



## Yearly Status Report - 2018-2019

### Part A

#### Data of the Institution

<b>1. Name of the Institution</b>	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, 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)		<a href="https://www.cumminscollege.edu.in/Downloads/MOMofIQAC2Dtd8Feb2018.pdf">https://www.cumminscollege.edu.in/Downloads/MOMofIQAC2Dtd8Feb2018.pdf</a>			
4. Whether Academic Calendar prepared during the year		Yes			
if yes,whether it is uploaded in the institutional website: Weblink :		<a href="https://www.cumminscollege.edu.in/academic-calender.php">https://www.cumminscollege.edu.in/academic-calender.php</a>			
5. Accrediation Details					
Cycle	Grade	CGPA	Year of Accrediation	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	

Participation in NIRF	12-Dec-2018 1	413
Regular meeting of Internal Quality Assurance Cell (IQAC)	14-Nov-2018 1	18
Regular meeting of Internal Quality Assurance Cell (IQAC);	17-Jul-2019 1	18
Feedback from all stakeholders collected, analysed and used for improvements	29-Sep-2018 1	340
Feedback from all stakeholders collected, analysed and used for improvements	30-Mar-2019 1	340
Academic Administrative Audit (AAA) conducted and its follow up action	06-Sep-2018 1	35
Academic Administrative Audit (AAA) conducted and its follow up action	22-Sep-2018 1	35
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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
<b>No Data Entered/Not Applicable!!!</b>				
<b>No Files Uploaded !!!</b>				

**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)**

Creation of Webinar room under control of library Implementation of Activity based learning for subjects Refinement in internal examination pattern Bench mark set for course outcome evaluation

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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
Establish rapport with MSME for getting internship	Hundred percent internship for third year students
Analysis of Course and feedback forms	Department wise meetings were held for achievement of course outcome and faculties plan their lessor plan according to it
Formats for weekly report and monthly report was modified	Industry interaction was increased through guest lectures, visits, collecting problem statements
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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 ?**

Yes

Date of Visit

28-Sep-2018

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

Yes

Year of Submission

2019

Date of Submission

28-Feb-2019

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

No

**Part B**

**CRITERION I – CURRICULAR ASPECTS**

**1.1 – Curriculum Planning and Implementation**

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

Cummins College of Engineering for Women, Nagpur follows the curriculum designed by affiliated RTM Nagpur University with its own well-planned and strict implementation schedule. The Academic Calendar is designed by institute well in advance. It ensures timely completion of syllabus, projects, industrial visits, exams & evaluations, CRT, TCRT, Communication skills trainings and sports activities. It also includes schedules for important events which are to be conducted throughout the semester. Department-wise Time tables and load distribution are prepared well in advance according to the teaching scheme of University. Subject distribution is done according to the specialization and choice of the faculties. All electives are offered to students to make their choices. Lesson and Teaching plans (LP/TP) includes Tutorials & Assignments dates and details of activities, ICT Tools used by the faculties along with the regular syllabus. There is a provision for student hour in the time table. During student hour various personality development related activities are conducted by students on the topics beyond syllabus. The institute advocates for Activity Based Learning for better comprehension; hence, the details of activities conducted by faculties are also included in their LP/TP. Institute strongly believes in outcome based education. Therefore, course objectives and outcomes are communicated with the students by each faculty in the first lecture and are displayed in the classroom. The institute also organizes various guest lectures by experts from industry and academia. The institute organize 21-days Orientation program for new entrants and one week workshop for second year onward students before the commencement of the first/ third semester. The institute monitors syllabus coverage and backlogs through Weekly Reports. In the mid of the term, the syllabus completion report is submitted by each faculty. The evaluation system includes sessional exams, assignments, seminars, class tests, and group discussions. Two sessional exams are conducted; one after coverage of 50% syllabus and other after 100% coverage. Discussion on question paper is held by the respective faculties immediately after the subject exam. In this faculties discuss about the model answers and the common errors done by students. This practice is carried out for the first and second year students only. Re-sessional exams are conducted for students scoring less than 60% marks or absentees. The Parent-Teacher Meet is organized twice in a semester i.e. after Sessional exams results. Project is an important part of engineering curriculum and institute is very keen about the selection and development of project. More emphasis is given for selection of multidisciplinary project. Project reviews are held every month to ensure timely execution of projects. The institute has well organised summer internship program for students. The institute has Teacher-Guardian System to help the weaker students to excel in their studies, take regular feedback about their preparation for exams and placements, etc. The 'Documentation Committee' conduct academic audit twice in semester to ensure if everything is going as planned. The institute receives feedback from its major stakeholders - Students, Parents, Employer and Alumni and take required actions for improvement if required.

#### 1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entrepreneurship	Skill Development
Creo Parametric	Nil	08/10/2018	40	employability	Design and modelling skills

#### 1.2 – Academic Flexibility

##### 1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
<b>No Data Entered/Not Applicable !!!</b>		
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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	27/06/2018
BE	ETC	21/06/2018
BE	CE	11/06/2018
BE	CE	01/10/2018
BE	ME	20/06/2018
BE	ME	24/12/2018

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

	Certificate	Diploma Course
Number of Students	20	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
Workshop on Solar Panel (PV) Installation And Maintenance	19/06/2018	34
Workshop on Hands on Training on Embedded System and IoT Based Application	18/06/2018	26
Workshop on Embedded System	13/12/2018	38
Workshop on Network Simulator	13/12/2018	22
Five Days Android Workshop	18/06/2018	27
Five Days workshop on Hands-On PHP	18/06/2018	24
One week workshop in Programming in Python and Hadoop	11/06/2018	12
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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	Field Project( PRAGATI)	6
BE	HACKETHON IndNX-4.0	44

BE	Internship	115
<a href="#">View File</a>		

#### 1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	
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	<p>The institute considers feedback as a vital part for improvement of the institute. It has a very strong feedback mechanism where feedback is collected, analyzed and communicated to the concerned persons at regular interval. The information collected through feedback provides valuable inputs for further improvement and suitable actions are taken as when needed. The feedback is collected through the stakeholders of the institute such as students, parents, alumni and employer. Students are the main stakeholders of the institute and provide feedback about Teacher's efficiency, Course Outcomes and the various guest lectures, workshops, seminars and events conducted throughout the year. Teacher's Feedback is strictly confidential. This feedback is collected through pen-paper method and submitted directly to the Principal. Principal discusses the corrective action with the concerned faculties and takes the required action, if needed. Principal takes due care that feedback is not be considered as a negative criticism by faculties and it is just an input for improvement in teaching learning process. At the end of the semester, feedback is collected from students about Course Outcome. This feedback form is analysed by subject teacher and required actions are taken by concerned faculty. The institute also collects feedback about the various workshops, seminars, guest lectures and events which are conducted throughout the year. This feedback is used for further planning of bridge courses, value added courses and other coursed which will be helpful for the professional development of the students and inculcate human values in them. Parents are one of the most valued stakeholders of the institute and their feedback is a robust tool to create a healthy physical and social environment in the institute. The feedback from parents is taken during Parent-Teacher's Meet (PTM). The PTMs are organized after declaration of every Sessional Exam results. Parents who are unable to attend PTM can download feedback form from institute website and mail it to concerned person. The institute also collects feedback from its alumnae. This feedback is also helpful for collecting information about the present status of the alumnae. The institute plans 'Alumnae Meet' at least once in a year. This feedback is collected at the time of Alumnae Meet. Alumnae can also post their feedback directly on institute website. This feedback is collected and analyzed by Training Placement Department. The next valuable stakeholder of the institute is the employer and hence the institute gives due importance to feedback collected from the employer. This feedback is basically about the alumnae who are/were working with their organization. The employer rate the alumnae of the institute on 5 point rating scale on different skills and aptitudes like Technical and Managerial aptitude, Communication and Leadership Skills, Interpersonal skills and creativity and like. The employer can post the feedback directly on the college web site. Training and Placement Officer of the institute collects and analyzes feedback from the employer and plans</p>
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various activities to enhance employability of the students. In addition, we also have mechanism to get feedback about students from CRT trainer and AMCAT.

## 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	62	47
BE	Electronics and Telecommunication	63	14	14
BE	Mechanical engineering	63	13	9

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### 2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018	70	0	30	0	30

### 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
35	35	3	11	0	17

[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)

The Institution has Teacher-Guardian scheme for mentoring students where up to 10 students are assigned to one teacher. Student of first year is allotted to respective teacher guardian from Allied Science department of first year. As student advances in next year to her specific department the data is then transferred to the respective departmental staff and she is allotted another teacher guardian from respective department. The complete record of each student is available and updated with the teacher guardian for student's entire four years of stay in the institute. Teacher guardians are expected to be in constant touch with his/her mentee and available any time to resolve her queries and supports her to advance in career. Teacher guardian is also entrusted to be in touch with the parents of the student attached to them. Teacher guardian finds out slow and fast learners through evaluation process set by the institute. Slow learners are mentored through interactive sessions by Teacher-Guardians. Faculties take every possible effort such as conduct of remedial sessions, special assignments, Counseling, Planning of studies etc. to improve academic performance of these students. Slow Learners are also given Question Banks and Model answers. The institution insists the teacher guardians to offer a variety of academic opportunities for advanced learners encouraging them to participate in various competitions and events, entrust leadership responsibilities for events, involve them in industry based projects, nominate them for



national level conferences, help them to publish technical papers. Advance learners are encouraged to attend special EETP programs. It becomes a duty of Teacher guardian to encourage his/her students to become members of professional bodies such as IETE, ISTE, IEEE and Institution level clubs such as Thermo Aspiring Club, Mechanical Engineering Girls Association, Mech Designers club, Rise and Shine club, Techno-formers club and Coder Club etc. The advance learners are entrusted to shoulder responsibilities of Executive body and take along slow learners in the activities of these clubs. Special Mathematics tutorials are conducted for direct Second Year students to enhance their level of Mathematics. Special program is run for second and third year students to enhance their Communication Skills. When new students enter an institution, they come with diverse mind-sets and backgrounds. It is important to help them to adjust in the new environment. Further, in order to prepare newly admitted students for the professional studies, a special Orientation Program called 'Parigraha' is conducted at the beginning of the session for duration of 21 days. Special skills such as free hand sketching, Mind Maps technique, Communication, Goal setting, logic building etc. are covered in this orientation program. The orientation program – Parigraha has a special event called 'Open-up session' in which each and every student shows her hidden talent. This helps to boost confidence of advance learners and to gain confidence in the case of slow learners. The institute also has qualified counselor with PG in psychology. Students under stressful condition or those in extreme need are counseled by this counselor.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
70	30	2.33

## 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	36	0	2	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
<b>No Data Entered/Not Applicable !!!</b>			
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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	BEETE4	IV/2nd year	08/04/2019	14/06/2019
BE	BEETE6	VI/3rdyear	08/04/2019	07/06/2019
BE	BECME6	VI/3rdyear	08/04/2019	07/06/2019
BE	BECME8	VIII/Final Year	08/04/2019	07/06/2019
BE	BEME4	IV/2nd year	08/04/2019	14/06/2019
<a href="#">View File</a>				

### 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 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. Earlier Institute used to conduct two internal unit tests and one Pre-University Test during every semester. It was observed that students were overburdened. Therefore, from AY 2018-19, reform was introduced to conduct Sessional-I and Sessional-II (each with 3 units and 40 marks). This improved on better assimilation of subject by students and they could devote more time for extracurricular activities. Institute has introduced COs, POs, PSOs from academic year 2018-19 and mapping of CO, PO and PSO is carried out at departmental level by respective Academic Coordinator to evaluate Outcomes. The Action Taken Report (ATR) is generated and evaluated by Dean Academics and Principal on regular basis.

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

The Academic Calendar for the Semester is prepared 4 to 5 weeks prior to start of each semester giving due consideration to the academic schedule declared by affiliating RTM Nagpur University. Academic Calendar is uploaded on the Institution website and also displayed on all Notice boards. There is separate academic calendar for first year and second year to final year. The Academic Calendar consists of dates for commencement of classes for odd and even semesters, dates for Sessional-I, Sessional-II, mid-term submission, results dates for internal examinations, last working day, dates of major events, different celebration of days, industrial visit are also included, commencement of end semester practical etc. The schedule mentioned in academic calendar is strictly followed by the institution. The list of holidays for the Institution is separately displayed for the students and the staff well before the commencement of the semester classes to plan their teaching and CIE activities. The micro planning for project completion is done at the start of the semester with respect to academic calendar. The university communicates the specific date for internal marks submission as well as external practical marks submission on its portal. Each subject teacher uploads the respective marks on the specified date and submits its hard copy to university on given time through exam coordinator. Internal Exams are conducted strictly as per the dates declared in academic calendar

## 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://www.cumminscollge.edu.in/course\\_objects\\_and\\_outcomes\\_ALLIED\\_SCIENCE.php](https://www.cumminscollge.edu.in/course_objects_and_outcomes_ALLIED_SCIENCE.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

BEETE8	BE	E & TC	22	20	90.91
BECME8	BE	Computer Engineering	46	46	100
BEME8	BE	Mechanical Engineering	14	14	100
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## 2.7 – Student Satisfaction Survey

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

<https://www.cumminscollege.edu.in/feedback-page.php>

## 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
Any Other (Specify)	180	Cummins India Limited	21.94	19.27
<a href="#">View File</a>				

### 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
S/W Testing Methodology	CE	20/03/2018
SQL connectivity with PHP	CE	24/07/2018
Ethical Hacking	CE	25/07/2018
Hadoop and No SQL	CE	04/08/2018
Recent trends in IT	CE	29/08/2018
HTML-WEB Application Java Applets	CE	30/08/2018
Virtual /Augmented reality, Machine learning Artificial Intelligence	CE	07/09/2018
Hands on Microcontroller	CE	14/09/2018
Hands on Application Layer Protocol	CE	19/09/2018
Application of Curves and Surfaces	CE	21/09/2018
Recursive function theory	CE	24/09/2018
Workshop on wireless sensor network tools (NS2-NS3) (Bridge course)	ETC	21/12/2018
Big Data Introduction and case Study	CE	11/02/2019

Project Management	CE	09/03/2019
Wireless Communication Mobile Computing	CE	11/03/2019
8259 PIC Interfacing	CE	14/03/2019
Design Analysis of Algorithm	CE	20/03/2019
Selection of Problem Definitions from indu. Point of view	CE	22/03/2019
Recent Technologies Emerging Trends in IT Industry	CE	02/04/2019
Learn to Build App for Google Assistant	CE	07/06/2019
Hands on training on IoT application using python (Bridge course)	ETC	21/06/2019

### 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
Smart energy monitoring system	Himani Padole and group	Confederation of Indian Industry (CII)	28/09/2018	First Runner up
To resolve the conflict among the girl students about various engineering branches having field work.	Ms Ruchika Mahajan ,Meenakshi Kharwade,Mrunal Kakirwar, shreya Dubey, Vaishnavi Mohoril	HCL Girlsript summit	16/12/2018	First Runner up

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

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

### 3.3 – Research Publications and Awards

#### 3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
<b>No Data Entered/Not Applicable !!!</b>		

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

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

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

Type	Department	Number of Publication	Average Impact Factor (if
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any)

No Data Entered/Not Applicable !!!

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

No Data Entered/Not Applicable !!!

No file uploaded.

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
No Data Entered/Not Applicable !!!						
No file uploaded.						

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
No Data Entered/Not Applicable !!!						
No file uploaded.						

3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Presented papers	1	1	0	0
Attended/Seminars/Workshops	0	4	0	10
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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
Hemoglobin Checkup camp	Cummins college of Engineering in association with Jeevan Jyoti Blood Bank	4	250
Rotaract club installation	Rotary Club of Nagpur Downtown	4	300
Tree Plantation	Rotary Club of Nagpur Downtown	4	300

Swachhta Abhiyan	Jankalyankari samiti	6	15
Self Defense Training program	ABVP and Vidyanidhi Nagpur	4	100
Blood Donation camp	Jeevan Jyoti Blood Bank	4	35
Jal Saksharta Samwad	Jal Saksharta Samwad Yatra	8	30
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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
Women Empowerment	Best Institute for Women empowerment in Engineering	Optimal Media	345
Women Empowerment	Best Institute for women in engineering	Navbharat	345
No file uploaded.			

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	Jeevan Jyoti Blood Bank	Hemoglobin Checkup camp	4	250
NSS	Rotary Club of Nagpur Downtown	Rotaract club installation	4	300
NSS	Rotary Club of Nagpur Downtown	Tree Plantation	4	300
NSS	Jankalyankari samiti	Swachhta Abhiyan	6	15
NSS	ABVP and Vidyanidhi Nagpur	Self Defense Training program	4	100
NSS	Jeevan Jyoti Blood Bank	Blood Donation camp	4	35
NSS	Jal Saksharta Samwad Yatra	Jal Saksharta Samwad	4	30
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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
Nurturing innovative ideas under NAVIN project	Students of 2nd, 3rd and 4th year	Vidarbha Industrial Association and Raman Science	180

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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
Technical resource sharing	Internship	Sensor and system (Mr. Sandip Karemore)	13/05/2019	13/06/2019	4
Technical resource sharing	Internship	Heta Datain (Mr. Hemant Diddee)	13/05/2019	15/06/2019	10
Technical resource sharing	Internship	V.S. Informatics (Mr. Sandeep Sonaskar)	15/05/2019	15/06/2019	10
Technical resource sharing	Internship	Tata Motors	13/05/2019	14/06/2019	2
Technical resource sharing	Internship	Cummins India Limited (CIL)	15/05/2019	15/07/2019	4
Technical resource sharing	Internship	BSNL	27/05/2019	07/06/2019	1
Technical resource sharing	Internship	Reliance Power	16/05/2019	18/06/2019	4
Technical resource sharing	Internship	COMLUK (Mr. Ajay 9860039313)	14/05/2019	14/06/2019	5
Technical resource sharing	Internship	The Techintern	21/05/2019	21/06/2019	3
Technical resource sharing	Internship	Fab Lab (Mrs. Sayali madam 8788138850)	20/05/2019	20/06/2019	2

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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
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V. S. Informatics	13/07/2018	1) Industry visit 2) Internships 3) Live project development using industry platform 4) Technical workshos and seminars	41
PVR Engineers Pvt. Ltd.	13/07/2018	1) Metoring to students for final year projects 2) To provide live projects from industry 3) Internship 4) Training for skill development	63
AUV Technologies	13/07/2018	1) Research work leading to Hadoop. 2) Capability development of students 3) Sponsored projects 4) Recruitment 5) Workshops, seminars, conferences and events 6) Guest lectures 7) industry visits 8) Research projects	59
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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
17811861	15150261

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Newly Added
Seminar Halls	Existing
Classrooms with LCD facilities	Newly Added
Classrooms with Wi-Fi OR LAN	Existing
Seminar halls with ICT facilities	Existing
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
Others	Existing
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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 partially)	Version	Year of automation
SLIM21	Fully	3.2.0.34693	2014

##### 4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	8287	3354382	351	194967	8638	3549349
Reference Books	781	376113	22	21003	803	397116
Journals	31	68315	4	14926	35	83241

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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
<b>No Data Entered/Not Applicable !!!</b>			
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#### 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	215	8	42	2	1	1	4	42	0
Added	35	2	0	0	0	0	0	0	0
Total	250	10	42	2	1	1	4	42	0

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

42 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
<b>No Data Entered/Not Applicable !!!</b>	

#### 4.4 – Maintenance of Campus Infrastructure

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

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
18755043	12816930	78604861	78188981

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. WiFi facility is available in the institute throughout the campus. Lab maintenance committee solve the technical problems of each lab, the complaints go to HoD 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 khokho. Special room is available for table tennis, chess, carom etc. in wing B. Coaching is provided to the students participating in various sports events. Sports coordinators prepare students for various university level and Samstha 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 GenSet. 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 CCTV, WiFi, EPABX and other IT equipment are maintained through respective contracts. The networking system management is done in-house.

<https://www.cumminscollege.edu.in/mandatory-disclosure.php>

## 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	Free ship from Samstha	274	2169249.04

<b>Financial Support from Other Sources</b>			
a) National	Govt and other sources	255	11198671.5
b) International	00	0	0
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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Bridge Course by ME dept	17/09/2018	20	Astral Informatics private limited
Personal monitoring and Counselling	15/06/2018	350	CCoEW, Ngp
Soft skill Development	22/06/2018	85	Mobieusutra
Remedial Coaching for backlog and DSE girls	16/08/2018	18	CCoEW, Ngp
Language lab	31/07/2018	70	CCoEW, Ngp
Bridge Courses by CE department	18/06/2018	63	CE dept, CCoEW, Ngp
Bridge Courses by ETC dept	18/06/2018	60	ETC dept ,CCoEW, Ngp
Bridge Courses by ETC dept	13/12/2018	60	ETC dept CCoEW,Ngp
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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2018	TCRT	0	23	0	23
2018	Apptitude	0	23	0	23
2018	Soft Skills	0	23	0	23
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5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

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

## 5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
Cummins India Ltd, Grindwell Norton, Mahindra and Mahindra, GE, UBS, Microsoft, Persistent, Braclays, Honeywell, Muisigma, Faurecia, Walmart labs, Amadeus, Honeywell (software), SRF ltd, Infosys, Flipkart, Air products, Wipro, Tata consulting, LT infotech, Infos trectech	369	12	Prodair air products, GE power India ltd, TCS, VZOs, Mphasis LTD., addinfidigitech	11	7
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#### 5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2019	1	BE	CE	Govt College of Eng Aurangabad	CSE
2019	1	BE	CE	Australian Public Research University, Melbourne	Master of Business information Technology
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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
GRE	3
TOFEL	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
Sports ( Damini )	Institutional	36

Sports	University	14
Sports	Krida Mahostav	12
Sports Anannya	Institutional	75
Cultural Anannya	Institutional	266
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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
<b>No Data Entered/Not Applicable !!!</b>						
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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 and always joins hands with faculty members and college administration to ensure holistic development of the students and college as well. Student council constitutes General Secretary, 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 and cultural committee head play major role in the organization of the annual cultural event 'Anannya'. All Technical events of Anannya were conducted under the banner of professional bodies such as IETE and ISTE, IEEE, ISHRAE etc. The Council also organizes various programs throughout the year to observe the important days such as 'Engineers Day, 'Guru Pournima', 'Teachers Day', 'Dahi Handi', 'Umang Dandiya', 'Republic Day', 'Maharshi Karve Jayanti and Punyatithi', 'Baya Karve Jayanti and Punyatithi', 'Independence Day', 'Women's Day', 'Science Day', Holi Milan, 'International Yoga day', APJ Abul Kalam's birth anniversary etc. In the institute, Teacher's day is celebrated in the form of skill transfer day where students teach their own skills to other students. Engineer's day is celebrated with different themes every year. Maharshi Karve Jayanti and Punyatithi is celebrated by organizing talk on his life sketch. Abdul Kalam's Jayanti is celebrated as Reading day. Students organize training for other students prior to Yoga day and perform Yoga on International Yoga Day. Students organise Prachetas event on Science day. Independence day and Republic day are celebrated with flag hoisting, parade and cultural program. The sports committee organizes and conduct intercollegiate sports tournament at the time of cultural fest called 'Anannya'. The magazine team under the leadership 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 such as Computer engineering department has Rotaract, Girls script foundation and Coders club. Mechanical Engineering department has Thermo aspirants club, Mechanical Engineering Girls Association (MEGA). Electronic Telecommunication

department has Techno formers, Rise and Shine club. Under the title various technical workshops, competitions and seminars are organized and looked after by technical committee in-charge and student technical committee head along with student coordinators and volunteers. Various academic and administrative bodies that have student representatives on it are - 'Internal Quality Assurance Cell (IQAC)', College Development Committee (CDC). They provide the inputs on various student issues and contribute towards improvement in the institute's working. One first year student representative, hostelites and localites are the members of the 'Anti-ragging committee'.

#### 5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

No

5.4.2 – No. of enrolled Alumni:

83

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

12900

5.4.4 – Meetings/activities organized by Alumni Association :

Alumni meet was held on 2nd Feb 2019.

### 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)

At the top of governance, Samstha has a Management committee to manage the various units of Samstha. The Managing Committee is formed by elected members from Industry, trustees and life workers and employees' representatives. The Institution has two top most committees one is Governing Council (GC), which is for advising expansion activities and College Development Committee (CDC), which is for monitoring development of institute. GC constitutes representatives of Management, University, DTE, industry and social field. The CDC comprises Chairman, elected representative from teaching and non-teaching faculty, IQAC coordinator, experts from academia, industry, social service and Principal as a member secretary. Departmental heads interact with the faculty to execute Teaching/ Learning process. HODs, class teachers and class representatives discuss various issues of curriculum, feedback and activities. The procurement requirements of material, equipment, and facility are handled by Purchase committee. In addition, for day-to-day operation management college has following committees. Internal Quality Assurance Committee (IQAC): IQAC consists of Principal as a chairperson, management representative, two industry representative, Society representative, Parent representative, a Co-ordinator IQAC, All HODs, Admin officer, admin representatives, Students and alumnae. IQAC monitors Academic audit, Teaching/ learning process, AQAR, Parent meet, Accreditation related activities. Anti-ragging committee comprises of Principal as chairperson, teachers representative, one member each from social, police, local media, non-teaching faculty, parents and from one fresher student representative, and one final year student representatives as members of the committee. This committee ensures ragging free campus and hostel area. It is supposed to take up complaints if any to resolve the issues. Extra-Curricular Activity (ECA) committee- The ECA Committee supports for the student growth as a whole. Student council members work along with the faculty coordinators to

organize various extra-curricular activities such as cultural, sports and technical competitions, which help improve the students leadership qualities and decision-making skills. Some of the events arranged by ECA committee are Anannya, the cultural fest, Umang -Dandiya raas, Dahi-Handi adventure sports, Prachetas- A technical event. Anannya cultural fest includes various cultural activities such as Traditional Day, Theme Day, Fate, Dance Competitions, Singing Competitions, Fashion Show, Skit Competition and Faculty Performances. Anannya is a completely student-managed event where students plan and organize everything right from budget making, collecting sponsorship to event management. Sports committee organizes and holds indoor and outdoor sporting competitions for faculty and students. Creativity team publishes the college magazine called 'Yugandhara', where team of students processes the content, writing, designing, and publishing. Principal appoints coordinator for various events who with help of all standing committees executes the operation of events through participative management. Execution of all the above mentioned events is thus done through decentralization of responsibilities and participative management of all faculty and students.

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

No

## 6.2 – Strategy Development and Deployment

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

Strategy Type	Details
Curriculum Development	The institution consists of four departments viz. Allied Science, ETC, Mechanical and Computer Engineering. Head of each department decides the advanced topics in consultation with Industry and other teaching faculties for the subjects. Additionally open ended practicals for giving the exposure of recent trends in technology are given to students. Principal of the institute is member of BoS (Board of Studies) of Electronics Engineering in RTMNU, Nagpur who contributes to the process of curriculum development of university. Every month industry lectures are arranged in each department. Industry visits are arranged twice in a year.
Teaching and Learning	Lesson plan and Teaching plan (LP/TP) for theory and practical of the course are prepared by subject teacher before start of the semester and is strictly followed. The LP/TP elaborates time schedule of lectures, assignments, tutorials. It also enumerates references of text books, reference books, ICT Tools and NPTEL references to the syllabus topics. Dean academics periodically reviews teaching learning process and methodologies of operations. The departments generate weekly reports containing teaching

	<p>activities performed in that week. Each faculty also submits monthly report containing details of academics and other developmental activities performed by them in that month.</p>
<p>Examination and Evaluation</p>	<p>The continuous evaluation of students is carried out by faculty through sessional, class tests, assignments, quiz etc. The evaluation of exams is communicated to the individual students. Query, if any, by student is discussed at first level with the course teacher or with mentor/ class-teacher. The issues are resolved before display of result. The queries about University valuation are raised by student through subject teacher and are put up to University exam department in prescribed format which is facilitated by student section of admin department of the institute within stipulated time from declaration of result.</p>
<p>Research and Development</p>	<p>Institute has established RD Cell for faculties and students to inculcate the Research mind set among them. Faculties are provided with financial assistance for attending workshops, Conferences etc. Faculties are motivated to pursue the Ph.D. RD cell motivates students to take part in Hackathon and innovative ideas competitions. RD cell also conducts training on how to write technical papers and project thesis for students. IPR workshops are also organized for students to motivate them to take copyright and patents. RD cell also works with Industry and Raman Science center for prototyping of innovative projects.</p>
<p>Library, ICT and Physical Infrastructure / Instrumentation</p>	<p>The Institute has Technical Library and reading room facility having required area of 277 sq.m. The institute library has 12229 books, 28 printed journals, e-Journals, NPTEL and web OPAC etc. The library has Book-Bank facility scheme for needy students. SLIM21 software is used for issue and return of books. The College has built-up area of 52,100 square meters -11 classrooms, 2 tutorial, 24 laboratories, Mechanical workshop, Seminar halls, canteen facility and playgrounds. All classrooms are equipped with LCD projectors. Total 272 computers with power back up are connected to internet. The institute also has 180 KVA Generator set.</p>



Human Resource Management	The institute has local HRD committee headed by Local Chairman of Samstha. This committee looks after recruitment and staffing for the institute, requirement of training of faculty, their appraisals, transfers etc. HRD gives approval for grant to do industry visits by faculty, publication of papers, attending of conferences, seminars, STTPs etc. HRD ensures implementation of Samstha's policies for grant of leave, sabbatical, promotions etc. HRD also interacts with faculty to involve them in college development activities by taking suggestions and inputs. HRD looks after implementation of schemes for employees welfare measures.
Industry Interaction / Collaboration	The institute has Industry-Institute-Interaction (III) cell which connects the departments with various industries through organizations such as VIA, BMA, MIA, GiZ, MSME, Vibha etc. The cell gets problem statements to work out solutions. III cell also coordinates for allotting internship to students in various industries. The cell invites industry persons to deliver talks on technology related topics in various departments. In AY 2018-19 Institute had signed 3 MoUs with companies such as VS informatics, PVR Engineers Pvt. Ltd and AVU technology. These MoUs, one for each department are for collaborative work, training to students on beyond syllabus topics and internship.
Admission of Students	Students are admitted through Centralised Admission Process (CAP) executed by DTE/ CET Cell. Some students, who could not get admission through CAP rounds, are admitted in Institute level quota after verifying their eligibility as per norms issued by Directorate of Technical Education. Students with diploma are admitted as lateral entry in direct second year through the Centralized Admission Process run by DTE. The institute also acts as a Facilitation Center during registration process of students on the DTE web portal. Students are counselled by faculty to help them choose right engineering branch for them.

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

E-governance area	Details
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Planning and Development	The institute uses G Suite for intimation and planning of meetings and for mass communication of information amongst all students, teaching and non-teaching faculty. GSuit notice board is very effectively used by TP department for communicating campus related information and for collecting students information.
Administration	The institute library uses OPAC system Slim-21. The complete management of library such as accession, issue and return is done using this software.
Finance and Accounts	The institute makes use of Tally Software for complete financial administration. All financial transactions are recorded in Tally for monitoring budget and preparation reports of expenses, generation of institute's balance sheet.
Student Admission and Support	The student's admissions are processed through Directorate of Technical Education portal. This portal has separate webpages for First year and Second year admissions. Registration of admitted students is done on the web portal provided by affiliating University for generation of enrolment number. Students eligible for scholarships by Samajkalyan are processed through portal of Department of Social Justice (MahaDBT). The institute provides computer center with internet facility for appearing aptitude tests conducted by companies.
Examination	The institute has employed portal on its website for conduct of objective type of exam. University portal is used to fill up internal marks allotted to 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
2018	Prof. S.Sahu	3 Days workshop on AI and DEEP Learning	Nil	3000
2018	Prof. S.Khamankar	3 Days workshop on AI and DEEP Learning	NIL	3000

2018	Prof.S.Kitey	1 week STTP on Open source Technologies	NIL	1000
2018	Prof.Vidya S Raut	Workshop on Emerging Trend In NLP: Techniques and Applications	NIL	2000
2018	Sharayu Deote	Workshop on NAAC revised accreditation framework	NIL	500
2018	Sandhya Waghmare	Workshop on NAAC revised accreditation framework	NIL	500
<a href="#">View File</a>				

6.3.2 – Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2018	Knowledge Sharing program	Nil	18/06/2018	18/06/2018	25	0
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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
Open Source Technology	1	22/10/2018	27/10/2018	6
Agile way of working design thinking1	3	20/05/2019	25/05/2019	6
Emerging trends in NLP1	1	05/07/2018	05/07/2018	1
Faculty knowledge sharing program on developing student teacher connect1	1	06/09/2018	06/09/2018	1
STTP on Product design and	1	24/12/2018	29/12/2018	6

Analysis using CATIA ANSYS held at KDK College of Engg, Nagpur				
STTP on Additive Manufacturing (3D Printing subtractive Manufacturing (CNC), by Simmens Center of Excellence, YCCE, Nagpur	1	22/04/2019	27/04/2019	6
2 Days National Conference on Emeging Trends in Fundamental Science at Gov. Institite of Forensic Science, Nagpur	1	06/03/2019	07/03/2019	2
CIIs IndNX4.0 (1st Edition) - Smart India Hackathon held in TCS, Nagpur	1	28/09/2018	28/09/2019	1
Faculty Knowledge sharing program Developing Student - Teacher Connect	1	18/06/2018	18/06/2019	1
Virtual Simulation Environment for Communication Embedded System Design (VSECESD)	1	26/11/2018	01/12/2018	6
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
16	36	28	31

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Fees Waiver to EWS Staff Full paid Maternity Leave,PF, Medi claim-Health Insurance	Festival advance, Fees Waiver to EWS Staff Full paid Maternity Leave,PF, Medi claim-Health	Cummins Nurturing Brilliance scholarship, Paranjpe, Samstha level scholarships Persistent

,Gratuity, Encashment of Earned leave at the end of service,Reimbursement of Membership fees for the professional bodies, Financial Assistance to attend conferences

Insurance ,Gratuity,Encashment of Earned leave at the end of service,

Systems Kiran Scholarship, Reimbursement of Membership fees for the professional bodies,Financial Assistance to attend conferences

#### 6.4 – Financial Management and Resource Mobilization

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

Before the beginning of financial year, HODs and Principal prepare college budget. It includes planned expenses such as lab equipment purchases, furniture and other development expenses. Budget is scrutinized and approved by CDC and Management Committee. There is a separate internal audit department of MKSS, which monitors proper utilization of finances. The audit team raises observation audit point on the accounting if any discrepancy is found and corrective measures are taken. Statutory auditors are also appointed who certify the financial statements in every financial year. The donations received by the college are audited by certified auditors for their utilization.

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 Limited	1174000	For Advanced S/w Lab
<a href="#">View File</a>		

6.4.3 – Total corpus fund generated

157445864

#### 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	No		Yes	Academic Dean, Twice in a Semester
Administrative	Yes	K.K. Mankeshwar Company	Yes	MKSS Samstha's audit department

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

Parent Teacher meet organised twice in every semester by department. One Parent Representative in IQAC Committee. One Parent Representative in Anti-Ragging Comittee.

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

Nil

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

1) To prepare a robust plan for next three years 2) Brain storming on



		community					
2018	1	1	05/07/2018	1	Haemoglobin Check Up camp	Haemoglobin Check Up	250
2018	1	1	17/08/2018	1	Tree plantation and Retractable Installation	Plantation	200
2018	1	1	04/10/2018	1	Swatchata Abhiyan	Sanitation	15
2019	1	1	03/01/2019	3	Self Defence	Security	100
2019	1	1	28/01/2019	1	Blood Donation	Health related	35
2019	1	1	15/02/2019	1	Education Awareness	Education awareness	30
<a href="#">View File</a>							

#### 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	08/01/2018	<a href="http://cumminscollge.edu.in/code-of-conduct.php">cumminscollge.edu.in/code-of-conduct.php</a>

#### 7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Induction Orientation Programme	09/07/2018	30/07/2018	60
PROGRAM OF YOUTH CONVENTION by Ramkrishna Mission	18/01/2019	18/01/2019	100
<a href="#">View File</a>			

#### 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
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### 7.2 – Best Practices

#### 7.2.1 – Describe at least two institutional best practices

<p><b>Activity1:</b> Activity based Learning "Tell me and I forget, teach me and I may remember, involve me and I learn."–Benjamin Franklin</p> <p><b>Objectives of the Practice:</b> Activity-based learning or ABL describes a range of pedagogical approaches to teaching. Its core premises include the requirement that learning should be based on doing some hands-on experiments and activities. The idea of activity-based learning is rooted in the common notion that the students are active learners rather than passive recipients of the information. The Context:</p> <p>If the students are provided the opportunity to explore by their own and provided an optimum learning environment then the learning becomes joyful and long-lasting.</p> <p>• <b>Classi?cation of ABL:</b> list of strategies for active learning:</p> <ul style="list-style-type: none"> <li>• Participation, : Students are assigned with small tasks, so that they can be</li> </ul>
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engaged in doing activities in class room. • Critical Thinking: Students task should be out of the box, not directly related to their base knowledge but can be answered after thinking. • Analyzing: Tasks given to the students must be subjective so that they can put their views in different ways after analysis. • Knowledge Sharing: Task given to the students must require varying knowledge, so that students are bound to communicate amongst themselves. • Team-work: After sharing of knowledge they can conclude and take decision from their team. • Communication: Team-work and knowledge sharing increase communication amongst team members. They also need to communicate with teacher to solve critical problems. • Problem Solving: Increase the ability to solve real life problems by analyzing and solving class-room problems based on course topics. • Quiz: It helps students to be more competitive in nature and answer quickly. • Debating: It increases the power of establishing the self-argument in front of fellows. The Practice: In the Institution we are implementing the ABL from last 2 years with different ideas and methodology depending on the various streams.

Initially we are going with following activity based learning 1. Actual Object:

Here Faculty shows the actual object. Like IC's, Micro-processor, Small Machines and students directly learn from the object. 2. Presentation: Students present their concept, idea by using the ICT tools like presentation and videos in various event and competitions. 3. Mini Project: The Institution is having the tradition to work through the project from Second year onwards. It helps to develop the culture of research and Project from initial engineering Classes.

4. Puzzles/Crosswords: Some Subjects are required to remember the words and phrases the faculties have taken the crossword like activity to generate the interest in the students. Evidence of Success • The Institution having the advantage of working model cut Section of 4 Cylinder Engine provided by Cummins

India Pvt Ltd. Where mechanical Engineering Students see actually working and learn the things which happen inside the engine while working. • Faculties ask students to learn a subject themselves and give presentation. Problems Encountered • ABL based learning is bit time consuming. • Although ABL clears the concepts of students in better manner but does not prepare them for the present exam pattern. Best Practice NO.2 1. Title of the Practice: Financial

assistance to 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 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 free-ship by MKSSS. 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

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 free-ship by MKSSS. 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,

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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 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. 5. 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	2018-19	Scholarship by Maharashtra Gov.	210	93,44,511
2	2018-19	Cummins Scholarship	24	11,60,660
3	2018-19	Unifrax India Pvt. Ltd.	01	36,000
4	2018-19	BorgWarner Emissions Pvt. Ltd.	07	2,47,500
5	2018-19	Paranjape Scholarship	06	1,01,320
6	2018-19	MKSSS Scholarship	97	2,35,986
7	2018-19	Leena Poonawala Scholarship	10	3,90,000

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

[http://cumminscollege.edu.in/Best\\_Practices.pdf](http://cumminscollege.edu.in/Best_Practices.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 124 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 is the only institute in RTM Nagpur University to run 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. 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 64 students. Our placement spread is over 23 different such companies all over India most of which are core engineering MNCs. To name a few companies such as Cummins India Ltd, , GE, Mahindra Mahindra, TCS, HSBC, Eaton Ltd, Mahale Behr I P Ltd, Rane Holdings, Wipro, IBM, AUV technologies, Infosys etc. We are now approved Business Incubation center of MSME to promote the entrepreneurship environment in the institution.

Provide the weblink of the institution

[www.cumminscollege.edu.in](http://www.cumminscollege.edu.in)

### **8.Future Plans of Actions for Next Academic Year**

- Institute plans to train the faculties on new technologies through FDP. Mechanical Department has planned to conduct FDP on "IC ENGINES AND ELECTRIC VEHICLE: EVOLUTION, OPPORTUNITIES CHALLENGES" in the month of June 2020. Some STTPs are also planned by all the three departments .Mechanical department has planned STTP on "PARADIGM SHIFT IN IC ENGINE TECHNOLOGY AND ELECTRIC VEHICLE" in the month of June 2020 and "MS EXCEL, COMMUNICATION SKILLS AND DIGITAL MEDIA FOR SUPPORTING TECHNICAL AND ADMINISTRATIVE STAFF" in the month of August 2020. ETC department has planned STTP on "FOUNDATION COURSE OF LABVIEW WITH HANDS ON TRAINING" in the month of April 2020. CE department has planned STTP on "MACHINE LEARNING, ARTIFICIAL INTELLIGENCE AND SMART ROBOTICS" in the month of April 2020.
- Mechanical department has also planned MODROB on MODERNIZATION OF "MATERIAL TESTING LABORATORY in this year. • To increase IPR activities we will conduct workshops on IPR for faculties. • Planned to organize National Conference on Technology for Women's Empowerment (NCTWE) in the month of July 2020 and International conference in the month of December 2020 on "International symposium on Physic sand Technology of Sensors" • To implement buddy system : It is system where students of first year are paired with the students of third year or final year to monitor their overall performance and counsel them from time to time for their progress. • In ordure to translate an idea or invention that creates value and convert the idea into product we are shortly going to set up Business Incubation Centre in the Institute. • The institute plans acquire NBA of Computer Engineering Department by 2021.