Yearly Status Report - 2019-2020

Part A	
Data of the Institution	
1. Name of the Institution	**CUMMINS COLLEGE OF ENGINEERING FOR WOMEN**
Name of the head of the Institution	**Dr. BHARATBHUSHAN JOSHI**
Designation	**Principal**
Does the Institution function from own campus	**Yes**
Phone no/Alternate Phone no.	**09657667030**
Mobile no.	**9423055160**
Registered Email	**office@ccewngp.org**
Alternate Email	**principal@cumminscollege.edu.in**
Address	**Mouje Sukali (Gupchup), Taluka Hingna, District Nagpur**
City/Town	**NAGPUR**
State/UT	**Maharashtra**
Pincode	**441110**

2. Institutional Status

Affiliated / Constituent	**Affiliated**
Type of Institution	**Women**
Location	**Rural**
Financial Status	**private**
Name of the IQAC co-ordinator/Director	**Dr. Sanjivani Shastri**
Phone no/Alternate Phone no.	**09657667030**
Mobile no.	**9850385463**
Registered Email	**sanjivani.shastri@cumminscollege.edu.in**
Alternate Email	**sshastri.ccoew@gmail.com**

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	http://www.cumminscollege.edu.in/Downloads/CCoEW_aqar_report%202018-19.pdf

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://cumminscollege.edu.in/Downloads/academic-calender-2019-20-Odd-sem.pdf

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity	
				Period From	Period To
1	**B++**	**2.76**	**2018**	**02-Nov-2018**	**01-Nov-2023**

6. Date of Establishment of IQAC

27-Aug-2017

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
INTERNAL REGULAR MEETING	**12-Feb-2020**	**18**

OF IQAC	1	
REGULAR MEETING OF IQAC	17-Jul-2019 1	17
PARTICIPATION IN NIRF	04-Dec-2019 1	430
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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
No Data Entered/Not Applicable!!!				
No Files Uploaded !!!				

9. Whether composition of IQAC as per latest NAAC guidelines:	**Yes**
Upload latest notification of formation of IQAC	[View File](#)
10. Number of IQAC meetings held during the year :	**2**
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	**Yes**
Upload the minutes of meeting and action taken report	[View File](#)
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	**No**

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

INTERNAL IQAC MEETING EVERY TWO MONTHS TO ENSURE THE PROGRESS IN EXECUTION OF ACTION POINT

PREPARATION FOR IMPROVEMENT IN GRADE FOR NEXT CYCLE

SoP MODIFICATION OF PROJECT WHICH HAS HELPED THE STUDENTS AND FACULTIES TO PRESENT THE PAPER IN CONFERENCES

WEBINAR BASED FDP CONDUCTED BY ALL DEPARTMENTS

[View File](#)

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
PROJECT SoP	LITERATURE REVIEW AND PROJECT RELATED ACTIVITIES IN NEXT SESSION WAS ACCILERATED
GETSALT TEST FOR STUDENTS	EACH STUDENTS HAS GOT A FEEDBACK ABOUT THEIR PERFORMANCE IN THE TEST. THEY CAN WORK ON SOME AREA WHERE THEY COULD NOT PERFORM WELL. THIS HAS HELP THEM TO PREPARE FOR THE APTITUDE FOR CAMPUS PLACEMENT
GESTALT TEST FOR FACULTIES	ALL FACULTIES ARE GIVEN THE TEST DESIGNED BY WORKFORCE EDU. THE DETAIL ANALYSIS IS PROVIDED TO THE FACULTIES. THIS HAS HELP THEM TO OVERCOME THE WEEKNESS IN READING AND LOCATING INFORMATION SKILLS AND MATHEMATICS APTITUDE. FACULTIES HAVE EARNED CERTIFICATES
INTRODUCTION OF BUDDY SYSTEM	IN THIS SYSTEM THE STUDENT OF FIRST YEAR IS ATTACHED WITH THIRD OR FINAL YEAR STUDENT FOR MENTORING. PEER TO PEER GUIDANCE, HELP THE STUDENT TO OVERCOME THE FEAR OF SOME SUBJECT, WHICH RESULTED IN GOOD SCORE IN UNIVERSITY EXAM
TO PREPARE ACADEMICS MONITORING PLAN WHICH INCLUDE SYLLABUS, ACTIVITY BASED LEARNING AND MANY SUCH ACTIVITIES	SOME DAYS OF THE WEEK AND DATES HAVE BEEN SPECIFIED FOR SUBJECT FILE CHECKING, SUBMISSION OF REPORT OF FDP ATTENDED AND STUDENT HOUR MONITORING WHICH HELP THE PROPERTY TO PLAN ACTIVITIES METICULOUSLY AND TIMELY SUBMISSION OF DOCUMENT
[View File](#)	

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 ?	Yes
Date of Visit	28-Sep-2018
16. Whether institutional data submitted to AISHE:	Yes
Year of Submission	2020

Date of Submission	15-Jan-2020
17. Does the Institution have Management Information System ?	**No**

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Planning and Implementation

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

Effective Curriculum delivery is the heart and soul of institute and hence the institute ensures that it should be done through well planned documented process. The academic calendar is prepared in view of university academic calendar, which includes the events to be conducted throughout the session. Subject Load Distribution is done in advance considering the expertise of the faculty. The Time Table for the semester is then prepared. The institute gives freedom to the students to make a choice for elective subjects and is done through a documented process. Each subject faculty then prepares its LP/TP and Lab Plan according to the Time Table and Academic Calendar. The LP/TP is a complete roadmap about how each faculty is going to do the effective delivery of their syllabus. Each faculty prepares Subject File for their subject and updates it regularly and is monitored regularly by Documentation Committee and reports are prepared regularly and communicated with Principal and each subject teacher. Lab Manuals are also prepared in advance and distributed to the students. CO-PO-PSOs are communicated with the students & mapping is done at the end of semester. Project guides helps students to choose the Project .Our projects specially focus on solving problems of industries and hence collect problem definition from the industries and develop projects to solve the problem. Our projects also focused societal and environmental issues, agricultural and health issues. Project Reviews are planned twice a semester. Submission of Project Report and Practical is scheduled at the end of the semester. Time Table for Internal Practical Exam and schedule for project review and final presentation is communicated with students and staff well in advance. We conduct Orientation Program and Skill Development workshops during the first week as per the guide lines of AICTE to introduce skills and knowledge beyond syllabus and make our students ready to face challenges. We take continuous efforts to enhance teaching-learning process and take initiative to use ICT Tools and E-resources, more emphasis on Activity Based Learning, organize guest lecturers from industry and academicians, special tutorials for weak students and direct second year students, forming TG group and regular counseling of students, etc. We persuade students for building a strong resume and encourage them to register for diploma and certificate program from NPTEL and SWAYAM and for other such online learning resources. We conduct special classes for CRT/TCRT, Personality Development, Communication Skills Development and Foreign Language. We have dedicated special slot as 'Student Hour' where students can learn and earn knowledge beyond syllabus. We ensure that our students will also participate in activities like, Sports & Arts, University & State Level competitions, Presentations & Seminars, Publications in National & International Journals, Research & Development, Industrial Visits & Entrepreneurship Development, NSS and NCC units, etc. This year due to sudden pandemic we switched to online mode and completed 100 percent syllabus. The sessional II was also conducted online through college exam portal. Project Viva and Internal Practical were conducted on line mode.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year					
Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entreprene urship	Skill Development
Employabil ity Skill development certificate	Nil	25/11/2019	21	Employabil ity	SQL,PLSQL, Soft skills, Apptitude and core Java

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

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

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	ETC	14/06/2019
BE	MECH	14/06/2019
BE	CE	14/06/2019

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

	Certificate	Diploma Course
Number of Students	0	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
Python Programming and IoT applications using Raspberry Pi	17/06/2019	38
Basics of Electronic component and circuits	24/06/2019	17
Implementation of VHDL code on Nexys3	09/12/2019	24
Arduino Node MCU programming for designing IoT applications	09/12/2019	23
Solar Energy: Opportunities and Research Avenues	17/06/2019	60
Mechanical Tools	09/12/2019	59
Object Oriented Concept ,PhP,Python	09/12/2019	56
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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	ETC	24
BE	CE	56
BE	MECH	53
BE	CE	15
BE	ETC	9
BE	MECH	16

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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Nill
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 is an important tool for taking corrective actions and future planning hence, the institute has developed a strong feedback mechanism. It collects feedback from its stakeholders Students, Parents, Employers and its Alumnae. The institute collects Course Exit Feedback and Teacher's Performance Feedback from its students. Both the feedbacks are collected at the end of the semester. Teacher's Performance Feedback provides positive critics about teaching methodology adopted by the teacher and hence provides valuable inputs about further improvement in his/her performance. It is strictly confidential and is directly collected and analyzed by the Principal. The feedback is discussed with the faculties by the principal and corrective actions are taken in consultation with the faculties individually. The feedback about Teacher's Performance is taken by physically, i.e. by adopting pen and paper method. The Course Exit Feedback is also collected at the end of the semester. This feedback is collected and analyzed by each faculty individually for their respective subjects and practical. This feedback provides information about Course Objectives which are designed and discussed with the students at the start of the semester. Students has to rate the CO attainment at 3-point rating scale. Course Exit Feedback is collected either physically or online through Google Forms. The institution also collects feedback from the parents about the overall facilities and practices followed by the institute. This feedback form also includes points regarding the curriculum of the university. Parents' feedback is conducted and analyzed by the class teachers during Parents-Teacher Meet. PTM are organized twice in a year, preferably after Sessional Exam. The purpose of PTM is firstly to discuss performance of their wards and then to receive feedback about the institute. Parents' feedback is given due importance for formulating further planning and deciding future policies. It is collected physically during PTM, but there is also provision for submitting online feedback. This feedback form is available on college website. The institute also collects feedback from the employers. Employer's feedback is basically

about the alumnae of the institute who are working with their organization. This feedback is valuable for the institute as it provides basis for adding bridge courses and skill development programs according to the need of the industry. This feedback is mostly collected online as in most of the cases taking it physically is not possible for the institute. Employers' Feedback forms are also available on the college website. Lastly, the institute collects feedback from its Alumnae about the overall facilities and support of the institute. It also includes points related to academics. This feedback is mostly collected during Alumnae Meet, which is organized once in a year. There is a provision to submit online feedback also and the feedback forms are available on the college website. Both Employer's Feedback and Alumnae Feedback are collected by Training Placement Officer and analyzed by TP Officer and the Principal. The role of feedback in institute's development can never be neglected, and hence collections and analysis of feedback is given priority

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	Computer engineering	63	59	59
BE	Electronics and Telecommuni cation	63	6	6
BE	Mechanical	63	17	17
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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	363	0	32	0	32

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
32	32	4	12	4	8
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)

Yes, the institution has a well-established student mentoring system. The process has been established as Teacher- Guardian scheme. . Each faculty is supposed to be the mentor 10 to 15 students. First year students

have mentors from the department of Basic Engineering Science and second, third, fourth year students have mentors from the parent department. Departmental faculties continue to be mentors for the same set of students till their graduation. Responsibilities: The mentor will perform the following functions. The list of the responsibilities is not limited to this but a teacher is always encouraged to have established his/her own ways to the larger benefit of the students. 1. Meet the students at least twice a month. 2. Continuously monitor, counsel, guide and motivate the students in all academic matters. 3. Advise students regarding choice of electives, project, summer training etc. 4. Contact parents/guardians if situation demands e.g. academic irregularities, behavioral changes and interpersonal relations etc. 5. Advise students in their career development/professional guidance. 6. Keep contact with the students even after their graduation. 7. Intimate Principal and suggest if any administrative action is called for. 8. Maintain a detail progressive record of the student. (format attached) 9. Maintain a brief but clear record of all discussions with students. In addition to the mentoring scheme, every class has a class teacher. Class teacher monitors the student's attendance, submissions and performance in the internal and university exam. One of the faculties from college is a qualified psychotherapeutic counsellor. Personal counselling is done by that faculty on regular basis. The personal problems, exam phobia, stress related issues of the students, are resolved by such counselling. Faculty Advisors: Departmental faculties will discuss mentoring related issues at least twice in a semester during its meetings and update the student's information and action points taken if necessary. Effective mentoring begins with the faculty and depends on the healthy relationship between faculty and students. Departments assign faculty advisors for providing guidance for each year during admission till the graduation for that batch. The faculty advisor always counsel and motivate the students in all academic matters-directly or indirectly. He/she guides the students in taking up extra academic and professional activities for value addition as a member of different professional societies in the departments and also advises the students in matters of their career. Principal also guides the students on how to choose the carrier to the students of third year and final year. Some students of the college gets Cummins Nurturing Brilliance Scholarship from Cummins India Limited. The scholarship awardees get mentors from the company. The mentors are allotted by the company and they provide the overall guidance for the carrier and also keeps the tract of the academic performance of the students . {add mentoring by CIL}

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
363	32	1:11

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
36	35	1	0	6

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
2020	Nill	Nill	Nill
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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	BESI	I /1st year	18/11/2019	10/01/2020
BE	BESII	II/First Year	09/04/2020	05/09/2020

BE	BEETE3	III/2nd year	05/10/2019	31/12/2019
BE	BEETE4	IV/2nd year	09/04/2020	08/09/2020
BE	BEETE5	V/3rd year	05/10/2019	31/12/2019
BE	BEETE6	VI/3rd yea	09/04/2020	09/09/2020
BE	BEETE7	VII/Final year	05/10/2019	31/12/2019
BE	BEETE8	VIII/Final year	09/04/2020	12/11/2020

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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

In the institute, Continuous Internal Evaluation (CIE) is done by conducting two internal exams - Sessional-I and Sessional-II. In addition, Assignments, Group Discussion, Surprise Test and Viva-voce during each practical turn are conducted. The marks / grades obtained by students in the CIE process comprises of 20 percent weightage for their University grading. CIE system followed at institute is as follows - The syllabus of the course and its COs, POs and question paper pattern is discussed with the students by the subject teachers in the beginning of the new session. Internal assessment marks are awarded on the basis of performance of student in Sessional-I and Sessional-II, marks obtained in assignments, Viva, participation in different activities like competitions, workshops, seminars, industrial training/ internships, sports etc. Reforms introduced by the Institution: Being an affiliated institute, university reforms are followed by the institute. The first Sessional exam is conducted on the 50 percent syllabus, while, the second Sessional exam is conducted on the remaining 50 percent syllabus. The institute also conducts Re-sessional Exam for the students who either scores less than 60 percent marks in any subject or are absent for the Sessional exam due to some genuine reasons. The Re-sessional exam is conducted beyond college hours so that the regular classes will not hamper. It is noteworthy that the institute strictly follows the academic calendar for conduction of Sessional Re-sessional exams under any circumstances. Like, during the academic session 2019-20, during Even Semester the Government of India declared nationwide lockdown. The institute followed Government University guidelines during lockdown, but academics was not hampered and institute conducted Online Sessional II exam through its exam portal. The sessional II exam was of multiple choice questions based on the remaining 50 percent syllabus . Final Year Project Presentations was also conducted online through Zoom and Goggle Meet Platform. Like this, through the strong mechanism of Continuous Internal Evaluation (CIE), the institute ensures that the performance of students is monitored regularly. The CIE policy provides a concrete base to take corrective measures and actions for improvement in performance of students.

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

The Academic Calendar is an important tool for the institute to ensure the timely completion of all the activities planned throughout the year. Along with the activities related to curriculum implementation academic calendar also involves activities related to the Continuous Internal Evaluation. The activities related to CIE and are included in Academic Calendar includes: schedule of Sessional Exams, Parent Teacher Meet, Re-test schedule, Mid-Tem and Final Submissions of Practical, Internal Practical Exam, Industrial Visits, and Press conference and Project display. Academic Calendar is prepared first and then circulated to the faculties . Faculties then prepare the lab and teaching plan (LP/TP). The Sessional exams are conducted by centralized Exam Department

of the institute, whereas, other activities are conducted at Department level. Parent meet was added the in the Academic Calendar this year and the PTM was conducted accordingly in the department. Activities related to project are conducted by Project- Head of Task (HoT) of each Departments, whereas, activities related to the practical are conducted by respective subject teacher and Exam coordinator of respective department. The other activities which are also part of CIE but not displayed in Academic Calendar includes Assignments, Individual Group Activities, Seminars, Competitions, Quizzes, Group Discussions, etc. These activities are not mentioned in Academic Calendar as it is organized and conducted by each subject's teachers as per their LP/TP. The institute conducts two Sessional Exams during an Academic Session. The first Sessional exam is conducted after completion of 50 percent syllabus, while, the second Sessional exam is conducted after syllabus completion on the balance portion. The institute also conducts Re-Exam for the students who either scores less than 60 marks in any subject or are absent for the Sessional exam due to some genuine reasons. The Re-sessional exam is conducted beyond college hours so that the regular classes will not hamper. It is noteworthy that the institute strictly follows the academic calendar for conduction of Sessional Re-exams under any circumstances. Like, during the academic session 2019-20, during Even Semester the Government of India declared nationwide lockdown. The institute followed Government University guidelines during lockdown, but academic was not hampered and institute conducted Online Sessional exam through its exam portal. Final Year Project Presentations was also conducted online through Zoom and Goggle Meet Platform. The schedule of Parent-Teacher Meet communicated through Academic Calendar gives enough time to outstations parents to plan their visit to the institute. The Academic Calendar also includes the schedule for Industrial Visit which is an excellent example of forward planning of the institute. Though the other elements of CIE are not included in Academic Calendar but these are included in LP/TP just to ensure timely completion of these activities too. Assignments, Activities, Quiz, Seminars, etc are conducted by each subject teachers the dates of conduction of each activities are mentioned in their LP/TPs. Activities related to practical are mentioned in Lab Plan. Lab manuals are checked and corrected regularly after the completion of practical.

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://cumminscollege.edu.in/course_objects_and_outcomes_CE.php

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
BEME8	BE	Mechanical Engineering	27	27	100
BEME7	BE	Mechanical Engineering	27	24	88.89
BECME8	BE	Computer Engineering	45	45	100
BECME7	BE	Computer Engineering	45	44	97.78
BEETE8	BE	E & TC	24	24	100

BEETE7	BE	E & TC	24	23	95.83
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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://cumminscollege.edu.in/Downloads/Student%20Satisfaction%20Survey%2020 19-20%20-%20Google%20Forms.pdf

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Resource Mobilization for Research

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

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
No Data Entered/Not Applicable !!!				
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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
Seminar on intellectual property rights	T and P Cell	10/08/2019
Heating, Ventilation and Air Conditioning System (HVAC) and Case Studies	Mechanical Department	28/01/2020
National Level Awareness Programme (NLAP) Build the enterprise of your dream	ED Cell	28/02/2020
Emerging Opportunities in HVAC	Mechanical Department	06/03/2020
Opportunities after Lockdown	ED Cell	25/05/2020

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
Lanzen Decorticator	Anjali Puri,Samiksha Tembhare ,Hunny Zalke	Gramayan,Nagpur	09/02/2020	Innovation
Understanding challenges in r ural/semi-urbanized villages by conducting Participatory Rural Appraisal (PRA) to increase social	Yogesh Dandekar	Government Polytechnic, Nagpur	29/02/2020	Research

awareness through extra-curricular activities in an engineering institute					
Briquette Making Machine	**Shachi Deshpande ,Shivani Shrikhandakar, Pratiksha Kamdi, Ritu Itankar , Dr S. Khekale**	**Gramayan,Nagpur**		**26/12/2019**	**Innovation**

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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
Cummins college of engineering for women, Nagpur	**Business incubator**	**MSME**	**Support for enterpre neurial and managerial development**	**Incubation**	**20/12/2019**

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3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

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

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

Name of the Department	Number of PhD's Awarded
No Data Entered/Not Applicable !!!	

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

Type	Department	Number of Publication	Average Impact Factor (if any)
International	**Electronics and Telecommunication**	**1**	**5.75**

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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
Mechanical Department	**2**

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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	Number of citations

					mentioned in the publication	excluding self citation

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

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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

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

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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	**4**	**3**	**2**	**7**

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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
Tree Plantation	**NSS CCoEW, Nagpur Unit**	**1**	**50**
DAAN Utsav	**NSS CCoEW, Nagpur Unit**	**1**	**120**
Blood Donation	**NSS CCoEW, Nagpur Unitand MEGA**	**1**	**36**

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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
nil	**nil**	**nil**	**0**

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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 activites	Number of students participated in such activites
National Service Scheme	**NSS CCoEW, Nagpur Unit**	**No Plastic Awareness Camp**	**1**	**40**
National Service Scheme	**NSS CCoEW, Nagpur Unit Janaakrosh NGO**	**Road Safety Awareness**	**1**	**350**

National Service Scheme	NSS CCoEW, Nagpur Unit	Webinar on Green Initiatives for Environmental Ecosystem	1	420
National Service Scheme	NSS (National Service Scheme) IETE (Institute of Electronics Telecommunication Engineers) in association with "OLAWA Mahila Bahu-uddeshiya Samstha, Amravati"	A session on "Women Empowerment"	1	350

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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
Project on Prototype of Railway Accident Prevention System	Students and Faculty (Sharayu Deote, Ketaki Patil,Ritu Kotalwar, Sayali Rathod, Shifani Sheikh)	Nil	300
Industrial Project on Display of tool Information on Screen with Shri Sai Engineering Nagpur	Mansi Baiswar,Prachi Paunikar,Samruddhi Patil,Sayali Bokade	Nil	365
Industrial Project on Productivity Improvement in Power press operations with Shri Sai Engineering Nagpur	Nidhi,Shachi Deshpande,Shivani Shrikhandkar,Vaidehi Lule,Tanvi Patle	Nil	365
Industrial Project on FIFO arrangement for MS Sheets with Shri Sai Engineering Nagpur	Pratiksha Kamdi,Sneha Koparkar,Shweta Kumbhalkar,Anjali Borkute,Payal Goge	Nil	365

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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	Name of the	Duration From	Duration To	Participant

linkage	partnering institution/ industry /research lab with contact details				
Internship	Internship	Reliance Power, Nagpur	15/05/2019	15/06/2019	4
Internship	Internship	Heta Datai n,Nagpur	13/05/2019	15/06/2019	10
Internship	Internship	Tata Motors Pune and Jamshedpur	13/05/2019	15/06/2019	3
Internship	Internship	Cummins India Limited, Pune	13/05/2019	15/07/2019	4
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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
Zensar RPG Foundation	26/08/2019	Soft skills Aptitude Training SQL PLSQL Training Core Java Training	40
Tata Consultancy Services Ltd	16/10/2019	Soft skills and Hard skills training	57
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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
179.65	43.23

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Campus Area	Existing
Class rooms	Existing

Laboratories	Newly Added
Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Seminar halls with ICT facilities	Newly Added
Classrooms with Wi-Fi OR LAN	Newly Added
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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
SLIM 21	Fully	3.2.0.34693	2014

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	8638	3549349	64	531530	8702	4080879
Reference Books	803	397116	10	4711	813	401827
e-Books	130	0	44	0	174	0
Journals	35	151516	0	83241	35	234757
e-Journals	1	143016	0	72216	1	215232
CD & Video	735	0	29	0	764	0

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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	305	10	40	1	1	1	4	40	0
Added	0	0	0	0	0	0	0	0	0
Total	305	10	40	1	1	1	4	40	0

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

40 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
168.12	75.75	216.99	183.39

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)

The physical and academic support facilities/ services are maintained through contracts placed by Central purchase committee of Samstha and are utilized by the institute as per policies decided by the CDC from time to time. Maintenance Contract for services such as transport, security, EPABX, CCTV, conservancy, cleaning of overhead tanks, garden, student mess etc. are reviewed and processed every year in the month of May/ June. Samstha's purchase procedure is followed for placement of these maintenance/ service contracts. Payments for the maintenance/ service contracts are released either monthly or quarterly. Laboratories are utilized according to the time table .Computer facilities are utilized by the students for their practicals, projects, online tests, etc. Wi-Fi facility is available in the institute throughout the campus. Lab maintenance committee solve the technical problems of each lab, the complaints go to HoT(Head of the Task) of the team and then action taken by committee member. Sport fields are utilized throughout the year. Wing A ground is made available for volleyball and wing B ground for kho-kho. Special room is available for table tennis, chess, carom practice etc. in wing B. Coaching is provided to the students participating in various sports events. Sports HoT team prepared students for various university level competitions. . Classrooms are utilized throughout the day for teaching and seminars of the respective subjects also conducting Technical CRT classes ,aptitude tests or extra lectures for the backlog students . Classroom has projector facility which helps to show videos and others ICT tools. Library is utilized throughout the year and is open for all during college hours. The books are issued or returned to the students with the help of the automated library software called SLIM21.At the end of the year library stock is manually verified by departmental faculty and library committee. The instruments and machines procured are utilized in the institute for the academic purpose like experimentation, development and project work in different laboratories. If the equipment malfunctions within the warranty period, it is sent to the vendor for repair or replacement as per warranty conditions .Dead stock verification for the instruments, furniture is done every year. Authorized agency is called for maintenance of equipment like Gen-Set. The maintenance department checks the classrooms, laboratories, staff rooms, rest rooms in the college and hostel for civil and electrical maintenance and performs the necessary repairs for faults. The cleanliness of the campus is maintained by the cleaning agency. Garden and lawn maintenance is carried out by a gardening agency hired by the Samstha. The

other support facilities such as lift, CCTV, WiFi, EPABX and other IT equipment are maintained through respective contracts. The networking system management is done in-house.		
https://cumminscollege.edu.in/Downloads/Policy%20Documents.pdf		

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	Samstha Scholarship	265	4741038
Financial Support from Other Sources			
a) National	Samaj kalyan,CIL, Presistent,LPF	275	12632236
b)International	0	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
Yoga	15/07/2019	60	CCoEW
Personal Counseling	13/09/2019	194	Neuflex(Mobiusutra) Talent solutions Pvt ltd
Bridge Courses For Mech(Even SEm	09/12/2019	60	CCoEW
Bridge Courses For Mech(Odd SEm)	17/06/2019	60	CCoEW
Bridge Courses For ETC(Odd Semester)	24/06/2019	43	CCoEW
Bridge Courses for CE(Even Semester)	09/12/2019	132	CCoEW
Language Lab	08/08/2019	82	CCoEW
Remedial Coaching ETC,CE,Mech	16/08/2019	21	CCoEW
Remedial coaching first year	03/02/2020	20	CCoEW
Soft Skill Development	12/07/2019	98	Neuflex(Mobiusutra) Talent solutions 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 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	Manmaths Academy Aptitude Guidance	98	0	83	27
2020	Neuflex Carrier Counselling	0	194	0	27
2019	Institute level Carrier Counselling	0	194	0	27
			View File		

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

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

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Nameof organizations visited	Number of students participated	Number of stduents placed	Nameof organizations visited	Number of students participated	Number of stduents placed
31	653	25	2	11	2
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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	1	BE(Cummins College of Engineering for Women, Nagpur)	Computer Engineering	Vellore Institute of Technology	M Tech(Computer Science and Engineering)
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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
No Data Entered/Not Applicable !!!	

5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year		
Activity	Level	Number of Participants
Cultural- Anannya(College Annual Function)	Institute	113
Sports- Anannya(College Annual Function)	Institute	135
Sports (VolleyBall) organized by Punjabrao Deshmukh College Nagpur	Institute	11
Yogasan	University	7
Volleyball	University	12
KHO- KHO	University	12
Badminton	University	5
Table Tennis	University	5
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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	Purushot tam Karandak	National	Nill	2	Nill	Krishna Lokhande,D ivya Katkar, Aditi Ambekar, Janhavi Peshkar, Rasika Bakre, Niharika Saraf, Ashlesha Ghayde, Dhanashri Barde, Maithili M andavgane, Mrunal Kakirwar, Priyanka Patil, Priyanka Parate Sayali Rathod Shreeya Thakre

2019	Loksatta Ekankika	National	Nill	3	Nill	Krishna Lokhande Divya Katkar Aditi Ambekar Janhavi Peshkar Rasika Bakre Niharika Saraf Ashlesha Ghayde Dhanashri Barde Maithili Mandavgane Mrunal Kakirwar Priyanka Patil Priyanka Parate Sayali Rathod Shreeya Thakre Mrunmayee Deshpande

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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)

Student Council of the college is an elected body which joins hands with college administration to ensure holistic development of the students and college as well. Student council constitutes General Secretory, assistant GS, Technical committee head, Creative committee head, Event management committee head, sports committee head, backstage and art committee head, Anchoring committee head and Magazine committee head. A student council member along with the faculty coordinators organizes various co-curricular, extracurricular and different cultural programmes. The students enthusiastically organize and participate in various cultural events. Cultural incharge, General Secretary, sports and Technical committee head play major role in the organization of the annual multifaceted event 'Anannya' of Cummins College. The Council also organizes various programmes through out year to observe the important days such as "Guru Pournima", "Engineer's Day","Teachers Day","Dahi Handi", "Umang-Dandiya","Republic Day","Independence Day"etc. in the college campus. "Dahi Handi" is one of the festive and adventure sport event during the festival Gokulashtami. This year our students participated in dahi handi competitions organized by organizers in Nagpur and hingna and have won prizes. The sports committee head organizes various intercollegiate sports tournaments at the time of cultural event ANANYA. Our students not only participate in intercollegiate sports in town but also take part in samstha level sport competition 'Damini'. The magazine team under the guidance of magazine committee head, publishes

college magazine Yugandhara.The processes like collecting the material, editing, designing and publishing are conducted by students. The treasurer along with assistant treasurers takes care of the budget planning and expenses required for various events. There are various Departmental technical events and technical clubs run by the students in the institute. The elected members and other student volunteers run the events organized under these clubs. Computer engineering department runs Security Club, Student Development Club and Coders Club. In security club some students got training on cyber security and they in turn conducted sessions to train other students. While in Development and coder's club various definitions are given to the students for coading practice. Mechanical Engineering department have Thermo aspirants club, Mechanical Engineering Girls Association (MEGA), ISHRAE National Student Chapter. Various academic and social activities like camps, webinars and competitions are organizrd by Thermo aspirants clubs and MEGA. Technical workshops, trainings, guest lecture and industry visits are organized under ISHRAE. ElectronicTelecommunication department have Technoformers and Rise and Shine.In technoformers, latest trends and technologies are disscussed. Final year students conduct sessions for juniors to teach programing skills for different programing languages.GD sessions, aptitude training, softskills and HR interview techniques are conducted in Rise and Shine club. Various academic and administrative bodies that have student representatives on them are" Internal Quality Assurance Cell (IQAC) "- The General Secretary and Cultural Secretary is members of IQAC. They provide the feedback on various student issues and contribute towards improvement in the institute's working. "Anti-ragging committee" - One fresher student representative, some hostelite and some localites are members of the committee.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

No

5.4.2 – No. of enrolled Alumni:

517

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

0

5.4.4 – Meetings/activities organized by Alumni Association :

A) Cummins Alumnae day is celebrated every year on the 1st Sunday of August. As all Alumnae of Cummins are spread across different geographical locations, so our Alumnae meet is celebrated on this day at the respective locations. One of the Alumnae from each city, they are spread to, takes the lead in arranging the gathering from that particular place accordingly. The main purpose is to meet and share their experiences. This year Cummins Alumnae Day is celebrated on 4/8/2019. Alumnae from Nagpur, Wardha, Jamshedpur and Mumbai gathered respectively. Pune and Hyderabad Locations Alumnae couldn't meet because of heavy rain. B) Alumnae meet was held on 24/1/2020 at Cummins College Campus, Nagpur. 25 alumnae attended the meet. C) Sessions arranged for the students by alumnae. 1. A session on How to get ready for industry was taken by Ms Uttara Joshi on 10-2-20 for third and final year students of CE dept 2.A session on Preparation for higher studies in foreign Universities by Divya Adibhattala on 31-1-20 3.A session on Industry Work Experience by Mugdha Jahagirdar and Bilva Khaprde on 17-2-20

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)

Institute has implemented following two practices of decentralization and participative management 1. Institute has adopted new policy of decentralization through HoT system instead of HoD. All the tasks in the academics were assigned a head known as HoT (Head of the Task). Various tasks identified are as Dean academics HoT Academics HoT Examination HoT Cultural Activity HoT Research Development HoT Industry Institute Interaction HoT Training Placement HoT purchase Committee ,etc. For example: Examination committee is formed by members from each department. This committee will ensure the proper conduction of examination. One faculty from each department will be HoT Examination and will look after the examination related activities of the department. He will coordinate for various tasks such as preparation of exam time table, execution of internal and external exam , evaluation of the answer sheets, display of the result in each department in stipulated time period , compilation of internal marks, uploading of marks on university exam portal etc. Every department will have one HOT AC (Academic coordinator). The important work of HOT AC is to ensure proper execution of academics in the department. Dean academics regularly monitor the academics in all the departments through weekly reports. There are regular meeting of all ACs , dean academics with principal sir. The activities to be conducted in the department are planned in the meeting. Academic coordinator then conveys the policies and decisions taken in a meeting to all faculties of the department. 2. ANANNYA – Institution conducts annul cultural festival known as " Anannya". This is completely planned and executed by the students of the college. At the start of the session the institute conduct election in which GS (General Secretory) , AGS (Assistant General Secretary)and also many committee members are elected. The committees are stage committee, event management committee, technical committee, sports committee etc. The complete planning of Anannya is done by GS, AGS and all committee members. Various committees are formed in which student coordinators takes the responsibility for the execution of the tasks given. For example : Sport coordinator will plan and execute all the sports related competitions. Likewise all the events are planned and executed by the respective committee members. Faculties only do the supervision for smooth conduction of all events.

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

No

6.2 – Strategy Development and Deployment

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

Strategy Type	Details
Curriculum Development	Faculties give suggestions for their respective subject for curriculum development. Principal, being a BOS member for Electronics Engineering department of the university. He receives the input from all faculty members regarding development in the curriculum and conveys the same to the respective departments of the university. Last Year College has organized curriculum development workshops for faculties on Applied

	Physics in association with University. The workshop was attended by many faculties of various colleges. Every faculty arranges the expert lecture of industry person for each subject in every month for covering topics beyond syllabus.
Teaching and Learning	College emphasis more on experiential learning of the students by giving exposure to them for various Hackathons, Workshops, Project Competitions, etc. To develop the problem solving attitude among students Activity based learning was implemented in which every student has assigned activity by every subject teacher. Each faculty submits the weekly report to academic dean ensuring the proper execution of academic activities. In the even semester of last academic year due to pandemic situation all lectures were conducted online through UpGrad , Google Meet and Zoom platforms.
Examination and Evaluation	Sessional exams for continuous evaluation of students are conducted twice in a semester. After examination discussion on model answers was conducted in a class to give the idea of marking scheme in university to students which helps the students to score in university examination. In pandemic situation Sessional-II was conducted through online mode on College Exam Portal. In this Sessional 99.99 percent students appeared for exam. The result of which was conveyed to parents through PTM (Parents Teachers Meet).
Research and Development	Institute has established RD Cell for faculties and students to inculcate the research mind-set among them. For Smart India Hackathon participation, college conducted internal evaluation of project ideas. Best among them were submitted to next level. 3 faculties have completed doctoral degree, 6 are pursuing among which 2 are pursuing from NIT. Workshops for Research paper writing, Patent filling were conducted every year. Financial assistance is given to faculties for publications and attending conferences.
Library, ICT and Physical Infrastructure / Instrumentation	Last year 44 new e-books, 64 new text books, 10 reference books,29 CD's were added to existing library. Webinar room created in an existing reading room.

	Special facility of Book bank scheme is given toner about 35 students in which every student can keep 5 books for complete semester with nominal charges. 4 Smart Classrooms were created in which Smart Boards were installed to play multimedia, show graphics, to record the lecture for future reference of students. Wi-Fi facility is available in every classroom and hostel premises
Human Resource Management	Academic coordinator prepares a load distribution for theory and practical one month before the start of each semester taking into consideration the scheme for the semester. Faculty requirement so generated is communicated to principal. If any additional faculty is required then Advertisement is given and interviews are conducted by expert committee members. After appointment faculty will have a probation period of 2 years and confirmation is given according to their performance. College deputes faculties to attend STTP, FDP, Workshops, Seminars, Training Programs to upgrade their knowledge.
Industry Interaction / Collaboration	Institute gets CSR funds from Industry to establish various advance technology labs. Institute has signed MoU with TCS, Persistent, RPG Group and many Nagpur based industries. Through these MoU,s 3 faculties have undergone training of Agile Methodology in TCS. RPG Foundation has conducted workshop on AI/ML for faculties and students. Final year students work on the live industry problems given by Persistent and many industries. Industries also nominate mentor to carry out projects. Internships were provided to 133 students from 2nd, 3rd year in near about 42 companies. 10 students from college have done project under GIZ.
Admission of Students	For Admission the institution takes into consideration the marks obtained by students in qualifying exam (XIIth Standard) to form the classes of first year. As per AICTE guidelines we conduct 21 days orientation program for new entrants. The department of Allied Sciences assesses the learning levels of the students on the basis of Tests / assignments, response in class, laboratory-viva etc. to identify advanced learners and slow learners.

	The class average in the test marks forms the basis of deciding slow/ advance learner. Further, help of external agencies such as Intrivium by Viragh Microsystem and AMCAT by Aspiring Minds is taken to assess student's level in subsequent years.

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

E-governace area	Details
Administration	G-Suite for official communication all educational tools offered by Google. (Classroom, Google Meet etc.)
Finance and Accounts	All financial data managed by Tally Software.
Student Admission and Support	1. For Admission Web Portals provided by Maharashtra Government for First Year Direct Second Year Admissions. 2. For Scholarship Freeship student get DBT from Samaj Kalyan Website 3. For Library Book Issuing, Returning Inquiry WebOPAC SLIM21
Examination	1. Internal Examination Conducted on Portal created by RG-VP Web Solutions.(Available on Website) 2. Nagpur University has its own portal for display of result filling of internal marks of students.

6.3 – Faculty Empowerment Strategies

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

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	Sushil Lanjewar	STTP on Additive Manufacturing (3D Printing) and Subtractive Manufacturing (CNC Prragramming)	YCCE	1500
2019	A. Baseshankar	workshop on Agile Methodology And Design Thinking	IEEE	3000
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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	Title of the administrative	From date	To Date	Number of participants	Number of participants

	development programme organised for teaching staff	training programme organised for non-teaching staff			(Teaching staff)	(non-teaching staff)
2019	College Conducted the FDP for Faculties of Mr. Bhooshan Kelkar	Nill	08/12/2019	08/12/2019	26	Nill
2020	Training to Faculties to Conduct Online Sessional -II Exam	Nill	14/05/2020	14/05/2020	30	Nill
2020	FDP on Campus wide Matlab tools	Nill	23/04/2020	24/04/2020	20	Nill
			[View File](#)			

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
Workshop on Exam Reforms by AICTE1	1	29/04/2020	02/05/2020	4
FDP Cummins Webclave	6	29/05/2020	04/06/2020	7
FDP on Campus wide Matlab tools	7	23/04/2020	24/04/2020	2
		[View File](#)		

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
21	36	28	31

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
o Employees Provident Fund: as per PF rules looking at the future	o Employees Provident Fund: as per PF rules looking at the future	o Reimbursement of Membership fees for the professional bodies: The

safety of employees, the institute contributes specific amount towards PF of an employee as per PF rules. o Mediclaim- Health Insurance: As for the health insurance, samstha provides cashless Medi-claim for the employee and his/her family. o Gratuity: is applicable to every staff after five year of permanent service. o Full paid Maternity Leave: Samstha provides 180 days full paid maternity leaves to its all-female Employees during pregnancy. o Fee concession towards of economically weak staff: The provision is made for financial support to economically weaker staff of samstha in the form of fees concession to their wards. o Encashment of Earned leave at the end of service: At the end of service of an employee, he/ she can en-cash his/ her earned leaves as per the rules of samstha. o Timely Credit of Salary to bank account of employee: In each month, the employee gets the salary on time through bank accounts only. o The samstha credits the salary on time every month irrespective of the due scholarship are received from Samaj-kalyan or not. o Medical leave en cashment Facility of encashment of balance medical leave to ad-hoc faculties is available at the end of academic year o Festival advance Non-teaching staff can avail interest free festival advance up-to Rs. 15,000 repayable in 8 months

institute has the provision of reimbursement of membership fee of any professional body provided he/ she publishes a research paper within a year in the concerned professional body.

6.4 – Financial Management and Resource Mobilization

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

College budget includes recurring expenses such as salary, electricity and internet charges, equipment and facilities maintenance cost, stationary and other consumables etc. It includes planned expenses such as lab equipment purchases, furniture and other development expenses. Budget is scrutinized and approved by CDC and Management Committee. Accounts department and purchase department monitor whether expenses are not exceeding budget provision. There is a separate internal audit department of MKSSS, which monitors proper utilization of finances. Internal Audit was conducted by "K K MANAKESHWAR Co." external Audit was conducted by "G D Apte Co." for the financial year 2019-20.

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
Cummins India Ltd, Sai Printers, Jeshtha Nagrik Sangh, Kiran Construction, Tirupati Urban Bank, IETE, IEEE, NSS, Bhaubij Nidhi	7320085	Overall development of students

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6.4.3 – Total corpus fund generated

137133235

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	LEC ,RTMNU	Yes	Dean Acdemics
Administrative	Yes	G D Apte Co.	Yes	K K Manakeshwar Co.

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

1. All the departments conduct Parent teacher meet after each sessional exam. Parents give their valuable feedback on the curriculum and suggestions for improvement 2. one parent representative is designated as a member for anti-ragging committee which helps to curb the ragging incidents if any 3. Representative from parent is selected for IQAC committee, who gives suggestion towards quality improvement

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

1. Workshop was conducted for MS excel 2. Seminar was conducted on V lab 3. online training was given for claim settlement for scholarship

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

1. Internal IQAC meeting after two months for assessment and improvement in quality education 2. Buddy system for mentoring. 3. Webinars for faculties to know about latest industry trends

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	Establishment of advance software lab	17/07/2019	17/07/2019	17/07/2019	17
Nill	Establishment of Lab View Lab	17/07/2019	17/07/2019	17/07/2019	17
Nill	Amendment in SoP for project	12/02/2020	12/02/2020	12/02/2020	15

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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
International Womens Day	06/03/2020	06/03/2020	250	30

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
1. Installed the Solar Water Heater at Hostel 2. Common Bus Facility for students 3. All the light are replaced with LED bulbs or LED tube-Light for Less conservation of Energy 4. Purified water obtained from STP plant is reused for garden 5. Every year tree plantation drive is taken by the college.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	20
Provision for lift	Yes	15
Ramp/Rails	Yes	350
Rest Rooms	Yes	20

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational	Number of initiatives taken to engage with	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff

	advantages and disadvantages	and contribute to local community					
2019	1	1	20/06/2019	1	Tree plantation	Tree Plantation	40
2019	Nill	1	01/06/2020	1	Employment of local persons as security guards	providing support to local persons	10
2019	Nill	1	01/06/2020	1	Employment of Conservancy peoples	providing support to local persons	12
2019	Nill	1	01/06/2020	1	Employment of Garden maintenance people	providing support to local persons	4

[View File](#)

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	01/06/2019	Institute has formulated Code of Conduct to improve overall development of students and teachers by creating effective teaching-learning atmosphere. It promotes the professional behavior and academic integrity. The reputation of institute depends on the academic performance as well as on behavior of the students. Our Motto is Sharpening Engineering Acumen of women with a Difference. "To develop women professionals who are academically and technically sound with strong work ethics and above all good human beings". The purpose of this code of conduct is to make the students and teachers familiar about the rules and regulations

	of the institute and to progress towards the achievement of the mission and vision of the institute.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Induction Orientation Program	15/07/2019	23/07/2019	60
Road Safety Awareness Programme	04/02/2020	04/02/2020	200
Cyber Security Awareness	07/01/2020	07/01/2020	200
OLAWA foundation	06/03/2020	06/03/2020	200
View File			

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

1. Greenery, 2. E-Waste Management, 3. Focus on E-Governance, 4. Energy Saving Campaign, 5. Plastic free campaign 6. CAR pooling 7. Common Bus facility 8. No Vehicles allowed to Hostel Students 9. Waste Water Treatment Plant

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best Practice 1 1. Title of the Practice Industry based projects. 2. Objectives of the Practice Quality Assurance of the institute establishes a process by which projects are evaluated to determine whether they are compliant or "at risk." We are working for the quality project, and by the direct involvement of the industry into the students project it is beneficial to maintain the quality working and also to major the progress of the projects. It gives the outcome which required to the industry as per the suggestion received from the experts. 3. The Context Now a days, Students are only doing the project for the completion of their final year assessment but they do not want to involve technically or conceptually in to the projects. Even they do no know the basic concepts and logic for the same. To remove this factor from our students we started this activity. For that the institution uses an approved Project Methodology as a baseline for this evaluation. In addition, an institute recommends specific action steps for the projects. Institute also implements a procedure for performing a follow-up reviews. 4. The Practice This review process occurs within month with industry expert and discussion on the problem statements of the students Experts ask the questions about the progress, time line, technology platform and implementation etc. students explained to the experts about the same, students also discuss the solution and implementation factor with the expert. The Both side communication is helpful to get the knowledge and solve the problem. This is a layered approach, which allows the Review Team includes the expert and faculty members to provide advice and counsel to project teams after citing findings during one to one discussion. 5. Evidence of Success: - As a result many of the Industries approach for the projects as well as the industry persons come for the discussion with the students by this activity. - Students take the benefits of the same for their futuristic development and project selection - Many industries are helping towards the project selection. 1. Mr Vinod Khode- Cummins India Limited 2. Mr. Pratap Shukla- MD, Take it Ideas Solution 3. Mr. VEDISH SEHAJPAL- Industry expert in AI, from Norway 4. Mr. Preetesh Bhandari - HR, Johari Digital Pvt. Ltd 5. Involvement in Project of the Indian Railways 6. Involvement to solve

the problem of the Dr. Panjabrao Deshmukh Agriculture University. 7. Projects sanctioned through ViBha program known as 'Pragati' are regularly reviewed by experts from industry which are giving the test cases. 6. Problems Encountered and Resources Required: Following issues are observed in the industry based projects – I. Industrial mentor is not able to give sufficient time to students II. Sometimes funds are required for creations of prototypes III. Industry should implement the feasible solutions given by students Best Practice 2: 1. Title of the Practice: Financial Support to the students 2. Objectives of the Practice: • To motivate meritorious students for higher studies • To provide financial support to needy students • To motivate students for excellence in studies 3. The Context The institute, with its vision to empower women through education is continuously working on making women education affordable to needy. Students admitted to the college are from varied background and from different regions. Financially weak students are not capable of paying tuition/ hostel fees and other fees. Hence such students are required to be supported financially for continuing their education. With this objective various scholarship programs have been initiated by college, parent organization and Cummins India foundation to support needy and deserving students viz Cummins nurturing brilliance scholarship, Persistent Scholarship, Paranjape scholarship and MKSSS Scholarships. 4. The Practice I. Cummins Nurturing Brilliance Scholarship: This Scholarship from Cummins India Foundation is awarded to students from socially and economically disadvantaged background for pursuing diploma/ degree in Engineering or any other professional degree programs. The Scholarship includes the tuition fees, examination fees, expenses for stationary and books. Students are also gifted with a laptop. At the beginning of every academic year, students register online to submit their academic progress and proof of family income for getting the financial support. For selecting needy and deserving students, aptitude test is conducted for all the aspiring eligible students. Students shortlisted in aptitude are interviewed by Expert committee from Cummins India limited to select the beneficiaries. II. Paranjape Scholarship: Manav Seva foundation had donated to Samstha in the name of Mr. Paranjape to help needy and deserving students of the institute. At the beginning of every academic year, students apply for financial assistance at the institute along with their academic progress and proof of their family income. Based on the submitted documents, students are shortlisted for interview. A college committee conducts interviews to select needy and deserving students who are given financial assistance from the interest amount earned from the deposit of the donated amount by Manav Seva foundation. III. Scholarship by Persistent foundation: "KIRAN": Girls scholarship program a. First year engineering girls pursuing computer science/ IT with 70 marks in 10th and 12th standard and direct second year students with 60 in diploma having annual family income below 5 lakhs are eligible for this scholarship. Online registration and application starts in the month of August. Shortlisted candidates appear for first and second round of interview. IV. Free-ship by Samstha: Maharshi Karve Stree Shikshan Samstha provides a financial assistance to needy students by providing free-ship in their tuition fees/ hostel fees/ bus fees based on their academic achievements and financial conditions. V. Donations in kind by Philanthropists: Donations in kind received by samstha from time to time are also utilized for giving financial support to the most needy and deserving students of the institute. 4. Evidence of Success: The students benefitted from various scholarships are doing well in their studies and completing their education with good academic record without any financial hurdle. The number of eligible students and the sanctioned amount per year is listed below. Sr no Year Name of the Scholarship No of Students Amount 1 2019-20 Scholarship by Maharashtra Gov. 228 1,05,07,091.50 2 2019-20 Cummins Scholarship 35 1635145.00 3 2019-20 Paranjape Scholarship 10 1,04,300.00 4 2019-20 MKSSS Scholarship 265 47,41,038.00 5 2019-20 Leena Poonawala Scholarship 10 4,10,000.00 6 2019-20 " Kiran" Scholarship by Persistent 2

80000.00 6. Problems Encountered and Resources Required Large number of students requires financial assistance to continue higher education. But fund allocation is limited and hence institute is not able to help all needy and deserving students.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link
https://cumminscollege.edu.in/Best_Practices_new.pdf

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

Maharshi Karve Stree Shikshan Samstha's (MKSSS) Cummins college of Engineering for women, Nagpur is working towards empowerment of women professionals who will be academically and technically sound along with strong ethics. Institute's distinctiveness is elaborated in following paragraphs – • Institute has a parent Samstha like MKSSS, which has management members from Industry who have dedicated themselves to social cause. • The Samstha has legacy in women's education for last 125 years. • Another important distinctiveness of the institute is its association with a multi-national corporate house like Cummins India Ltd. • Cummins College gets technical and financial support from Cummins India Ltd. • Cummins College would like to be recognized for sharpening engineering acumen with a difference. • The exposure of students to the latest engineering applications through industrial training and internship along with training for ethics and human values making them a good citizen and then a professional is the distinct feature of the institute. The institute's activities towards its distinctiveness are enumerated below – Many times due to lack of financial support girls are not able to afford engineering educational costs. Cummins College especially runs various scholarship programs. The most distinct to be named is Cummins Nurturing Brilliance Scholarship, which fully supports the students making them worry-free of finances for education and helps them to excel in their engineering program. The association with engineering company has given strong technical support providing working models of engines and Ansys software for CAE, which an important asset to an upcoming institute. Institute works towards empowerment of women professionals through education, innovative training of life skills and job skills for pioneering the entry of women in latest technological areas and job domains. Cummins College runs PTC approved CAD course on Creo2.0 exclusively for its students. The one area where our performance had been distinct is in our efforts in enhancing employability, giving maximum opportunities for placements to our students. From the CSR funds received from Cummins India Limited we have established Lab-view lab, Campus wide Matlab and advanced software lab. Normally, dream status and core companies do not visit engineering campus placement drive in Nagpur. However, institute has made available opportunity through pooled campus in these companies. Many students are benefited by this initiative. Till date, 75 companies are associated with us for campus placements and have picked up more than 110 students. Our placement spread is over 35 different such companies all over India most of which are core engineering MNCs. To name a few companies such as Cummins India Ltd, Becton Dickinson , Ubisoft, Optum, Accenture, GE, Mahindra Mahindra, TCS, HSBC, Eaton Ltd, Mahale Behr I P Ltd, Rane Holdings, Wipro, IBM, AUV technologies, Infosys etc. We are also having the Incaution center of MSME to promote the entrepreneurship environment in the institution. This year due to pandemic situation we have completed the remaining syllabus by switching to online mode and also conducted sessional exam on line .

Provide the weblink of the institution
http://www.cumminscollege.edu.in/what-makes-ccoew-different.php

8.Future Plans of Actions for Next Academic Year

For the year 20-21, we have following action plan - Curricular Aspects: To increase the awareness about the latest technologies in sensors, recent trends in research, our institute has decided to host International conference on sensors and transducers in the month of DEC 2021. This will take the name of institute to an international level. Institute is planning to establish the center of excellence in the field of Aerospace at the college with the help of Vidarbha Defence Industrial Hub and Dassault Systems India Pvt. Ltd. Teaching, Learning and Evaluation: The institute is planning to do enhancement of department laboratories for Industry 4.0, in the field of robotics, IOT. Students will be encouraged to make extensive use of Matlab and Labview lab for project work. In order to enhance students and faculties on various topics supporting to the existing syllabus and beyond syllabus, it is decided that every student and faculty should undertake at least one MOOC every semester. Faculty should try to create a MOOC in their subject expertise. Due to pandemic situation the institution is conducting online classes. Institute is now recognized as "Nodal Center" for virtual lab. For conduct of practical of various subjects it is decided to use Virtual lab extensively where students can perform various experiments which they would have done physically. Research, Innovations and Extension: Research and development cell requires momentous improvement. The faculties are encouraged to publish at least two research papers annually and students are also encouraged to present their project work at suitable conference or publish the work in reputed journal. It is planned to establish more collaborations with industry in order to increase interaction of the students with industries. It is obligatory for each department to work towards getting funded projects from various government agencies or organizations Infrastructure and Learning Resources: To increase the library usage, it is decided that the activity of research paper reading and discussion on recent technology should be carried out in each class. Library department is planning to conduct various competitions regarding handwriting crossword puzzles etc. Student Support and Progression: Institute has decided to arrange more skill development training programs for students and faculties so that they can keep themselves updated. To promote lifelong learning students should go for higher studies and hence institute has decided to take activities to provide trainings for competitive exam such as GATE, CAT, GRE etc. Institute is conducting classes for foreign language such as German, French etc. Governance, Leadership and Management: As a post NAAC quality improvement initiative it is decided to organize a national level workshop on "Pedagogy quality enhancement through experiential learning". Institutional Values and Best Practices: Institute is planning to carry out more extension and outreach activities in the nearby villages. It is planned to carryout house to house survey to know the exact need of villagers. Based on it institute will plan various developmental technical activities in association with Unnat Bharat Abhiyan in the villages Pipaldara, Mandva, Salai Mendha, Lakhmapur and Nagazari.