Yearly Status Report - 2019-2020

Part A	
Data of the Institution	
1. Name of the Institution	**JD COLLEGE OF ENGINEERING & MANAGEMENT, NAGPUR**
Name of the head of the Institution	**Dr.Shrikant Sonekar**
Designation	**Principal(in-charge)**
Does the Institution function from own campus	**Yes**
Phone no/Alternate Phone no.	**07720039691**
Mobile no.	**9823583089**
Registered Email	**principal@jdcoem.ac.in**
Alternate Email	**usdange@jdcoem.ac.in**
Address	**Near Hanuman Temple,Borgaon Fata, Kalmeshwar Road,Nagpur-441501**
City/Town	**Nagpur**
State/UT	**Maharashtra**
Pincode	**441501**

2. Institutional Status

Autonomous Status (Provide date of Conformant of Autonomous Status)	**31-Jul-2019**
Type of Institution	**Co-education**
Location	**Rural**
Financial Status	**Self financed**
Name of the IQAC co-ordinator/Director	**Dr.Ujwala Dange**
Phone no/Alternate Phone no.	**09011010038**
Mobile no.	**9421632159**
Registered Email	**usdange@jdcoem.ac.in**
Alternate Email	**ujwalasdangejdcoem@gmail.com**

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	https://jdcoem.ac.in/about-us/mandatory-disclosure/

4. Whether Academic Calendar prepared during the year

4. Whether Academic Calendar prepared during the year	**Yes**
if yes,whether it is uploaded in the institutional website: Weblink :	https://65h.11a.myftpupload.com/pdf/ACADEMIC-CALENDAR-2019-20-(Even).pdf

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	**A**	**3.16**	**2017**	**12-Sep-2017**	**11-Sep-2022**

6. Date of Establishment of IQAC

6. Date of Establishment of IQAC	**16-Aug-2016**

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

FDP on Outcome Based Pedagogic Approach for Effective Teaching -Learning and AccreditationApproach	10-Dec-2019 5	60
Session on Grant Funding opportunities for Engineering Teachers	30-May-2019 1	36
Session for students on Online Satisfaction Survey	21-Feb-2020 1	362
Autonomy & its Significance	20-Feb-2019 1	67
Awareness Session on Activity Based Learning	10-Jan-2019 1	74
[View File](#)		

8. Provide the list of Special Status conferred by Central/ State Government-UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Dr.Prashant Maheshwary	FDP	DBATU(Affiliating university)	2019 5	220000
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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 :	**3**
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	**Yes**
Upload the minutes of meeting and action taken report	[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)

1.Conferment of Autonomy by UGC on 5th August, 2019. 2.Teachers training on Outcome Based Pedagogy. 3. Ph. D. Research Center. 4. Implementation of Activity based learning. 5. Re framing of Evaluation Pattern.

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

Plan of Action	Achivements/Outcomes
Activity Based Learning	Training of teachers of ABL
PhD Research Centre	Submitted the proposal to affiliating university
Teacher's training on Outcome Based Pedagogy	Implementation of OBE
Submission of grant of Autonomy to UGC	Conferred Autonomy by UGC
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14. Whether AQAR was placed before statutory body ?	**Yes**

Name of Statutory Body	Meeting Date
Academic Council	27-Jan-2020

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	**No**

16. Whether institutional data submitted to AISHE:	**Yes**

Year of Submission	**2019**

Date of Submission	**10-Dec-2019**

17. Does the Institution have Management Information System ?	**Yes**

If yes, give a brief descripiton and a list of modules currently operational (maximum 500 words)	**In order to enhance the effectiveness of various academic and administrative systems, the college has MIS Synchronik. The administrative work of departments, student section, accounts , student and store section is undertaken through the MIS.**

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Design and Development

1.1.1 – Programmes for which syllabus revision was carried out during the Academic year			
Name of Programme	Programme Code	Programme Specialization	Date of Revision
BTech	FY	FY	10/01/2020
BE	CSE	CSE	23/05/2020
BE	IT	IT	23/05/2020
[View File](#)			

1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
No Data Entered/Not Applicable !!!				
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1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
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 College level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BTech	FY	01/08/2019

1.3 – Curriculum Enrichment

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

Value Added Courses	Date of Introduction	Number of Students Enrolled
Webinar Series on Product Design Engineering and Engineering Graphics	23/04/2020	350
One Day Workshop on Product Design Engineering	11/02/2020	52
One Day Workshop on Foundry Technology	14/02/2020	50
An Introduction To Programming Through C - Online	28/09/2019	11
Data Base Management System	17/10/2019	55
Developing Soft Skills and Personality - Online	29/09/2019	18
Soft Skill Training	28/01/2020	54
Digital Image Processing	20/06/2019	71

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	ME	22
BE	CSE IT	114
BE	EE	32
BE	ETC	80
BE	CE	60
MBA	MBA	34

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

Feedback plays a decisive role in improving the state of the existing process, systems in the institution. The inputs from all the stakeholders in the academic environment viz. students, teachers, employers, alumni and parents is extremely important in order to adhere to the quality standards. At JDCOEM at regular intervals the feedback from all the stakeholders is sought.The academic feedback from the students is sought twice in every semester. First feedback is floated amongst the students 30 days after the commencement of the semester to ascertain their understanding about the subject, frequency, wavelength of the teacher in connecting with the student, other academic support provided by the teacher to the students and other aspects of teaching learning process. The office of the Dean(Academics) processess this feedback and Head of the Department ensures the corrective actions if needed on consultation with the concerned teachers and students. The second academic feedback is floated a month before the end of the semester.This feedback helps the academic administration to analyze the state of syllabus progression and to undertake the measures if required to complete the syllabus ahead of the examination schedule. Apart from the formal feedback the HODs and teachers are connected with the students on whats app groups of the respective classess, Heads of the Department too is connected with the students through respective class teacher and class representative amongst the student. In regular meeting of Principal, Management the feedback on various administrative and academic issues are sought from the teachers. The Office of the Training and Placement Officers seeks feedback from the existing and potential employers. This feedback enables to train the students from industry perspective in terms of technical skills as well as soft skills.Notable employers are on the governing body of the college which significantly helps to reach the employers.Alumni is connected with the college through the Office of the Alumni Incharge and the respective departments. These touch points with alumni help us to bring out improvements

in the academic as well as administrative set up. During regular alumni meet too alumni offer feedback and other critical inputs. the feedback The parents are very well connected through Parents Meet as well as Home Visits by Teacher Guardians to the residences of the students alloted to them once in a year. These Home visits help the college to ascertain the exact socio economic background of the students as well as their demographics. The feedback from all the stakeholders is carefully analyzed, presented before the competent authority by the respective heads/incharges. Based on these inputs the necessary improvements, amendments are carried out in existing processess and the future systems are build based on the inputs. The constant improvements in all spheres of the institution can be attributed to this feedback mechanism to connect with all the stakeholders.

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
BTech	ME	120	44	44
BTech	CSE	60	58	58
BTech	EE	60	32	32
BTech	CE	60	47	47
BTech	IT	60	60	60
BTech	ETC	120	22	22
Mtech	EN	24	5	5
Mtech	CSE	24	8	8
MBA	MBA	60	60	60
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2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	1521	114	135	10	10

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
145	145	11	20	15	10
View File of ICT Tools and resources					
View File of E-resources and techniques used					

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

Student Mentoring System: Based on the experience and requirement of the stakeholders viz: parents, students and recruiters, the institute have developed prominently two types of mentoring system. The first mentoring system is called as "Teacher Guardian Scheme" and the second one is known as Student Mentoring System. The functioning of the scheme is as follows: Teacher Guardian Scheme: This scheme is devised to ensure the constant contact with the students, teachers and parents. The allotment of teacher guardian is done on the basis of the branch in which the student has sought admission. This branch specific Teacher Guardians are allotted so as to maintain continuity of communication with each other. During induction program, Dean (Students) conducts the session on Aims, Objectives and Relevance of Teacher Guardian Scheme and also shares previous experiences with the students. The allotment is communicated to the students during their induction training sessions and the same is communicated to the parents as well. The specific teacher guardian collects the demographics, academic profile, socio-economic data from the students in the first formal interaction this leads to formal Ice Breaking session. Thereafter, the students in their respective time table are allotted class once in a week to interact with the respective Teacher Guardian. During these classes which are informally formal are a sort of Circle Time with the teacher guardian, wherein there is effective two way communication amongst the teacher guardians and students. The students share their achievements, progress of classes, the other issues related to understanding of subjects, performance in examinations etc. If the Teacher Guardian observes some changes in the disposition of the specific student, then he/she is referred to the Wellness Centre. The entire ecosystem works towards enhancing support system of the students. In order to create the awareness about the various initiatives of the institute, the teacher guardian once in a year visits the residence of the student irrespective of the student's geography. This helps to bridge the gap between the institute and the parents and thereby all the three entities are well connected. Owing to close contact with teachers, parents and students, there has been overall improvement in the performance of the students and has increased belongingness towards the institute. The students are allotted to the teacher in the ratio of 1:15. Another noteworthy mentoring system in the institute is Mentor-Mentee scheme, wherein the senior students who are active on multiple platforms ranging from scholastic, co-scholastic activities are allotted as mentors to the junior students. These senior students conduct experience sharing sessions in the junior classes. The experience sessions are based on preparation for placements, training programs, co-curricular and extracurricular activities etc. These interactions are aimed at confidence building and enhancing belongingness towards the institute. Based on the feedback and real time performance of the scheme, implementation of both the mentoring schemes are amended from time to time if needed.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1521	145	1:10

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
145	145	Nill	21	15

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

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Dr. P. B. Maheshwary	Professor	NPTEL STARS, NPTEL ENTHUSIAST and 2. NPTEL Believer
2020	Dr. P. B. Maheshwary	Professor	Associate Dean (Academics), Dr. Babasaheb Ambedkar Technological

2020	Dr. P. B. Maheshwary	Professor	Member, Board of Governance of G H Raisoni College of Engineering (Nominated by VC RTMNU)
2020	Dr. P. B. Maheshwary	Professor	Editor, Journal of Science, RTM Nagpur University
2020	Prof. N. N. Gyanchandani	Associate Professor	For NPTEL (Active SPOC) at IIT Bombay for Winter.
2020	Prof. N. N. Gyanchandani	Associate Professor	For NPTEL (Active SPOC) at IIT Bombay for Summer.
2020	Prof. G. V. Padole	Assistant Professor	1st topper in NPTEL for course Product Design Development with 99.

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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	EE	VIII	20/05/2020	12/11/2020
BE	ME	VIII	20/05/2020	12/11/2020
BE	CSE	VIII	20/05/2020	12/11/2020
BE	IT	VIII	20/05/2020	12/11/2020
BTech	FY	I	23/11/2019	28/12/2019
BTech	FY	II	25/04/2020	27/07/2020
BE	CE	VIII	20/05/2020	12/11/2020
BE	ETC	VIII	20/05/2020	12/11/2020
MBA	MBA	IV	23/05/2020	26/11/2020

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2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
Nill	276	0

2.6 – Student Performance and Learning Outcomes

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

https://secureservercdn.net/198.71.233.44/65h.11a.myftpupload.com/wp-content/uploads/2021/05/JDCOEM-PO-PSO-COS.pdf?time=1621437110

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
MBA	MBA	MBA	30	30	100
ETC	BE	ELE. TELECOMM.	63	63	100
IT	BE	INFORMATION TECH.	43	43	100
CSE	BE	COMP. SCI. ENGG	63	62	98.41
CE	BE	CIVIL	64	64	100
EE	BE	ELECTRICAL	54	54	100
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2.7 – Student Satisfaction Survey

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

https://secureservercdn.net/198.71.233.44/65h.11a.myftpupload.com/wp-content/uploads/2021/05/Student-Satisfaction-Survey-2019-20.pdf?time=1621437110

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Promotion of Research and Facilities

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

No
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3.1.2 – Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
No Data Entered/Not Applicable !!!				
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3.2 – Resource Mobilization for Research

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

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Industry sponsored Projects	360	Pollution And Ecology Control Services	25000	25000

Any Other (Specify)	5	DBATU	220000	220000
Major Projects	360	E Cart JDCOEM	45000	45000
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3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

No Data Entered/Not Applicable !!!

3.3 – Innovation Ecosystem

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

Title of workshop/seminar	Name of the Dept.	Date
Copyright and IPR	Electrical Engineering	15/05/2020
Design Thinking and Innovation	Electronics and Telecomm. Engineering	19/09/2019
Urban Travel Commuters Behavior and its Impact on Environment	Civil Engineering	30/05/2020
BIM Utilization for Building Modeling	Civil Engineering	30/05/2020
Deterioration of RCC Structures	Civil Engineering	01/06/2020
AutoDesk Design Scope in Mechanical Sector	Mechanical	26/07/2019
Smart factory automation with digital twin	Mechanical	06/06/2020
Supply Chain Mangment and Modern Warehouse Design	Mechanical	07/06/2020
Education and work opportunity in USA	Mechanical	11/06/2020
Intellectual Property: Know Your Rights	Computer Science Engineering	12/05/2020
Intellectual Property: Copyrights and Patent	Computer Science Engineering	14/05/2020
Online Faculty Development Program On Python	Computer Science Engineering	06/05/2020
Online Webinar On IOT	Computer Science Engineering	27/05/2020
Intellectula Property Rights and patents	Electrical Engineering	18/04/2019
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3.3.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
No Data Entered/Not Applicable !!!				
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3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
Nil	**Nil**	**Nil**	**Shubhangi Castings**	**Casting Product Manufacturing**	**16/08/2019**
Nil	**Nil**	**Nil**	**Central engine chemical works**	**Service and rebuilding of engine**	**15/01/2020**
Nil	**Nil**	**Nil**	**Construction Works**	**Construction Business**	**25/08/2020**
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3.4 – Research Publications and Awards

3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
Computer Sci. Engineering	**1**
Electrical Engineering	**1**
First Year	**1**

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

Type	Department	Number of Publication	Average Impact Factor (if any)
International	**Mechanical**	**5**	**Nill**
International	**Comp. Sci. Engg.**	**4**	**Nill**
International	**Ele. Telecomm.**	**5**	**Nill**
International	**First Year**	**2**	**Nill**
International	**Electrical**	**5**	**Nill**
International	**Civil**	**17**	**Nill**
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3.4.3 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Mechanical	**4**
Computer Science Engineering	**24**
Civil	**17**
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3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award

Cycloconverter for reducing available supply frequency	Published	34/2020	21/08/2020
A cycloconverter for conversion of 50 cycles/second frequency to 1/3rd it's value	Published	36/2020	09/04/2020
Design and fabrication of potable constructed wetland reactor	Published	34/2020	21/08/2020
Cobalt-Graphene ferromagnetic contacts-based spin-field effect transistors	Published	34/2020	21/08/2020

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3.4.5 – Bibliometrics of the publications during the last academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Some Effective Techniques for Recognizing a Person Across Aging	Dr. S.V. Sonekar	Lecture Notes on Data Engineering and Communications Technologies, Springer	2020	0	JDCOEM	Nill
Recent Advancements in the field of Ballistic and Non-Ballistic Spin based Field Effect Transistors	Dr. P.B. Maheshwary	AIP Conference Proceedings	2019	1	JDCOEM	1
Role of nanoparticle shape in enhancing the thermal conductivity of nanofluids	Dr. P.B. Maheshwary	Materials Today: Proceedings	2020	2	JDCOEM	1

Comprehensive study of spin field effect transistors with co-graphene ferromagnetic contacts	Dr. P.B. Maheshwary	Journal of Magnetism and Magnetic Materials	2020	0	JDCOEM	1
Preparation of Spintronically Active Ferromagnetic Contacts based on Fe, Co and Ni Graphene Nanosheets for Spin-Field Effect Transistor	Dr. P.B. Maheshwary	Journal of Materials Science Engineering B	2020	0	JDCOEM	Nill
Experimental Investigation of effect of nanoparticle concentration on thermo-physical properties of nanofluid	Dr. P.B. Maheshwary	Advances in Mechanical Engineering	2020	0	JDCOEM	Nill
Finite strip method for the analysis of diaphragm supported cylindrical shell	Dr. P.B. Maheshwary	Materials Today : Proceedings	2020	0	JDCOEM	Nill
Experimental Investigation of Effect of Nano-Particle Size on	Dr. P.B. Maheshwary	ISHMT-ASTFE Heat and Mass Transfer	2019	0	JDCOEM	Nill

Heat Transfer Performance in Heat Exchanger						
Preparation of Nanorefrigerants using Mono-, Bi- and Tri layer Graphene Nanosheets in R134a Refrigerant	Dr. P.B. Maheshwary	AIP Conference Proceedings	2019	0	JDCOEM	Nill

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3.4.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
No Data Entered/Not Applicable !!!						
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3.4.7 – Faculty participation in Seminars/Conferences and Symposia during the year

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	8	70	32	25
Presented papers	30	5	1	5
Resource persons	Nill	Nill	Nill	1

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3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultan(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
Civil Engineering	London Street Project Nagpur	PECS	25000

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3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
No Data Entered/Not Applicable !!!				
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3.6 – Extension Activities

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

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Sashakt	Nagpur Police	2	346
Sashakt	Hegdewar Blood Bank	2	1100
Run for Women	JCI Nagpur	2	283
Outreach activity to Khindsi, Ramtek	JDCOEM	3	45
Visit to Gau Vighyan Anusadhan Kendra, Devlapar, Ramtek	Gau Vighyan Anusadhan Kendra	3	45
Visit to Udyojika Exhibition	VIA Nagpur	2	42
Visit to 11th Business Leadership Summit	Rotary Club	2	40
CSR activity: Visit to Matru Seva Sangh Bal Sadan	Matru Seva Sangh	4	45

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3.6.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
No Data Entered/Not Applicable !!!			
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3.6.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activites	Number of students participated in such activites
Social Events	Rotract Club	Book Donation drive	2	35
Social Events	Rotract Club	Cardiothon- run for heart	2	25
Social Events	Rotract Club	11th Business summit	2	20
Social Events	Rotract Club	Car treasure hunt	2	10

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3.7 – Collaborations

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

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

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Training, Project Work	IGTR	IGTR Nagpur	01/06/2019	20/05/2020	150
Research Facility	Goyal Industries	Goyal Industries Nagpur	15/06/2019	15/04/2020	15
Training, Project Work	F6 Solutions	F6 Solutions Nagpur	15/06/2019	30/05/2020	30
Internship	C Programming	Pegasus Inst	01/06/2020	30/06/2020	1
Internship	PRAGRAMMER	COJAG	20/05/2019	22/06/2019	7
Internship	Web Development	Codeninja Infotech Nagpur	20/05/2019	20/06/2019	4
Internship	Paython,Oracle	Naresh Technology,	01/05/2019	29/06/2019	5
Internship	Java	Axiom tech Guru Pvt. Ltd	01/06/2019	01/07/2019	3
Internship	Web Development	Integraff Tech Solution,	03/06/2019	18/06/2019	3
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3.7.3 – MoUs signed with institutions of national, international importance, other institutions, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
IGTR Nagpur	01/06/2019	Training, Project Work	150
Goyal Industries	15/06/2019	Research Facility	15
F6 Solutions	15/06/2019	Training, Project Work	30
COJAG SMART TECHNOLOGY PRIVATE LTD.	07/11/2020	Training, Project Work, Research Facility, Campus	20

		Placement	
ICT ACADEMY OF HUAWEI	14/09/2020	Training, Workshops	30
Cloud Counselage	30/06/2020	Training, Workshops	20
UiPath Academic Alliance	28/08/2020	Training, Project Work, Research Facility, Campus Placement	20
Data Point Infor Solution	01/08/2019	Internship	67
Microchip	05/03/2019	Training	10
Pollution and ecology control Services	24/01/2020	Training	10

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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
612	42.24

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
No Data Entered/Not Applicable !!!	
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 patially)	Version	Year of automation
Sackinfo	Fully	2.5	2008

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	14194	5323597	Nill	Nill	14194	5323597
Journals	36	42000	48	78650	84	120650
Reference Books	2800	1040710	Nill	Nill	2800	1040710
CD & Video	744	Nill	Nill	Nill	744	Nill
Weeding (hard & soft)	1140	200000	Nill	Nill	1140	200000

| e-Books | 3590 | Nill | Nill | Nill | 3590 | Nill |

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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	788	9	54	9	1	1	2	54	0
Added	0	0	0	0	0	0	0	0	0
Total	788	9	54	9	1	1	2	54	0

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

54 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 incurredon maintenance of physical facilites
602.73	661.48	113.5	74.08

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)

There are well conceived processes and policies for maintaining and utilizing physical, academic and support facilities, laboratory, sports complex, computers and classrooms are well conceived and are framed accordingly. All the policies are well laid out and are disseminated at various levels with top bottom approach. Physical resources: The physical resources are allocated to the departments against their requirement. The relevant data of issue and receipt transaction is maintained at the central level by stores department. The up keep and maintenance of the same is done at the central level by the Maintenance Department. Academic infrastructure: Classrooms, laboratories are under the purview of the respective departments and are the custodians of all the physical resources in the department. Annual Stock Verification is carried

out every year to ensure the physical availability, ascertain the wear and tear of the equipments etc. Repair and maintenance is carried as per requirement of the department by maintenance department or by the outside vendor. Support facilities: Support facilities looked after by Wellness Centre and Sports facilities. Dean (Capacity Building) and Dean (Students) ensure the usage and maintenance of these facilities respectively. Common rooms are under the purview of Dean (Students). Library Resources: The usage of Library for the students, teachers is governed by specific rules and regulations. The library staff headed by Librarian ensures the daily maintenance and upkeep of the library resources. The annual stock verification of Library is undertaken by the Library Stock Verification team every year. The Departmental Library In charges are the core members of this team. Computer Centre: The Computer Science Department is entrusted with the responsibility of maintenance and upkeep of Central Computer Centre along with Server Room and other related locations. Sports Complex: All the sports infrastructure is looked after by the Sports Department headed by Dean(Students). The allocation of facilities, preparation, maintenance, and repair is ensured by this department. Computers: The dedicated in house team under the Systems Networking Department takes care of the routine repair and maintenance of all the computers and computing facilities. Classrooms: Based on the intake, the classrooms are allotted to the various departments who ensure the upkeep and maintenance of academic facilities with the help of the central maintenance team of housekeeping staff.

https://secureservercdn.net/198.71.233.44/65h.11a.myftpupload.com/wp-content/uploads/2021/05/Procedures-and-policies.pdf?time=1621437110

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	JDCOEM Reaching The Unreached	988	23074693
Financial Support from Other Sources			
a) National	Ministry of Social Welfare and Justice Maharashtra	1534	117339807
b)International	Nill	Nill	Nill
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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 implemetation	Number of students enrolled	Agencies involved
Aptitude Training	15/07/2019	1308	TP, Department JDCOEM
Personality Development / Soft skills Training	15/07/2019	1368	TP, Department JDCOEM
Aptitude Soft Skills Training	22/02/2020	45	SPIRIT Academy
Aptitude Soft Skills Training	22/02/2019	98	Career Campus

Aptitude Soft Skills Training	22/02/2019	247	TP, Department JDCOEM
Barclays Job Readiness Workshop-Connect with work (F2F)	28/01/2020	679	Barclays
Barclays Emloyability Skill Training for Placed and Unplaced students	04/05/2020	274	Barclays

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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 passedin the comp. exam	Number of studentsp placed
2020	Skill and Personality Development Programme for SC/ST Students	85	85	Nill	Nill
2020	Barclays Job Readiness Workshop-Connect with work (F2F)	679	679	Nill	Nill
2020	Barclays Emloyability Skill Training for Placed and Unplaced students	274	274	Nill	Nill
2020	Margdarshan: Campus to corporate	200	200	Nill	Nill
2020	Aptitude & Soft skills Training	274	274	Nill	Nill
2020	GRE/TOEFEL /GMAT entrance and Preparation	146	146	Nill	Nill
2020	IETS Guest Seminar	218	2018	Nill	Nill

No file uploaded.

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
5	5	6

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Nameof organizations visited	Number of students participated	Number of stduents placed	Nameof organizations visited	Number of students participated	Number of stduents placed
Antsglobe, Balaji Automobiles, Blucursor, Byjus, Cadd Center, Capgemini, Chegg India, Congnizant, Collabera, Cybershines, Dmart, Extramarks, Gurubaxani Builders, Gems Essence, Genesis,TCS, Wipro, Hero Fin Corp, Infostrench, Infosys	2062	329	Infosys BPS, Mastersoft, Pinclick, SEETECH, Systematix, Talentio, Tudip, Toppers.com, White Hat Jr, Vinayak Castings, Advaik Ltd.	150	57
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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	Depratment graduated from	Name of institution joined	Name of programme admitted to
2020	7	JDCOEM	ETC	MTech	MTech
2020	2	JDCOEM	IT	MTech	MTech
2020	3	JDCOEM	IT	MBA	MBA
2020	6	JDCOEM	ME	MTech	MTech
2020	4	JDCOEM	ME	MBA	MBA
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5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

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

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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
Intramoral	College	558
Kabbdi	College	80
Khokho	College	56
Cricket	College	90
Volleyball	College	72
Athletic	College	60
Chess	College	80
carrom	College	72
Table Tenis	College	48

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5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	Gold Medal DBATU	National	1	Nill	JBE17668	Rahul Dilip Raut
2019	Gold Medal DBATU	National	1	Nill	JBTECH19 158	Vaibhav Ramesh Adhave
2019	Gold Medal DBATU	National	1	Nill	JBE16096	Karuna Kamble
2019	Gold Medal DBATU	National	1	Nill	JBTECH18 034	Prajwal Duryadahan
2019	Gold Medal DBATU	National	1	Nill	JBE17619	Mithun Gajanan Chide
2019	Fifth Rank Motor Sports	National	1	Nill	Team Iron Kart	Team Iron Kart

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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)

To instill the leadership, human values morals and ethics the college provides various opportunities to nurture student leadership. Student Council aims at nurturing the good citizenry amongst the students at various levels. The host of initiatives are undertaken through Students Council and Students Club. . The office bearers are selected through screening tests and personal interview and also the academic performance of the students. The students are encouraged to contest for the various posts in the council and students club. Over the years, these two platforms have garnered popularity from the students. The beginning of the academic session marks the nomination, selections on student's council. To ensure gender equity, the girls and boys are given due representation. The Offices of the Dean (Students) and Dean (Capacity Building) look after the functioning of Students Council and Students Clubs in the college. These two offices are responsible for student's participation in co-curricular and extracurricular activities within and outside the campus for various competitions. The training and mentoring of the students for various competitions is done by these two offices with the help of dedicated trainers in the college. The Students Council of the college helps to conduct co-curricular, extracurricular activities within and outside the campus. The members of council and students club ensure to do screening of the students before the event wherein entries are to be restricted. The Student Council and Students Club help the students to develop the following abilities: • Teamwork • Communication • Decision making • Empathy • Leadership The members of the student council and students club volunteer for the social responsibility activities. They also act as the mentors for the junior students which help their adjustment in the new environment. Through these platforms, the students participate in university cultural and sports festivals, sports meet national competitions Hackathon, Chatra Vishwakarma, Go-Cart, Science Conclave ,Unnat Bharat Abhiyan, MHRD IIIC Cell etc.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

No

5.4.2 – No. of registered Alumni:

620

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

75300

5.4.4 – Meetings/activities organized by Alumni Association :

Alumni meet conducted online mode on dated 17th and 30th May 2020. Being lockdown period, the significant number of alumni attended the meetings and shared their leanings with the respective departments.

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)

To promote ownership of decision and involvement of faculties , the college since inception has uphold the practice of decentralization and participative management. The apex body is the core members of the management. At the college there are existing bodies such as Governing Board, College Development Committee. To ensure the smooth functioning of the autonomy, the Governing Body

has been constituted which composes of senior academicians, industrialist, college principal, senior college faculties, representatives from UGC, State Govt, affiliating university. The major decisions regarding the various developmental aspects wherein the involvement, inputs that are critical for the growth of the institute are required. The Academic Council has been composed of all the heads of the department,senior teachers, senior faculties nominated by the affiliating university and is headed by the principal. This council is responsible for admission of the students for various programs as per prevailing norms, introduction of new courses, syllabus revision, student centric policy decisions, placement etc. To empower the faculty at the department level, the respective departments have Board of Studies, wherein every subject teacher is entrusted with designing and development of the syllabus. The posts of co-ordiantors for academics, placement, IQAC, PhD etc have have been created to maximize the involvement of the faculties in the mainstream. The vital issues related to the college administration are handled by the Office of Directors who are senior faculty members of the college, assisted by the Principal, Deans and Heads of the Department. The day to day working of the college sans the involvement of the management which enables the principal and his team to take charge of the various decisions in the larger interest of the college. The major purchase decisions are routed through the Office of the Principal and are finalized by the Office of the Director. Regular meetings of HoDs with faculty, HoDs with Principal and Deans are the platforms where there is exchange of thoughts and ideas. Board meeting with entire management and teaching staff is one of the most unique feature of participative management. The management encourages exchange of thoughts and ideas on such a mammoth platform where the entire teaching faculty interacts with the management in open house. The same type of meeting is conducted for Non teaching staff as well. Bottom up approach in decision making has helped us to create the good number of academic leaders for various portfolios.

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

Yes

6.2 – Strategy Development and Deployment

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

Strategy Type	Details
Admission of Students	The college being situated in rural area, the deliberate efforts are made to improve the quality of incoming students. To attract serious students the college conducts robotics workshops in various schools and junior colleges across vidarbha region. The college also conducts awareness workshops about engineering career in association with print media. The emphasis is on reaching the potential aspirants thorough digital media. To enhance the quality of the input, the JDCOEM has full fledged training and placement department with aptitude and soft skill trainers. To ensure the holistic development of the students, the thrust is on hand on learning, industry exposure,compulsory internships. In order to enable students to know about the latest trends in various domains,

	the students are compulsorily enrolled for NPTEL /SWAYAM online modules. The necessary mentoring support is provided to them so that they are able to crack the evaluation at the end of the course.The college has MOUs with leading companies to facilitate industry based training of the students. The all out efforts are made to attract the quality students to the college.
Industry Interaction / Collaboration	To increase the current practices of the industry, CEO series has been initiated, wherein the corporate heads conduct interactive sessions with the students and teachers. The college has vibrant industry interaction cell wherein teachers visit the industries in and around vidarbha region to understand the problems faced by industries. The efforts are made to provide solutions to the prevailing problems if possible. The students are taken regularly for industrial visits. They are encourage to undertake the visit from the point of view of providing solution to the prevailing problems. The compulsory interneships are provided to students after every semester break.
Human Resource Management	human resources are given utmost importance. The various policies regarding human resources are documented in the form of HR Manual. The newly inducted teachers are provided with induction training to help them assimilate in the new work environment. To help teachers and non teachers to relieve and release stress they are also trained in performing arts such as dance, drama, music. They are provide stage to display talent during specially conducted family gathering in the presence of their beloved ones. Annual excursion of teachers is under taken.Eid iftar party during ramjaan and diwali milan are celebrated with great fervor. All such initiatives help to increases camaraderie among the teachers and non teachers. Financial aid is also provided to staff during family emergency as and when required by them.
Library, ICT and Physical Infrastructure / Instrumentation	Use of digital learning devices is encouraged at all levels. The constant efforts are made to upgrade the physical infrastructure. To increase

	the use of library resources the students are registered on national digital library (NDL). The students are provided with library class in their time table in the presence of teachers. This helps to developed reading skills of the students.
Research and Development	The teachers and students are constantly encourage to conduct research and development in frontier areas of science and technology. To ensure quality research the students are encourage to publish paper UGC approved journals at the time of their final year project. The strict check is in place to prevent plagiarism. Research and development policy has the provision for funding research publications and presentations. The teachers are provided an opportunity to interact with centers of higher learning such as IITs and IISC.
Examination and Evaluation	The examination of the students of RTMNU DBATU students are conducted and held as per the respective universitys time lines. For Autonomous batch, the Controller of Examination is incharge of Examination and Evaluation. The theory queston papers are invited from the listed paper setters which are duly moderated by the moderation committee. The theory and practical evaluation is based on development of higher order thinking and meta cognitive skills, the emphasis on experiential and activity based learning.Within the framework of university guidelines the deliberate efforts are made to evaluate the students on the basis of various graduate attributes recommended by NBA. The academic clearance of the students is taken to ensure the timely completion and submission of all the academic activities which are mandated for students i.e completion of journals as per prescribed norms, completion of online courses if required, internships wherever applicable.
Teaching and Learning	To prepare students as per the attributes of Engineering and Management Graduates as stated by NBA, systematic efforts are undertaken to train teachers on how to deliver outcome based pedagogy for effective teaching. The three faculty development programs have been conducted in association with NITTR Kolkatta. To

	enhance the higher order thinking skills, the activity based teaching has been implemented in core subjects of engineering. • To imbibe the importance of self learning and lifelong learning, the students and teachers are taking up NPTEL MOOCS certifications regularly. In every cycle, both the counts are increasing. To cater to the need of autonomous sylllabus, Activity Based Learning has been introduced for all the subjects.The thrust is on developing higher order thinking skills and meta cognitive skills of the students.
Curriculum Development	The college runs three types of affiliations i.e RTM Nagpur University for the students admitted before 2017-18 and DBATU affiliation in the same year and the grant of autonomy from the year 2019-20. The curriculum of RTMNU and DBATU is imparted for the respective batches as prescribed by the respective universities. For Autonomous batch the brainstorming and deliberations are carried out by respective Board of Studies keeping in view the trends at the leading institutes of national repute as well as requirement of the local ecosystem.The syllabus is put before the Academic Council and finally before the Governing Body for necessary approvals. During curriculum development for the autonomous courses, the indepth analysis of industry needs in terms of hard and soft skills is taken into account. Based on the same modules such as Design thinking, Innovation Entrepreneurship Development etc are included in the curriculum.

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

E-governace area	Details
Administration	The functioning of stores and maintenance departments is implemented through ERP namely Synchronik.
Finance and Accounts	The finance and accounts functions are conducted thorugh through ERP namely Synchronik.
Student Admission and Support	The student admission and support functions are conducted through ERP namely Synchronik. The students are assigned individual ids for all the official work related to college.

Examination	Being autonomous affiliated to DBATU that is the technical university of Maharashtra examination work is governed by examination portal of college and university. The controller of examination is incharge of the examination related work of Autonomous Batch.

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
2020	Dr. S.J. Philip	Financial Derivatives and Risk Management	NPTEL	825
2020	Dr. M.V. Takarkhede	Developing Soft Skills and Personality	NPTEL	825
2020	Dr. P.B. Maheshwary	International Conference IPR Activity	Int. Conf. IPR	89355
2020	Prof. Sonali Zunke	Enterpreneuship Summit 2020	Workshop at IIT Kharagpur	6480
2020	Dr. S.V. Sonekar	Data Base Management System	NPTEL	1500
2019	Dr. U.S. Dange	IQAC - AQAR Workshop	Binzani College-IQAC Cluster	750
2019	Prof. A.A. Junankar	IQAC - AQAR Workshop	Binzani College-IQAC Cluster	750
2020	Prof. Atika Ingole	Design of Reinforced Concrete Structures	NPTEL	500
2020	Prof. Madhuri Pal	Data Base Management System	NPTEL	500
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6.3.2 – Number of professional development / administrative training programmes organized by the Colleges for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for	Title of the administrative training programme organised for	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)

	teaching staff	non-teaching staff				
2019	Faculty Development Program on OUTCOME BASED PEDAGOGIC APPROACH FOR EFFECTIVE TEACHING-LEARNING ACCREDITATION	Effective Office Communication	10/12/2019	14/12/2019	15	38
2020	Workshop on maintaining Mental Health during Turbulence in assoication with DBATU	Soft Skill training for Non Teaching Staff	06/05/2020	10/05/2020	711	32
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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
Online Learning Workshop	3	01/04/2020	03/04/2020	3
Workshop on Scilab	10	04/05/2020	09/05/2020	6
Product Design Engg Autodesk Fusion 360	11	07/05/2020	23/05/2020	3
Intellectual Property: Know Your Rights	6	12/05/2020	12/05/2020	6
FDP on IoT 4.0	6	27/05/2020	27/05/2020	6
FDP on Introduction to Forensic Science and Digital Cyber Forensics	6	15/05/2020	19/05/2020	4

| FDP on Python | 8 | 11/05/2020 | 15/05/2020 | 5 |
| Outcome Based Pedagogic Approach for Effective Teaching-Learning Accreditation | 15 | 10/12/2019 | 14/12/2019 | 5 |

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
145	145	157	157

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
The teachers are given financial support to attend FDPs,Conferences, Workshops at the institutes of national repute.The salary advance is given in case of emergency, marriages and other family commitments.The conveyance is provided at subsidized rates for communing to the college.The wards of teachers who are studying at JDCOEM are offered fees concessions over and above Social Welfare Scholarships.	Salary advance is provided in case of medical emergency and other family commitments. Free as well as subsidized conveyance facilities are provided to non teaching staff based on the tenure in the college. The wards of non teaching staff studying at JDCOEM are offered fees concession in addition to social welfare scholarship.	The needy and deserving students are provided concessio ns ans scholarship under the initiative of Reaching the unreached The process of providing accidental insurance to the students is in pipeline.

6.4 – Financial Management and Resource Mobilization

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

The accounts department of the college is headed by the Chartered Accountant and the qualified team to assist him. The internal audit is conducted as per the routine timelines. External Audit is conducted by the outside Audit firm as per time lines during the financial year. y For resource mobilization, the tentative revenue generated from fees, scholarships, consultancy etc is taken into account.The comprehensive budgetary requirement is invited from all the departments and sections to plan for the allocation of financial resources under various heads.The Finance Committee headed by the Director ensures the allocation of resources depending upon need and urgency of the same.

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 !!!		

| | | No file uploaded. | |

6.4.3 – Total corpus fund generated

<div align="center">**No Data Entered/Not Applicable !!!**</div>

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	Dr.Samir Telang, Dr.R.H.Parikh	Yes	Dean Academics
Administrative	No	Nill	Yes	Dean Administration

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

The teachers of the various departments conduct home visit at the residences of the students under teacher-guardian scheme. This has helped the institute to bond with the parents as the major stakeholder of the institution. The insights from the parents have been helpful in executing various policies. Every department conducts Parents Teachers Meeting during every semester. Under the Parent-Teacher Association during the lockdown of month of May2020, 2619 parents were reached online. The parents have given the input to provide training for the competitive examinations like GRE,GMAT, TOFEL,IELTS etc. The modalities for the same are in process.

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

To improve the various skill set of non teaching staff of the college, the training program on Effective office communication, and softskills for non teaching staff were organized wherein 38 and 32 faculties were benefited. To help them relieve the work place stress, the dedicated slots are assigned to them to learn dance, drama and music. During the the family gathering around 45 non teaching staff performed on the stage. The training sessions of experts from other reputed colleges for non teaching staff will be conducted.

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

Post accreditation, the college was awarded Autonomy on 5th August2019. PhD Research Center for Engineering and Basic Sciences have been started on approval from the affiliating university .i.e.Dr.Babasaheb Ambedkar Technological University (DBATU), Lonere. The Research Center for MBA has been approved by Rashtrasnt Tukdoji Maharaj Nagpur University, Nagpur. The process of NBA Accreditation has been initiated.

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b)Participation in NIRF	Yes
c)ISO certification	No
d)NBA or any other quality audit	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	IEEEs summit 2019	09/09/2019	09/09/2019	09/09/2019	130
2019	Guest Lecture on Design Analysis of Algorithm	17/09/2019	17/09/2019	17/09/2019	80
2020	COVID 19 Lockdown: The Survey of Students' Perception on Teaching Learning Processes	05/05/2020	05/05/2020	15/05/2020	2338
2019	International Yoga Day Celebration	21/06/2019	21/06/2019	21/06/2019	150
2019	Guest Lecture on Recent Trends in Engineering Technology	25/06/2019	25/06/2019	25/06/2020	45
2019	Expert Talk on Big data Engineering	29/06/2019	29/06/2019	29/06/2019	48
2019	Guest Lecture on IT Infrastructure and Latest Trends of Technical Solutions	23/08/2019	23/08/2019	23/08/2019	38
2019	Expert Talk on Opportunities in Machine Learning	18/07/2019	18/07/2019	18/07/2019	49
2019	Guest Lecture by Torana Inc, Nagpur on the topic Industry Interaction	29/08/2019	29/08/2019	29/08/2020	42
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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
Workplace safety	19/07/2019	19/07/2019	26	15
Women in Engineering	11/09/2019	11/09/2019	67	52
Sashakt: Awareness about safety & Security	04/03/2020	04/03/2020	118	134
Breaking the Glass Ceiling	28/05/2020	28/05/2020	38	32

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
Environmental Consciousness and Sustainability are the underlying features in the institution. The buildings are constructed using a recycled material. The natural and sustainable material is used in construction of buildings resulting in temperature difference. The ventilation arrangements are made keeping in view the availability of natural light in abundance. The water from artificial water bodies is reused in maintenance of gardens. The pathways are constructed with the help of material which absorbs rain water in the soil. The efforts have been initiated to install solar energy system.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	Nill
Ramp/Rails	Yes	Nill
Rest Rooms	Yes	Nill

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	1	1	14/08/2019	1	Village Survey	Identification of disposal and sustainable practices in Waste Water Management	27
2019	1	1	29/11/2	1		Waste M	34

			019		Household Survey	anagement	
2020	1	1	24/01/2020	1	Farming Survey	Automation of Farming Operations	29
2020	1	1	28/05/2020	1	Digital Literracy	Online payments	18
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7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
Student Code of Conduct	19/06/2019	In order to facilitate the awareness about the college and the various academic and administrative facilities,rules and regulations, important schedules, central facilities etc, the college publishes the Student Code of Conduct/Manual every year. This manual is the guide to the students in navigating the various academic and administrative aspects of the college, to which they are exposed as the important stakeholders. The preface of the manual is the colleges tenets of good citizenry and the professional ethics they have to abide by as the responsible citizen of the country.
Standing Orders	21/06/2019	To ensure uniformity and transparency in the various processes related to various administrative units such as Students Section, Accounts, Stores, Purchases, Inventory Management, Material Handling,Conveyance bills etc, the Standing orders are published from time to time. These are documented and circulated among st the concerned to adhere to the same.

HR Manual	31/07/2019	The HR Manual is the set of rules and regulations for the seamless functioning of the faculty in the college. This contains the comprehensive account of the various systems and processess laid down bythe administration ranging from joining till exit of the faculty from the college. Leave rules, R D policy, Consultancy policy , appraisal parameters, confidential reports etc are well documented in this manual. The provisions in the manual are subject to change if required. This is circulated among st the concerned so as to follow the ethical practices.
Examination Manual	03/09/2019	To make students aware about the examination system in the autonomous set up, the Examination Manual has been released.This contains the rules and regulations about the evaluation, grades, Cumulative Grade Point Average (CGPA), Sessional Grade Point Average(SGPA) etc.
First Ordnances Rules and Regulations of Autonomy	03/09/2019	To make the stakeholders aware about the functioning of the autonomous college, the Rules and Regulations have been released. This contains the comprehensive details of various nomenclatures, courses, programs offered, academic council, governing body, finance committee , board of studies with functions of theses statutory bodies,course credits, incentive credits,components for calculating marks, major, minor projects and

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
One day session Spiritual values	08/06/2019	08/06/2019	249
One week workshop of Sudarshan Kriya under Student Empowerment Learning Program	22/07/2019	27/07/2019	62
Herritage Visit to Ramtek	08/08/2019	08/08/2019	261

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

1. The campus is one of the greenest academic campuses across the region. The vast expanse of green zones, well maintained gardens, perfectly manicured lawns provide succor to the eyes of every visitor to the campus. The team of dedicated garden staff under the able supervisor relentlessly carry out the work with full dedication. 2.The garden waste is processed into compost which meets the requirement of the green members of the JD family. The Vermi compost plant too caters to the requirement of the manures in house. 3.The deliberate efforts are taken to reduce the carbon foot prints by producing notice boards, dust bins, door panels, door handles by utilizing the fabrication, carpentry, smithy facilities in the workshop. 4.The female wash rooms are installed with sanitary napkin vending machines and incinerators to effectively dispose off solid waste. 5.The canteen sans plastic usage while serving food and beverages.Junk food is prohibited in the campus. 6.The architecture of the buildings is planned so as to capture natural light at all work stations, laboratories. The students are sensitized to ensure the cleanliness of the campus, use the areas earmarked for waste disposal.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Over the past decade, the college has evolved on various aspects viz. teaching learning process, curricular and co-curricular engagements of the students and other stakeholders.With the support of visionary leadership, foresight of the management the college has added many firsts to its credit over the past few years. This progressive run has been possible due to the establishment of various best practices and the establishment of the benchmarks and minutest detailing of every task. The wide range of best practices have been adopted by the college in all spectrums of academic environment. 1. Outcome Based pedagogy: To enhance the learning outcome of engineering and management graduate, the college has been implementing Outcome Based Pedagogy to ensure that the graduates from the system are able to various expectations of the employers in the actual world of work. The teachers have been given orientation/hands on practice at OBE by the senior faculties in the college and outside resources were also roped in to imbibe upon the philosophy. The teachers were formally trained by NITTR and NPTEL module of OBE was also introduced to them. This has witnessed in significant improvement in the teaching learning processes and satisfaction of the students. 2. Activity Based Learning: The students were introduced to Activity Based Learning for the respective semesters. The set of individual as well as group activities were

planned well in advance by the concerned subject teacher to retain the interest of the students in the subject. For practical as well as theory subjects the slew of activities was conducted. 3. Mentor Mentee System: To help the students assimilate in the culture of the institution, the senior students who have been achievers in various domains ranging from academics, placement, sports, cultural activities etc act as mentors to the junior students. This helps the younger students to raise their aspirations in various scholastic as well as co-scholastic activities. 4. Home Visit at student's residence: To connect with the parents in effective manner, apart from Parents –Teachers Meet, every year, the Teacher Guardians visit the residences of the allotted students to ascertain the expectations of the parents from the institute, awareness about the institute's various initiatives, to have the first hand inputs regarding socio-economic background of the students . 5. Compulsory Internships: After every semester break, the students have to complete mandatory internships. This stint at the shop floor helps the students to understand the functioning of the plant/industry from the operations perspective. 6. Best teaching/non teaching faculty award: Based on the appraisal points, contribution of the concerned in the corporate life of the college every year the award is given to Best Teaching faculty, Debut Faculty- the faculty who has been new addition in the system, Non teaching faculty, Class IV employee. The awardees are offered citation, certificate and gift hamper. This award scheme has been helpful in enhancing the moral and motivation level of the teaching as well as non teaching faculty. It sets the tone for other faculty members to reach the higher goals. 7. Engineering Clinics: The branch specific workshops of industry experts are organized throughout the year for the students to know the skill set required by the industry. The industry experts are roped in to share their insights with the students. Hands on sessions are conducted on various domain specific software tools. 8. Family Gathering :To increase the bonding of the faculty members with the institutes and an effort towards creating a better work place, every year the cultural evening is set for the faculty members and their families, wherein the stage and training is provided to the concerned to unleash their latent potential in dance, drama, music etc. This is much sought after event amongst the JD fraternity. 9. Annual Excursion: To help the faculty members to unwind themselves, the overnight excursion is planned in the nearby jungles. This jungle retreat offers nature trail, jungle safari, bonfire, team games etc.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link
https://jdcoem.ac.in/about-us/mandatory-disclosure/

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

Adhering to the vision of the institute, the institute's distinctiveness lies in the following: 1. Academic Reforms: To cater to the need of industry in terms of course contents, syllabus, the college became the first college under the Technological University of Maharashtra i. e Dr. Babasaheb Ambedkar Technological University (DBATU) to get the Autonomous status. The implementation of outcome based pedagogy in right sense and spirit is certainly the differentiating feature of the college. All the academic deliberations are centered on what the learner should be able to perform after studying theory, practical or audit subject. To strengthen the OBE further, the Activity Based Learning has been implemented i.e learning by doing. The activities for all the subjects are drawn well in advance to ensure the retention of interest of the student in the subject and enhance his curiosity to learn further, venture the unknown. Field visits to identify the various engineering problems are integral

part of the syllabus. The higher order thinking is channelized through this practice. 2. Industry exposure: From 3rd Semester onwards, the students are given hands on exposure through compulsory internships. Quite a few students have been doing online paid internships via internshala with reputed organizations and institutes of national repute. The students have been doing internships with reputed companies like Piramal foundation, Codeninja, Profit Plug etc. As a part of industry exposure the students have worked at grass root level with Pani Foundation, Unnat Bharat Abhiyan etc. 3. Placement training: The placement training is imparted not only in terms of technical training but comprehensive training in soft skills, aptitude attitude etc is imparted through the full fledged training and placement in house team from the early stage of engineering education. The result of which is seen in the increase in number of placements in tier 1 companies with average package on the rise every year. 4. Capacity Building initiatives: The emotional well being of the students is addressed by the full time team of psychologists who are responsible for addressing the issues related to preventive psychology of the young adults through various interventions, for which regular classes are assigned in the time table slots. The understanding and empathizing with various societal issues are also addressed through these initiatives at regular intervals. This helps the students to empathize with the challenged, less privileged elements of the society. The field visits in nearby villages help students to identify the various. The departmental forums for the students by the students provide students an opportunity to learn the tenets of leadership by organizing various events. To enable students to appreciate the art and culture, the classess for dance, drama, music are conducted in every semester. 5. Interaction with the Technical bodies on national and international repute: The college has the active chapters of leading engineering associations such as IETE, IEEE, ISTE etc which provide the learning ground for the students to explore the industry requirement through various expert sessions, competitions, hackathons etc.

Provide the weblink of the institution
https://jdcoem.ac.in/about-us/mandatory-disclosure/

8.Future Plans of Actions for Next Academic Year

the plans for the forthcoming academic year constitute: 1. The preparation for NBA accreditation of all the eligible branches. Sensitization of stakeholders towards their role and contribution in NBA Accreditation.2. To increase the quality and quantity of research publications of faculty members. Ecosystem to encourage quality research publications will be developed. 3.To increase in the number of patent filing, publication and award. Thrust to develop interdisciplinary research to foster research environment. To revise the incentive and assessment schemes to encourage quality research. 4. To increase the participation in funded projects of AICTE, DST, NAAC, ISRO, DRDO etc.5.To enhance the reach of Entrepreneurship Development, Start Ups,Industry Institute Interaction Cell.6. To enhance the efficacy of Admission Cell by procuring CRM software.7. Development of teaching learning aids to enhance the reach of students and teachers.