



Yearly Status Report - 2018-2019

Part A

Data of the Institution

1. Name of the Institution	MATOSHRI COLLEGE OF ENGINEERING AND RESEARCH CENTRE
Name of the head of the Institution	Dr Gajanan K Kharate
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	02532406611
Mobile no.	9604788280
Registered Email	matoshricoe.hr@gmail.com
Alternate Email	gkkharate@rediffmail.com
Address	Eklahare, Near Odhagaon Aurangabad Highway, Dist. Nashik
City/Town	Nashik
State/UT	Maharashtra
Pincode	422105

2. Institutional Status	
Affiliated / Constituent	Affiliated
Type of Institution	Co-education
Location	Rural
Financial Status	private
Name of the IQAC co-ordinator/Director	Dr Varsha H Patil
Phone no/Alternate Phone no.	02532406621
Mobile no.	7588619283
Registered Email	iqac.mcoerc@gmail.com
Alternate Email	matoshri.hr@gmail.com

3. Website Address	
Web-link of the AQAR: (Previous Academic Year)	http://mcoerc.org/Portals/0/MHCOGN23604_Matoshri%20CoERC_Nashik_IOAR_Yr_2017_18.pdf
4. Whether Academic Calendar prepared during the year	Yes
if yes,whether it is uploaded in the institutional website: Weblink :	http://mcoerc.org/Portals/0/ac18-19.pdf

5. Accrediation Details					
Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	B	2.14	2016	19-Feb-2016	18-Feb-2021

6. Date of Establishment of IQAC	20-Jan-2016
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7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries

NPTEL online certification for Teachers	03-Jul-2017 48	110
Engineering Mathematics Training for teachers	18-Dec-2017 48	100
International Conference on Contents	15-Mar-2019 2	200
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8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Mechanical Engineering	3 Day Workshop on Entrepreneurship Awareness Camp	DST NIMAT	2018 5	40000
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9. Whether composition of IQAC as per latest NAAC guidelines:

Yes

Upload latest notification of formation of IQAC

[View File](#)

10. Number of IQAC meetings held during the year :

2

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website

Yes

Upload the minutes of meeting and action taken report

[View File](#)

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

No

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

Quality is a continuous phenomenon. We always strive to achieve better qualitative status by refining and improving the practices. At times new processes are defined unanimously as a policy decision. 1. With the aid of comprehensive feedbacks IQAC proposed and recommended the practices to reinforce faculty and earners. 2. In consultation with the authorities the action plan to rectify the practices was prepared and implemented. 3. Future strategy has been finalized to increase the competitiveness.

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

Plan of Action	Achievements/Outcomes
Improvements in Support Services	Canteen cleanliness and hygiene have been continuously monitored. Bus drivers were tested and trained. Separate counseling was provided to all bus drivers. Number of buses are increased.
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14. Whether AQAR was placed before statutory body ?

Yes

Name of Statutory Body	Meeting Date
LMC	18-Mar-2019

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?

No

16. Whether institutional data submitted to AISHE:

Yes

Year of Submission

2019

Date of Submission

11-Jan-2019

17. Does the Institution have Management Information System ?

No

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Planning and Implementation

1.1.1 – Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

The institution follows the curriculum prescribed by the affiliating university. The curriculum is well transacted to the students by the concerned teachers. The institute plans for effective implementation of curriculum given by the university and its detail process as Stage I: Before Commencement of Semester. The curriculum is prescribed by university and university declares academic calendar every year. The curriculum of the upcoming semester is made available to all faculty members and is also available at institute's website. The choice of the electives is taken well in advance from students by acquainting them to the elective subjects Before the commencement of the

semester well in advance the subject choice is collected from teachers. Based on the specialization, experience and their choice the subjects are allotted to respective teachers with discussion in staff meeting. The academic calendar, activity calendar and class timetable of forthcoming semester is prepared and conveyed to teachers and students after approval from principal. The course files are prepared/updated by respective teacher that contains course teaching plan, teaching material, and learning material. Lab Manual are prepared and supplied to the novices. Stage II: During Semester Effective implementation of curriculum is periodically reviewed by academic review committee. The academic review committee consists of Class coordinators, academic coordinator and department head. They take the review of the academics, academic progress of students and accordingly suggestions are provided orally. Mid semester feedback is collected from the students to know the know-how's of the subject being taught. If required corrective measures are taken to improve the performance: such as counseling/ mentoring of individual by HOD for any shortfall and improvements. In attendance monitoring process- subject teachers records the attendance during each lecture, class coordinator checks weekly, head of department checks and signs monthly and corrective measures are taken if required. The monthly status of attendance is conveyed to every student and the defaulter's attendance is posted to the parents. In semester, periodic exams are conducted to assess the students on continuous basis and results are declared. Remedial measures are applied for the weak students to pay the personal attention. For the final year Project the expert acquaints student in third year itself and all the guidelines are provided well in advance. As a part of curriculum third year students prepare and deliver the technical seminar on current trends, technology or exotic topics under the guidance of guide. The titles and domain for project are identified and finalized during first week of final year through rigorous process. The allotted guide monitors the progress of the project continuously and the log is maintained. Expert talks, technical event and industry visits are scheduled regularly to enhance the capabilities of the students Stage III: End Semester Conduct of end semester university examination Compilation of term work marks by concerned subject expert/department and submission to student section. Circulation of results after declaration by university Results are analysed by Principal, Dean, HODs and corrective measures are taken, if required.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entrepreneurship	Skill Development
No Data Entered/Not Applicable !!!					

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
No Data Entered/Not Applicable !!!		
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
ME	Heat Power Engineering	16/08/2018

1.2.3 – Students enrolled in Certificate/ Diploma Courses introduced during the year

No Data Entered/Not Applicable !!!

1.3 – Curriculum Enrichment

1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
Workshop On PLC and SCADA Applications	20/08/2018	120
3 Day Workshop on Entrepreneurship Awareness Camp	26/09/2018	150
Seminar on Career Opportunities by Gate Forum Academy	21/01/2019	147
ISHARAE seminar on Air Conditioning Career Opportunities	05/02/2019	147
Seminar on Career Opportunities Government organization	13/02/2019	178
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	Internship at Shivnanda Electronics from 21/12/18 to 5/1/2019.	4
BE	Automation in Electric Vehicle for Battery Conservation at Hyundai Ujjwal Autowheels Pvt. Ltd.	4
BE	ASSEL & PIERCEL Mill setting using AC& DC drive control panel at Eastro Control Systems Pvt. Ltd	4
BE	Trade execution process synchronizing & control of conveyers by using PLC & drive at CEAT Pvt. Ltd.	4
BE	Industrial training	149
BE	IOT	19
BE	PHP	8
BE	Android App and Website Development	9
BE	Internship	103
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution?
(maximum 500 words)

Feedback Obtained

formal mechanism to obtain feedback from students and stakeholders regarding Curriculum and related topics exist in the institute like, 1. Feedback is collected from students, parents, and alumina and industry persons aiming at the enhancement of curricula. These feedbacks are shared among the staff and further to office bearers and authorities during syllabus discussion and finalizations. 2. Dean, members of BOS and Senior faculties are involved in providing guidelines for consideration of this feedback during syllabus design.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
No Data Entered/Not Applicable !!!				
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2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018	1813	10	110	8	18

2.3 – Teaching - Learning Process

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

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Numberof smart classrooms	E-resources and techniques used
67	66	6	12	3	5

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2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

Yes, mentors are allotted to the students. Weekly meetings are conducted with the students by their respective tutors. During these meetings mentors serve as a thought partner for students on their academic journey and help empower students to become autonomous learners and agents of their own change. They express understanding of students aspirations and fears, and support their success by acting as an advocate for students best interests. The following points are focused inmentoring: Improve communication and personal skills, Develop leadership and management qualities, Reinforce your own study skills and knowledge of your subject(s), Increase your confidence and motivation. Engage in a volunteering opportunity, valued by employers.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1813	115	15

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
135	135	0	15	7

2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
No Data Entered/Not Applicable !!!			
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2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BE	CE	1st sem	17/10/2018	04/02/2019
BE	CE	2nd sem	10/04/2019	25/07/2019
ME	CE	1st sem	27/10/2018	06/02/2019
ME	CE	2nd sem	30/04/2019	27/07/2019
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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

Institute adheres to the examination rules and regulations framed by Savitribai Phule Pune University, Pune for examination/ evaluation process. Credit Grade based performance and assessment system. Open Book Examination for PG. Photocopy of answer sheets. Moderation of answer sheets. Online Multiple choice questions Two unit test at institute level are conducted evaluated.

2.5.3 – Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

The institution follows the curriculum prescribed by the affiliating university. The curriculum is well transacted to the students by the concerned teachers. The institute plans for effective implementation of curriculum given

by the university and its detail process as Stage I: Before Commencement of Semester The curriculum is prescribed by university and university declares academic calendar every year. The curriculum of the upcoming semester is made available to all faculty members and is also available at institute's website.

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2.6 – Student Performance and Learning Outcomes

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

<http://mcoerc.org/Departments/ComputerEngineering/VisionMission.aspx>

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
EE	BE	Electrical Engineering	100	81	81
ME	BE	Mechanical Engineering	176	147	83

it	BE	Information Technology	36	32	88.89
ENTC	BE	Electronics and telecommunication engineering	52	2	96
CE	BE	Civil Engineering	120	99	82.50
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2.7 – Student Satisfaction Survey

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

http://mcoerc.org/Portals/0/MHCOGN23604_SSS_Yr_2017_18.pdf

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Resource Mobilization for Research

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

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
No Data Entered/Not Applicable !!!				
No file uploaded.				

3.2 – Innovation Ecosystem

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

Title of workshop/seminar	Name of the Dept.	Date
Recent Trends in Power System Operation, Control and Protection	Electrical Engineering	26/11/2018
National level workshop on "Recent trends in Renewable Energy Energy Storage".	Electrical Engineering	23/11/2018
Workshop on National Programme on Technology Enhanced Learning IIT Madras	Electrical Engineering	30/11/2018
Student Induction Program for First Year	Mechanical Engineering	09/07/2018

3.2.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
No Data Entered/Not Applicable !!!				
No file uploaded.				

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

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
No Data Entered/Not Applicable !!!					
No file uploaded.					

No Data Entered/Not Applicable !!!

No file uploaded.

3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
No Data Entered/Not Applicable !!!		

3.3.2 – Ph. Ds awarded during the year (applicable for PG College, Research Center)

Name of the Department	Number of PhD's Awarded
Electronics Telecommunication Engineering	3

3.3.3 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Electronics Telecommunication Engineering	3	2
No file uploaded.			

3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Electrical Engineering	4
Mechanical Engineering	18
Information technology	2
Civil Engineering	17
Computer Engineering	16
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3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Design of Thermally aware Ultra low Power Clock generator for Moderate Speed VLSI Chip Applications	R.A Walunj, G.K. Kharate, S.D. Pable	Australian Journal of Electrical Electronic s Engineering	2018	3	MCOERC	3
Design Consideration	R.A Walunj,	Australian Journal of	2018	3	MCOERC	3

s and optimization of Clock Circuit for UltraLow Power Sub threshold Applications	G.K. Kharate, S.D. Pable	Electrical Electronic s Engineering				
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3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Improvement in low voltage ride through capability of PMSG based wind energy system	Mr. Pawaskar R C Ms. More T B	IEEE Global Trends in Signal Processing, Information Computing Communication(ICGTSP ICC)	2018	1	3	Matoshri College of Engineering Research Center, Nashik
Performance comparison of PI/PID controllers for DC motor.	Mr. Kale S S, Mr. Munje R K, Mr. Shinde P P	Annual IEEE INDIA conference (INDICON)	2018	1	1	K.K.Wagh Institute of Engineering Education Research, Nashik
Review of dissolved gas analysis in transformer using three gas ratio method	Ms. Jane K C, Mr. Borakhade S A	SSRG International Journal of Electrical and Electronics Engineering	2018	1	3	P. R. Pote Patil College of Engineering Amaravati
Impact of distributed generation on protection of power system	Mr. Bhise D R, Mr. Kankale R S, Jadhao S	International conference on innovative mechanisms for industry applications	2018	1	9	S.S.G.M.C Shegaon
Walk through	Bhise D R, Kathalkar	International	2018	1	1	S. T. C. S. E. R.

the wind	K K, Sawalakhe S R, Khanzode N R, Jawale P R, Kharat A A, Bhagat A A, Mahajan Y L, Sawalakhe S R	Conference on soft computing techniques and implem entations (ICSCTI)				C., Khamgaon
Dual band microstrip patch antenna for wireless a pplication	D D Ahire, GK Kharate	Internatio nal Journal of Computer Technology and Applic ations	2018	3	1	MCOERC, Nashik
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3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Presented papers	33	1	1	0
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3.4 – Extension Activities

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

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
NSS camp	MCOERC	3	15
Swacchata Abhiyan	NSS Matoshri College of Engg. And Research Center	7	105
Ganesh idol collection	NSS Rotary club	5	48
Tree Plantation	NSS Grampanchayat, Wadzire	4	52
Street drama on women empowerment	NSS Grampanchayat, Wadzire	5	26
Street drama on electrical safety	NSS MSEDCL	5	32
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3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited

No Data Entered/Not Applicable !!!

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

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Swachh Bharat	NSS and Matoshri Education Society	Cleanliness of College premises	12	148
Swachh Bharat	NSS Rotary club	Ganesh idol collection from river	7	57

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3.5 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
No Data Entered/Not Applicable !!!			
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3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Visit	Industrial Visit	Kadwa Sugar Factory, Dindori Nashik	07/09/2018	07/09/2018	180
Visit	Industrial Visit	ICY AQUA Madsangavi Nashik	10/09/2018	10/09/2018	210
Visit	Industrial Visit	SM Auto Stamping Private Limited Ambad Nashik	09/10/2018	09/10/2018	230
Visit	Industrial Visit	NTPC Ekalahare Nashik Children Traffic Park Mumbai Naka Nashik	16/10/2018	16/10/2018	230
Visit	Industrial	Kadwa Sugar	26/02/2019	26/02/2019	180

	Visit	Factory, Dindori Nashik			
Visit	Industrial Visit	Rajendra Industries Ambad Nashik	06/03/2019	06/03/2019	180
Visit	Industrial Visit	Gautam Godavari Hydro electrical Power Plant	06/03/2019	06/03/2019	180
Visit	Industrial Visit	Sahyadri Cold Storage Nashik	12/02/2019	12/02/2019	180
Visit	Industrial Visit	MSRTC Divisional Workshop Nashik	20/03/2019	20/03/2019	146
Visit	Industrial Visit	Children Traffic Park Mumbai Naka Nashik	16/10/2018	16/10/2018	180
Job Training	Internship	Acme HiTech Industries A15 MIDC Malegaon Sinnar Nashik	15/12/2018	15/01/2019	3
Job Training	Internship	Adarsh Auto Lakhampur Satana Nashik	15/12/2018	15/01/2019	1
Job Training	Internship	Auto Healthcare Panchvati Nashik	15/12/2018	15/01/2019	1
Job Training	Internship	Chhaya Enterprises MIDC Ambad Nashik	12/12/2018	26/12/2018	1
Job Training	Internship	CEAT Limited MIDC Satpur Nashik	15/12/2018	31/12/2018	4
Job Training	Internship	Chaudhari Yatra Company Pvt.Ltd M.G.Road Nashik	30/12/2018	30/01/2019	1
Job Training	Internship	Agasti Sahakari Karkhana Ltd .A/Pagastina	20/12/2018	10/01/2019	1

		gar, TalAkole , Ahmednagar			
Job Training	Intership	Bedmutha Industries Limited Musalgaon Sinnar Nashik	15/12/2018	15/01/2019	4
Job Training	Intership	Himkunsh Motors Pvt.L td(Volkswage n Dealer)Ahm ednagar	12/12/2018	14/01/2019	1
Job Training	Intership	Harshal Engineers MIDC Ambad Nashik	03/01/2019	15/01/2019	4
Job Training	Intership	Dipak Automobiles Pimplas Tal.Niphad Dist.Nashik	20/12/2018	20/01/2019	2
Job Training	Intership	Gurukrupa Car Cares Chandori Tal.Niphad Dist.Nashik	16/01/2019	08/02/2019	3
Job Training	Intership	Dinesh Honda A/P Nijampur Jaitane Sakri Dhule	20/12/2018	20/01/2019	1
Job Training	Intership	Gayatri Automobiles Sakri Road Pimpalner Dhule.	20/12/2018	20/02/2019	1
Job Training	Intership	KL Auto MIDC Satpur Nashik	15/12/2018	15/01/2019	1
Job Training	Intership	Laxmi Engineering Works Agasti Road A/PAkol e, Ahmednagar	20/12/2018	19/01/2019	2
Job Training	Intership	Laxmi Engineering Works B36 MIDC Ambad Nashik	26/12/2018	25/01/2019	1
Job Training	Intership	Indian Biodiesel Corporation Baramati	20/12/2018	05/01/2019	8

		Pune			
Job Training	Internship	Jai Jalaram Auto (Authorized Honda Dealer) Shahada Nandurbar	01/01/2019	31/01/2019	1
Job Training	Internship	Ideal Automobiles Chalisgaon Jalgaon	20/12/2018	20/01/2019	2
Job Training	Internship	ISGEC heavy Engineering Ltd. A 4 Sector 24 Noida U.P.	21/12/2018	25/01/2019	1
Job Training	Internship	J.P.Enterprises F 20 MIDC Satpur Nashik	22/12/2018	21/01/2019	1
View File					

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

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
Indian Biodiesel Corporation	01/09/2018	Students Training	8
MAHADISCOM	10/12/2018	Training lectures for MSEDCL employes by MCOERC faculties.	2
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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

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

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
5000000	4500000

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Classrooms with LCD facilities	Existing
Others	Newly Added
Classrooms with Wi-Fi OR LAN	Newly Added
No file uploaded.	

4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
DEL PLUS	Partially	2.0	2015

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Journals	74	144485	99	223126	173	367611
Reference Books	12763	4469339	968	467622	13731	4936961
Text Books	1133	396769	523	232784	1656	629553

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

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
No Data Entered/Not Applicable !!!			
No file uploaded.			

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	394	17	17	10	14	1	6	10	0
Added	25	0	1	0	0	0	0	0	0
Total	419	17	18	10	14	1	6	10	0

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

10 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
No Data Entered/Not Applicable !!!	

4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
164330000	118625377.9	48530000	40112637.54

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

Students are provided with the various platforms and opportunities to participate in sports. The sports facilities are adequately provided. Proactive NSS unit is constantly involved organizing the social, environmental and service related programmes. Seminar halls are also available with moderate capacity. Students are also provided with the facilities to support cultural programmes. Institute has an Auditorium of the capacity of 200 and an amphitheatre. Adequate audiovisual aids are available in the Institute. Special infrastructure is provided to conduct health and hygiene related programs. Primary first aid, emergency transport and doctor are available in the institute. Private hostels are available for boys and girls. All the facilities are available at the hostels as mentioned below, Hostel Facility - Accommodation available Computer facility including access to internet in hostel Facilities for medical emergencies, Recreational facility common room with audiovisual equipments, Constant supply of safe drinking water Security. Hostel Facility - Accommodation available. Recreational facilities, gymnasium, yoga centre, etc. Computer facility including access to internet in hostel, Facilities for medical emergencies Library facility in the hostels. Internet and WiFi facility Recreational facility common room with audiovisual equipments available. Residential facility for the staff and occupancy. Constant supply of safe drinking water.

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Scholarships/ Freeship	1647	74767362
Financial Support from Other Sources			
a) National	DTE Government of India	1647	74767362
b) International	00	0	0
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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Audit Course Visit at Traffic Park	23/03/2019	147	T and P Department
Guest Lecture on Audit Course	28/03/2019	147	Udyogvardhini
Soft Skills	03/09/2018	53	Mahindra Pride
Skill Development (B.E)	14/09/2018	53	Mahindra Pride
Aptitude Training (T.E)	03/09/2018	48	Carrier Guidance

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

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2018	Aptitude Practices under TNP	140	273	140	140

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

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
0	0	0

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
37	350	118	25	350	19

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

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2019	5	Mechanical Engineering	1.CAD/CAM 2.Heat Power 3.Design 4.PPC.	1. German University 2.NIT, 3. Deemed University.	Mechanical Engineering
2019	1	Information Technology	IT	Symbiosis	MBA Finance

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

Items	Number of students selected/ qualifying
Civil Services	1
Any Other	3

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

Activity	Level	Number of Participants
Tech feast CATIA WAR	State Level	32
Tech feast Quiz	State Level	23
Volley Ball,Cricket, Carrom, Badminton	Institute	3
Building Blocks	District	28
BridgeO Mania	District	23
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5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
No Data Entered/Not Applicable !!!						
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5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

College has an active Student Council elected democratically at the commencement of every academic year. Professor Incharge of the student council follows the democratic procedures and processes in constituting the students' council. All class representatives, ladies representatives, cultural secretary, general secretary and sports secretary are elected/selected. The coordination and cooperations of the various members is responsible for organizing and conducting various activities throughout the year. Budget is allocated for identified events and causes at the beginning of the academic year. College has an active Student Council elected democratically at the commencement of every academic year. Students representation is also included in Antiragging committee, NSS, Grievences committee and student clubs. Students exhibit enthusiasm in various participations.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

Institute has Alumni Association. Alumni as one of the stakeholders are contributing to better the existing practices by providing the useful feedbacks. The exit feedback and employee feedback significantly contributes in refining, updating and reviewing the practices, policies and processes at the institute. All the suggestions and recommendations are collected by the respective departments and then analyzed. The department is always in constant touch with the alumna and all updates are available about them. Institute has significant retention of the faculty. The former faculty also helps in providing useful feedback voluntarily.

5.4.2 – No. of enrolled Alumni:

512

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

256000

5.4.4 – Meetings/activities organized by Alumni Association :

Faculty 04 Non Teaching Staff 02 Students 02 Alumni 01

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

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

All the planning and policy decisions are taken with due consideration of the relevant authorities and representatives. All the suggestions and recommendations are analyzed to take the final decision by the authorities.

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

No

6.2 – Strategy Development and Deployment

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

Strategy Type	Details
Curriculum Development	The faculty is contributing for Quality Improvement directly or indirectly. Many of the faculties are involved in Conduction/attending FDPs for the implementation of syllabi at university level. Few of the faculties are members of the bodies and participate/lead actively in curricular activities.
Teaching and Learning	In continuation with our policies and practices we always try to enhance the teaching learning process. We organize/attend various content enrichment programmes contributing to the learning. Staff has to appear for NPTEL course and many of the staff have secured higher ranks in various subjects.
Examination and Evaluation	All the eligible faculties are involved in the examination and assessment processes. The staff carry out the tasks with integrity and honesty.
Research and Development	Institute has recently established the Incubation center to promote research activities. The aspirant teachers for Ph.D. are guided inhouse by the experinced faculty. The staff has been promoted for career advancement and specialized skill development.
Library, ICT and Physical Infrastructure / Instrumentation	New resources have been added to the library, ICT and laboratories.
Human Resource Management	Existing human resources have been trained/upgraded regularly and identified resources are procured when needed.
Industry Interaction / Collaboration	Existing MoUs were strengthened and new

	MoUs were signed with various organizations.
Admission of Students	Little increase in the quality of input has been observed recently.

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

E-governance area	Details
Finance and Accounts	Online payment of fees through portal
Student Admission and Support	All processes are followed as per guidelines provided and web links provided by government
Examination	Affiliated university has provided web links for online exam form filling, question paper download, online examinations, revaluation and photocopy, and declaration of results

6.3 – Faculty Empowerment Strategies

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

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	0	0	0	0
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6.3.2 – Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2018	NPTEL FDP courses	NPTEL	10/01/2019	27/04/2019	100	15
2019	NPTEL FDP courses	NPTEL	17/07/2019	27/10/2019	100	12
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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Student Induction Program for First Year	2	09/07/2018	15/07/2018	7

National Programme on Technology Enhanced Learning	110	15/07/2019	27/10/2019	115
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
120	135	15	25

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Group LIC, Term Policy and PathSantha	Group LIC, Term Policy and PathSantha	Insurance Scheme

6.4 – Financial Management and Resource Mobilization

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

<p>The Institute has full fledged accounts department. For every financial year, internal audit has been carried out by the accounts department in supervision of Finance Manager and Internal Auditor. External auditing has also been carried out to ensure the transparency in the transactions and financial procedures adopted by the Institute.</p>

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

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
No Data Entered/Not Applicable !!!		
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6.4.3 – Total corpus fund generated

210357034

6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic			Yes	Academic Dean and Heads of department
Administrative			Yes	Principal and Heads of department

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

<p>1. Regular communication by Class Teachers and Head of the Department 2. Yearly Parent Teacher Meets 3. Communication at end of semesters by Heads</p>

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

1. ICT training 2. Involvement in College activities 3. Promotional Policies

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

1) NPTEL FDP course is mandatory for all teaching staff. Atleast one course is completed per semester. 2) Maths test of Engineering Mathematics I, II III have been conducted. The total Course duration was 48 weeks. 3) International Conference on Contents, Computing Communication was organized on 15th March 2019 for 2 days.

6.5.5 – Internal Quality Assurance System Details

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

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	International Conference on Contents Computing	15/03/2019	15/03/2019	16/03/2019	200
2018	Engineering Mathematics Training for teachers	01/01/2018	01/01/2018	28/12/2018	100
2018	NPTEL Certificatin for Teachers	01/01/2018	01/01/2018	17/11/2019	110

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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

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

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Gender Equality and Human Rights	09/11/2019	09/11/2019	45	38

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources
To be Environment conscious is one of the prioritized objectives of the institute. In view of that the institute is constantly initiating the plantation drives with a close watch on the maintenance of the planted trees/shrubs. The ever enthusiastic NSS unit at our Institute actively participate in Plantation, Campus Cleaning, Waste Management, river cleaning etc.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Provision for lift	Yes	15
Rest Rooms	Yes	12

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
No Data Entered/Not Applicable !!!							
No file uploaded.							

7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
No Data Entered/Not Applicable !!!		

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
No Data Entered/Not Applicable !!!			
No file uploaded.			

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

The plantation, recycling, waste management, green journals, digital repository and starred electrical appliances help to keep the campus eco friendly.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

1. In Academics additional lectures are allotted for Soft skill and Skill Development. In these lectures students are trained for different skills like Group Discussion, Personal Interview, Resume Writing, Aptitude etc. 2. Students have conducted different activities under professional club (SAEINDIA Collegiate Club) like Auto QUIZ, CATIA War etc. 3. Industrial visits are also organized under ISHRAE student's chapter.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link
http://mcoerc.org/ExtraCurriculumActivities/NSS.aspx

7.3 – Institutional Distinctiveness

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

The Institute since conceiving has been progressively incremental to establish the state of the art infrastructure. It is the need of time to keep the pace with the technological advancements and to satisfy this need we are trying our best to provide infrastructural facilities to make them enough potent and skillful. With that view we have adequate infrastructural resources for the learners. Discipline is one of the fortes of our Institute. Any misconduct, mischievousness, unfair mean and unethical practices are always discouraged.

The students venerate the ethics and values so as to march towards the engineering graduation with staunch ethical foundation with integrity. With the given curriculum and going beyond that, the course teacher always works with the determination to inculcate the learners with all aspects to make them armored with information, knowledge and intelligence to solve given real world problem. Almost all teachers have at least 45 certification of NPTEL with outstanding performances. These certifications and additional training exposure tune them to understand and disseminate the modern technology to the focused learners. Frequent and willful interaction of the faculty with the industry has established the bond to benefit the learners. Quite a few MoU are also signed in view of the progressive and coherent liaison with the Industry. This possible due to the uncompromising attitude towards systematic academics, adequacy of domain experts and tenacity of purposes. Under the leadership of the Principal, Institute is successful in attracting the appropriate and skilled human resource which is the backbone of the Institute. Once the student is admitted the institute nurtures him/her to become fit and cultured to compete the outside world. Dean academic and the authorities are always actively engaged in extending the duties for the betterment of the students. The institute has a diversified student strength and personal mentoring with active feedback system, help the students to develop. The engineers passing out from the institute definitely carry all the ?Sanskara of the institute contributing to the Vision, Mission and Quality Policies of the institute. Also, the faculty and the staff strive for the all round development aiming at the mission. Institute strives to become a center of excellence and credible center for learning. We are on the path of quantitative and qualitative progress. Starting with mere 180 intake for 3 undergraduate engineering disciplines, we have scaled to 6 undergraduate, 5 graduate and 2 research streams with an intake excess of 650. With our tenacity of purpose and progressively focused efforts we aim to serve the society and emerge as one of the renowned educational hub in decades to come.

Provide the weblink of the institution

<http://mcoerc.org/>

8.Future Plans of Actions for Next Academic Year

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year. It has been decided in the meetings that the comprehensive feed backs are to be collected from the various stakeholders. Based on the feed backs the consequent analyses at different levels for accurate perception of the status and outcomes related to various constituents of the administrative and academic systems are to be analyzed.