are groomed into industry-ready engineers with high ethical principles by a team of well-qualified, experienced professors.

Dr. JJMCOE is dedicated to providing superior engineering education in order to prepare graduates by instilling domain knowledge, necessary skills, and the proper attitude. It has an excellent academic reputation, continuously generating outstanding university rankers each year, with a total of 105 rankers to date.

The institute's Outcome Based Education programme aims to produce engineering graduates who are capable of tackling a wide range of issues in a local and global context. Through participation in extracurricular activities such as NSS, intercollegiate athletics, and cultural events, the Institute has always aimed to instil life skills in its students, and has received numerous honours.

Over time, the alumni's contributions to the benefit of society in both the local and global context have elevated the institute to a prestigious status.

Vision

To be a leading academic organization, creating Skilled and Ethical Human Resource by leveraging Technical Education for Sustainable Development of Society.

Mission

1. To produce Competent Technocrats to meet modern societal and industrial challenges.
2. To create ethical and skilled human resources through quality education and various

Extension activities and outreach programs

3. To leverage technical expertise to solve societal issues for its sustainable Development.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

- Visionary Leadership.
- Strategic location of Campus.
- A lush green campus with cutting-edge infrastructure.
- The workforce is dedicated to quality, has a good attitude, and a strong work ethic.
- Conducive Research Culture
- Outstanding student support services
- Well-defined examination and evaluation processes
- Consistency in academic result and student's university ranking.
- Societal Connect to solve regional relevant problems

Institutional Weakness

- Restriction on Academic Flexibility as institute is affiliated to university.
- Lagging in major research projects
- Lack of meritorious students at entry level
- Short of Industrial Consultancy
- Need to focus on patent filing and product development

Institutional Opportunity

- Scope for strengthening the industry institute interaction.
- To be recognised as an Autonomous Institution
- Establishment of a centre of excellence with industrial cooperation

- Scope of enhancing interactions with alumni.
- To fetch more research grants .
- To establish a centre for incubation.

Institutional Challenge

- To attract meritorious students
- Excellency in Language Proficiency.
- Execution of collaboration with foreign Institutions
- To Increase placements in core industries

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

The undergraduate engineering courses have been developed in conformity with AICTE criteria, affiliating university guidelines, and are in line with the Institution's vision and goal.

A good curriculum implementation and content delivery system is required for effective curriculum implementation and content delivery.

The process of planning, developing, checking, and analysing is followed by faculty members.

At the university level, actively participate in curriculum revision sessions. A feedback method is used to gather constructive input from diverse stakeholders, allowing the curriculum and content delivery to be improved.

The curriculum for undergraduate engineering programmes is shaped in the form of Humanities, Basic and Engineering Sciences, Mathematics, Professional Core and Open Electives, and Skill Development courses, taking into account technological improvements. Overall development and knowledge acquisition are prioritised. Mini projects, laboratory and project work, technical report writing, and instruction in the most up-to-date software and technologies are all included in the technical skills section of the programme. Through courses such as soft skills, audit courses, and various other activities of the institute, the curriculum has included cross cutting topics such as gender equality, environmental sustainability, human values, and professional ethics.

Teachers are encouraged to use innovative teaching methods such as presentations, assignments, group discussions, seminars, industry visits, and projects in addition to standard chalk and talk approaches. Students

are urged to enrol in relevant certificate courses in order to improve their job prospects. Students are encouraged to participate in internships and to focus on and find answers to societal problems as part of their academic assignments.

During the semester, the institution collects student input on teacher performance. Students, faculty, parents, employer and alumni provide feedback on the curriculum. It is examined, and the data is utilised to improve student performance.

Teaching-learning and Evaluation

JJMCOE recognizes that students come from a variety of backgrounds and have varying learning abilities. The university understands the need of providing the most up-to-date technologies, particularly for today's students who are digital natives.

Induction programs are held for new students to expose them to the curriculum, academic facilities, and to instill human values, self-awareness, and leadership.

Slow learners are identified and remedial actions are implemented to help them learn faster.

Advanced learners are encouraged to participate in Hackathons, design competitions, and other research-oriented activities. The institute has a Proctor Cell, where each professor is allocated roughly twenty pupils and the Proctor acts as their local guardian.

The institute has a philosophy of hiring highly trained and experienced teachers in accordance with AICTE guidelines, which has helped to improve the teaching-learning process. NPTEL lectures help to improve learning experiences by using experiential learning, participatory learning, and problem-solving approaches. Role-playing, conceptual mapping, case studies, problem-solving, and practical design sessions are used. Various innovative techniques and ICT resources are employed in conjunction with traditional pedagogies to support student-centered and professional learning. The institute has a well-stocked library with a wide range of texts, reference volumes, periodicals, journals, and e-learning materials. Discipline-specific technical training programs are conducted to bridge the gap between the curriculum and industry requirements. Guest lectures, workshops, conferences, and other events are held to help students improve their domain expertise.

With transparent Continuous Internal Evaluation(CIE), an Outcome Based Education (OBE) is used to measure the success of the teaching and learning process .

Co-curricular activities are encouraged, as they aid in the development of teamwork and leadership skills.

By participating in Open Source Programs, STTP, and FDP, faculties incorporate innovative ideas/creativity into the teaching-learning process

Research, Innovations and Extension

Under the direction of R&D dean, the institute has formed R&D cell. The institution has hosted seminars and workshops on Intellectual Property Rights (IPR), industry academia practises, and faculty development initiatives throughout the last five years. Almost every member of the teaching staff has attended an orientation

and refresher course. Many faculty members attend seminars and workshops on a regular basis and publish research papers in peer-reviewed journals as well as textbooks. Institute maintains a large and well-stocked library to support research activities.

The library subscribes to research journals, magazines, and e-journals to assist research in multidisciplinary and transdisciplinary domains. All academic and industry-institute financed projects are supported, channelled, provided with required financial aid, and regulated by the Institute to ensure that research programmes are carried out smoothly. Faculty and students are encouraged to engage in research, submit patent and copyright applications. Field visits are intended to bridge the gap between theory and practise for students.

During the last five years, NSS has done a number of extension and outreach programmes in conjunction with industry, the community, and non-governmental organisations. Also Students are taking part in extension activities in conjunction with industry, the community, and non-governmental organisations. During the last five years, extension activities have included Sakshar Bharat Abhiyan, Gram Swacchatha Abhiyan, Loakshai Pandharawada, new voters registration, Blood Donation Camp, Swachha Bharat Abhiyan, Cashless Economy Workshop, Tree Plantation Program, and so on.

The institution have functional Memorandums of Understanding in place to provide students with field projects and internships.

Infrastructure and Learning Resources

To improve teaching-learning effectiveness, our Institute tries to provide the best infrastructure and facilities in accordance with the mandated criteria. Classrooms, laboratories, tutorial rooms, and seminar halls are all well-equipped at the Institute. The classrooms are well-lit, well-furnished, and roomy with sufficient ventilation. They are kept in good working order to provide proper visibility and audibility.

Our physical infrastructure includes spacious and ergonomically constructed 27 number of classrooms, 11 number of tutorial rooms, 44 number of labs, 04 number of seminar halls, computer centre, workshop, and T & P cell.

A central library with a floor size of 710 Sq.m and a reading space of 160 Sq.m serves the institution. The Library also has a collection of over 12718 titles, 44565 volumes, and subscribes to 809 E-Journals like ASME, ASC, Elsevier, IEEE, and others, as well as 4433 E-Books and 49 printed Journals and magazines. All students and employees can access the E-Journals via LAN-WAN (campus wide network) and remote access with multi-user capability.

The institute has a large network of 743 computers, 05 servers, a Wi-Fi enabled campus, and a dedicated network bandwidth of 100 Mbps as well as a secure firewall. With 29 cameras and 1 TB of storage, the campus is under surveillance.

The institute has a gymnasium, open playgrounds for outdoor games, and a competent Physical Director to provide guidance. Students are encouraged to compete at the college level, as well as at the intercollegiate, interuniversity, state, and national levels.

A maintenance staff, led by the Administrative Officer/Registrar, is in charge of keeping the classrooms, library, laboratories, and playgrounds in good working order. Cricket ground, Kho-Kho, Kabadi, Volley Ball

court, table tennis boards, gymnasium, and enough sports equipment are made available at the institute for various sports/games activities. As hospitable facilities for differently able students, the institute provides ramps, lift, wheel chair, special bathrooms, and rest room. Maintenance and utilisation of infrastructures related to academic, co-curricular, extra-curricular activities, and other basic amenities are carried out according to well-planned procedures.

Student Support and Progression

Institute has an effective and efficient system for holistic development of students in academics, co-curricular and extracurricular activities.

Students are given one weeks Induction programme when they enter the college. This programme comprises of modules like awareness on university regulations regarding minimum attendance and credits, campus rules and regulations, best practices, anti ragging, health and yoga, career opportunities, different job roles and skills required and special training and certification programmes available in the college.

The Institute has a well-established system for notifying students about various welfare programmes, such as scholarships, freeships, and student safety insurance. State government agencies provide financial help to economically and socially disadvantaged students. The college administration also provides financial aid to needy pupils. Academically challenged pupils receive remedial coaching in order to improve their grades. In the second year, bridge courses are offered to lateral entry students to bridge the curriculum gaps.

Students in the department receive instruction on ICT tools, an overview of online courses such as MOOCS, SWAYAM, and NPTEL courses.

Different cells have been formed for Career counselling, Grooming, and Personality development, Competitive Examination, and to make students aware of Entrepreneurship. The Training and Placement unit is in charge of trainings and student placement.

A Proctor cell exists at the institute. Alumni play an important role in inspiring students, informing them about business trends and practises, and in determining how further training programmes on campus might be tailored to match industry demands.

Students are encouraged to participate in numerous responsible administrative positions through the active student council, different committees and student associations.

Cultural committees organises variety of cultural activities to help students to develop their talents.

Under the direction of the Physical Director, an exclusive sports committee has been formed to prepare students for various intercollege and interuniversity sports contests. The NSS instils human and social values in students through arranging activities such as Blood donation camps, Swachh Bharat Abhiyan, Road safety campaigns, Plantations, and Commemorations of national heroes' birthdays.

The college also has a transparent system in place for resolving student issues in a timely manner.

Governance, Leadership and Management

The institute has a well-defined organisational structure, and the trust's policies, as well as the policies of the Board of Governors and numerous committees, are executed. As part of participatory management, faculty are represented on the BOG, CDC, Statutory, and non-statutory committees. Representatives of teachers, non-teaching staff, and students participate in various committees of the institution as part of decentralisation. Admissions, finance and accounts, and examinations are among the areas where e-governance has been introduced.

Faculty are encouraged to participate in faculty development programmes, refresher courses, workshops, and conferences, and are financially supported through travel allowance, daily allowance, and registration fees and other things. For the personal and professional improvement of faculty and staff, the college conducts a number of welfare programmes. Gratuity, maternity leave for women, provident fund, and so on are examples.

Teaching faculty participate in professional development programmes, whereas non-teaching participate in administrative/technical training.

The college's financial resources are effectively managed. Purchase procedures and standards are closely adhered to, and they are in conformity with the budgetary arrangements created for this reason. The accounts are audited on a regular basis.

For teaching and non-teaching employees, the Institute maintains a Performance Appraisal System.

Through their united efforts to investigate, analyse, and improve every activity, the Internal Quality Assurance Committee is always evaluating advancements in quality and assists in achieving academic excellence.

Institutional Values and Best Practices

In terms of academics, finance, and administration, the institute adheres to all regulatory standards and maintains complete transparency in all of its operations. The institute recognises and accommodates the needs of female staff and students in terms of safety, security, and counselling, and has created appropriate provisions.

Our college places a strong emphasis on cleanliness and hygiene. The college has taken environmentally responsible approach to campus maintenance, focusing on tree planting, water harvesting and sewerage disposal. A waste management system is in place to ensure that dry and moist trash are properly disposed. Ramps, lift, and other accessibility features have been provided for differently abled pupils.

The institute has taken notable measures to improve academic-industry connection, including as industrial visits, internships, in-plant training, and the "One Faculty-One Industry project."

The students take part in Swachh Bharat activities, hold blood donation camps, and help individuals who have been afflicted by natural calamities.

The HR Manual outlines the tasks and responsibilities of administrative positions, teachers, and staff, as well as the student code of behaviour.

Academic performance relies heavily on best practises. Some of the Institute's Best Practices include: -

Departmental Research Committee (DRC) supports students' research abilities and the quality of their research projects. Students have registered for patents and copyright as a result of the DRC. Students have also publications in a variety of national and international journals and conferences.

Departmental Advisory Board(DAB) is constituted in each department through which we receive inputs and recommendations for the growth of department.

As per tagline we guide students to set their goal in career in many fields such as higher studies, competitive exams, campus placement, entrepreneur, etc.

To encourage students Awards such as Best Outgoing Student and Academic Excellence Award are issued every year, which consists of cash prize,Trophy along with Certificate.

The institution stands out for its careful Teaching-Learning process, which includes creative teaching approaches, continuous learning and assessment, effective monitoring, support for students from varied backgrounds ,excellent examination and evaluation systems.

College has demonstrated significant diversity in its endeavours, which span every sector of endeavour. The fundamental motivation for raising educational standards has been innovation and best practises.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	DR. J. J. MAGDUM COLLEGE OF ENGINEERING, JAYSINGPUR
Address	Gat No. 289 (314/330), Shirol-Wadi Road, Agarbhag, Jaysingpur, District - Kolhapur.
City	Jaysingpur
State	Maharashtra
Pin	416101
Website	www.jjmcoe.ac.in

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal(in-charge)	Shubhangi Babasaheb Patil	02322-221123	9422618670	02322-221825	principal@jjmcoe.ac.in
IQAC / CIQA coordinator	Pooja Prasad Belagali	02322-221123	9158895225	02322-221825	pooja.belgali@jjmcoe.ac.in

Status of the Institution	
Institution Status	Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minority institution	No

Establishment Details

State	University name	Document
Maharashtra	Shivaji University	View Document

Details of UGC recognition

Under Section	Date	View Document
2f of UGC		
12B of UGC		

Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)

Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
AICTE	View Document	30-04-2021	12	

Recognitions

Is the College recognized by UGC as a College with Potential for Excellence(CPE)?	No
Is the College recognized for its performance by any other governmental agency?	No

Location and Area of Campus

Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	Gat No. 289 (314/330), Shirol-Wadi Road, Agarbhag, Jaysingpur, District - Kolhapur.	Rural	8.53	14910

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	Name of Programme/Course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BTech,Civil Engineering	48	H. S. C. Passed with PCM/B 50 % including CET Score/JEE score	English	120	7
UG	BTech,Mechanical Engineering	48	H. S. C. Passed with PCM/B 50 % including CET Score/JEE score	English	60	0
UG	BTech,Computer Science And Engineering	48	H. S. C. Passed with PCM/B 50 % including CET Score/JEE score	English	60	60
UG	BTech,Information Technology	48	H. S. C. Passed with PCM/B 50 % including CET Score/JEE score	English	60	55
UG	BTech,Electronics And Telecommunication Engineering	48	H. S. C. Passed with PCM/B 50 % including CET Score/JEE score	English	60	38
PG	Mtech,Civil Engineering	24	BE Civil / Valid GATE Score	English	18	5

Position Details of Faculty & Staff in the College

Teaching Faculty												
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	1				0				23			
Recruited	1	0	0	1	0	0	0	0	17	6	0	23
Yet to Recruit	0				0				0			
Sanctioned by the Management/Society or Other Authorized Bodies	2				0				63			
Recruited	1	1	0	2	0	0	0	0	31	32	0	63
Yet to Recruit	0				0				0			

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				44
Recruited	37	7	0	44
Yet to Recruit				0

Technical Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				21
Recruited	19	2	0	21
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				0
Recruited	0	0	0	0
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	2	1	0	0	0	0	5	3	0	11
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	43	35	0	78
UG	0	0	0	0	0	0	0	0	0	0

Temporary Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0
UG	0	0	0	0	0	0	0	0	0	0

Part Time Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0
UG	0	0	0	0	0	0	0	0	0	0

Details of Visting/Guest Faculties				
Number of Visiting/Guest Faculty engaged with the college?	Male	Female	Others	Total
	5	5	0	10

Provide the Following Details of Students Enrolled in the College During the Current Academic Year

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	112	0	0	0	112
	Female	54	0	0	0	54
	Others	0	0	0	0	0
PG	Male	3	0	0	0	3
	Female	2	0	0	0	2
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years

Programme		Year 1	Year 2	Year 3	Year 4
SC	Male	11	2	7	23
	Female	4	2	0	7
	Others	0	0	0	0
ST	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
OBC	Male	17	13	19	0
	Female	7	8	14	51
	Others	0	0	0	32
General	Male	82	44	67	153
	Female	45	23	32	98
	Others	0	0	0	0
Others	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
Total		166	92	139	364

Institutional preparedness for NEP

1. Multidisciplinary/interdisciplinary:	<p>Institute is an affiliated college to Shivaji University, Kolhapur which is a state university, it has to follow a road map or guidelines prepared and provided by the State Government. As per University guidance/directives to implement the multidisciplinary / interdisciplinary structure of New Education Policy, the Institute will abide by it. The institute has kept pace with the development that has taken place in the engineering/ technological education in the country and also across the globe and faculty members have encouraged students to seek out-of-the-box solutions for difficult engineering problems. The institute brings students from different departments together to organize final year project competition and other different technical activities such as MODRA, ACCENT, SPECTRUM, IGNITION, TECH-ART etc, where students from different disciplines participate. Besides this, faculty members or resource persons were invited from other disciplines in every academic session. In this manner, seeds of multidisciplinary education are sown</p> <p>Conventional practice like modification of syllabi takes place as per guide lines of University. New courses are introduced, keeping an eye on the change in the marketplace and global demand. Thus in 2022-23, new courses in UG like Computer Science and Engineering (Artificial Intelligence and Data science) and in PG Master in Computer Applications will be started in the institute.</p>
2. Academic bank of credits (ABC):	<p>The draught of NEP had provisions for an academic bank of credit that would have allowed for many ports of entry and exit for students' academic programs. To earn and deposit credit through national programs like SWAYAM, NPTEL, and V-Lab is a creative idea. However, as the Institute follows the structure and curriculum created by the affiliated university, which has included Certification courses such as NPTEL, SWYAM, MOOCS, COURSERA, etc. for a few disciplines. Although it hasn't been fully adopted, the institute has started value-added courses for each department in addition to the curriculum.</p>
3. Skill development:	<p>As per university regulations, the Institute has included skill development-related curriculum in the course. The institution already offers skill training programs under the heading of value-added courses</p>

	<p>(VAC). Additionally, we have a distinct training placement section that arranges sessions and training from outside experts and professionals to strengthen their talents such as communication, soft skills, aptitude, and company-specific training etc. The institute's thriving internship programs serve as accelerators for the development of skills. The number of students opting for jobs is still much more as compared to the number of empowered individuals who, with their ingenuity, will go for start-ups. This is sort of a cultural shift and it will take time to produce a sizable number of students who will opt for self-employment. The institute's teachers and students have completed numerous online courses sponsored by the AICTE and earned certificates to advance their careers. All of these actions are moving NEP closer to being implemented in the truest sense.</p>
<p>4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):</p>	<p>The preservation and promotion of India's cultural wealth must be considered a high priority for the country, as it is truly important for the nation's identity as well as for its Economy. In this regard appropriate integration of the Indian Knowledge system particularly teaching in Indian languages is important. Languages influence the way people of a given culture speak with others, including with family members, authority and strangers, and also influence the tone of the conversation. In order to preserve and promote culture, one must preserve and promote a culture's languages. There is a plethora of Indian Languages, Culture & Heritage forming components of the Indian Knowledge System. However, there is no such builtin system to transmit the Indian Knowledge System online in our Campus. Faculty members explain subjects in local languages outside the classroom to the students who face any difficulty due to the English medium of communication in class. The institute organizes various orientation activities for all the students and give impetus to the students to take part in a variety of cultural and technical programs. Other than creating engineers, the goal of the institute is to make good Indian Citizens. Institute have different students clubs department wise as well at central , who organizes different cultural activities in order to promote /integrate the local language, art and culture. At Institute level, yearly we organize a culture event "MRIDAGANDHA", where a platform is made</p>

	available to all students to nurture their natural talent in art, sports, cultural in regional languages.
5. Focus on Outcome based education (OBE):	<p>Institute has formally adopted Outcome Based Education (OBE), which is a student-centric teaching and learning methodology. All programs and courses are designed and revised by the SUK, in line with objectives and outcomes as felt necessary to prepare dynamic and caring citizens to meet the challenges of global society. The Institute is prepared to fulfill the objectives and achieve the target as per the structural curriculum provided by the affiliating University. Institute has implemented outcome-based education with clearly stated Program Outcomes, Program Specific Outcomes and course outcomes. All courses are designed with outcomes centered on cognitive abilities namely Remembering, Understanding, Applying, Analyzing, Evaluating and Creating. Apart from the domain-specific skills, learning outcomes at all levels ensure social responsiveness and ethics, as well as entrepreneurial skills, so that student contribute proactively to economic, environmental and social well-being of the nation. The Course Objectives(COs) are also aligned to the PO-PSO philosophy. Various Experiential Learning practices of the Institute include Practical's, Internships, Field Projects, Industry Visits etc. As a part of Peer-Learning, during project work students' collaborate among themselves and share their knowledge and skill. The Institute organizes Conferences/ Seminars/ Webinars regularly and encourages students to participate and interact with resource persons and peers. Use of Technology Stack: Google Classroom is being used as a LMS, so that students and teachers can always stay connected and participate in academic discussions. Students conduct several competitions, workshops and lecture series as part of activities of Student Clubs at the Institute.</p>
6. Distance education/online education:	<p>Institute has promoted the usage of ICT enabled tools in the teaching learning process. As a result, most of the classrooms are ICT enabled with overhead projectors , interactive boards and wi-fi connectivity. All the computer laboratories are equipped with 1:1 student to computer ratio while working, with computers having state-of-the-art configuration and LAN connectivity. While conducting a class, faculty members switch between projectors and chalk-and-</p>

talk, as and when necessary, as all the classrooms are enabled with dual facilities. An adequate number of computers with internet connectivity is available at the Central Library as well where students can access digital contents, e.g., IEEE Journals, NPTEL Courses, EBooks, Question Papers of previous years etc. During the Covid pandemic, online classes were conducted very effectively by all faculties in all programs. Google Meet and Google Classroom is being used by all the faculty members as LMS and to apply the flipped classroom strategy. Faculty members are uploading various learning resources such as articles, pre-recorded videos, YouTube links, assignments etc. on the respective Google Classroom on a regular basis and students are also responding to those very well. Various online tools are also being used by some of the faculty members to make online classes more engaging. All the laboratory classes are also being conducted online. In many cases different open source simulation software are being used for conducting laboratory classes online. For laboratory classes where no such software is available, Institute has created facilities for recording videos, having proper resolution and acoustics, of the experiments that have been done by the faculty members in laboratories. Links to those videos are also provided to the students so that they can complete the laboratory assignments comfortably. The Institute has adopted Choice Based Credit System (CBCS) in all the undergraduate programs and encourages students to enroll in courses from MOOCs platforms as recommended by the AICTE. The Institute is also registered as a SWAYAM-NPTEL Local Chapter. This institution is preparing to make available all such type of e-content material prepared by faculty members to all students through online mode to meet the future challenges. Thus the institution is well prepared in this regard.

Extended Profile

1 Students

1.1

Number of students year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
1397	1454	1492	1681	1750
File Description		Document		
Upload supporting document		View Document		
Institutional data in the prescribed format		View Document		

2 Teachers

2.1

Number of teaching staff / full time teachers during the last five years (Without repeat count):

Response: 208

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

2.2

Number of teaching staff / full time teachers year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
89	102	106	121	144

3 Institution

3.1

Expenditure excluding salary component year wise during the last five years (INR in lakhs)

2021-22	2020-21	2019-20	2018-19	2017-18
133.04	232.73	400.61	319.67	238.73

NAAC

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

1.1.1 The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including Academic calendar and conduct of continuous internal Assessment

Response:

Objective:-

The institute is affiliated to Shivaji University Kolhapur (Maharashtra) and follows the curriculum prescribed by the university. The methods listed below help the Institute to be more effective in its curriculum execution and conduct of continuous internal assessment.

Process:

- The Academic Calendar is finalized in alignment with the University calendar which includes curricular and non-curricular activities in consultation with Dean Academics and HODs. Each department has slight changes in their academic calendar matching their academic needs. After receiving permission from the College Development Committee, it is published on notice boards and on the college website.
- Teaching loads is done according to the choices given by the faculty based on their area of specialization, experience and subject preferences.
- The allotment is done ahead of time to allow faculty to prepare for course delivery. This results in a richer teaching-learning process.
- Based on load distribution, the department coordinator prepares class, lab and faculty wise timetable. It is approved by HOD, Dean Academic and Principal and then displayed on notice boards and college website.
- All subject teachers maintain course files of their respective subject. University Syllabus, Course Outline with Mapping, Lesson Plan, Notes (Hand Written/Printed), Sample Copy of PPTs, Question Bank (Descriptive & MCQ), University and C.I.E. Question Paper, Oral Question Bank are all included in the course files.
- Based on all the above documents SIM (Students Information Manual) is prepared, which is circulated to all students (soft copy) as well posted on the website.
- Each faculty member keeps a standardized faculty diary that includes timetables, roll lists, attendance records, and so on. It is reviewed regularly.
- The Class Coordinator ensures that the policies for effective curriculum implementation are followed.
- Each proctor teacher is assigned to a group of approximately 20 students. The proctor instructor serves as a mentor to his or her proctor batch's students.
- Students are tested two times ie. CIE (Continuous Internal Assessment) during the semester to check their understanding of subjects.
- The College encourages its faculty members to attend AICTE/ISTE/University-sponsored Orientation/Refresher Courses/Workshops/Seminars to keep their expertise up to date and improve their teaching practices.

- For a more comprehensive teaching-learning process, numerous ICT techniques such as PowerPoint presentations, video lectures, and webinars are used. Visits to the industry for hands-on experience, as well as workshops, seminars, group discussions/technical quiz/surprise tests, are arranged.
- The departmental and central academic committees monitor the curriculum's effectiveness regularly. Departmental Course monitoring Committee meetings are conducted once in month, to review the teaching, learning and evaluation schedules.
- Academic feedback is obtained from students based on a variety of characteristics to improve the teaching-learning process. This feedback is communicated through HODs to the concerned subject teacher/(s) for necessary corrective measures.
- Academic audits are performed at the department and institute levels to ensure effective curriculum implementation.
- The institute generally adheres to the dates listed in the academic calendar except in unusual situations, such as modifications in the University calendar or natural calamities etc.

File Description	Document
Upload Additional information	View Document

1.2 Academic Flexibility

1.2.1 Number of Add on /Certificate/Value added programs offered during the last five years

Response: 15

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

1.2.2 Percentage of students enrolled in Certificate/ Add-on/Value added programs as against the total number of students during the last five years

Response: 10.07

1.2.2.1 Number of students enrolled in subject related Certificate/ Add-on/Value added programs year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
307	96	124	133	123

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

1.3 Curriculum Enrichment

1.3.1 Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum

Response:

The institute is affiliated with Shivaji University Kolhapur (SUK), and the curriculum has integrated cross-cutting issues such as Gender, Environment and Sustainability, Human Values, and Professional Ethics through soft skills courses (e.g. Professional Ethics and Etiquettes, Humanity, Team Building, Leadership and Fitness, Cyber Security, Water Management, and so on).

Gender Sensitization:-

Both girls and boys have equal opportunities to participate in academic, co-curricular, and extracurricular activities and training programs. The Institute hosts a variety of activities focused on women's empowerment. In addition, the Institute makes an effort to promote equity by ensuring that at least one woman is represented on various policy-making committees. International Women's Day is celebrated every year with active student participation. The Institute has female students 35-40 percent and female employees of 40-45 percent. The institute has established an internal complaint committee.

Environment and sustainability:

The course Environmental Studies is interdisciplinary. The course is offered for all second year students as a requirement for U.G. programmes. The study of natural resources, with a focus on renewable energy resources, the significance of preserving the current ecosystem, increasing biodiversity, the dangers of pollution, and raising awareness about environmental and social issues are all covered in this course.

In addition to the above courses, the institute is undertaking several initiatives to raise awareness among students and faculty members by arranging the activities such as Swatch Bharat, Plastic free, Jal Shakti, and others. These initiatives will highlight many facets of environmental protection and society's long-term growth and ultimately students will be able to change their attitudes toward the environment.

Human Values and Professional Ethics:

Any educational program's goal is to generate effective professionals who can solve society's problems with new and improved solutions. Engineers' ingenuity, on the other hand, must be tempered by professional ethics and values when it comes to the application of technology.

As a result, Professional Ethics and Human Values, Intellectual Property Rights for Technology Development and Management, Professional Communication, Democracy, Elections, and Good Governance, Industrial and Quality Management, Principles of Management, Human Resource

Management, Business Ethics, Corporate Planning, and Strategic Management, Marketing Management, Software Engineering, and Cyber Security are just some of the courses offered in the curriculum. As per the recent guidelines of AICTE, Universal Human Values is offered as a part of the Student Induction Programme.

Apart from these curricula, the institute is working hard to instill a culture of human values and professional ethics in students by organizing professional events such as Seminars, Conferences, Workshops, and Tech-Fests.

The Institute provides a National Social Service (NSS) that helps students develop their personalities by providing community service. During the NSS camp, which is held in rural areas every year, both male and female students are given equal opportunities to participate. Students' social consciousness is raised through activities such as tree planting, SwachataAbhiyan, visits to and donations to orphanage homes, and so on.

File Description	Document
Upload Additional information	View Document

1.3.2 Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year)

Response: 41.3

1.3.2.1 Number of students undertaking project work/field work / internships

Response: 577

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

1.4 Feedback System

1.4.1 Institution obtains feedback on the academic performance and ambience of the institution from various stakeholders, such as Students, Teachers, Employers, Alumni etc. and action taken report on the feedback is made available on institutional website (Yes or No)

Response: Yes

File Description	Document
Upload supporting document	View Document

NAAC

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Enrolment percentage

Response: 46.44

2.1.1.1 Number of students admitted year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
166	92	139	366	268

2.1.1.2 Number of sanctioned seats year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
360	360	540	540	420

File Description

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Upload supporting document

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Institutional data in the prescribed format

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2.1.2 Percentage of seats filled against seats reserved for various categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy during the last five years (Exclusive of supernumerary seats)

Response: 26.35

2.1.2.1 Number of actual students admitted from the reserved categories year - wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
39	25	67	109	83

2.1.2.2 Number of seats earmarked for reserved category as per GOI/ State Govt rule year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
238	238	270	270	210

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

2.2 Student Teacher Ratio

2.2.1 Student – Full time Teacher Ratio (Data for the latest completed academic year)

Response: 15.7

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 using ICT tools

Response:

Applying the knowledge and abilities acquired, to meet industry and societal challenges, by a student is outcome-based education (OBE) all about. Main focus is on professional technical knowledge, competence, and approach. Students acquire knowledge through classroom instruction, practical work performed in laboratories, industrial trainings, industrial trips, projects work etc. Besides these, student organizations like CESA, ISHRAE, SAE, SORT, etc. play vital role in providing self-learning experience through participation in numerous activities organized by them.

Faculty members use variety of teaching methodologies, tools for effective teaching to meet the students' expectations. Instructional techniques selected so as to make participate actively. As a result, the teaching becomes more interactive, which aids in the achievement of the desired learning objective.

People's lives, work, leisure, and learning have been altered by rapidly evolving computer technologies and pandemic situation. Demand of the situation is to adopt ICT based technologies in teaching learning process.

In addition to traditional classroom teaching, JJMCOE has adopted ICT-enabled teaching approaches. To convey sophisticated technologies and practical knowledge, the faculty use ICT-enabled classroom materials such as PowerPoint, video clippings, audio systems, web sources. Classrooms are equipped with LCD projectors and internet-enabled computer/laptop systems. The setup of web camera and headphones is used to deliver online lectures during pandemic in classroom through mainly Google meet or Zoom meet. Google classroom help students to share learning materials, tools, quizzes, and assignments. Tests with MCQ are conducted using Google forms.

Faculty members prepare PPTs related to their courses with inclusion of animations, graphs, tables, figures, and movies wherever possible. Use of videos, simulations, and animations help improve understanding the concepts of diverse topics. Faculty make use of electronic resources from platforms such as DELNET, NPTEL, SWAYAM, COURSERA, spoken tutorial, and the Digital Library. Faculty and students can use intranet to access sufficient number of e-journals and e-books available in digital library. For guest lectures and seminars, the seminar halls are equipped with multimedia, high internet speed, and Wi-Fi.

Students and faculty members use the server to store study materials, as well as traditional class notes, assignments, and MCQs. Teachers also provide Open Source Software, project ideas, company-specific study materials, competitive examination-based study materials, and so on.

Sr. No.	Learning method	Implementation Process
1	Class Room Learning	PPTs / ICT Based
2	Blended Learning	<ul style="list-style-type: none"> • Use of NPTEL videos, You tube, other ac • Undertaking Online Certifications courses • Use of Google meet, Microsoft Teams for lectures.
3	Experiential / Field learning	<ul style="list-style-type: none"> • Use of modeling and analysis software. • Mini projects • Use of Virtual Labs • Use of animations, films, simulator • Use of software tools to solve industry problems • Online Training programs
4	Participative Learning	<ul style="list-style-type: none"> • Software development Projects • Technical events. • Conferences for paper presentation.
5	Design/Product Based Learning:	<ul style="list-style-type: none"> • Students undertake real-world issues. Stud software applications for design drawing a
6	Problem Solving Methodologies by ICT	<ul style="list-style-type: none"> • Tutorial • Assignments • Quizzes • Software based Design Problems • Coding • PCB design

File Description**Document**

Upload Additional information

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2.4 Teacher Profile and Quality

2.4.1 Percentage of full-time teachers against sanctioned posts during the last five years

Response: 100

2.4.1.1 Number of Sanctioned posts / required positions for teaching staff/ full time teachers year wise during the last five years:

2021-22	2020-21	2019-20	2018-19	2017-18
89	102	106	121	144

File Description

Document

Upload supporting document

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2.4.2 Percentage of full time teachers with NET/SET/SLET/ Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. during the last five years (consider only highest degree for count)

Response: 7.12

2.4.2.1 Number of full time teachers with NET/SET/SLET/Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
11	07	8	7	7

File Description

Document

Upload supporting document

[View Document](#)

Institutional data in the prescribed format

[View Document](#)

2.5 Evaluation Process and Reforms

2.5.1 Mechanism of internal/ external assessment is transparent and the grievance redressal system is time- bound and efficient

Response:

As JJMCOE is affiliated to Shivaji University,Kolhapur, it adheres to the university's rules and regulations.So, institute accept academic syllabus offered by university.

The laboratory work is assessed by each teacher as per his assessment plan. The final term work marks (TW) are displayed on notice board. External laboratory (POE) is assessed by external examiner appointed by university.

Seminars and projects are assessed as per assessment plan by guide and Department Review Committee (DRC).

Question papers are set by faculty referring to Cos and POs as per the department's guidelines and submitted to examination coordinator.

As per university, continuous internal evaluation carries 30% and end semester examination carries 70% of total weightage. By policy, two tests are conducted in semester. Best of two policy is adopted.

The whole examination process is carried out under the guidance of Examination coordinator who takes care of Preparation of schedule, Timetable, Seating arrangements and Vigilance.

Laboratory assessment is based on, performance, Attendance, Quality and completion of journal and quiz. Laboratory performance is registered in academic diary. Proper transparency is maintained in assessment and result.

Seminars are evaluated by a panel of three faculty members based on, mainly presentation skill, report and topic selection.

Project work is evaluated by DRC through Synopsis presentation, Methodology and Presentation skill, report.

- All internal assessments and project reviews are disseminated to students via announcements and the Student Information Manual.
- First-year students are informed about the continuous internal evaluation system during orientation program.
- From second year onwards, each department's term work policy, is declared to students through notices and proctor meetings.
- During mentoring sessions, students' academic review is taken and required feedback is provided for ongoing academic growth.
- The results of summative assessment and internal assessment are informed to the parents during parent's meet every semester.
- Continuous Internal Evaluation marks are maintained by the faculty and shown to the students.

Mechanism to deal with internal/external examination related grievances:

Students are informed of all examination notices via digital/hard notice boards, and announcements in class. The examination section resolves the grievances within the time frame in coordination with University Exam section efficiently.

Redressal of Grievance for Internal Assessment:

- The assessed answer sheets are provided to the students for verification, and any issues are quickly addressed by the professors.

- Marks obtained are displayed on department notice board.
- Students are given two days to voice their issues to the HOD. The HOD responds to these complaints in consultation with the concerned subject teacher

Redressal of Grievance for External Assessment:

The university accepts online applications for photocopies of the assessed answer sheets. The institute conveys about the same to the students. If a student is not happy with the assessment after getting photocopies, he or she may apply to the university for rechecking or revaluation through the HOD and exam division. The application is sent to the University for Corrective Action, and the Institute and the student are informed of the outcome.

File Description	Document
Upload Additional information	View Document

2.6 Student Performance and Learning Outcomes

2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of POs and COs are evaluated

Response:

The Institution is effectively implementing the outcome based education system by actively involving all stakeholder, to provide student centric and outcome-oriented teaching and learning processes. For all programmes, Program Outcomes, Program Specific Outcomes, and Course Outcomes are prepared.

POs are attributes that every graduate should possess. POs are recommended by NBA. They contribute to Domain competency, environment and sustainability, ethics, teamwork, communication, project management and finance, and lifelong learning. PSOs are framed by the department based on the field's specialization. The POs outline the skill set that students will have at the end of the programme and are framed inline institute's vision and mission.

The COs are statements which ensure the level of knowledge gained by a student at the end of the course. Although University specifies COs in curriculum, each faculty prepares COs based on technical content and student's expectations.

The Program and Course outcomes are communicated to internal and external stakeholders through:

- Institute web site
- HOD cabins
- Notice Boards
- Academic Diary
- Department Library
- Department Laboratories
- Course File

- Student Information Manual(SIM)
- ERP

Evaluation of CO-PO

The CO-PO mapping is done based on level of the competence. The CO-PO mapping index is used to calculate PO attainment from the CO attainment values of in a programme.

Not Applicable (NA), Low (1), Moderate (2), and High (3) are the CO-PO mapping indices

CO attainment is done from Direct and indirect methods of assessment. Assessment of tests, Quiz, POE and ESE etc. come under direct assessment. The indirect assessment is done by conducting course exit survey.

Direct Attainment	30% through formative assessment tools	70 % through summative assessment
Indirect Attainment	Course Exit Survey	

Overall attainment = Direct Attainment + Indirect attainment

Attainment levels are set by individual faculty based on difficulty level of the course.

Direct CO assessment tools (90%)		Indirect CO assessment tools (10%)
Formative assessment tools	Assignments/Tutorials	Course Exit Survey
	Seminars/Project/presentations	
	Quiz	
Summative assessment tools	Tests	
	Practical work	
	End Semester examination	

Such a way CO attainment for all courses in a programme is done.

PO Attainment:

PO/PSO attainment is done through Direct (90%) and Indirect (10%) attainment.

Direct Attainment (90%)	CO attainment (90%)
	Course Exit survey (10%)
Indirect Attainment (10%)	Program Exit survey
	Employer's survey
	Activities.

PO attainment = Overall CO attainment x PO mapping factor.

Overall direct PO attainment = $\frac{\text{Overall CO attainment} \times \text{PO mapping factor}}{\text{PO mapping factor}}$

Rubrics are an indirect assessment tool that is used to assess PO achievement when no direct evaluation method is available.

For the indirect assessment of the POs and PSOs, feedback from alumni and recruiters will be taken into account. The accomplishments of the POs/PSOs will subsequently be matched to the Program educational objectives (PEOs).

Weakly mapped POs and PSOs are observed for ongoing improvement, and an action plan with delivery details will be decided to implement.

File Description	Document
Upload Additional information	View Document

2.6.2 Pass percentage of Students during last five years

Response: 93.93

2.6.2.1 Number of final year students who passed the university examination year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
550	485	406	437	473

2.6.2.2 Number of final year students who appeared for the university examination year-wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
577	485	406	506	529

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process

Response: 90

File Description	Document
Upload database of all students on roll	View Document

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

3.1.1 Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the last five years (INR in Lakhs)

Response: 17.27

3.1.1.1 Total Grants from Government and non-governmental agencies for research projects , endowments, Chairs in the institution during the last five years (INR in Lakhs)

2021-22	2020-21	2019-20	2018-19	2017-18
2.33	0.91	6.75	5.84	1.44

File Description

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Upload supporting document

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Institutional data in the prescribed format

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3.2 Innovation Ecosystem

3.2.1 Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

Response:

The establishment of a "research tranquil environment" as well as the cultivation of an innovation culture among teachers and students are all benefited of an ecosystem for innovation. To encourage research, one of the faculty members has been given the additional task of Dean, Research and Development. Under his guidance a Research and Development Cell has been formed, consisting of one faculty member from each department to support the Institute's research activities. A Students Organization Research Committee (SORT) has also been founded to promote the research culture among students.

In terms of research and innovation, the institute has made the following steps:

- The institute's research infrastructure is reinforced by purchasing research-oriented software and equipment/facilities in laboratories that go above the curriculum's basic needs, research-oriented literature and journal subscriptions.
- The institution assists faculty members in attending national/international conferences, workshops, seminars and FDPs through deputation and financial support depending on the institute's research policy.
- Faculty and students are encouraged to publish articles in journals and conferences by giving financial aid. As a result, faculty members have published 159 research papers in last five years..

- Faculty members are allowed to submit research proposals to a variety of funding organizations.
- Students are motivated to participate in project exhibitions, workshops, and so on. Laboratory/workshop facilities are accessible as per their need round the clock.
- The 'Best Project Award' competition encourages students to develop products.
- Library access is permitted over and above college time to refer reference books and journals.
- Project groups of students are encouraged to have sponsored projects from Industry.
- The laboratory in the Electronics & Telecommunication Engineering department is modernized using funds under AICTE's MODROB grants.
- Institute has defined the standard Research Policies.
- Workshops are arranged for students and faculty to inspire the filing of Intellectual Property and Patenting the products/technologies for the advantage of institute and society.

Institute has given additional responsibility to the faculty as an Industry Relation Officer to strengthen institute-industry collaboration and create a forum for staff and students to obtain hands-on experience with emerging technology. The institute has multiple Memorandums of Understanding with various companies for Field/Industry visits, internships, projects, technological awareness programs and placements.

Institute has established the Entrepreneurship Development Cell (EDC) intending to develop and strengthen entrepreneurial abilities in students.

Incubation Cell has been initiated recently at the institute. The cell's goal is to build the physical infrastructure and support mechanisms, to provide essential services such as access to high-end equipment, high-speed internet and technical support needed for business incubation activities.

All of these efforts are reflected in the amount of student and faculty research publications in journals and conferences. Students compete in inter-institutional, university-level competitions such as Avishkar, e-Yantra, BAHA, VISION, etc.

Five patents have been filed in the area of intellectual property.

All of these cells help us build a research and innovation ecosystem that supports the development and transfer of knowledge, allowing faculty and students to make significant contributions to society.

File Description	Document
Upload Additional information	View Document

3.2.2 Number of workshops/seminars/conferences including on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship conducted during the last five years

Response: 200

3.2.2.1 Total number of workshops/seminars/conferences including programs conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
65	30	21	43	41

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

3.3 Research Publications and Awards

3.3.1 Number of research papers published per teacher in the Journals on UGC care list during the last five years

Response: 76.44

3.3.1.1 Number of research papers in the Journals notified on UGC CARE year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
32	38	17	21	51

File Description	Document
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Institutional data in the prescribed format	View Document

3.3.2 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years

Response: 11.54

3.3.2.1 Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
7	4	2	3	8

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

3.4 Extension Activities

3.4.1 Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the last five years.

Response:

Students are encouraged to participate in social activities and ethical ideas are cultivated at the Institute. These programs help students become more conscious of their role in nation development and responsible citizens.

• Research Projects related to Social issues :

Various multidisciplinary projects are being carried out to address community issues, such as

- 1) Home Automation, Wireless charging station.
- 2) Wastewater and solid waste management system for Gram panchayat MoujeAgar(Tal-Shirol)
- 3) Drone to carry the Organs such as Heart, and kidney under E-yantra laboratory.

•ICT Enabled Education:

Different workshops such as Contents of E-learning like creating and using Gmail facility, learning MS-Office, searching information from websites, Mobile applications usage for financial purposes, Internet Awareness Program, etc. were carried out for Anganwadi teachers, Gram Sevak, ASHA teachers, girls under the community development cell.

•ISHRAE Week :

Every year institute hosts ISHRAE Week.

1. Students learn about refrigeration systems and industrial environment systems, to maintain them to keep the environment eco-friendly.
2. The event was dubbed "No Vehicle Day." All students and faculty members were required to use public transportation to aware of "air pollution occurring due to the vehicles emitting carbon "

•**Green Initiative**

A Tree Plantation Program was planned, in which students participated actively in planting trees in college campus as well as in nearby villages.

•**Ozone Day**

Every year on September 16th, the institute hosts "World Ozone Day." and arrange a session on the ramifications of ozone depletion and the greenhouse effect.

•**Career Awareness**

1. Every year, career guidance/counseling lectures are organized and conducted for students in both rural and metropolitan locations.
2. Institute creates facility centers, so the admission procedures and counseling are conveniently accessible to students from nearby villages.
3. At the institute level, different scholarships are announced for flood-affected, COVID-affected, and Kokan storm-affected students.

•**NSS Activity:**

1. Blood donation, Voters Awareness, gender-related awareness programs, gram swachata abhiyan, tree plantation, engagement with school students, industry workers by pathnatya, the importance of water management, such social activities are organized by institute's NSS cell.
2. The webinars were conducted on disaster management, environmental awareness and pollution-free India
3. Various awareness campaigns like vaccination camps, mask awareness and covid-related measures were held during the pandemic scenario.

•**Social Awareness:**

1. Through an oath-taking program on "anti-corruption," HaritShapath, and a poster presentation on "celebrating a pollution-free Diwali," social values are instilled.
2. All Teaching Faculty and Staff participate in yoga sessions on International Yoga Day.

•**Gram Visits:**

Students and academic members visit different Gram panchayats and identify their difficulties. During such visits, faculty members and students speak with villagers and students from primary and secondary schools about the importance of education, women's empowerment, general cleanliness, solid waste management, rain water harvesting, water conservation, and government schemes, among other topics.

•**River Ghats Cleaning and Drainage Survey:**

The institute launched different cleaning activities in adjacent communities, including rivers ghats, lakes etc. A drainage survey was also conducted in Nandani Gram. In addition, Swachata Abhiyan was carried out in Rui Gram and the flood-affected areas.

File Description	Document
Upload Additional information	View Document

3.4.2 Awards and recognitions received for extension activities from government / government recognised bodies

Response:

ActivityName	Award/ recognition	Awarding bodies	Year	
The Internet Awareness for School Students	Appreciation	Rotract club jaysingpur	2021-22	
The Internet Awareness for School Students	Appreciation	Rotract club jaysingpur	2021-22	
MS office	Appreciation	Archanainfotech classes, jaysingpur	2021-22	
Basics of MS Office	Appreciation	AdarshVinaymandir	2021-22	
Online payment Methods awareness	Appreciation	Grampanchayat, phalshivane	2021-22	
Manage fee collection for Musical Institute	Appreciation	Indian music academy	2021-22	
Expert Lecture on Opportunities in IT	Appreciation	zelehighschool, Jaysingpur	2022	
Expert Lecture on Arduino	Appreciation	G.P.Tasgaon	2022	
Expert Lecture on Linear Intergrated Circuits	Appreciation	ShivajiPolytechniquesSangola	2022	
Expert Lecture on Semiconductor	Appreciation	PadmarajeVidyalay&Jr.Scienc e College Shirol		
Expert Lecture on Emerging Trends in Mechanical Engg.	Appreciation	Y.C.P.Ichalkaranji	2022	

NSS Special Camp	Appreciation	Grampanchyat ,Nandani.	2022	
State level award	Rajyastariya Lakshavedhi Vakhyata Pratibharatna Puraskar 2021	ManushabalVikasLokasewa Academy	2021	
International award	Dynamic Teacher(International Education Award 2021.)	International Education	2021	
International Award	International Scientist Awards 2021	INS AWARDS	2021	
International Award	International Scientist Awards 2021(Lifetime Achievement Award)	VDGOOD Technology Factory	2021	
International Award	Indo-Asian Linus Torvalds Innovative Scientist Award 2021.	RED Talks Daily International	2021	
International Award	International Innovative Scientist Award 2021 in Audio Watermarking	Center for Professional Advancement	2021	
Expert Lecture on Semiconductor	Appreciation	Padmaraje Vidyalay&Jr.Scienc e College Shirol	2021	
President ISHRAE	Appreciation	Indian Society of Heating Refrigeration and Airconditioing Engineers	2021	
STTP on Recent Trends in Refrigeration And AIRconditioning	Appreciation	ADCET Astha	2021	
Expert Lecture on Recent Development in Refrigerants	Appreciation	ADCET Astha	2021	
Workshop on Construction Practical	Appreciation	Ultratech Cement Ltd.,Kolhapur	2019-20	
Dr. C. S. Shinde	International Educational Excellence Award in Data Mining	Center for professional Advancement, West Midlands, UK	2019-20	
Dr. C. S. Shinde	Indo.Asian-Dennis Ritchie Distinguished Innovative Scientist Award in Computer Science	IMRF, UN	2019-20	
Expert Lecture on Semiconductor	Appreciation	Padmaraje Vidyalay&Jr.Scienc e College Shirol	2019-20	
International Award	Distinguished Faculty in Engineering	Venus International foundation chennai	May 2019	

NSS Special Camp	Appreciation	Grampanchyat ,Umalwad .Tal-Shirol	2020	
Training activity at Scholar Academy, Sangali.	Appreciation	The Scholar Academy	2018-19	
Use of E-services in day to day activities	Appreciation	AshthavinayakMahilaBachat Gat, Shirol	2018-19	
Session on Internet Awareness	Appreciation	Jayprabha ENG. Med. Highschool& Junior college , Jaysingpur	2019	
workshop on Need of computer in daily life	Appreciation	(NandaniGrampachayat)	2019	
Expert Lecture on Semiconductor	Appreciation	PadmarajeVidyalay&Jr.Scienc e College Shirol	2018-19	
NSS Special Camp	Appreciation	Grampanchyat ,Umalwad .Tal-Shirol	2019	
Traininng Activity SMKC	Appreciation	SMKC residential Area, Miraj	2017-18	
Training at Stormsoft Academy,	Appreciation	Stormsoft Academy, Ichalkaranji	2017-18	
E-transactions in day to day life.	Appreciation	JayVijay Marketing, Jaysingpur.	2017-18	
Training activity at JJM Hostel	Appreciation	JJMCOE	2017-18	
Use of E-services in day to day activities	Appreciation	Rajashree Industry	2017-18	
Demonstration about E-Services	Appreciation	AaiVruddhashram, Jaysingpur.	2017-18	
Demonstration about E-Services	Appreciation	Jagruti Self Help Group, Sangli	2017-18	
MS office	Appreciation	Vidhyamandir, shivnakwadi	2017-18	
Guest lecture	Appreciation	(ShriPadmarajeVidyalaya&Jr. Science College Shirol)	2018	
workshop on Need of computer in daily life	Appreciation	(NandaniGrampachayat)	2018	
NSS Special Camp	Appreciation	Grampanchyat ,Herwad .	2018	

File Description			Document	
Upload Additional information			View Document	

3.4.3 Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., (including the programmes such as Swachh Bharat, AIDS awareness, Gender issues etc. and/or those organised in collaboration with industry, community and NGOs) during the last five years

Response: 91

3.4.3.1 Number of extension and outreach Programs conducted in collaboration with industry, community, and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
27	20	18	14	12

File Description			Document	
Upload supporting document			View Document	
Institutional data in the prescribed format			View Document	

3.5 Collaboration

3.5.1 Number of MoUs, collaborations/linkages for Faculty exchange, Student exchange, Internship, Field trip, On-the- job training, research and other academic activities during the last five years:

Response: 271

File Description			Document	
Upload supporting document			View Document	
Institutional data in the prescribed format			View Document	

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1 Availability of adequate infrastructure and physical facilities viz., classrooms, laboratories, ICT facilities, cultural activities, gymnasium, yoga centre etc. in the institution

Response:

The institute adheres to the All India Council for Technical Education's (AICTE) guidelines for building infrastructure that supports successful teaching and learning for existing academic programs and administration. Institute features magnificent scenery, elegant architecture, an environmentally friendly layout, spacious classrooms, well-equipped laboratories, and good infrastructure.

All classrooms, laboratories, tutorial rooms, reading rooms, central library, meeting rooms and seminar halls are equipped with the necessary infrastructure. The institute has an instructional area of 138 square meters, an administrative area of 1729.91 square meters, and an amenities area of 923.85 square meters.

Classrooms

The institution contains 32 classrooms which are well-ventilated, lighted, spacious, and good ambiance. To support innovative learning with ICT resources, the e-class rooms are equipped with ceiling-mounted LCD projectors, sound systems, and computers. Dais, desks, platforms, fans, tube lights, green and white boards, podiums, and curtains are provided in all classrooms.

Tutorials rooms

There are 05 tutorial rooms at the institute. Tutorial lessons are held to train students in all analytical subjects.

Seminar Halls

The institute has 07 air-conditioned seminar halls equipped with a seating capacity of 175 persons to conduct seminars, conferences, guest lectures, and workshops for students and faculty. All seminar halls are equipped with LCD projectors, whiteboards, raised platforms, and a public address system with an internet facility.

Laboratories

Institute is having 62 well-equipped laboratories with sufficient apparatus and equipment allowing students to practically understand the fundamentals of the theory through numerous experiments. Depending on the needs of the students, the laboratories are open 24X7 as per need. Sufficient safety measures have been implemented and prominently displayed in laboratories.

Institute has well-equipped workshops and drawing hall that meet the curriculum's requirements. The workshop contains foundry, welding, machine, fitting, carpentry shops and CNC machine. Civil Engineering Department has an exclusive model room.

Computing Facilities

There are 746 computers in the institute connected to a LAN with high-bandwidth internet connectivity and sufficient peripherals. The entire campus is Wi-Fi connected, with a 100Mbps internet connection.

Training and Placement cell

Institute has a dedicated training and placement cell that takes care of Campus recruitment, training along with soft skills, interview skills, technical training for students and organizes campus drives.

Transport, medical and canteen facilities

The institute provides transportation facility for students and staff numerous locations from the city apart from public transport. A health care center offers first-aid services and has a partnership with a nearby hospital owned by our trust. In case of medical emergency, an ambulance is available 24X7 hours. Canteen facility is provided for students & staff with adequate capacity.

Cultural activity-

The Institute has a rich heritage of nurturing, nourishing and showcasing talents in the fields of cultural, literary, and fine arts.

Other Facilities

- Exclusive room is available for smooth functioning of IQAC. Institute is having counseling room to guide the students.
- Separate reprographic facility and stationery store.
- The institute has an ERP system to monitor academic and administrative activities.
- Boys and Girls hostel for the boarding of students

File Description	Document
Upload Additional information	View Document

4.1.2 Percentage of expenditure, excluding salary for infrastructure augmentation during last five years (INR in Lakhs)

Response: 18.13

4.1.2.1 Expenditure for infrastructure augmentation, excluding salary during the last five years (INR in lakhs)

2021-22	2020-21	2019-20	2018-19	2017-18
9.22	22.48	22.34	50.35	135.75

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

4.2 Library as a Learning Resource

4.2.1 Library is automated using Integrated Library Management System (ILMS), subscription to e-resources, amount spent on purchase of books, journals and per day usage of library

Response:

The library is housed in an area of 710 sqm with a seating capacity of two hundred users. The timings are from 9.30 to 6.00 p.m. & during the examination 8:00 AM to 8:00 PM on all working days. The library has its committee, which accommodates one member from each department.

Vidya-Sagar, an online library software, is used to automate the library. OPAC is available in the College Library. The OPAC module can be used to search the library's collection on the intranet. Acquisition, Cataloguing, Circulation and Serial Control are just a few of the modules included in the software. For creating accession register reports, adding bulk student records, modifying an item, lending policy and its status, the acquisition module and cataloging module are used. The book issuance, return and reserve options are all available in the circulation module. This module can generate a variety of reports, including loan borrower, item inventory status, circulation status summary, item transaction, and operator-by-operator transactions. This module generates library barcodes, making time-consuming library work easier, more effective and more efficiently staff and students can subscribe to online e-Journals through the library.

Book recommendation process-Faculty members are obliged to submit book recommendations for the coming semester at the beginning of semester. The library is divided into three sections: stacking, reference and digital. For transactional purposes books are bar coded. The Library has a sufficient number of books to meet the needs of the curriculum. The Library has a 44560 book stacking capacity. Students and staff can read news, research paper and other information from newspaper and journal stands in the library. Students and staff have access to the previous year's examination papers of all streams.

Institute has created an FTP server of 4TB storage for NPTEL video lectures and e-books so that staff and students upgrade themselves in respective courses.

Other Digital Facilities

- The central library contains a distinct Digital Library section with sufficient computer resources. Through the digital library, users can access a variety of resources, such as.

1. IEEE (through subscribed database)
2. Elsevier e-journals (through subscribed database)
3. DELNET (Asso. Membership)
4. E-books
5. NPTEL Video lectures
6. Online open-source journals

A hard copy of Journals

- Remote access to the Library facility is available to students (Users through Mobile App.)

Apart from all the above at free of costs, the book-bank facility is available for SC/ST students under Social Welfare Scheme. In addition to this, for each class free Book-bank facility with nominal charges. Also, student career-related 1322 books are available.

Library at a glance-

Total number of Books - 44560 Total Number of Titles -12718

Print Journals - 49 E- Journals - 8096

NPTEL Video lectures E -books - 6205

IRC (I.S.) CODE Soft Copy IS CODE - 40

Newspapers - 02 CDs/DVDs -1863

Library Staff - 05

Cost of Books (Total) – Rs 1,42,83,455.00

Subscription for Journal – Rs 81,97,532.00

File Description	Document
Upload Additional information	View Document

4.3 IT Infrastructure

4.3.1 Institution frequently updates its IT facilities and provides sufficient bandwidth for internet connection

Response:

The institute has a vast IT infrastructure to meet AICTE and University standards. Institute regularly updates its laboratories, which include hardware, system and application software and Wi-Fi connectivity. The IT infrastructure is regularly provided to the agencies like TCS, MKCL, etc. for conducting various online examinations on holidays.

IT Facilities:

The institute has a total of 746 computers, 5 servers (powerful Intel Xeon processors), 6 laptops, 77 printing facilities with 01 plotter, 11 scanners and 03 HDDs, 29 Surveillance Cameras and 35 LCD Projectors.

Wi-Fi is available on all systems and students have access to it. The institute has a high-speed internet connection of 100 megabits per second.

The institute's network is protected by the latest Unified Threat Management firewall – Cyberoam CR 100ING Firewall, as well as accompanying security rules.

A biometric attendance system is deployed for staff members

The institute has Microsoft Volume License and it is updated to a Microsoft Azure campus license. This license facilitates regular updating of 8 system software and 29 application software.

Teachers and their groups can easily communicate and collaborate by using their official mail through the G suite provided by Google.

Network Management software:

To secure all servers from outside assaults, a Cyberoam CR 100ING Firewall with Full Guard Plus Subscription was installed. For reasons of secrecy and security, each individual who wishes to use the internet is given a unique login ID. A separate IT policy is also available for the use of the Internet via wired or wireless connections.

Many open source software is employed in the Institute, and the laboratories have enough Supporting Software

Wi-Fi facility:

The institute provides Wi-Fi access to students and faculty members 24 X 7 in the college campus.

The entire institute campus, including the boys' and girls' hostels, is provided with Wi-Fi facility.

To provide seamless connectivity, 7 access points have been installed in both the Boys and Girls Hostels.

In the Academic and Administration buildings, there are 7 Wi-Fi access points.

Up gradation of IT Facilities:

The Internet bandwidth is upgraded as needed and the technology is also updated regularly.

Hardware routers and servers are upgraded regularly to meet increased data speed demands.

IT infrastructure is maintained regularly.

Computing facilities:

Matlab, Mastercam, Catia, Auto CAD, Staad Pro, Etabs, Xilinx, Multisim, and Visual Studio are all available in the computer labs. Oracle 11g and My SQL database applications are also installed.

The FTP server is open for data sharing 24 hours a day, 7 days a week and can be accessed by students and staff from any computer in campus.

Institute administration is managed through ERP (vmedulife) which is accessed from a desktop, browser as well as Mobile App.

Power Backup

The campus is powered by a UPS backup system, which is supplemented by a 125 KVA diesel generator.

File Description	Document
Upload Additional information	View Document

4.3.2 Student – Computer ratio (Data for the latest completed academic year)

Response: 2.47

4.3.2.1 Number of computers available for students usage during the latest completed academic year:

Response: 565

File Description	Document
Upload supporting document	View Document

4.4 Maintenance of Campus Infrastructure**4.4.1 Percentage of expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the last five years (INR in Lakhs)**

Response: 8.04**4.4.1.1 Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component year wise during the last five years (INR in lakhs)**

2021-22	2020-21	2019-20	2018-19	2017-18
3.95	4.70	48.56	22.72	26.64

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1 Percentage of students benefited by scholarships and freeships provided by the Government and Non-Government agencies during last five years

Response: 95.43

5.1.1.1 Number of students benefited by scholarships and freeships provided by the Government and Non-Government agencies year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
1429	1437	1495	1623	1435

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.1.2 Capacity building and skills enhancement initiatives taken by the institution include the following

1. Soft skills
2. Language and communication skills
3. Life skills (Yoga, physical fitness, health and hygiene)
4. ICT/computing skills

Response: A. All of the above

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.1.3 Percentage of students benefitted by guidance for competitive examinations and career counseling offered by the Institution during the last five years

Response: 46.81

5.1.3.1 Number of students benefitted by guidance for competitive examinations and career counselling offered by the institution year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
1361	254	1450	315	259

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.1.4 The Institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases

1. Implementation of guidelines of statutory/regulatory bodies
2. Organisation wide awareness and undertakings on policies with zero tolerance
3. Mechanisms for submission of online/offline students' grievances
4. Timely redressal of the grievances through appropriate committees

Response: A. All of the above

File Description	Document
Upload supporting document	View Document

5.2 Student Progression

5.2.1 Percentage of placement of outgoing students and students progressing to higher education during the last five years

Response: 38.22

5.2.1.1 Number of outgoing students placed and / or progressed to higher education year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
330	104	103	244	171

5.2.1.2 Number of outgoing students year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
577	485	414	485	530

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.2.2 Percentage of students qualifying in state/national/ international level examinations during the last five years (eg: JAM/CLAT/GATE/ GMAT/ CAT/ GRE/ TOEFL/ Civil Services/State government examinations)

Response: 44.68

5.2.2.1 Number of students qualifying in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ Judicial Services/Public Prosecution services/All India Bar Exams/State government examinations) year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
5	2	3	3	8

5.2.2.2 Number of students appearing in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT,GRE/ TOFEL/ Civil Services/ State government examinations) year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
20	6	3	3	15

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.3 Student Participation and Activities

5.3.1 Number of awards/medals for outstanding performance in sports/ cultural activities at University / state/ national / international level (award for a team event should be counted as one) during the last five years

Response: 30

5.3.1.1 Number of awards/medals for outstanding performance in sports/cultural activities at

national/international level (award for a team event should be counted as one) year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
6	0	5	6	13

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.3.2 Average number of sports and cultural programs in which students of the Institution participated during last five years (organised by the institution/other institutions)

Response: 22

5.3.2.1 Number of sports and cultural programs in which students of the Institution participated year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
26	02	16	22	44

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.4 Alumni Engagement

5.4.1 There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services

Response:

The institute has a Registered Alumni Association named as “**Association of Passed Students of Dr. J. J. Magdum College of Engineering, Jaysingpur**” with registration number **Maha/26466/Kolhapur**, dated **23/12/2009**.

The goal of forming this association is to network with one another and to cultivate an enduring intellectual and touching connection between the Institute and its alumni. Alumni provide expert advice and help for

the desired requirements in the laboratories, library, departments, and curricular and co-curricular activities of the institute. Alumni association members are selected on the basis of discussion with alumni during the meetings. The alumni association members have spread all over the world and support the Institute in various activities. It, being in touch with the corporate world, helps in planning for seminars, workshops, training, industrial visits, etc., and helps in the placement activities for the existing students. Every year, alumni visit the college to conduct expert lectures, oral examinations, project orals, etc.

Alumni serve as members of Department Advisory Boards, helping to bridge the gap between industry and academia. They attend meetings regularly, participate in discussions, and work for the development of the institute. Successful entrepreneur alumni are conducting motivational lectures to existing students under Entrepreneur Development Cell. Students help in conducting industrial visits at their organizations for existing students. Alumni help in offering sponsored projects for final year students. In the last five years, three Central Alumni Meets have been organized.

Our alumni play a vital role in the development of students in the following ways:

The Institute conducts annual alumni meetings during which the alumni interact with faculty and explore their ideas and experiences in different areas. The experiences shared by the alumni related to the maintenance of discipline in institute and its benefits while working; the benefits of attending soft skill lectures; the benefits of co-curricular courses like CATIA, STADD-Pro, etc. Apart from this, alumni also share their failure stories in their academics, interviews, competitive exams, etc., and how to overcome them. Such feedback from the alumni acts as an input in enhancing and strengthening the confidence, technical skills, communication skills, and social skills of the students.

The Institute is in regular contact with the alumni and invites them to guide and support the students for different career opportunities available in the various fields of engineering. The mentorship of alumni helps the students for getting industrial training opportunities, sponsored projects, placement assistance, etc.

Providing Expertise: Alumni contribute by providing their expertise in developing new study programs in the Institute. Alumni contribute as guest lecturers, advisors on committees, industry experts, and cooperative partners in projects. Alumni from various industries visit the institute to advise students on how to prepare for interviews and the expectations of the industries.

Alumni Funding: Alumni who have achieved financial stability are able to support the underprivileged students in the institute by providing technical books, career guidance books, journals, etc.

File Description	Document
Upload Additional information	View Document

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1 The governance and leadership is in accordance with vision and mission of the institution and it is visible in various institutional practices such as decentralization and participation in the institutional governance

Response:

Our Institute has defined the institute's vision and mission through the interactive procedure with different stakeholders which are revised after certain duration.

The Vision –

To be a leading academic organization, creating Skilled and Ethical Human Resource by leveraging Technical Education for Sustainable Development of Society.

The Mission-

1. To produce Competent Technocrats to meet modern societal and industrial challenges.
2. To create ethical and skilled human resources through quality education and various Extension activities and outreach programs
3. To leverage technical expertise to solve societal issues for its sustainable Development.

Nature of governance-

The Institute's Board of Governors (BOG) has been established following the regulations of the AICTE, DTE, affiliating universities, and the Maharashtra Government, in which all types of stakeholders are involved.

Decentralization and participative management

For proper implementation of diverse academic and non-academic matters, the Institute maintains around different committees with distinct tasks.

- All academic and operational decisions based on policy are delegated by the BoG to College Development Committee, which is chaired by the Principal.
- The CDC develops standard operating procedures and delegates their implementation to all department heads through IQAC.
- The Department Heads are given the authority to look after departmental administration.

- Deans of Faculty Development and R&D look after the overall development of the faculty members.
- The Institute's co-curricular, extracurricular activities, and sports are coordinated by Faculty, the Physical Director, Students, and Dean Students.
- The Examination coordinator conducts internal assessment and University examinations.
- The librarian manages book availability, procuring requisitions for new books from faculties, and keeping University question papers, and syllabus copies.
- The Training and Placement Officer is in charge of arranging campus drives, arranging internships, coordinating with adjacent colleges for Pool Campus, and ensuring that students are placed successfully in a variety of industries.
- Accounts and Administration is handled by the Registrar.

Case Study:

Each department has constituted its own Departmental Advisory Board demonstrating participative management. Delegation of responsibilities, accountability, decisions making, and effective implementation is the major task of DAB. This board is constituted by considering every stakeholder of the department is Teaching, Nonteaching Staff, Student members, Alumni, Industry persons, and senior academicians from another institute.

DAB is student-centric committee that strives to meet needs of students and prepare professionals and leaders in different fields. So for this process, stakeholders are also involved.

The meeting of DAB is conducted each semester. Academics, Curricular, and Extracurricular activities which are planned and executed are discussed in the meeting. Suggestions and monitoring from each stakeholder of DAB help to improve department's performance in all aspects. The involvement of senior academicians from other institutes helps us to realize needs for recent technological changes in curriculum. Wherein industry people help imbibe a practical approach to theoretical environment of study of students.

Current students and alumina are better to judge to give feedback for further semester.

The outcome of all these efforts is better placement winning various competitions like technical, sports, cultural and university ranks.

File Description	Document
Upload Additional information	View Document

6.2 Strategy Development and Deployment

6.2.1 The functioning of the institutional bodies is effective and efficient as visible from policies,

administrative setup, appointment and service rules, procedures, deployment of institutional Strategic/ perspective/development plan etc

Response:

Trust

The institute was founded in 1992 by the Dr. J.J.Magdum Trust, for UG and PG programs. Working under the apex authorities AICTE, DTE Maharashtra, and Shivaji University Kolhapur, the institute has an organizational framework for the efficient operation of academic and administrative activities.

Under Maharashtra Public University Act 2016, Governing Body(BOG), and College Development Committee (CDC) are constituted to govern all activities.

The campus Director, Principal, Deans, HODs, Faculties, and Technical Assistants are all members of the Institute's academic hierarchy. The administrative section includes the TPO, Library, Accounts, Gymkhana, Transport, Stores, Security, and Canteen.

Research Committee, Grievance Cell, Anti-Ragging Committee, Women's Cell, Internal Complaint Committee, Examination Committee, Local Purchase Committee, Library Committee, Student's Council, Internal Quality Assurance Cell, and Cultural Committee are among the statutory and non-statutory committees established in the Institute.

The Principal is the head of the Institute and is In charge of all the academic and administrative setup.

Dean Academic, Dean Student's, Dean R&D, Dean FDC, TPO, and Industry Institute Coordinator appointed for the respective activity.

The Heads of Departments are in charge of their department's academic and administrative activities in the department.

The examination officer monitors the planning and conduct of examinations.

The Registrar and Administrative section provide services to students for scholarships, fees, certifications, etc.

The network Administrator takes care of establishing and maintenance of the IT infrastructure of the campus.

Other important areas like the library, Gymkhana, and hostel are headed by Librarian, Physical Director, and Rector.

Other committees are established to administrate and maintain central stores, hostel,

Campus, transport, security, gardening, electrical, etc.

Appointment and Service Rules

The staffing requirement is calculated and recruited as per AICTE and affiliating university standards. Candidates are interviewed after an advertisement is placed in the major media. The interviewing committee is made up of a subject expert nominated by the affiliating university, the Principal, A management representative, and the Head of the Department.

The administrative manual outlines the tasks and obligations of several kinds of institute employees, leave policies, a code of conduct, prerequisites for recruitment, a Promotion Policy, etc.

Grievance Redressal

On the college website, a link is provided for all stakeholders, including students, teachers, parents, and the general public, of the grievance Redressal committee to grievances, if any. The internal complaint Committee, Proctor Cell, also assesses grievances and provides appropriate remedial steps. Additionally, suggestion boxes are placed in strategic areas around the academic blocks to receive student feedback and concerns. Every month course monitoring committee meeting is held to get academic feedback.

Deployment of strategic/perspective/development plan-

To achieve good academic practice department prepares the academic calendar/SIM in the initial phase. Teaching plans execution and Monthly review of syllabus completion are monitored by Academic Co-ordinator. CMC submits academic conduction feedback to HoD for remedial action. Various co-curricular activities are organized supporting academics. Evaluation of courses is done through the continuous assessment method and CIE. This procedure enhances the count of University rankers.

File Description	Document
Upload Additional information	View Document

6.2.2 Implementation of e-governance in areas of operation

1. Administration
2. Finance and Accounts
3. Student Admission and Support
4. Examination

Response: A. All of the above

File Description	Document
Upload supporting document	View Document

6.3 Faculty Empowerment Strategies

6.3.1 The institution has effective welfare measures and Performance Appraisal System for teaching

and non-teaching staff**Response:**

Employee Welfare is regarded by JJMCOE as a necessary component of the institute. Employee morale is maintained by an institute's welfare practices. They enhance the quality of their performance, as they feel contented, comfortable, and enthusiastic to work for the organization.

The Institute offers a variety of benefits to its whole teaching/non-teaching and administrative employees. The following are a handful of them:

1) Provident Fund-

Eligible employees in the institute are covered by the EPF scheme. According to government regulations, employees' PF accounts are credited with eighteen hundred rupees, with the employer contributing the same amount. 8.33% of employer contributions go to the PF pension system, with the rest going to employee PF.

2) Gratuity Fund-

Eligible employees are entitled to a gratuity after five years of continuous employment. After leaving the service, employees are paid a gratuity.

3) Group Insurance & Medical Assistance-

The institute assists with group mediclaim policies. The institute has collaborated with hospitals and Medical officers to provide medical care. For emergency assistance, the Institute has light-duty vehicles.

4) Professional Growth-

a) Institute promotes employees for higher education to improve their qualifications by providing study leaves. As well registration fees, Dearness allowance, and travel grants are provided for the employee for attending faculty development programs, various conferences, workshops and skill development courses, and Research.

b) Permission to faculty is given to deliver guest lectures at other institutes

c) Permitted to visits to industry and higher learning institutes for knowledge acquisition/sharing

5) Leaves-

a) General Leave -For employees personnel, earned leave, half-pay leave/medical leave, and extraordinary leave are available.

b) Duty Leave- Faculty/Staff personnel are permitted duty leave to attend off-campus conferences, seminars, symposiums, and other Institutional activities.

c) Maternity leave-Provision for maternity leave is available for female faculty/staff as per rules.

6) Financial Help-

Employees who are in need get paid in advance.

7) Admission help to ward-

Admission to JJM'S Trust institutes is given priority for employee wards. Also, fee concessions are offered to the children of an employee during their admission to the Institute.

8) Sports & Gym Facility-

To improve their physical fitness, all employees can use the sports facilities and Gym.

9) ATM Facility-

Employees have access to an ATM facility on campus during working hours.

10) Awards / Incentives:

- a) The Institution pays for a portion of Faculty Skill Certification and Patent expenses.
- b) For faculty engaged in consultancy work Proportional monetary compensation is given based on the contractual value of work.
- c) Every year, the Institute selects and honors the best teacher, best-supporting staff, and best administrative personnel. After completing twelve years of continuous service at the Institute, each employee is honored.

Faculty Performance Appraisal is conducted using a standardized framework that encompasses both responsibility and professional growth. The following are the functional components of the Performance Appraisal process:

- The employee performance appraisal procedure is completed.
- Every faculty member submits an annual self-appraisal report to the individual department HoD which is forwarded to the Principal for further action.

File Description	Document
Upload Additional information	View Document

6.3.2 Percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the last five years

Response: 15.3**6.3.2.1 Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies year wise during the last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
2	2	22	11	49

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

6.3.3 Percentage of teaching and non-teaching staff participating in Faculty development Programmes (FDP), professional development /administrative training programs during the last five years**Response: 60.75****6.3.3.1 Total number of teaching and non-teaching staff participating in Faculty development Programmes (FDP), professional development /administrative training programs during the last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
157	167	121	53	87

6.3.3.2 Number of non-teaching staff year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
61	62	89	92	97

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

6.4 Financial Management and Resource Mobilization

6.4.1 Institution has strategies for mobilization and optimal utilization of resources and funds from various sources (government/ nongovernment organizations) and it conducts financial audits regularly (internal and external)

Response:

The Institute is private and self-financing, relying only on student fees. Admissions are made through the Maharashtra Government's Centralized Admission Process. The student fee is the Institute's primary source of revenue. This fee is based on expenditures from the previous year and the impact of inflation over the next three years. Every year, the institution submits all necessary information on expenditure and projections to the ShikshanShulkSamiti (Fee Regulatory Authority), which determines the Institute's tuition fee. The FRA also allows the Institute to set aside costs for capital expenditures that it intends to make over the next three years. As a result, the FRA's fee fixing is acute for large resource mobilization.

The fees are used for funding expenses like institutional development, salaries, electricity, vehicle fuel, infrastructure upkeep, etc. Contribution of part of fees is received from the Social Welfare Office of Government as per the criteria defined by them.

AICTE has granted proposals regarding MODROBs/FDP/EDC to an institution. Also, efforts are being made to raise the funds through consultancy, R&D initiatives, numerous symposiums, seminars, national and international conferences, and other similar events from government/non-government organizations.

Department HOD prepares a budget based on the requirements for the upcoming academic session, which includes both recurring and non-recurring expenses in consultation with faculty and Lab In Charge. Also, the budget is submitted by different sectional heads. Then the institutional budget is prepared taking into account the needs. This budget is further approved in the BoG meeting.

After this, the purchase procedure begins. A comparison is created after receiving bids and quotations. All the related documents are put in front of the Purchase Committee. Negotiations between the vendors and buyers happen in the presence of the members of this committee. Purchase Orders are also sent to the designated party or parties. This procedure ensures optimized quality purchase/execution of various particulars.

Financial audits:

The Institute's accounts are audited regularly under government regulations. The college conducts internal as well as external/statutory financial audits regularly.

Internal Audit:-

The institute's accounts are audited by an internal auditor selected by the

Institute. The internal auditor examines fee receipts and payments, as well as vouchers and

supporting paperwork. The auditor confirms that all payments have been properly

authorized. The report is forwarded to management for evaluation after the audit.

External Audit-

For a statutory/external audit M/s Kishor Joshi & Associates, a Chartered Accountant, has been appointed to the Institute. They conduct an external audit of the institute twice a year, checking the books of accounts and preparing an audit report and audited statements to deliver to management.

File Description	Document
Upload Additional information	View Document

6.5 Internal Quality Assurance System

6.5.1 Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes. It reviews teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals and records the incremental improvement in various activities

Response:

The IQAC started in the academic year 2015-16 in the institute with the following objectives:

- To develop systems for improvement in academic and social tasks of the institute.
- To focus on enhancement in quality of curricular/extra-curricular activities and research.
- To optimize and utilize modern methods of teaching and learning processes in academics.
- To enhance Industry – Institute - Interaction.

The above objectives are achieved through the following activities

- The academic performance is enhanced due to which the count of University rankers is increased. Different activities related to societal benefit are well organized. AICTE has granted proposals regarding MODROBs/FDP/EDC to an institution.
- The participation of students in Seminar/Conference/Sports/Cultural at the University / State / National level is increased and awards are won.
- Teaching Learning process has flourished by using online lecture conduction using various tools such as Google Meets, Zoom, Google classroom, and YouTube Channel generation.

- Expert Lectures from Industrial persons, Industry visits, Internships, Industry Sponsored Projects/Labs, and Involvement of Industry persons in various committees helped to improve Industry Institute Interaction and also improved student placements.

IQAC focuses on periodical reviews to achieve incremental improvement in various

activities.

•Teaching learning process:-

The academic year starts as per the schedule given by Shivaji University Kolhapur. The Central Academic Calendar is prepared before the commencement of the academic year which consists of various activities such as curricular, extra-curricular, co-curricular, etc. Then each department prepares its academic calendar in alignment with the central calendar and gets approval from the Dean of Academics and the Principal. The Academic Calendar includes the start and end dates of each semester stating various activities to be conducted, the internal evaluation schedule, and the tentative schedule of Practical Oral Examinations (POE). This Academic calendar is periodically reviewed.

Each department has a Course Monitoring Committee (CMC) to take review the smooth conduction of the teaching-learning process. Necessary actions are taken such as conducting extra lectures, arranging technical workshops, and guest lectures to overcome the needs. Also, Continuous Internal Evaluation is conducted twice and marks are given as per the student's performance in the exam. The term work marks are evaluated based on the understanding of the practical experiments and quality of writing of the journal.

This reviewing practice of the teaching-learning process has enriched academic performance and resulted in an increased count of university rankers.

•Structures & Methodologies of operations

The institute works in a decentralized manner with Deans of different sections such as Academics, Student welfare, Faculty Development, Placement, Industrial interaction, and Research. The performance evaluation of all the above sections is periodically done.

•Learning outcomes

The institute follows the approach of OUTCOME BASED EDUCATION and in this regard, the CO attainment is calculated every semester using direct and indirect tools. The direct tools such as performance in CIEs, Practical, Quiz, ESE, and the indirect tool such as course exit survey are used to find the attainment level of CO. The review is also taken for different activities conducted to improve the attainment level where required.

File Description	Document
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6.5.2 Quality assurance initiatives of the institution include:

- 1.Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analysed and used for improvements**
- 2.Collaborative quality initiatives with other institution(s)/ membership of international networks**
- 3.Participation in NIRF**
- 4.any other quality audit/accreditation recognized by state, national or international agencies such as NAAC, NBA, ISO Certification etc**

Response: A. All of the above

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

Criterion 7 - 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 and Institutional initiatives to celebrate / organize national and international commemorative days, events and festivals during the last five years

Response:

Institute is taking efforts to bring the gender equity over various curricular, co-curricular activities to ensure equal opportunities which are provided to all individuals regardless of gender, caste, colour, language, religion, political or other view, national Origin, birth or other status. Its unique work culture, healthy traditions & attitude have led to enrolment of 45% women students & 40% women staff.

Safety, security, gender equity, friendly working atmosphere are the issues of prime concern to Institute. Experts are invited to guide students related to woman safety viz., self-defense, health & nutrition. Institute takes efforts to bring equity by ensuring that at least one or more woman member are included in many policy making & implementation committees. Equal opportunities for participation to male & female in various events viz. sports, cultural, NSS, extension, technical activities. Institute has established Internal Complaint Committee which ensures that, the occurrence of sexual harassment in the workplace, any reference to sexism, gender stereotyping & need for healthy, safe environment for all stakeholders.

Institute has built culture to bring equity among the students by taking following efforts:

Safety and Security:-

To provide the students with safe, congenial environment, institute ensures ragging free campus. The undertaking is taken from students at the start of every academic year which includes ill effects of ragging and related acts. Anti-ragging posters are displayed at all prominent places. Anti-Ragging squad is formed to visit hostel premises randomly. Wearing College I Card is compulsory for students and staff. CCTVs are provided across the campus for surveillance. Fire Safety Kits are installed in all buildings. Security is available for girls hostel with 24X7 female wardens & security guard. The 24X7 first aid medical cares in institute & hostel is made available. The Sexual Harassment & Prevention Cell is available.

Counseling: -

The Institute has dedicated Counseling Centre & good mentoring system for the students to take care of their academic, emotional, social development. Personal counseling is provided to the students at different levels & faculty mentor is available. To improve student's behavior, personality and intelligence, counselor has been appointed & visits institute.

Common Room:- The boys and girls common room are available in the institute. Facilities in the room are newspaper, beds, sanitary napkin, vending machine is available in the girl common room. Hygienic Food is served in mess and Canteen. The other facility such as RO Water for entire campus and safety transport facilities for both boys and girls are available.

Institute celebrates National & International commemorative days, events, festivals to promoting patriotism, concern for community, human values, completeness and spirit of comradeship.

- Savitribai Phule Jayanti
- Voters Day
- Republic Day
- Chatrapati Shivaji Maharaj Jayanti
- Marathi Bhasha Divas
- Women's Day
- Earth Hour
- Dr. Babasaheb Ambedkar Jayanti
- International Yoga day
- Rajarshi Shahu Maharaj Jayanti
- Independence Day
- Sadbhavana Diwas
- Teachers Day
- Engineers Day
- World Ozone Day
- Ganesh Festival
- Gandhi Jayanti
- Rashtriya Ekta Diwas
- World Environment Day
- Constitution Day

File Description	Document
Upload Additional information	View Document

7.1.2 The Institution has facilities and initiatives for

1. Alternate sources of energy and energy conservation measures
2. Management of the various types of degradable and nondegradable waste
3. Water conservation
4. Green campus initiatives
5. Disabled-friendly, barrier free environment

Response: A. 4 or All of the above

File Description	Document
Upload supporting document	View Document

7.1.3 Quality audits on environment and energy regularly undertaken by the Institution. The institutional environment and energy initiatives are confirmed through the following

1. Green audit / Environment audit
2. Energy audit
3. Clean and green campus initiatives
4. Beyond the campus environmental promotion activities

Response: A. All of the above

File Description	Document
Upload supporting document	View Document

7.1.4 Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and Sensitization of students and employees to the constitutional obligations: values, rights, duties and responsibilities of citizens (Within 500 words)

Response:

The Institute has a well-established cultural team to maintain harmony among all cultural, regional & linguistic activities through various events. To keep an inclusive environment, we organize National Service Scheme camp every year in different villages Umalwad, Herwad, Chinchwad. The volunteers undertook cleaning of the surroundings of temple, river, School, playground & bus stop. The NSS Unit organized a Yoga session, Cleanliness Awareness Rally & performed a street play to create awareness among the masses. NSS volunteers completed literature survey of the villages & organized session on "Awareness about waste management", "Health and Nutrition" to villagers.

The Institute has been in the front of outreach initiatives towards those struck by natural disasters. Volunteers actively collected material, water and kind for flood victims of Shirol. Trees are planted in the campus and various villages every year. To mark the onset of cleanliness fortnight, the NSS, delivered the Cleanliness oath to the NSS volunteers. Under community cell, different e-services programs were organized. The Gram Vikas Conference was organized.

One important step to follow a green practice is to minimize the use of vehicles. Most students use the institute bus facility. Every year institutes celebrate No vehicle day & Ozone day.

Institute organizes Dr. J. J. Magdum Smruti Vykhyanmala on topics Woman Power, Life is beautiful, Cheerful Life beneficial to health. Institute organizing Annual Day to find out hidden artistic talent amongst the students by Celebration with various regional, linguistic, social activities. Traditional Day is celebrated in which students are in various costumes of different traditions in India to give the message of 'Unity in Diversity.'

Institute publishes Annual Magazine entitled as 'Verve' wherein one section is exclusively devoted for literature in different languages other than Hindi & English. It is to promote the students from other states with their mother tongues other than Marathi to explore their talent. Institute celebrates the birth ceremonies of all the leaders and iconic persons such as Chhatrapati Shivaji Maharaj, Dr. Babasaheb Ambedkar, Mahatma Gandhiji, Sardar Vallabhbhai Patel, Savitribai Phule, Dr APJ Abdul Kalam, Mokshagundam Visvesvaraya, Srinivasa Ramanujan Jayanti. Institute celebrates Independence Day, Republic Day, Savidhan Din, Constitution Day, National Unity Day.

The Institution organizes various activities for sensitization of the students & employees for inculcating values, rights, duties & responsibilities for being responsible citizens of India. Institute organizes Induction Training for first year students every year.

All staffs & students exercise particular care in the use of electricity. Lights & fans are shut off by the last

person who leaves a room. Institution is encouraging paperless work. Most reports such as attendance report, daily work reports and other memos are sent by e mail. Paper is used only when absolutely necessary. Any rough drafting is done on the blank side of a used paper.

To bring awareness among young voters institute organizes Voters Awareness Rally and done voters registration. Institute celebrates Democracy fortnight, Voter's Day. NSS Unit has organized blood donation camp, PAN card and Passport registration camp& Covid19 vaccination camp to contribute to public health regularly.

File Description	Document
Upload Additional information	View Document

7.2 Best Practices

7.2.1 Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual

Response:

Best Practices play vital role in academic success. Following are the two Best Practices in the Institute-

BEST PRACTISES 1:-

1. Title of the Practice

Departmental Research Committee (DRC)

2. Objectives of the Practice

Each department has constituted DRC with objectives:-

- To inculcate research culture among students.
- To evaluate the phase wise development of Project work throughout the year to assess the quality & progress of the projects.
- To motivate students to develop the projects on industry real time problems, societal issues, Environmental issues, Institute and laboratory usefulness and innovative ideas.
- To inspire students for participation in project competition, paper Publications and filing patents,

1. The Context

Provide guidance to students for their project work from selection of project topic, defining objectives, methodology till implementation. DRC has been assigned responsibilities to maintain good quality of project work, motivate student for research work and assessing the progress of project work. The

projects should be useful for society, laboratory and institute development, solution to industrial problem and environmental issues. Motivate students for publications in journals and participation in different technical competitions. Also encourage student for getting Patent or copyrights for their project ideas.

4.The Practice

Each department has constituted DRC, which includes HOD and 3- 4 senior faculty members, who can give more input in research work. The project batches of students are formed as per guidelines of SUK. and are expected to complete the project work in two phases (semester wise). The guide allocation to group is done as per area of specialization of the faculty. DRC approves the synopsis of project assessing the project topic by considering different factors such as uniqueness, use for society, industry real time problem, Institute and laboratory usefulness & innovative ideas. Different expert sessions of academicians and industry resource persons are organized in view of their project topic. Project progress work is assessed through Rubrics at regular intervals by conducting presentations.

Seminars, webinars are organised to guide the students for filling ideas for Patent & copyright. Good projects are selected for patenting the ideas & taking copyrights.

5. Evidence of Success

As per the policy set by R& D cell of Institute, students have chosen their project in the areas addressing 56% societal use, 23% industry real time problems, 2% College development, 2% laboratory development, 15% innovative ideas, 2% current issues such as flood, COVID19 etc.

As a result the students have published project idea in 48 National & 90 International Journals. Also 04 eligible projects are registered for patent filing as well as copyright. The 24 project group participated in many technical competitions, where 06 project groups achieved 1st rank, 02 project groups achieved 2nd rank. The remarkable projects undertaken & completed successfully are Organ Transform Drone, Mask winding & disposal machine, Smart video summarization, Cotton leaf disease detection using deep learning and Municipal solid waste management.

Above all this practice helps to improve students' technical knowledge and skills such as problem solving, design and development, project management, finance, lifelong learning etc and to inculcate research attitude.

6. Problems Encountered & Resources Required

As the students are from rural background, it required more efforts for motivating the students for research activities. Due to rapid changes in IT tools & technologies require hard efforts to cope up with these changes.

BEST PRACTISES 2:-

1) Title of the Practice: -

“ Your Dream, Our Mission” ...leads to holistic development of students.

2) Objectives of the Practice:-

As per tagline we focus on students growth with following objectives-

- To guide students to set their goal in career in many fields as higher studies, competitive exams, campus placement, entrepreneur, etc.
- To inculcate the research & developmental activities.
- To make the students physically & mentally fit by providing necessary facilities & guidance.
- To inculcate the ethical & moral values and develop social awareness in students to make them good citizen of India.

3) The Context: -

Being the institute located in rural area students come from different family backgrounds. These students need holistic support to set the goal in their career. Our aim is to build a society free from judgment & deprivation, so institute encourage the students with skills, physical & mental health. And at the same time efforts are taken to guide them to choose career path in their interested areas. Along with this, institute helps them to increase their academic performance.

4) The Practice:-

At the beginning of first year only, through induction program students get acquainted with curriculum, role of an engineer, area of working, scope and the opportunities. There onwards, as per their inclination we provide the necessary guidance through different career guidance cells. Placement cell, we organize training such as soft skill, technical training and company specific trainings. The Entrepreneurship Development Cell organizes activity to inculcate awareness by conducting lectures from industry persons & awareness camp in collaboration with District Industries Centre (DIC). Higher study and Competitive examination cell also organizes the guidance and motivating sessions. Student Associations arrange different activities. Central Student Committees are formed to organize activities like Annual social, cultural, sports, technical, NSS and to publish Annual Magazine.

5) Evidence of Success:-

Since establishment 106 students have secured Merit & Ranks in University list. More than 952+ placements offered in reputed companies with decent packages during last 05 years. In current year Mr. Aadesh Medhe & Miss. Akanksha Patil got selected in Capgemini & TCS with highest package of 7.5 & 7 Lakh respectively. Till date 130+ number of Students have qualified in different competitive examinations & have secured jobs in government sector. 89 Students have pursued their higher education during last five years.

Institute team secured (11 students) runner up in National Level Inter Engineering Sports for the event kabaddi. Two students secured 3rd rank in State Karate competition. 12 students secured 2nd in Inter Zonal University Table Tennis. One student secured 2nd rank in Inter Zonal University Judo. Institute publishes Annual magazine "Verve" every year and won many prizes at university level Annual College Magazine competition.

6) Problems Encountered & Resources required:-

Some students were with low merit during admission in the institute. So their learning capacity was at low level. The number of students opting for jobs is still much more as compared to the number of empowered individuals who, with their ingenuity, will go for start-ups. This is sort of a cultural shift and it will take time to produce a sizable number of students who will opt for self-employment as well to go for higher study and competitive examinations.

File Description	Document
Any other relevant information	View Document
Best practices as hosted on the Institutional website	View Document

7.3 Institutional Distinctiveness

7.3.1 Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words

Response:

Industry Institute Interaction

The institute is keen to have industrial collaboration in terms of human resource, knowledge transfer, skill training, internships, projects, testing and consultancy, product development etc.

Objective

1. To develop add-on educational programs which are consistent with the broad requirements of the industry & which can give rise to engineering persons (technocrats) capable of coping-up with the Industrial needs.
2. To coordinate the research & developmental activities of the Institute & Industry

Industries are required to transform their production & compete at international market. The emphasis has shifted to quality products & well trained manpower to produce such products. There has been a greater need for industries to depend on technical institutions for R&D & to supply the highly qualified & skilled manpower. Retraining of the work force has become major activity for all industries. This will be good opportunity for institute to interact with industries for mutual benefits.

The Industry-Institute Interaction would increase mutual benefits when a cooperative relationship is developed between the Institute & Industry. The development of such symbiotic relationship requires, careful understandings of the industry needs such as relevant R&D, cost effectiveness, time bound programs, technology up gradation etc. by the Institute &, in turn, understanding the capabilities & limitations of the institute by the Industry. Recognizing the above, following thrust areas have been identified:-

Measuring attributes for the Industry Institute Interaction are

- Faculty Industry Immersion Program/Faculty Training in Industry.
- Industrial Visits/Tours for students & faculty members.
- Industrial/Internship /Summer Training for student
- Industry Supported Laboratories
- Industry Sponsored Projects
- Testing and Consultancy , product development
- Curriculum Enrichment
- Industry Involvement in Partial Delivery of Any Regular Courses for Students

Guest & Expert Lectures

Alumni Involvement

Visiting Faculty from Industry

By signing of memorandum of understanding (MoU) with industries helped in overall development of the institute.

Road Map

In keeping with the above thrust areas, following action plan has been prepared by the Institute to fulfill the aims of Industry Institute Interaction into achievements:

1. Preparing / updating of an information brochure / audio-visual giving salient features of the Institute (Department wise brochure or video) including various programs, R&D activities (completed / ongoing) and overall achievement of the department
2. Identifying & preparing list of top executives & technologists from various industries & inviting them to address the faculty & students through various means of involvement like Expert lectures, guest lectures, Department advisory board meetings, Value added programs, Students project guidance etc.
3. Providing the faculty training in industry.
4. Identifying interested students and faculty as per their specialization and project requirement and motivate to take Industry sponsored project
5. Inviting Industry Persons for examination of project and identifying best Student Project.
6. Organizing Entrepreneurship Awareness Camp (EAC) every year for students.
7. Inclusion of practicals as per the Industry expert suggestion

Keeping these road map Institute has implemented action plan as below

- A number of student projects and Internship has been offered in the recent past as a result of interaction activities.
- Industrial /Internship /Summer Training is an important strategy to expose students to real work life situation & to Equip them with the necessary skills so that they would be job ready when they graduate.
- Participation of Industry Experts in academic development is one of the focused activity of every department

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	Mr. Aviraj Naikawadi		
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Guest & Expert Lectures were delivered by Industry Personnel. Industrial Visits/ field visits have been undertaken by Students. The students of 2nd, 3rd year & 4th year are encouraged to go for industrial visits with the objective of visualizing the things studied in the theory & to get exposed to the industrial working environment.

Also we planned one faculty - one industry visit every month.

Outcome

- More than 92 industries were visited by students to get application of theoretical knowledge as part of Industry Visit.
- More than 75 faculty members have done knowledge up-gradation through Industry training. For faculty, it gives good understanding of the industry & helps in building up of useful case studies for improving the quality of future teaching.
- For current academic year, 24 National / International Industries were visited for placement of students. Industry gets fresh & well trained technical personnel.
- Students started their own consultancy & construction firm.
- During last 5 years, we have done testing and consultancy of Rs.1321275.00 from Government and non Government organizations.
- More than 75% of students have completed Internship to gaining real life experiences, understanding the work culture of industries.
- Since last five years more than 952 placements were offered to the students in reputed organizations .
- For the conduction of expert/guest lectures in different areas more than 70 industry experts were invited in the Institute.
- The Industry persons were invited for Department advisory board meetings once in semester for discussion of development of departments. Also industry persons analyses the student project & identified best project in department.

File Description	Document
Any other relevant information	View Document
Appropriate web in the Institutional website	View Document

5. CONCLUSION

Additional Information :

Social coherence

- Dr.J.J.Magdum College of engineering jaysingpur has provided concession in academic fees for needy students who have lost their parents in COVID pandemic.
- Institute has provided separate institute level scholarships to the flood affected students.
- Institute offers installments in College fees for needy and poor parents .
- During COVID pandemic Institute has extended help towards society by providing Hostel for COVID centers and by arranging Vaccination camp.
- Our employees have also worked as COVID warriors.
- To create awareness and to guide rural youth, we regularly organize carrier counseling lectures for engineering aspirant and their parents.

Infrastructure utilization

- We provide our central computing facility, laboratories to various government agencies for conduction of various exams. And provide infrastructural facilities to NGOs for their social work.
- We provide laboratory infrastructural facility to junior college students.

Accreditation

- Three programs from our institute were accredited by Nation Board of Accreditation in the year 2012.
- Institute is being awarded with 'A' grade by Government of Maharashtra in the year 2003.

Awards and recognitions

- Our institute awarded as "Most Promising Engineering College in West central India" at World Education Summit in the year 2018.

International Conference

- Institute has successfully arranged two International conferences in the year 2010 and 2013 respectively.

Concluding Remarks :

In the year 1992, founder of Dr. J .J.Magdum Trust late shri. Dr .J.J.Magdum has established Dr.J.J. Magdum College of engineering to leverage technical education to the rural youth in the district of Kolhapur. This has opened many gates of carrier opportunities to rural youth which was starving for good technical education in nearby vicinity.

The institute provides environmental friendly green campus with excellent infrastructure. This has helped to provide holistic education by imbibing ethical values amongst students.

Institute is located at jaggery market place city Jaysingpur which is very close to nearby cities such as

Kolhapur,sangli and miraj. Institute is surrounded by different Industrial estates such as Akiwate industrial estate, Parvati Industrial estate, Five star MIDC,Kagal, Kupwad MIDC ,Shiroli MIDC , which has enabled institute to build a strong Industry-Institute connect.

Highly qualified, experienced and dedicated faculty members having student centric teaching approach has guaranteed very strong teaching learning process in the institute. This has resulted in consistent good results and university rankers from our institute.

Institute encourages students to pursue higher studies,to appear for different competitive exams through dedicated higher studies cell and competitive exam cells respectively.

We always strive to prepare our students industry ready. Separate Industry Institute Interaction cell and placement cell consistently taking efforts to achieve the same. Our NSS unit provide social coherence by regularly arranging different activities in the near by rural area.

With such an holistic educational environment our institute has successfully provided competent, skilled human resources to the society, who are shining at various positions at National and International level and playing a vital role in nation building.