

Yearly Status Report - 2019-2020

Part A

Data of the Institution

1. Name of the Institution	WAINGANGA COLLEGE OF ENGINEERING AND MANAGEMENT
Name of the head of the Institution	Dr. MANISH BIHADE
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	07103-202007
Mobile no.	7972720484
Registered Email	principal.wcem@gmail.com
Alternate Email	wcem@rediffmail.com
Address	NEAR GUMGAON RAILWAY STATION, DONGARGAON
City/Town	NAGPUR

State/UT	Maharashtra																		
Pincode	441108																		
2. Institutional Status																			
Affiliated / Constituent	Affiliated																		
Type of Institution	Co-education																		
Location	Semi-urban																		
Financial Status	Self financed																		
Name of the IQAC co-ordinator/Director	Dr. KAPIL CHANDRAYAN																		
Phone no/Alternate Phone no.	07103202007																		
Mobile no.	7972720484																		
Registered Email	rahulnawkhare@gmail.com																		
Alternate Email	rahulnawkhare26@gmail.com																		
3. Website Address																			
Web-link of the AQAR: (Previous Academic Year)	https://wcem.in/aqar.php																		
4. Whether Academic Calendar prepared during the year	Yes																		
if yes,whether it is uploaded in the institutional website: Weblink :	https://wcem.in/academic.php																		
5. Accreditation Details																			
<table border="1"> <thead> <tr> <th rowspan="2">Cycle</th> <th rowspan="2">Grade</th> <th rowspan="2">CGPA</th> <th rowspan="2">Year of Accreditation</th> <th colspan="2">Validity</th> </tr> <tr> <th>Period From</th> <th>Period To</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>B</td> <td>2.15</td> <td>2018</td> <td>30-Nov-2018</td> <td>29-Nov-2023</td> </tr> </tbody> </table>						Cycle	Grade	CGPA	Year of Accreditation	Validity		Period From	Period To	1	B	2.15	2018	30-Nov-2018	29-Nov-2023
Cycle	Grade	CGPA	Year of Accreditation	Validity															
				Period From	Period To														
1	B	2.15	2018	30-Nov-2018	29-Nov-2023														
6. Date of Establishment of IQAC	15-Jul-2019																		
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
Project Exhibition	25-Feb-2020 1	153
Two days Training program for P0,PS0,CO	22-Feb-2020 2	73
Student Skill enhancement Training Program	17-Feb-2020 4	172

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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
NIL	NIL	NIL	2020 0	0

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9. Whether composition of IQAC as per latest NAAC guidelines:

Yes

Upload latest notification of formation of IQAC

[View Link](#)

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 Uploaded 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.Feedback to be collected from all stakeholders. 2.Formation of Student's Grievances , Redressed Cell. 3.Records regarding students support activities. 4.Preparation for the 2nd cycle for accreditation by NAAC 5.Smart Class room in WCEM

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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	Achivements/Outcomes
1. Industry Institute Interaction One Industry sponsored lab./Dept.	Achieved
2. One MoU per Dept.	Achieved
3. Value added course per students by third year	Achieved
4. Promote extra and co- curricular activities and entrepreneurship 8-10 Prize winners in National Level Technical competition	6-8 Prize winners in National Level Technical competitions in each department
5. Infrastructure up gradation Continuous infrastructure up gradation	Construction of Gym and Yoga hall is 85 percent completed and renovation of laboratories and sports facilities is in progress
6. Outreach Activities 1. Focus on yoga and meditation activities. 2. Blood donation camps 3. visit to paraplegic ward 4. Awareness activities	Achieved
7. Consistently Good Results i. 97% All clear and >98% first class at final year	80% All clear and 75% First Class
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14. Whether AQAR was placed before statutory body ?

No

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

2020

Date of Submission

06-Jul-2020

17. Does the Institution have Management Information System ?

Yes

If yes, give a brief descripton and a list of modules currently operational (maximum 500 words)

Management Information System of WCEM
1. Student Section: The module includes class list of students, no. of students, their unique id, personal information, contact numbers, alumni list and complete student profile.

Student Management Information System is a fully computerized system or a database where all the student related data can be stored, retrieved, monitored analyzed. The data is saved at a centralized location rolebased login access is given to all the stakeholders for ensuring student data security. Functionalities like registration, admission, billing, financial aid provision to students make the entire process of enrolment quick, systematic errorfree.

2. Library : This module facilitates detailed information about due books ,no. of books and authors along with publication, details of journal subscription, transaction details, and library feedback where everyone can give feedback about library. Library Management System (LMS) is a network of computers that uses a certain program to facilitate technical functions of the library. One such function is electronic cataloguing. With LMS, library users can trace desired books electronically without going through shelves. LMS also facilitates the lending process by keeping records of items lent and borrowers' information. LMS supports other administrative tasks such as inventory and data processing.

3. Account Section : The module includes payroll module which helps to create salary voucher ,salary slip of staffs,. It also provides details of fees for all available courses like B.E.,M. Tech , MBA and polytechnic. MIS reports allow for evaluation of the performance of employees, machinery, and even money (investment). This allows the management to make decisions about the future. Helps in cost control by pointing out turnovers, idle times, wastage of resources etc.

4. HR Module : In this module, staff appointments, joining dates, documents, salary details, Staff profile , salary attendance Vouchers, leave module from where they can apply online for leave in via personal log in.

5. Communication : Through this, SMS, Emails are sent to students regarding examination results and low attendance records. MIS systems facilitate communication within and outside the organization – employees within the organization are able to easily access

	the required information for the day to day operations. Facilitates such as Short Message Service (SMS) Email make it possible to communicate with customers and suppliers from within the MIS system that an organization is using. Record keeping – management information systems record all business transactions of an organization and provide a reference point for the transactions. 6. Examination Results : University result of students can be stored and sent through SMS to parents by using this module. This module allows you to generate result of students for different examination and different types of exams during the year as oral, practical, written, etc. Manage the results of the school students and keep a record of results of the students throughout the year. You can enter marks of the students and can automate the generation of the report card. Generate report card along with allocated grade, based on grade calculation easily.
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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

For effective delivery of the curriculum prescribed by the university, the institute has made a plan in the form of academic calendar semester wise and distributed among the HOD's of respective departments, administrative heads, and chairman of the society. According to the academic plan Principal and all respective HOD's continuously monitor the academics and take a review of the effectiveness of the plan. Students give monthly feedback of respective subjects which help to adopt any change in plan for the betterment and improvement of curriculum. Apart from that to improve the hidden talent and skills of students institute has organized an annual gathering and technical event like Tech-yard. For industry exposure to the students in the academic curriculum, we introduce guest lectures, industry visits and summer internship training programmers. According to our mission overall development of students in terms of skilled engineer and a good human being our students are promoted by taking part in social activity out of the institute and in the institute.

For improving the result of weak students there is a provision in our curriculum of extra and remedial classes. There is the provision of back to back class tests to improve the result and knowledge of weak students.

Sessional and Unit tests results are timely displayed and mark sheets are dispatched to the residential address of student by post. As counseling is the best factor to be in touch with students emotionally and mentally, 2-hour slots of counseling session in a week is taken as a part of the curriculum. In our curriculum, we added a finishing school classes for a third-year student for better performance in campus drive. To develop an entrepreneurial mindset among

students resulting in employment generation in the society. Well-equipped laboratories of every department help the students to innovate new ideas and create them in reality. In the curriculum, project competition has been organized to enhance student's talent and society can get a new exciting project developed by students which reflect the social responsibilities of the students. In our curriculum, we have introduced a facility "Earn and Learn" which helps a poor part of society to get higher education and fulfill the real mission of our institute. In "Earn and Learn" program students are provided with a small amount of payment for 2 hours of work done on a college campus after daily academic. For the betterment of the curriculum, we have night classes in our college hostel by the faculty members.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employability/entrepreneurship	Skill Development
Rubicon Skill development Programme	NA	17/02/2020	4	Employability and Entrepreneurship	Yes
STADD Pro	NA	07/02/2020	6	Employability and Entrepreneurship	Yes
Workshop on Autonomous Robotics And Embedded System	NA	20/12/2019	4	Employability and Entrepreneurship	Yes
AutoCad Workshop	NA	20/04/2020	5	Employability Entrepreneurship	Yes

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
Nil	NA	Nil
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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
BE	Mechanical Engineering	31/07/2019
BE	Electrical Engineering	31/07/2019
BE	Civil Engineering	31/07/2019
BE	Computer Science and Engineering	31/07/2019
BE	Information Technology	31/07/2019
BE	Electronics and Telecommunication	31/07/2019

BE	Electronics Engineering	31/07/2019
Mtech	CAD/CAM	31/07/2019
Mtech	IPS	31/07/2019
Mtech	PEPS	31/07/2019
Mtech	CSE	31/07/2019
Mtech	SS	31/07/2019
Mtech	Electronics	31/07/2019
MBA	MBA	31/07/2019

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

	Certificate	Diploma Course
Number of Students	361	0

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
Rubicon Skill Development Program	17/02/2020	255
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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	99
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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
Action plan for ensuring effective curriculum delivery Feedback is taken from all the stakeholders (Student, Teachers, Employers, Alumni, Parents) every year. Feedbacks obtained are analyzed for the understanding of the stakeholders, took their suggestions, delivery and shortcomings in the curriculum. All the HoDs/Directors are informed of their department's feedback with an analysis of it for corrective measures if any. The analysis is also presented to the Chairman for necessary support and corrective measure implementation. The analysis is also uploaded on the college webpage (https://wcem.in/). Effective implementation of the curriculum is periodically done by the departmental and central academic committee. The continuous academic monitoring is done through the academic review which is taken every

fortnightly. Dean Academics after reviewing the Academic report communicates the discrepancies if found to Head of the department. HOD takes necessary action for the improvement. Academic Audit is conducted at department and Institute level to verify the content of course file, Evaluation Process and Laboratory Conduction. Academic feedback is taken from the student based on various parameters to improve the teaching-learning process. Feedback is communicated to the concerned faculty for necessary corrective measures. Remedial classes are conducted for academically slow learners. For an effective understanding of the course, ICT tools and other pedagogical practices are used. Guest lectures, workshops, seminars, industrial visits, training programs related to subjects are organized for effective understanding of the subject. Course end survey for every subject is taken from the students to analyze their understanding of the subject. Laboratories have a standard operating procedure.

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
BE	CSE	66	36	36
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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	580	149	100	20	6

2.3 – Teaching - Learning Process

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

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
120	65	3	12	5	3
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)

During their 4 years journey through the undergraduate engineering program students often need monitoring, guidance and counseling from a loving elderly figure. Direct academic issues example selection of electives can be easily communicated to the student but example career option or fear of the subject need greater involvement of the mentor. A student should have the same mentor all through the 4 years of journey. To improve the institute present Endeavour towards academic quality up-gradation it has become necessary to redefine the existing system. The new system when practices diligently will immensely contribute in the improvement of overall academic quality. The student will be greatly benefitted by continuous expert guidance. Mentoring system: The new process has been established as a mentoring system. Each faculty will be the mentor of a group of 20-25 students. The first-year student will have the mentor from the department of basic engineering and science and

the second, third-year and fourth-year students will have a mentor from the parent department. Departmental faculty will continue to be mentors for the same group of students till their graduation. Responsibility: The mentor will perform the following function. The list of courses cannot be exclusive. The mentor can always do more for the benefit of the student. 1. Meet the group of students at least twice a month. 2. Continuously monitor, counsel, guide and motivate the student in all the academic matter. 3. Advice students regarding choices of electives, project summer training etc. 4. Contact parents / Guardians if the situation demands. Ex. Academic Irregularities, negative behavioural changes and interpersonal relations, detrimental activities. 5. Advice students in their career development/professional guidance. 6. Keep contact with the student even after their graduation. 7. Intimate HOD and suggest if any administrative action is called for. 8. Maintain a detail progressive record of the student. 9. Maintain a brief but clear record of all the discussion with students. HOD: The HOD will 1. Meet all the mentor of his/her department at least once a month to review the proper implementation of the system. 2. Advice mentors wherever necessary. 3. Initiative administrative action on students when necessary. 4. Keep the Head of the Institute informed. Academic committee: Institute academic committee will discuss mentoring related issues at least twice in a semester during its meeting and revise/upgrade the system if necessary. The Institute is emphasizing towards enhancement of enhancing the Institutional ambience to better serve the needs of an ever-changing and dynamic learning community. Effective mentoring begins with the faculty and depends on the healthy relationship between faculty and student. Department assigns faculties (Act as faculty advisor) for guidance for each year during admission till the graduation for same batch. The faculty advisors perform the following function: To maintain personal detail of the students including there address, contact number, overall academic performance and progress. It will help the FA in monitoring the academic growth of the students. It will also help the tracer studies of the alumni.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
729	120	1:6

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
120	120	0	0	8

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 D R Tutakne	Professor	Municipal Corporation
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2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
MBA	NA	2019-20	26/10/2020	26/11/2020
Mtech	NA	2019-20	23/09/2020	26/10/2020
BE	NA	2019-20	18/04/2020	12/11/2020
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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

• The institute is affiliated to the RTMNU, Nagpur from the year 2008. The University implemented the Credit-Based System for Under Graduate courses from the session 2015-16 Credit Based Choice System for the postgraduate courses from the session 2016-17. • The Principal Head of the Department conducts the meeting with the students to inform internal assessment for the session. Head of the Department monitors the internal assessment of the students done by the Faculty members . • The evaluation process is discussed in Department Industry Advisory Board meeting of respective departments. After discussion, it is approved by concerned authorities. • The improvements of the evaluation processes are discussed in IQAC meeting with the academic expert , HOD's , Principal and the decision taken is conveyed to other faculty members by the HOD communicated to students through Class teachers or Teacher guardians. • Student's performance is continuously evaluated through attendance, two sessional exams one pre-University examination, online test, and evaluation of practical exercises, presentation, and project work. • The checked answer sheets of Sessionals Pre-University Test are shown to the student and marks scored are displayed on the notice board. • Internal marks of practicals are awarded on the basis of the attendance, performance in laboratories, regular checking of practical records and internal submission. The internal submission includes performance on the given experiment and one to one viva and online test. • Project evaluation is done on the basis of performance in progress seminar which is conducted on a monthly basis, technical paper viva etc. Moderation of question paper, as well as answer sheet, are done to ensure the proper evaluation. The internal assessment scheme is also displayed on the notice boards. • The evaluation for project course is assessed by conducting periodical project reviews covering key parameters like problem formulations , understanding of the project , communication of ideas , technical knowledge , team work and project management. Major project consists of 200 marks. • The project review committee organizes review meetings to assess the progress of all the project batches. Performance of the students in Internal Assessment is used for Faculties to identify slow and advanced learners in their respective subjects. Slow Learners are encouraged to improve their performance in future by counseling. Counseling Sessions are used to sort out the personal issues, academic and non-academic problem. • Internal marks are assessed on the following criteria 1. Monitoring the attendance of theory and practicals. 2. Performance of Sessional I Sessional II 3. Performance of Pre University Test. 4. Online tests of respective subject Lab 5. Presentation / Project work.

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

The institution adheres to the academic calendar for the conduct of CIE Academic Calendar: RTM Nagpur University displays the academic calendar on its University website at the beginning of every academic year. The institute refers to the University academic calendar and prepares its academic calendar and circulates it in all the departments. All the departments plan and prepare their respective departmental academic calendar and circulate it among the faculties. The academic calendar consists of induction days, time of displaying the attendance, schedules of academic events, extra-curricular activities, sports, sessional and pre-University examinations, remedial classes, internal practical submissions, display of sessional PUT results, guest/expert lectures etc. CIE: Continuous assessment and evaluation of students performance are carried out. Review meetings are arranged periodically by academics to review coverage of syllabus Depending upon necessity, time tables are changed and modified so that syllabus is completed within the stipulated time. Informal feedback of students regarding the understanding of the subjects is taken by the head of the department and principal and corrective measures are taken. Attendance monitoring is done on regular basis on a monthly basis attendance report is generated and analyzed. The information of the students having poor

attendance is conveyed to the parents in Parent-teacher meet, by telephonic call or SMS. The feedback of the subject is taken manually in each semester. ?

The Class Representative (CR) meeting is conducted every month with faculty Principal, where syllabus coverage, events to be organized, difficulties faced by the students and feedback are discussed. Two sessional exams and one Pre-University Test are carried out in each semester. Evaluated answer sheets are shown to the students to understand where they have to commit mistakes while writing the answers. Performance of students in exams is analyzed and is conveyed to the parents as well. Continuous assessment of practicals evaluated on the basis of experiments performed, presentation skills, technical skills, discipline regularity, knowledge skills is done by faculties on regular basis marking is given to the practicals in the lab session. Project evaluation is done on the relevance of project title, idea/ concept of project, literature survey, progress of the project on monthly basis through progress seminar in presence of Project coordinator. Final compiled marks are shown to the students by respective subject teachers. Teaching Plan: Faculties are allotted subjects before the start of the semester based on their choice and area of interest/expertise. Faculties prepare the teaching plans and are checked by the respective head of the departments. Faculties prepare a subject file which includes syllabus of the subject, teaching plan, assessment sheets, question bank, University question papers, content beyond the syllabus, list of text reference books, unit-wise notes, result in analysis etc. The concerned faculty experiment at the start of the session laboratory manuals are revised before the beginning of the semester if applicable.

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://www.wcem.in>

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
414510110	MBA	Nil	Nil	Nil	Nil
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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://wcem.in>

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
Industry sponsored Projects	1	Texonics	1.1	1.1
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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
Red Hat Linux	CSE/IT	11/01/2020
Guest Lecture on PHP	EE	01/08/2019
Guest Lecture on Python Machine Learning	CSE	07/08/2019
Guest Lecture on Emerging Trends in IT	IT	22/01/2020
Guest Lecture on Hadoop Big Data Technology	IT	25/01/2020
Guest Lecture on DOTNET	IT	09/01/2020
Guest Lecture on Big Data	CSE	06/02/2020
Guest Lecture on ISHRA Nagpur student chapter	ME	17/10/2020

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
Mayor Innovation Award 2019	Dr. D.R. Tutakne	Nagpur Smart and Suitable city development corporation ltd.	26/01/2020	State Level
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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
1	Electronics high sensitivity electrical shock preventer	Texonics Nagpur	Electronics high sensitivity electrical shock preventer	Research project / Patent	03/10/2020
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3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
0	1	0

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

Name of the Department	Number of PhD's Awarded
NA	0

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)
National	ETC	3	Nill
International	ETC	2	Nill
International	EE	4	Nill
International	First Year	4	Nill
International	CSE	5	Nill
International	CE	7	Nill
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
EE	4
ME	4
CSE	5
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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
Line Synchronized control pulses for three phase IMAC to AC drive using Analog phase lock loop technique	Dhananjay R. Tutkne	Helix	2020	Nill	WCEM	Nill
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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
Enhancing power factor and efficiency of three phase IM	Dr. D.R Tutakne	IEE	2019	5	Nill	WCEM

Drives using single main PWM switch and three auxiliary switches						
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3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	2	24	5	Nil
Presented papers	1	Nil	Nil	Nil
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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
BLOOD DONATION CAMP	Hedgewar Blood Bank	22	51
TREE PLANTATION	Dongargaon Gram Panchayat	38	108
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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
Innovation	Mayor innovation award 2019	Nagpur municipal corporation	50
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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
NSS	WCEM NSS program NSS volunteers	Health and hygiene	1	41
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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
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On job Training	8	System india	1
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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
Internship	Internship	System India	01/06/2019	30/06/2020	30
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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
Multitech, Nagpur	12/12/2019	Campus recruitment at WCEM every year for empowerment of polytechnic of WCEM 2. Provide summer internship traioning for polytechnic 2 nd students. 3. Sponsoring R D projects which may be carried out, wholly or partly at WCEM or at premises of MTN. 4.	47
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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

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

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
115	97.26

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Classrooms with Wi-Fi OR LAN	Newly Added
Seminar halls with ICT facilities	Newly Added
Classrooms with LCD facilities	Existing
Seminar Halls	Existing
Laboratories	Existing

Class rooms	Existing
Campus Area	Existing
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
SACK INFO	Partially	2.5	2015

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	2413	316226	192	110152	2605	426378
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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
Prof. Rahul Bhandekar	E- learning	Aplication based app (ZOOM)	01/04/2020
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4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Co mputers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departme nts	Available Bandwidt h (MBPS/ GBPS)	Others
Existin g	360	250	13	18	60	8	11	10	0
Added	0	0	0	0	0	0	0	0	0
Total	360	250	13	18	60	8	11	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
Media Centre, Recording facility, LCS	https://wcem.in

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	Assigned budget on physical facilities	Expenditure incurredon maintenance of physical
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	facilities		facilities
250	235.71	115	97.26

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)

Every Department has classrooms and laboratories as per AICTE norms. Time tables are planned by the department for the utilization of classrooms and Labs. The time required for maintenance of Lab, classrooms are considered along with time slot required for practice session and examination. Tutorial rooms and seminar halls are available for additional teaching work. The seminar hall is utilized for conducting Guest lectures, training, conferences and workshops. students are encouraged to actively participate in paper presentations and group discussions. The workshop is utilized by all departments for project work all machines including lathe, shaper, welding, are available and used regularly. Every department has a computer lab which is used for practical work, online exams, aptitude tests, project development and competition of students and staff. Library: Books are available in the library as per the curriculum and reference books and journals are available for the students. some books are also available through Book Bank Scheme. CDs are available in a library that provides technical lectures, videos, and demos pertaining to subjects, eBooks and e-journals are subscribed and made available to students. Delnet membership is available with library also college member of National Digital Library that provides large numbers of books online College has both indoor and outdoor sports facility with a playground for football, volleyball, basketball, badminton and indoor sports like carrom, chess.

<https://wcem.in>

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	Economically Weaker Student Scholarship Scheme	26	985915
Financial Support from Other Sources			
a) National	Nil	0	0
b) International	Nil	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 implemetation	Number of students enrolled	Agencies involved
Software Skill	17/02/2020	225	Rubicon Skill Development Pvt.ltd

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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	Number of	Number of	Number of	Number of
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	scheme	benefited students for competitive examination	benefited students by career counseling activities	students who have passed in the comp. exam	students placed
2019	Latest IT Trends	70	70	70	Nil
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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
2	2	4

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
Nil	0	0	BLUE SKKY Realty Building a better tomorrow	4	1
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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
2020	1	BE	ETC	WCEM	MTech
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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	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
Chess Competition	Institute Level	26
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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	National/	Number of	Number of	Student ID	Name of the
------	-------------	-----------	-----------	-----------	------------	-------------

	award/medal	Internaional	awards for Sports	awards for Cultural	number	student
2019	Nil	Nill	Nill	Nill	NA	NA
2020	Nil	Nill	Nill	Nill	NA	NA
No file uploaded.						

5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

College gives an opportunity for the active participation of the student in various academic and administrative body's. This empowers the students in building leadership qualities and rules regulation disciplinary and execution skills. The institution does not have a student council, but there are societies / clubs the heads of which are part of council which oversee all the cultural activities WCEM. Similarly, the head of the technical clubs are responsible for all technical activities at WCEM The objective is to make the students participate in the development of the institute as well as in the process develop their personality, organizational skills and career through interactive programs with the faculty, administration and society. The goal of the student council is to provide a common platform to students for co-curricular and extra-curricular activities. responsible for all the major technical, cultural, literary and sports activities organized in the college premises. Activities under the council will be well supported by a team of faculty members. Every class has a class committee which consists of the students and faculty members. Class committee sets the rules and regulations for the class behavior. It serves as the voice of the students in front of faculty and has say in academic matter such as conduct of test and so on. Class committee meets twice a semester. The institution also provides avenues for the development of technical skills, updating knowledge, personality development and service to the society through various technical clubs/societies. A class representative is selected from all the sections of 1st year to final year the class representative bring forward the views and suggestions of entire class with respective to the faculty, subjects, syllabus and all the others miscellaneous acts related to the class. The student council helps the students to share ideas and problems with the staff and principal. These bodies organize various programs like Seminars, Workshops, symposium, and paper presentation every year. They also help to raise funds for social activities, community Projects, Natural Disaster affected people, Wide activities and college reforms. The funding for various activities of internal college bodies is provided by the management. • Sports/Games The institute has excellent sports facilities for the students. Students participated and won prices in inter college/university/National level games such as chess, badminton, carom, basketball, tug of war, cricket, kabaddi, football, volleyball, etc • Cultural and Extracurricular Activities Cultural activities for students are showcasing their talent to engage themselves in creative events. Cultural activities are integral part of student college life. Cultural activities helps students deal with success and failure as well as discipline, leadership, and social skill enhancement. Departmental forums such as cultural youth festival "Techyard" every year. Cultural activities list available for the students are Fashion show, Singing, Dancing, Engineers day celebration, Drama, Mehendi competition, Poster competition, DahiHandi, Ganpati festival celebration, Teachers day celebration.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

No

5.4.2 – No. of enrolled Alumni:

60

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

0

5.4.4 – Meetings/activities organized by Alumni Association :

2

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

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

The institute continued with decentralization practices and participative management at various levels described as follows. Institute has vision and mission which are futuristic in nature. They satisfy the needs of society through involvement of each one in the process. The governance comprising of Governing Body (GB), College Development Committee (CDC), and Internal Quality Assurance Cell (IQAC) play significant role in the evolutionary reforms towards positioning the Institute in the preferred list of all stakeholders. The Institute believes in promoting a culture of delegation of powers through strategic policies. The Principal of Institute is assisted by HODs, Administrative Head, and Section in charges and coordinators of various cells/committees in decision making process of the Institute. Faculty and staff are assigned with the roles and responsibility to work in a harmonious environment with complete transparency. IQAC has a well developed process to ensure quality benchmarks of academic and administrative activities. The Institute maintained the culture of retention of Faculty and hence has an edge of senior and dedicated Faculty for realizing its Vision. Institute follows recruitment policies and service conditions as per the rules and regulations of regulatory authorities. Fair representation of women faculty is also ensured at all levels of organization and congenial environment is fostered. Based on the Vision and Mission of the Institution, Quality Policies are framed and driven by the needs of the corporate world, society and stakeholders. Institute has a perspective plan developed by Principal and HOD's with suggestions of IQAC, under the guidance of LMC and GB. Deployment of the quality policy is done by providing requisite academic infrastructure, learning environment and harmonious work culture. Student's surveys and feedback from all the stakeholders plays vital role in framing and revising policies. Internal Quality Assurance cell (IQAC) formulates perspective plan taking into consideration inputs from all stakeholders. This plan is presented and deliberated in Institute Development Committee under the chairmanship of Principal to get consensus. This plan is forwarded to the governing body for approval. The Institution policy believes involvement of all staff in decision making and implementing the decentralized decision policy. To streamline the same, various committees at Institute level are formed which look after academic and administrative activities which lead to the realization of vision and mission of the Institute.

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

Partial

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	All the courses offered in our college are directly under the affiliation of RTMNU. The college strictly adheres to the syllabus designed by RTMNU, while delivering this syllabus content to the students, our faculty enrich it with their own expertise and experience so that the students also gain employable qualities that enable them get jobs in this highly competitive world. Any changes/upgradation in the curriculum are solely handled by the university in consultation with members of board of studies and suggestions incorporated from affiliated institutions. A series of focused meetings of faculty members at departmental level throws light on the limitations in the syllabus. The college ensures that the university curriculum is followed in the best of spirit. The institution strives towards the overall development of students and quality enrichment of learners. To meet the goals and objectives, the institution has taken additional efforts to face the current trends in competitive areas. The college authority makes sure that the curriculum framed by the university is implemented in such a way that it reflects " Vision and Mission " of the college.
Teaching and Learning	Principal , Dean Academics, Heads and academic coordinators of the departments take continuous review of teaching learning process in the institute. Before commencement of the term, academic calendar is prepared. Faculty prepares lecture planning for the entire semester and all the coordinators ensure that the activities are conducted as per schedule. Heads and academic coordinators monitor class wise, faculty wise and subject wise conduction of lectures and practicals. The summaries of steps taken by the institute to review teaching learning process are as follows: • Preparation of Academic and Activity Calendar. • Time table preparation as per work load assigned to faculty. • Preparation and implementation of teaching plan(Theory and Practical). • Periodic review of syllabus covered. • Remedial lectures and make-up lectures conducted as per

requirement. • Assessment and review of academic performance of students. • Midterm submission is conducted to review practical performance and continuous assessment of term work. • Corrective action for non performing students.

Examination and Evaluation

Students are continuously assessed through a well planned assessment system in every coarse. Two term tests are conducted based on syllabus of theory examination as part of internal assessment as prescribed by university. Then evaluation is done and Resessional exam is conducted for weak students to enhance their interest and to motivate them for studies. Apart from this pre-university test is conducted for all semesters on complete syllabus to increase their confidence level for final examination. Periodical class tests also conducted. Assignments are given after completion of every unit. Special assignments are given to weak students.

Research and Development

Research and development is an integral part of activities of institute. The key goal of the institute is to provide creative atmosphere in which higher studies and research thrive amongst the faculty and student. It also promotes and manages institute-industry interaction. The institute supports to faculty for research oriented work. Faculties publish papers in the national and international journals. Faculties regularly update their knowledge through reading various national and international journals in their field of interest. Faculty transfer their knowledge through innovative way to the students by training research methodologies and teaching methodologies. Students regularly update their knowledge by reading journals which are published in the national and international journals. Government/university orders are strictly followed in this regard.

Library, ICT and Physical Infrastructure / Instrumentation

WCEM central library functions with by providing various text books, reference books, e-book, national and international journals, news papers and magazines, e-journals and database. It provides many services like reading room facility, videos including NPTEL

videos. Library is automated using Integrated Management System (ILMS).
ILMS software: SACK INFO Version: 2.5
Nature of Automation: FULLY Library has an "Advisory Committee". The working hours of the library are from 10.00am to 6.00pm. on all working days. Maintenance activities are made by the college management periodically to keep library clean.

Human Resource Management

- Employees are given at most importance and their needs are well recognized.
- The faculties and staff are entitled to benefits like casual leave, medical leave, earned leave, duty leave and vacation according to rules laid down.
- The institute arranges training programmes and also deputed the staff to other organization for attending programmes for acquiring balanced skills (Technical skills, teaching skills, soft skills)
- The institute has a well defined and effective selection procedure, systematic performance appraisal system and promotion policies.
- Institute also provides bus facility for staff, student and non teaching staff.
- Institute also provides facility to students considering their financial position like fees concession, instalment payment, EBC concession, and hostel facility.
- Sick room, Ambulance facility is available doctor is also available in case of emergency.

Industry Interaction / Collaboration

The institute has an institute industry interaction through training and placement cell. They promote industrial training for the students and for the faculty as well. Every academic year it is made sure that the students are taken for industrial visits. The students are motivated to undertake their final year project in the relevant industry of their domain, thus exposing and preparing them to meet the real time requirement of the industry. The institute has signed MOUs with well known industries like Texonics, Nagpur (TNN), IT- Networks info systems Pvt. Ltd., Nagpur, Rubicon Skill development Pvt. Ltd., Nagpur. Central Railway, Nagpur. And many more to improve the interaction with industries and thereby providing better exposure to students and faculty members. The industry provides

permission for industrial visit and internship of students, and also delivers expert lecture in the college. College intern provide solutions technical problems encountered by the industry.

Admission of Students

- Well qualified and experienced staff are employed by the institute.
- Presentation is given in renowned junior colleges stating the advantages of the institute.
- Students are encouraged to participate in co-curricular and extra curricular activity.
- Training and Placement Cell is formed to give opportunity to scholar students to get placed in renowned companies.
- Well equipped labs are available.
- Hostel facility is provided, computer lab facility is provided for development of students.
- ICT tools for extending educational opportunities.
- Library facility is available.
- Industrial visits and guest lectures are conducted.
- Yoga centre and gym facility is available.
- Webinar is conducted on coarse "Artificial Intelligence and Data Science".

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

E-governance area	Details
Planning and Development	Five year Perspective Plans and yearly budgets are prepared based on online inputs received from students and faculty.
Administration	Maximum administrative functions are now digitized using ERP software.
Finance and Accounts	All financial transactions are conducted through "Tally" and are integrated with ERP software. Majority transactions are now conducted through embanking online process to ensure speed, better security and monitoring.
Student Admission and Support	Online admission form, online branch allotment based on merit, online fee payment.
Examination	Students are guided to fill exam forms online.

6.3 – Faculty Empowerment Strategies

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

Year	Name of Teacher	Name of conference/ workshop attended for which financial	Name of the professional body for which membership	Amount of support
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		support provided	fee is provided	
2019	Dr. Bharat Chede	FDP GAYANOUADYA 8.0 Research Methodology	WCEM	500
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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)
2019	Leadership Its Strategies	Nil	18/03/2019	19/03/2019	30	Nil
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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 FACULTY DEVELOPMENT PROGRAM ON DISRUPTIVE TECHNOLOGIES VOF INDUSTRY 4.0	1	30/05/2020	03/06/2020	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
13	107	42	42

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Transportation Accommodation for outstation faculty. Facility, ambulance, Medical Leaves, Casual Leaves, Duty Leaves,	Transportation Facility, ambulance, Casual Leave, Duty Leave, Medical Leave, Accommodation, Accommodation for outstation	Transportation, ambulance, Medical cheFacility, Freeships , scholarshipsckups, Accommodation for outstation students, earn and learn facility.

6.4 – Financial Management and Resource Mobilization

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

College has a mechanism for internal and external audit for finance. The audit is done regularly and discrepancies are reported. An internal auditor audits accounts on half yearly. The internal audit covers examination of revenues and payments. The external auditor conducts statutory audit at the end of financial year. The same are monitored in the Finance committee meetings Accounts of the institute are audited regularly. There were no major audit objections

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
M/S System India Nagpur	21000	Consultancy Amount
No file uploaded.		

6.4.3 – Total corpus fund generated

21000

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	WCEM	Yes	Academic Coordinator
Administrative	Yes	WCEM	Yes	IQAC Coordinator

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

Visit to Student Project Exhibition Parents Teacher Meet Parents Industrial Sector Supports for Enhancing Industry Institute Interaction Feedback On Curriculum
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6.5.3 – Development programmes for support staff (at least three)

Computer Literacy Tally for Accountant

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

Excellence Award for Teaching Staff Excellence Award for Non Teaching Staff Publication College Magazine

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b)Participation in NIRF	No
c)ISO certification	Yes
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	Technical Paper Presentation	10/09/2019	10/09/2019	10/09/2019	100

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
Self Defence an important life skill	21/07/2019	21/07/2019	66	77
Seminar on Stri Suraksha	08/08/2019	08/08/2019	60	80
Seminar on Human Trafficking	17/09/2019	17/09/2019	50	70
Seminar on Female Infanticide	23/10/2019	23/10/2019	80	90
Awareness on Menstrual Health & Hygiene	05/02/2020	05/02/2020	93	0
Gender sensitization and sexual harassment at workplace	05/03/2020	05/03/2020	50	70
Movie Screening on Gender Equity	08/03/2020	08/03/2020	80	80
International Womens Day	08/03/2019	08/03/2019	70	80
Group discussion on Gender Sensitization	14/03/2020	14/03/2020	50	70
Seminar on Women Empowerment	08/01/2020	08/01/2020	80	50

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

LED Water Harvesting Green Campus Bio-Gas

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	2
Provision for lift	Yes	250

Ramp/Rails	Yes	2
Braille Software/facilities	No	0
Rest Rooms	Yes	2
Scribes for examination	Yes	2
Special skill development for differently abled students	Yes	2
Any other similar facility	Yes	2

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
2020	4	4	15/02/2020	1	NA	Technical Paper Presentation	55
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7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Code of conduct	01/07/2019	1. Teacher must solve 5 years question paper, chapter wise in syllabus sequence 2. Teacher must prepare teaching plan before teaching in class room and laboratory get sign of HOD 3. Teacher must compel students to read the chapter (or its part) which he is going to teach. 4. Teacher must write on black board in minimum words, speaking loudly with 45 to board with sight contact with students. He must explain the contents in detail on separate part of board. 5. Teacher must ask students to come with writing (matter thought in earlier period) in note book and should check sign note book. 6.

Teacher must take cognizance of student absent in last period and must contact to absent students their parents on the same day. 7. Teacher must ask students to revise the completely taught unit on chapter and teacher should also revise it in the class room using black board. All previously taught units should be revised simultaneously. 8. Teacher must take remedial classes of students weak/failed in sessional exam and must take sessional exam of fail students in next week. 9. Valuation of sessional papers must be completed within three days after exam of that paper/subjet. 10. There must be additional assignments to absent students. 11. Students failed in sessional exam be asked to solve two question papers and be checked and signed. 12. Teacher should not give too much home work like writing five times so that students do not find time to study other subjects. 13. Progress cards with absentee must be sent to parents within week. 14. There must be parents meeting with teachers and every subject teacher must ask the parents about the progress of their wards in their subjects. 15. If parents are absent then there must be telephonic contact. 16. If teacher is absent in teacher meeting and if there is not contact then teacher should visit local parents at their homes and students at their local addresses. 17. Same

teacher must
conduct/perform practical
simultaneously and
actually. 18. Any teacher
must go to class room or
laboratory at least one
or two minutes earlier.
19. Any teacher must plan
teaching in such a way
that he/she should leave
class room or laboratory
as soon as period over.
20. Teacher must be
present inside the class
room/laboratory for
entire period and need
not leave class room or
laboratory. 21. Teacher
must not allow students
to leave before the
period or laboratory
work/time is over. 22.
Teacher must check sign
practical records on same
or next practical class.
23. Teacher cannot use
mobile in class room and
laboratory and cannot
allow students also. 24.
Attendance, result
analysis of sessional,
resessional and
university exam must be
ready and submitted to
authorities within week
and records of AC, ATKT
DC students must be
maintained. 25. Every
teacher must keep record
of regular, not reported
and cancelled students
within a week of classes
started or admission
taken. 26. University
result of every teacher
below 50 or below average
result of university
regarding the entire
class and subject wise
will not be tolerated.
27. Teacher must take
care of class room and
laboratory, its
cleanliness, well
organized furniture and
equipments and instrument
must be in working
conditions. 28. Teacher

must take care of record of earlier students result analysis and stock records. 29. Teacher without any emergency should not take leave. 30. Teacher should work extra to correct deficient of failed or pending work. 31. Teacher in addition to teaching, remedial classes, parents meeting must contribute to admin work, inspection work, approval work, co-curricular and extracurricular work etc. 32. Teacher must do research for one research paper publication every year. 33. Teacher should give lecture as resource/expert person with the permission of authorities. 34. Teacher should carry out some project from Govt. of industry to fetch funds and making laboratory rich. 35. Teacher cannot leave his service in the middle of the semester. 36. For any other work teacher must take permission. 37. Teacher should take care of their students remaining fees, scholarship, EBC, semester exam forms. 38. Regular faculty meeting should be conducted every week. 39. At least one university expert lecture in each subject in each semester must be arrange to encourage the students and staff for standard expected and how to pass in exam and get more marks to make aware. 40. Academic technical in-charge must come to the college 9.45 am and make sure that all classes are started well in time by taking round and also round after recess. 41.

Academic development must be communicated to authority daily. 42. Academic and technical in-charge must put progress status report before LMC to hold twice in each semester. 43. Similarly internet academic and technical audit (along with other aspect) must kept discussed and in academic advisory body meeting to be held at least twice in each semester before LMC meeting and suggestion of academic advisory body and LMC must implemented and its report should be put before next advisory LMC meeting. 44. Meditation for 5 minutes must be done before starting classes. 45. If you do good things you will be rewarded. If you do bad things, you will be punished somewhere, sometime.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Independence Day	15/08/2019	15/08/2019	30
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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

Bio-Gas LEDs Plastic Free Campus Restriction of Two Wheelers Parking Solar System for Canteen

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best Practice: 1 1. Title of the Practice: Work on Final Year project “HYBRIDE SOLAR POWER INVERTER” to implement it as regular class room practical. • Objective: The students are encouraged to get involved in project work and to make students efficient to implement their work practically in the earlier stage of their career. • Context: Such a practice improves their interest in the subjects and also their learning capacity. The employability of the students will also increase as they will have an idea of how to handle problems. • Practice: Students are advised obtain an idea of their project and to implement it in regular class room practical. This will improve their knowledge about the importance of different subjects. • Evidence of Success: Students have excelled in completing their project effectively and project is kept as a regular class room practical for subsequent batches. • Problems Encountered and Resources Required: The students had problems in obtaining the different project component. The institution had to set up a lab for this. Best

Practice:2 • Title of the Practice: Road Construction And Maintenance. • Objective: The approach road from railway crossing on Gumgaon phata to railway station was in very bad condition. The students, Passengers, crossing people, vehicles were not comfortable to travel across the route. So Wainganga College has taken the initiative to construct the TAR Road via Gumgaon Railway Station to the College. • **Context:** Such a practice is useful to the students, passengers, crossing peoples, vehicles as it was needed to construct the road. This practice is also useful for future development of the area. • **Practice:** Institute is also aware about the periodic maintenance of road to keep it in good condition. • **Evidence of Success:** This has resulted the railway passengers college students and staff are very much benefited due to this initiative. • **Problems Encountered and Resources Required:** Cost of the construction and maintenance has barred by the college.

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

<https://wcem.in>

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

Wainganga Bahu-Uddeshiya Vikas Sanstha's (WBVS) Wainganga college of Engineering and Management Nagpur. Encourages of engineering professionals who will be academically and technically sound along with well-built ethics. Institute's distinctiveness is elaborated in following paragraphs. Institute has a parent Sanstha like WBVS, which has management members who have dedicated themselves to social cause. The idea started as Education Process Re-Engineering (EPR) which proposed by faculty members. This EPR has four faces, viz. (a) Brilliance in Academics (b) Investigation of Knowledge through Research (c) Enthusiasm of Innovation Entrepreneurship (d) Exponent for Development of a Rounded Personality with Global Vision and Social Responsibility. ? **Brilliance in Academics:** A high quality of academic excellence can provide value-added experience for the students. The positive outcomes are achieved by designing the curriculum to meet the global needs and through teaching-learning methods blended with ethical values. It outlines the commitment to academic performance expected of all students. The structured orientation of the student into the curriculum enables to imagine the career opportunities and the approach towards achieving them. ? **Investigation of Knowledge through Research:** The Institute's determination to be transformed into a centre for major research is therefore a commitment to offer high quality teaching through: • **Synergies between Research Education Activities • Research Based Learning Teaching** The Course based projects, Social impact projects, certificate courses offered by the institute provides the knowledge regarding cutting edge technologies, enabling the students to carry out inter-disciplinary research. The Research and Consultancy Centre (RCC), of the institute is equipped with advanced level research Laboratories to make possible the academic and sponsored projects. ? **Enthusiasm of Innovation Entrepreneurship:** The institute provides a platform to business Start-ups to develop their ideas into commercially viable products. The students participate in the Big Idea Competition and the best ideas are rewarded. Week End Lab facilitates the students to work on innovative project ideas. WBVS encourages the stakeholders to incubate the selected projects, by providing the seed money and infrastructure based on their credentials. Training and placement Cell crucially works on generating the excitement in the young engineering brains to manufacture innovation and thus laying the stones for entrepreneurship. ? **Exponent for Development of a Rounded Personality with Global Vision and Social Responsibility:** Participation of the students in Co-Curricular Activities (CCA)

and Extra Curricular Activities (ECA) helps to enhance all rounded personality to strongly face the turbulent road of the future. Experiences and appreciations gained through these activities assist students during internships. Career guidance, Personal counselling, Training are well structured through a Mentoring Training and Placement (TP) centre. Student participation in ECA / CCA is facilitated through professional bodies and student associations. Since the Vision of the Institute focuses on comprehensive and sustained growth of the students and that of the Institute along with its student community, the Experts serves as a unique tenet that directs the Institute's de facto modus operandi which leads to appreciable, all-round performance by assuring global standards through value-adding education and interdisciplinary research paving ways to

Provide the weblink of the institution

<https://wcem.in>

8.Future Plans of Actions for Next Academic Year

Institute has been initiating and implementing various activities to assure and improve quality in the different aspects of academics, co-curricular and extracurricular activities, faculty development. Another aspect, institute is focusing is social exposure to students and faculty by conducting extension activities. In view of the vision, mission and core values, institute has planned for following initiatives.

- Firm up collaborations to bridge the gap between academia and industry. Industry is the major stakeholder of technical institution. Continuous interaction between technical institution and industry is an essential requirement to enhance an employability of engineering graduates. Institute has been in association with various industries and providing very good industrial exposure to the students. In order to sustain and enhance the interaction with the industries, Institute has planned to focus on interaction with industry with the involvement of every faculty and students as well. Also, planned to firm up association with industry by signing MOU for formal collaboration. More focus through interaction with industry will be to motivate students for industry sponsored projects, for industrial internships.
- Emphasize on faculty empowerment in the area of research via organizing conferences, seminars, workshops and guest lecture.
- To promote entrepreneurship and innovation through skill development. Institute has developed "Entrepreneurship Development Cell" and planning for enhanced activities in this area. Skill development will be the focused area for enhancing employability of students.
- Up gradation of Class Rooms with ICT Tools
- Organization of workshops, conferences training on advanced technologies
- More focus will be on student satisfaction in all areas of academics and other activities.
- To provide world class infrastructure in the region.
- Advance courses and certified trainings is the major area to work and to meet the vision and mission of institute to higher extent.
- Ease of learning will be priority of institute by maximum use of digital tools and learning technologies.
- Organize more community service activities to contribute to the wellness of the society Institute is planning to organize more community service activities to contribute to the wellness of the society. Along with NSS unit, departments are involved in the organization of different social activities.
- Intensive training for preparing students for competitive examinations Recently.