



Yearly Status Report - 2019-2020

| Part A | |
|---|--|
| Data of the Institution | |
| 1. Name of the Institution | YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING |
| Name of the head of the Institution | Dr. Uday P. Waghe |
| Designation | Principal |
| Does the Institution function from own campus | Yes |
| Phone no/Alternate Phone no. | 07104237919 |
| Mobile no. | 9764996477 |
| Registered Email | principal@ycce.edu |
| Alternate Email | udaywaghe@gmail.com |
| Address | Hingna Road, Wanadongri |
| City/Town | Nagpur |
| State/UT | Maharashtra |

| | | | | |
|--|---|-------------|-----------------------------|-----------------|
| Pincode | 441110 | | | |
| 2. Institutional Status | | | | |
| Autonomous Status (Provide date of Conformant of Autonomous Status) | 26-Oct-2009 | | | |
| Type of Institution | Co-education | | | |
| Location | Urban | | | |
| Financial Status | Self financed | | | |
| Name of the IQAC co-ordinator/Director | Dr. Arvind R. Bhagat Patil | | | |
| Phone no/Alternate Phone no. | 07104234623 | | | |
| Mobile no. | 8552963777 | | | |
| Registered Email | dean_pd@ycce.edu | | | |
| Alternate Email | arbhagatpatil@gmail.com | | | |
| 3. Website Address | | | | |
| Web-link of the AQAR: (Previous Academic Year) | https://www.ycce.edu/naac-plus.php | | | |
| 4. Whether Academic Calendar prepared during the year | Yes | | | |
| if yes, whether it is uploaded in the institutional website: Weblink : | https://www.ycce.edu/AcademicCalendar.php | | | |
| 5. Accrediation Details | | | | |
| Cycle | Grade | CGPA | Year of Accrediation | Validity |

| | | | | | |
|---|---|------|------|--------------------|------------------|
| | | | | Period From | Period To |
| 1 | A | 3.25 | 2016 | 16-Sep-2016 | 15-Sep-2021 |

6. Date of Establishment of IQAC

06-Jan-2016

7. Internal Quality Assurance System**Quality initiatives by IQAC during the year for promoting quality culture**

| Item /Title of the quality initiative by IQAC | Date & Duration | Number of participants/ beneficiaries |
|---|--------------------|---------------------------------------|
| Six UG Program received Three year Extension | 27-May-2020 365 | 4300 |
| 3 PG Program received 1 year Extension | 06-Jun-2019 365 | 220 |
| The Kalam Impact Phase III Faculty Orientation Program | 25-Jul-2019 240 | 190 |
| Planned and conducted external AAA Audit | 24-Aug-2019 02 | 50 |
| Dept. Perspective Plan (DPP) 2019-20 were presented by all the Heads of the departments | 08-Aug-2019 02 | 20 |
| Campus Recruitment Training (CRT) 2019-20 | 06-Jun-2020 24 | 1032 |
| Dept. Level Audit (DLA) 2019-20 with external evaluator | 25-Jul-2019 15 | 8 |
| Inclusion of Key Responsibilities as a KRA | 01-Jul-2019 | 16 |

| | | |
|---|--------------------|-----|
| | 365 | |
| Annual Workload Plan AWL 2019-20 for Teachers | 01-Jun-2019 365 | 232 |

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

| Institution/Department/Faculty | Scheme | Funding Agency | Year of award with duration | Amount |
|--------------------------------|----------------|----------------|-----------------------------|---------|
| Dr. S.S. Chaudhary | DST ETP | DST | 2019 365 | 160000 |
| Dr. Bharati Masram | AICTE-PRERNA | AICTE | 2019 730 | 999000 |
| Dr. P.T. Karule | AICTE-MODROBS | AICTE | 2019 365 | 1000000 |
| Dr. A. V. Patil | AICTE-RPS | AICTE | 2019 1095 | 1289000 |
| Dr. S.R. Khandeshwar | AICTE-MODROBS | AICTE | 2019 365 | 1200000 |
| Dr. R.C. Dharmik | AICTE_ATAL-FDP | AICTE | 2019 365 | 93000 |
| Dr. U.H. Gawande | AICTE-STTP | AICTE | 2019 365 | 285000 |
| Dr. S.S. Chaudhary | AICTE-STTP | AICTE | 2019 365 | 290000 |
| Dr. R.C. Dharmik | AICTE-STTP | AICTE | 2019 365 | 247000 |
| Dr. A. Khobragade | AICTE_ATAL-FDP | AICTE | 2019 365 | 93000 |

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

Yes

Upload latest notification of formation of IQAC

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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

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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)

In continuation to the provisional accreditation of 3 years to 06 UG Programs namely CE, ME, EE, EL, ETC & IT are granted extension of accreditation by NBA for three more year valid up to 30/06/2023.

Industry Aligned Courses offered by 05 department: CT: 02 (ISF, EIT), EE: 01 (Analog VLSI Design), ME: 01 (Pipe Design), EL: 01 (Electric Vehicles)

Participation of Faculty in STTP/FDP: 221 Faculty members have attended FDP's in their thrust area.

Value added Courses Organized through departments: 12 (15 Hrs. duration)

Recording of faculty course lectures: Impartus Scheme: 45 (Courses Video Recording)

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

| Plan of Action | Achievements/Outcomes |
|---|--|
| Centre of Excellence in the Department | ME: 2, AVEVA Centre of Excellence, Siemens CoE |
| Patents and Copyrights | Patent Submitted: 19 · Patent Published: 14 · Patent Granted: 01 · Copyrights: Submitted: 111 · Received: 48+39=87 · Under Scrutiny: 24 |
| Incubation Center Activities | Startups commenced: 05 Incubation ideas submitted: 05 (by Departments) |
| Ph.D. Research Centre | Recognized Research Guides: Thirty Four, Scholars Awarded PhD from YCCE research centre:25 · YCCE Faculty Awarded PhD: 5 |
| No. of MOOC Courses offered by Department | No. of offered Courses: 05 DBMS, SE(IT), Fundamentals of Computing (ET), Illumination Engineering (EL), Python (EE) |
| Visit of Students to Institute of Eminence/ Research Labs | Name of Institutes: RSAC, NEERI, RRSSC, CSIR, IITs · No. of Students Visited: 206 |
| SWAYAM/NPTEL Certification (Faculty) | 52 faculty members received Certificates for successful completion of courses. |
| Implementation of Quality initiatives (AWL, DPP, DLA, CRT, VPS, PQAI, etc.) | AWL 2019-20 Audits, DPP 2019-20 by HoD"s, DLA 2019-20 is carried out. Compliance reports are submitted. CRT is conducted during summer vacation, PQAI: Cancelled due to pandemic, VPS: Implemented by 3 depts.: CT- Dr. S K Singh, Professor, IIT, BHU 26-28.09.2019 ME- Dr. Ashish Darpe, Prof. IIT Delhi, 26-27.09.2019 EL- Prof. Amit Kumar Jain, IIT Delhi 02-03.03.2020 |
| Student Placement and Joined Higher Studies | Placed: Eight Thirty Five, Joined HS: Eighty One, Carrier Guidance Programs: Twenty Seven |

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14. Whether AQAR was placed before statutory body ?

Yes

| Name of Statutory Body | Meeting Date |
|------------------------|--------------|
| Academic Council | 07-Nov-2020 |

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

No

16. Whether institutional data submitted to AISHE:

Yes

Year of Submission

2020

Date of Submission

20-Jan-2020

17. Does the Institution have Management Information System ?

Yes

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

The state of the art Management Information System (MIS) is installed in the college and is being commissioned progressively. The MIS system has been developed to handle the academic needs of the stakeholders. It is an important tool that caters the requirements of different independent administrative as well as academic processes within the college, creation, storage, and retrieval of data related to the students enrolled in the college and entire examination system. Thus, MIS facilitates enrichment of the existing knowledge management system further. Different Modules available under MIS are Administration, Academic, Examination, Admission, Payroll, Establishment, Event Management, Fees Collection, Scholarship etc. The software has

been divided into several modules. The Academic Module: It takes care of teaching learning process. The main functionality are Faculty teaching load allocation, Course wise student allocation to the teachers, attendance monitoring, Internal evaluation, and Student Feedback. The attendance analysis and subsequent report generation for the entire class can be generated. The Examination Module: The module helps in conducting the examinations, online evaluation of answer sheets, processing of examination results in significantly reduced time. The mid semester examination marks of theory and practical exams are uploaded by faculty. The system generates internal marks for all students as per weightage assigned. The integration of Academic and Examination module is helpful in preparation of detention list. We could declare end semester results within 15 days due to this automation. The Administrative Module: General administration work related issues are handled by this module. The employee biometric attendance, leave records and service book details are taken care by this module. Student Feedback: The student feedback is collected online in transparent manner, analyzed and reports are generated.

Part B

CRITERION I - CURRICULAR ASPECTS

1.1 - Curriculum Design and Development

1.1.1 - Programmes for which syllabus revision was carried out during the Academic year

| Name of Programme | Programme Code | Programme Specialization | Date of Revision |
|-------------------|----------------|--------------------------|------------------|
| | | | |

| | | | |
|-------|----|---|------------|
| BE | NA | Civil Engineering | 18/01/2020 |
| BE | NA | Mechanical Engineering | 21/01/2020 |
| BE | NA | Electrical Engineering | 11/01/2020 |
| BE | NA | Electronics Engineering | 11/01/2020 |
| BE | NA | Electronics & Telecommunication Engineering | 04/01/2020 |
| BE | NA | Computer Technology | 11/01/2020 |
| BE | NA | Information Technology | 21/01/2020 |
| Mtech | NA | Environmental Engineering | 18/01/2020 |
| Mtech | NA | Structural Engineering | 18/01/2020 |
| Mtech | NA | CAD-CAM | 21/01/2020 |

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

| Programme with Code | Programme Specialization | Date of Introduction | Course with Code | Date of Introduction |
|---------------------|--------------------------|----------------------|---|----------------------|
| BE | Civil Engg | 01/07/2019 | Lab: Strength of Materials CV2202 ,Lab: Geotechnical Engig,CV2204, Lab: Fluid Mechanics CV2206 Lab: Water Supply Engg CV2208,Lab:Concrete Tech CV2252,Lab: Surveying CV2254,Lab:- Structural Analysis CV2256,Lab:- Transportation Engg CV2258,Lab: Surve | 01/07/2019 |
| BE | Mechanical Engg | 01/07/2019 | Material Science & Metallurgy ME2201,Lab:- Material Science & MetallurgyME2202,Manufacturing Process -I ME2203,Lab:- Manufacturing Process -I ME2204,Mechanics of aterialME2205,Lab:- Mechanics of Material ME2206,Kinematics of MachinesME2207,Fluid Mec | 01/07/2019 |
| BE | Electrical Engg | 01/07/2019 | PEI:Advance Power Electronics EL1311,PEI: Illumination Engineering EL2363,PEII:Artificial Intelligence based system EL1427,PE III : Power System Operation and Control EL1422 PEIV:Fundamentals of Smart Grid EL1436,PEIV:Electric Vehicles EL1437,Lab. : E | 01/07/2019 |
| BE | Electronics | 01/07/2019 | Engineering Mathematics III GE2201,Electronic Devices | 01/07/2019 |

| | | | | |
|----|-------------------------|------------|--|------------|
| | Engg. | | EE2201,Electronic Devices Laboratory EE2202,Digital Logic Design EE2205,Digital Logic DesignLaboratory EE2206 Signals and Systems EE2203,Computing using Python Laboratory EE2204,Network AnalysisEE | |
| BE | Electronics & Tele Engg | 01/07/2019 | PE II:Fundamentals of Computing ET1344,PE I : Algorithm & Data Structure ET1307,PE I :Object Oriented Programming ET1309,PE I :Discrete Structures ET1311,PEII : Embedded SystemET1319,PEII :Digital System Design ET1321,PEII :TV and Video Engineering E | 01/07/2020 |
| BE | Computer Technology | 01/07/2019 | Computer Architecture & Organisation CT2201,Object Oriented Programming CT2202,Lab: Object Oriented Programming CT2203,Data Structures CT2204,Lab: Data Structures CT2205,Lab: Python Programming CT2206,Lab: Web Technology CT2207,Operating Systems CT22 | 01/07/2019 |
| BE | Information Technology | 01/07/2019 | Data Structures and Program Design-I IT2205,Data Structures and Program Design- I-LABIT2206,Object Oriented Programming IT2203,Object Oriented Programming-labIT2204,Software Lab IT2208,Data Structures and Program Design-II IT2251 Data Structures and | 01/07/2019 |

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1.2 - Academic Flexibility

1.2.1 - New programmes/courses introduced during the Academic year

| Programme/Course | Programme Specialization | Dates of Introduction |
|------------------|--|-----------------------|
| BE | New Course in Computer Tech. (Mathematical Foundations for Data Analysis,Lab: Mathematical Foundations for Data Analysis,Advanced Web Technology,Lab: Advanced Web Technologies,Introduction to Sales Force,Python Programming,Customer relationship Management) | 01/07/2019 |
| BE | New Course in Electronics & Tele.Engg (Fundamentals of Computing,) | 01/07/2019 |
| BE | New Course in Electronics Engg(Microcontroller & Its Applications,Programming Data Structures algorithm using Python) | 01/07/2019 |

| | | |
|----|---|------------|
| BE | New Course in Mechanical Engg (EL IV : PIPE DESIGN) | 01/07/2019 |
| BE | New Course in Electrical Engg. (PEI: Illumination Engineering, PEIV: Electric Vehicles) | 01/07/2019 |

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1.2.2 - Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the College level during the Academic year.

| Name of programmes adopting CBCS | Programme Specialization | Date of implementation of CBCS/Elective Course System |
|----------------------------------|---|---|
| BE | Civil Engineering | 01/07/2019 |
| BE | Mechanical Engineering | 01/07/2019 |
| BE | Electrical Engineering | 01/07/2019 |
| BE | Electronics Engineering | 01/07/2019 |
| BE | Electronics and Telecommunication Engineering | 01/07/2019 |
| BE | Computer Technology | 01/07/2019 |
| BE | Information Technology | 01/07/2019 |
| Mtech | Structural Engineering | 01/07/2019 |
| Mtech | Environmental Engineering | 01/07/2019 |
| Mtech | CAD-CAM | 01/07/2019 |
| Mtech | IPS | 01/07/2019 |
| Mtech | Electronics Engineering | 01/07/2019 |
| Mtech | Communication Engineering | 01/07/2019 |
| Mtech | Computer Science and Engineering | 01/07/2019 |

1.3 - Curriculum Enrichment

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

| Value Added Courses | Date of Introduction | Number of Students Enrolled |
|--|----------------------|-----------------------------|
| Skill development- certification course on STADPRO | 01/02/2020 | 15 |

| | | |
|--|------------|------|
| Value Added Course (30 Hrs Duration) on Revit Software | 01/02/2020 | 88 |
| SDP on Advances in Embedded system and IoT | 25/06/2020 | 81 |
| Certificate course on on IBM Watson | 20/12/2019 | 74 |
| Advanced Get Set Go | 20/12/2019 | 1154 |
| Environmental Studies | 01/07/2019 | 212 |
| Block Chain Ethereum | 02/03/2020 | 70 |
| C and CPP (Spoken Tutorial) | 29/04/2020 | 498 |
| Advance Optmization for Manufacturing | 11/10/2020 | 25 |
| Machine Learning for Manufacturing | 27/09/2020 | 23 |

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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 | Civil Engg | 215 |
| BE | Mechanical Engg | 390 |
| BE | Electrical Engg. | 200 |
| BE | Electronics Engg. | 255 |
| BE | Electronics & Tele. Engg. | 300 |
| BE | Computer Tech. | 474 |
| BE | Information tech. | 132 |
| Mtech | Environmental Engg. | 8 |
| Mtech | Structural Engg. | 17 |
| Mtech | CAD-CAM | 18 |

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1.4 - Feedback System

1.4.1 - Whether structured feedback received from all the stakeholders.

| | |
|-----------|-----|
| Students | Yes |
| Teachers | Yes |
| Employers | Yes |
| Alumni | Yes |
| Parents | Yes |

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

Feedback Obtained

The Institution has policy to provide for excellence through continual improvement in teaching learning, training and research. For continuous improvement, it is utmost important to get feedback from all stake holders. Also analyse the feedback and take action on the valid suggestions so that the institute can improve and provide quality education to the students. The institute has framed processes to conduct feedback mechanism to ensure that the actions are taken for the improvements. The institution takes feedback from students, who are the major stake holders, twice in the semester. The schedule of in semester and end semester feedback. These feedbacks are conducted online. The analysis is done through software (MIS). The analysis is forwarded to departments for further actions. The faculty member whose teaching learning is not satisfactory is called for counselling meeting and is asked to improve teaching learning. Head of the department also takes one oral feedback at the start of the semester term, by addressing each class to understand any issue related to TLP, infrastructure etc. The management also conducts Interaction meeting with the students once in year to understand overall satisfaction level of the students. Through these meeting, issues related to infrastructure, maintenance, etc. are also discussed. Along with general impression of student regarding teaching learning Process, administration, library, Training and placement, Library etc are also discussed. The minutes are documented. Action taken report is prepared and actions are taken in stipulated time. The ATR is published on notice board. At the end of the programme comprehensive feedback (exit feedback) is conducted. In this feedback overall impression of the student about the programme, department and institution as whole is also received. This indicates student's satisfaction level. This survey helps us to decide on future development and improvement in various processes. The analysis of this survey is published on college website also. Students identity is confidential in all online feedback surveys.

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 | Civil Engg. | 180 | 3489 | 192 |
| BE | Mechanical Engg. | 180 | 3489 | 174 |
| BE | Electrical Engg. | 180 | 3489 | 185 |
| BE | Electronics Engg. | 120 | 3489 | 126 |
| BE | Electronics & Tele. Engg. | 180 | 3489 | 200 |
| BE | Computer Tech. | 120 | 3489 | 133 |
| BE | Information Tech. | 60 | 3489 | 67 |
| Mtech | Environmental Engg. | 18 | 61 | 10 |
| Mtech | Structural Engg. | 25 | 61 | 16 |
| Mtech | CAD-CAM | 18 | 61 | 5 |

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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 | 1077 | 45 | 150 | 12 | 76 |

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 |
|----------------------------|---|-----------------------------------|----------------------------------|----------------------------|---------------------------------|
| 238 | 238 | 12 | 71 | 5 | 10 |

[View File of ICT Tools and resources](#)

[View File of E-resources and techniques used](#)

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

The institute gives limitless importance to the mitigation of digital divide and enhancement of digital literacy. On line learning resources are brought to the door step of the students and they are motivated to acquire add on and value added certifications which position them high on the learning curve. MOOCS courses using various technology platforms are made popularised with the learners and the faculty members so that together they can migrate up the value chain in acquiring advanced know-how in their respective domain of learning/expertise. Unleashing with the routine and obsolete teaching methodology the institute has developed various innovative methods of teaching learning process for the students. Institution encourages extensive usage of ICT enabled tools and online resources by teachers for student centric effective learning. All the courses offered by the institute extensively make use of ICT facility. All classrooms are provided with required ICT enabled facilities for conducting the online lectures. Faculty members used IMPARTUS, Google Classroom, Zoom Platforms for conducting online lectures. Virtual lab platforms are used for conducting practical. The computers in different laboratories, faculty rooms, research labs, central computing center, Student Hostels, are provided with Internet facility. Entire campus is Wi-Fi enabled. In-house Moodle based departmental website is used for sharing of e-resources, Faculty uploads lesson plans, time- table, course materials, and question banks for the students, submitting online assignments and its assessments. The lecture notes, the laboratory manuals are made available on intra- net accessible to every student and faculty member. There is an exclusive Digital Library with 40 computers which works from 8:00 am to 8:00 pm every day. Several Online journals, e-books, e-lecture materials are made accessible available. Faculty members use E-learning - resources from National Programme on Technology Enhanced Learning (NPTEL), the e-material developed by the institute (DTEL). The entire institution is provided with LCD video display screens for instant communication of information in every building. The student support center addressed the student's quires online and special course queries solving online sessions were organized. Online industry visits are organized by the departments for the students. During the pandemic period faculty development programs, guest lectures, webinars, student's technical and cultural events, alumni meets are organized in online mode. Majority of the faculty members and the students have completed SWAYAM/NPTEL/Coursera Certification in online mode. The mid-semester and end semester examinations both theory and practical are conducted in online mode. The results of these examinations are made available to students through online mode. Faculty members inform the status of the mentees to their parents on a regular basis through SMS and telephone. Google apps and student diary are also used to communicate with the students. The student admission process to the higher semesters was conducted online with online fees payment facility. Most of the students and faculty members joined Graduation day event and The Republic day and Independence day celebrations through online mode. Parent teacher meets are conducted using ICT enabled tools. Number of faculty using ICT for Teaching Learning Year 2019-20 No. of

| Number of students enrolled in the institution | Number of fulltime teachers | Mentor : Mentee Ratio |
|--|-----------------------------|-----------------------|
| 4596 | 238 | 1 : 19 |

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 |
|-----------------------------|-------------------------|------------------|--|--------------------------|
| 226 | 238 | Nil | 25 | 87 |

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

| Year of Award | Name of full time teachers receiving awards from state level, national level, international level | Designation | Name of the award, fellowship, received from Government or recognized bodies |
|---------------|---|---------------------|--|
| 2019 | Dr. A. R. Bhagat Patil | Associate Professor | Ph.D. by RTMNU University Nagpur |
| 2019 | Dr. Rakhi Wajgi | Assistant Professor | Ph.D.by RTMNU University Nagpur |
| 2019 | Dr. L. B. Damahe | Assistant Professor | Ph.D.by RTMNU University Nagpur |
| 2019 | Dr.S.V.Ambekar | Professor | Patent Awarded (Patent No.333727 on 03.03.2020) |
| 2019 | Dr.S.R.Khandeshwar Prof.H.R.Nikhade | Professor | Received Grant of Rs.12,00,000/- from AICTE -MODROB |
| 2019 | Dr. S. P. Gawande | Associate Professor | Best Paper At PEDPES 2019 |
| 2020 | Dr. S. P. Gawande | Assistant Professor | Best Teacher by Venus International Foundation |
| 2020 | Dr. A . Y. Fadnis | Associate Professor | Ph.D.by RTMNU University Nagpur |
| 2020 | Dr. S. D. Patil | Associate Professor | Ph.D.by RTMNU University Nagpur |
| 2020 | Dr. S. R. Gaigowal | Assistant Professor | Ph.D.by RTMNU University Nagpur |

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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 | NA | Civil Engg.III Sem. | 04/12/2019 | 12/12/2019 |
| BE | NA | Mechanical Engg.III Sem. | 04/12/2019 | 12/12/2019 |
| BE | NA | Electrical Engg.III Sem. | 06/12/2019 | 20/12/2019 |
| BE | NA | Electronics Engg.III Sem. | 04/12/2019 | 10/12/2019 |
| BE | NA | Electronics Tele.Engg.III Sem. | 04/12/2019 | 10/12/2019 |
| BE | NA | omputer tech.III Sem. | 04/12/2019 | 10/12/2019 |
| BE | NA | Information Tech.III Sem. | 04/12/2019 | 16/12/2019 |
| Mtech | NA | Environmental Engg.First Sem | 17/12/2019 | 20/12/2019 |
| Mtech | NA | Structural Engg.First Sem | 17/12/2019 | 02/01/2020 |
| Mtech | NA | CAD-CAM First Sem | 17/12/2019 | 19/12/2019 |

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

| Number of complaints or grievances about evaluation | Total number of students appeared in the examination | Percentage |
|---|--|------------|
| 142 | 8985 | 1.58 |

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.ycce.edu/civil-engineering.php>, <https://www.ycce.edu/mechanical-engineering.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 |
|----------------|----------------|---------------------------|---|---|-----------------|
| NA | BE | Civil Engg. | 153 | 152 | 99.35 |
| NA | BE | Mechanical Engg. | 165 | 164 | 99.39 |
| NA | BE | Electrical Engg. | 166 | 166 | 100 |
| NA | BE | Electronics Engg. | 122 | 122 | 100 |
| NA | BE | Electronics & Tele. Engg. | 174 | 174 | 100 |
| NA | BE | Computer Tech. | 116 | 115 | 99.14 |
| NA | BE | Information Tech | 68 | 68 | 100 |
| NA | Mtech | Environmental Engg. | 9 | 9 | 100 |
| NA | Mtech | Structural Engg. | 20 | 20 | 100 |
| NA | Mtech | CAD-CAM | 2 | 2 | 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.ycce.edu/pdf/StudentSatisfactionSurvey.pdf>

CRITERION III - RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Promotion of Research and Facilities

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

Yes

Name of the teacher getting seed money

The amount of seed

Year of receiving

Duration of the

| | | | |
|--|--------------|--------------|--------------|
| | money | grant | grant |
| Prof. Rajesh Bodkhe, Dr. P.M. Palsodkar,,Dr. S.S. Khedkar | 84626 | 2019 | 365 |

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3.1.2 - Teachers awarded National/International fellowship for advanced studies/ research during the year

| Type | Name of the teacher awarded the fellowship | Name of the award | Date of award | Awarding agency |
|----------|--|-------------------|---------------|---------------------|
| National | Dr. P.W. Raut | Copyright | 15/01/2020 | Government of India |
| National | Prof. N.A. Pande | Copyright | 06/04/2020 | Government of India |
| National | Prof. A.A. Madankar | Copyright | 15/01/2020 | Government of India |
| National | Prof. K.P. kamble | Copyright | 15/01/2020 | Government of India |
| National | Dr. D. B. Bhoyar | Copyright | 26/12/2019 | Government of India |
| National | Dr. S. S. Khade | Copyright | 06/04/2020 | Government of India |
| National | Dr. M.S.Dorle | Copyright | 14/01/2020 | Government of India |
| National | Prof. A. v. Choudhari | Copyright | 14/01/2020 | Government of India |
| National | Prof. R. P. Deshmukh | Copyright | 14/01/2020 | Government of India |
| National | Dr. Y.U. Chitriv | Copyright | 05/04/2020 | Government of India |

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3.2 - Resource Mobilization for Research

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

| Nature of the Project | Duration | Name of the funding agency | Total grant sanctioned | Amount received during the year |
|-----------------------------|----------|----------------------------|------------------------|---------------------------------|
| Major Projects | 1095 | AICTE-PRERNA, MODROBS | 31.99 | 31.99 |
| Minor Projects | 365 | AICTE-STTP | 3 | 3 |
| Interdisciplinary Projects | 00 | - | 0 | 0 |
| Industry sponsored Projects | 00 | - | 0 | 0 |

| | | | | |
|--|------|--------------------------|-------|-------|
| Projects sponsored by the University | 365 | Funds for UG/PG Projects | 0.35 | 0.35 |
| Students Research Projects (Other than compulsory by the University) | 00 | - | 0 | 0 |
| International Projects | 00 | - | 0 | 0 |
| Any Other (Specify) | 00 | - | 0 | 0 |
| Total | 1825 | - | 35.34 | 35.34 |

[View File](#)

3.2.2 - Number of ongoing research projects per teacher funded by government and non-government agencies during the years

8

3.3 - Innovation Ecosystem

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

| Title of workshop/seminar | Name of the Dept. | Date |
|--|-------------------|------------|
| Drafting and Editing Tools Programme | R and D Cell | 05/10/2019 |
| Drafting and Editing Tools Programme | R and D Cell | 12/10/2019 |
| 2 Days Workshop on "Drafting Funding Proposal" | R and D Cell | 12/05/2020 |
| 2 Days Workshop on "Drafting Funding Proposal" | R and D Cell | 09/06/2020 |

[View File](#)

3.3.2 - Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

| Title of the innovation | Name of Awardee | Awarding Agency | Date of award | Category |
|--|----------------------|--|---------------|-------------------|
| Best Engineering Teacher Award | Dr. Ujjawala Gawande | Engineering Education Foundation (EEF) at K.K.Wagh College of Engineering and Research | 01/07/2019 | Teaching Learning |
| Evaluation of funding research proposals | Dr. J. P. Giri | All India Council for Technical Education | 01/07/2019 | Research |

| | | | | |
|---|----------------------|---|------------|-------------------|
| preparing underprivileged SC/ST Students for Higher education | Prof. Bharati Masram | All India Council for Technical Education, New Delhi (Ministry of Human Resource and Development) | 01/07/2019 | Teaching Learning |
| Mayor Innovation Council | Dr. P.K. Dakhole | Mayor, Nagpur Municipal Corporation, Nagpur | 01/07/2019 | Competition |

[View File](#)

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

| Incubation Center | Name | Sponsored By | Name of the Start-up | Nature of Start-up | Date of Commencement |
|-------------------|---------------------|----------------------------------|------------------------|---------------------------------|----------------------|
| 1 | YCCE TBI Foundation | Ministry of MSME, Govt. of India | MechFarm Equipment LLP | Agri based innovative equipment | 13/03/2020 |

[View File](#)

3.4 - Research Publications and Awards

3.4.1 - Ph. Ds awarded during the year

| Name of the Department | Number of PhD's Awarded |
|---------------------------------------|-------------------------|
| Department of Civil Engineering | 2 |
| Department of Mechanical Engineering | 1 |
| Department of Electrical Engineering | 8 |
| Department of Electronics Engineering | 3 |
| Department of Computer Technology | 9 |

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

| Type | Department | Number of Publication | Average Impact Factor (if any) |
|---------------|------------------|-----------------------|--------------------------------|
| International | Civil Engg | 13 | 1.51 |
| International | Mechanical Engg | 29 | 00 |
| International | Electrical Engg | 13 | 00 |
| International | Electronics Engg | 24 | 1.30 |

| | | | |
|---------------|------------------------|----|------|
| International | Electronics Tele. Engg | 31 | 00 |
| International | Computer Technology | 16 | 00 |
| International | Information Technology | 4 | 4.15 |
| National | Civil Engg | 22 | 00 |
| National | Mechanical Engg | 19 | 00 |
| National | Electrical Engg | 6 | 00 |

[View File](#)

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

| Department | Number of Publication |
|------------------------|-----------------------|
| Civil Engg | Nil |
| Mechanical Engg | 15 |
| Electrical Engg | 17 |
| Electronics Engg | 13 |
| Electronics Tele. Engg | 17 |
| Computer Technology | 12 |
| Information Technology | 5 |
| First Year | 5 |

[View File](#)

3.4.4 - Patents published/awarded during the year

| Patent Details | Patent status | Patent Number | Date of Award |
|---|---------------|---------------|---------------|
| Portable Composter | Published | 371186 | 09/07/2021 |
| Apparatus And Method For Determining Bearing Capacity Of Soil | Published | 371580 | 10/07/2021 |
| System And Apparatus For Injecting Granular Fertilizer | Published | 371043 | 06/07/2021 |
| Assembly For Cleaning Water Body | Published | 371576 | 10/07/2021 |

| | | | |
|---|-----------|--------------|------------|
| Apparatus And Method For Probing A Region Of Interest For Feasibility Of Human Habitation | Published | 371200 | 10/07/2021 |
| Device For Cutting Unwanted Plants | Published | 202021047619 | Null |
| Apparatus For Tilling Soil And Removing Unwanted Plants | Published | 202021047977 | Null |
| Six Strand-Single Core Industrial Wire Rope Making Machine | Published | 202021047870 | Null |
| Camera Stabilizer (Gimbal | Published | 202021047621 | Null |

[View File](#)

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

| Title of the Paper | Name of Author | Title of journal | Year of publication | Citation Index | Institutional affiliation as mentioned in the publication | Number of citations excluding self citation |
|--|---|---|---------------------|----------------|---|---|
| Experimental study of heat transfer characteristics of Al ₂ O ₃ and CuO nanofluids for machining application | Chaudhari S.S., Chakule R.R., Talmale P.S. | Materials Today: Proceedings | 2019 | 0 | Yeshwantrao Chavan College of Engineering, Nagpur, India | 11 |
| Baby monitoring system using image processing and IoT | Dubey Y.K., Damke S. | International Journal of Engineering and Advanced Technology | 2019 | 0 | Yeshwantrao Chavan College of Engineering, Nagpur, India | 7 |
| Performance Analysis and Optimization of Fresnel Lens Concentrated Solar Water Heater | Soni V.K., Shrivastava R.L., Untawale S.P., | Journal of Solar Energy Engineering, Transactions of the ASME | 2019 | 0 | Yeshwantrao Chavan College of Engineering, | 5 |

| | | | | | | |
|---|--|--|------|---|--|---|
| | Shrivastava K. | | | | Nagpur, India | |
| A brief review on: MRI images reconstruction using GAN | Shende P., Pawar M., Kakde S. | Proceedings of the 2019 IEEE International Conference on Communication and Signal Processing, ICCSP 2019 | 2019 | 0 | Yeshwantrao Chavan College of Engineering, Nagpur, India | 5 |
| Automated Waste Segregation System and its approach towards generation of Ethanol | Madankar A., Patil M., Khandait P. | 2019 5th International Conference on Advanced Computing and Communication Systems, ICACCS 2019 | 2019 | 0 | Yeshwantrao Chavan College of Engineering, Nagpur, India | 5 |
| Assessment of correlation between clinical examination and investigations with outcome in cases of abdominal malignancy | Rashmi S., Jajoo S.N., Belsare A. | International Journal of Pharmaceutical Research | 2019 | 0 | Yeshwantrao Chavan College of Engineering, Nagpur, India | 4 |
| Implementation of sentiment classification of movie reviews by supervised machine learning approaches | Untawale T.M., Choudhari G | Proceedings of the 3rd International Conference on Computing Methodologies and Communication, ICCMC 2019 | 2019 | 0 | Yeshwantrao Chavan College of Engineering, Nagpur, India | 4 |
| Deep learning neural network for identification of bird species | Pillai S.K., Raghuvanshi M.M., Shrawankar U. | Lecture Notes in Networks and Systems | 2019 | 0 | Yeshwantrao Chavan College of Engineering, Nagpur, India | 4 |
| The Effect of Various | Giri J., | Lecture Notes in | 2019 | 0 | Yeshwantrao | 3 |

| | | | | | | |
|---|--|--|------|---|---|---|
| Parameters on the Nozzle Diameter and 3D Printed Product in Fused Deposition Modelling: An Approach | Patil A., Prabhu H. | Networks and Systems | | | Chavan College of Engineering, Nagpur, India | |
| To evaluate macular changes after uncomplicated phacoemulsification by optical coherence tomography | Jaiswal N., Makrande J., Bhake A., Bapat A.V. | International Journal of Pharmaceutical Research | 2019 | 0 | Yeshwantrao Chavan College of Engineering, Nagpur, India | 3 |

[View File](#)

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

| Title of the Paper | Name of Author | Title of journal | Year of publication | h-index | Number of citations excluding self citation | Institutional affiliation as mentioned in the publication |
|---|------------------------------------|--|---------------------|---------|---|---|
| To evaluate macular changes after uncomplicated phacoemulsification by optical coherence tomography | Walavalkar R., Lohiya S., Waigi R. | International Journal of Pharmaceutical Research | 2019 | 1 | 3 | Yeshwantrao Chavan College of Engineering, Nagpur, India |
| The Effect of Various Parameters on the Nozzle Diameter and 3D Printed Product in Fused Deposition Modelling: An Approach | Giri J., Patil A., Prabhu H. | Lecture Notes in Networks and Systems | 2019 | 2 | 3 | Yeshwantrao Chavan College of Engineering, Nagpur, India |
| Deep learning neural network for identification | Pillai S.K., Raghuwanshi | Lecture Notes in Networks and Systems | 2019 | 1 | 3 | Yeshwantrao Chavan |

| | | | | | | |
|---|---|--|------|----|---|--|
| of bird species | M.M., Shrawankar U. | | | | | College of Engineering, Nagpur, India |
| Implementation of sentiment classification of movie reviews by supervised machine learning approaches | Untawale T.M., Choudhari G. | Proceedings of the 3rd International Conference on Computing Methodologies and Communication, ICCMC 2019 | 2019 | 4 | 4 | Yeshwantrao Chavan College of Engineering, Nagpur, India |
| Assessment of correlation between clinical examination and investigations with outcome in cases of abdominal malignancy | Rashmi S., Jajoo S.N., Belsare A. S., Jajoo S.N., Belsare A. | International Journal of Pharmaceutical Research | 2019 | 1 | 4 | Yeshwantrao Chavan College of Engineering, Nagpur, India |
| Automated Waste Segregation System and its approach towards generation of Ethanol | Madankar A., Patil M., Khandait P. | 2019 5th International Conference on Advanced Computing and Communication Systems, ICACCS 2019 | 2019 | 3 | 5 | Yeshwantrao Chavan College of Engineering, Nagpur, India |
| A brief review on: MRI images reconstruction using GAN | Shende P., Pawar M., Kakde S. | Proceedings of the 2019 IEEE International Conference on Communication and Signal Processing, ICCSP 2019 | 2019 | 2 | 5 | Yeshwantrao Chavan College of Engineering, Nagpur, India |
| Performance Analysis and Optimization of Fresnel Lens Concentrated Solar Water Heater | Soni V.K., Shrivastava R.L., Untawale S.P., | Journal of Solar Energy Engineering, Transactions of the ASME | 2019 | 11 | 5 | Yeshwantrao Chavan College of Engineering, |

| | | | | | | |
|--|--|--|------|---|----|--|
| | Shrivastava K. | | | | | Nagpur, India |
| Baby monitoring system using image processing and IoT | Dubey Y.K., Damke S. | International Journal of Engineering and Advanced Technology | 2019 | 2 | 7 | Yeshwantrao Chavan College of Engineering, Nagpur, India |
| Experimental study of heat transfer characteristics of Al ₂ O ₃ and CuO nanofluids for machining application | Chaudhari S.S., Chakule R.R., Talmale P.S. | Materials Today: Proceedings | 2019 | 4 | 11 | Yeshwantrao Chavan College of Engineering, Nagpur, India |

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3.4.7 - Faculty participation in Seminars/Conferences and Symposia during the year

| Number of Faculty | International | National | State | Local |
|-----------------------------|---------------|----------|-------|-------|
| Attended/Seminars/Workshops | Nil | 77 | 65 | 94 |
| Presented papers | 109 | 21 | 5 | 54 |
| Resource persons | 2 | 9 | 23 | 104 |

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3.5 - Consultancy

3.5.1 - Revenue generated from Consultancy during the year

| Name of the Consultan(s) department | Name of consultancy project | Consulting/Sponsoring Agency | Revenue generated (amount in rupees) |
|-------------------------------------|-------------------------------------|------------------------------|--------------------------------------|
| Civil Engg | Third Party Technical Audit, Katol. | Nagar Parishad- KATOL | 58773 |
| Electrical Engg. | Thermography Audit | Morarji Textile, Butibori | 10000 |

| | | | |
|----------------------|--|--|--------|
| Electrical Engg. | Thermography Audit | MARUTI SUZUKI | 2640 |
| Civil Engg | Third Party Technical Audit, Mouda. | Municipal Corp- Mouda | 194576 |
| Civil Engg | Third Party Technical Audit, Mouda. | Municipal Corp- Mouda | 1000 |
| Civil EnggCivil Engg | Third Party Technical Audit, Gadchiroli | Municipal Corp- Gadchiroli | 57389 |
| Civil Engg | Third Party Technical Audit, Wadsa. | Municipal Corp- Wadsa | 13980 |
| Civil Engg | Third Party Technical Audit, Mouda. | Municipal Corp- Mouda | 44273 |
| Civil Engg | DPR preparation of SWSM project Lukhnow (UP) | Ceinsys Tech Limited-Consultancy charges for Designing charges | 568332 |
| Civil Engg | Concrete Material Testing | Platfrom No. 1 - Shri A V patil | 27000 |

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

| Name of the Consultan(s) department | Title of the programme | Agency seeking / training | Revenue generated (amount in rupees) | Number of trainees |
|-------------------------------------|--------------------------------|---------------------------------------|--------------------------------------|--------------------|
| Computer Tech. | Training on C and C By CT Dept | Somalwar Nikalas, Khamla Road, Nagpur | 7400 | 74 |

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3.6 - Extension Activities

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

| Title of the activities | Organising unit/agency/ collaborating agency | Number of teachers participated in such activities | Number of students participated in such activities |
|-------------------------|--|--|--|
| Nirmalya Collection | Computer Dept | 1 | 132 |

| | | | |
|---|---|---|-----|
| Tree plantation | Municipal Corporation School, Shivmadka, Nagpur | 1 | 50 |
| Books and Grocery Donation Camp | Kshitij Social Forum of the department | 1 | 60 |
| Visit to Sanjivani Vriddhashram | Electrical Department | 1 | 138 |
| Traffic awareness and safety programmes | YCCE NSS | 2 | 406 |
| Girl child health awareness camp and Sanitary Pads Distribution | YCCE NSS | 2 | 96 |
| Guest Lecture on Swami Vivekanand : the Youth Icon | YCCE NSS | 2 | 427 |
| Guest Lecture on Girls safety : Issues and Oportunities | YCCE NSS | 2 | 540 |
| Garbage Collection at Futala and Ambazari Lake | YCCE NSS | 1 | 137 |
| Visit to Sanjivani Vriddhashram | YCCE NSS | 1 | 138 |

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

| Name of the activity | Award/Recognition | Awarding Bodies | Number of students Benefited |
|----------------------|-------------------|---------------------|------------------------------|
| Blood Donation | Recognition | Sainath Blood Bank | 65 |
| Blood Donation | Recognition | Hedgewar Blood Bank | 70 |
| Blood Donation | Recognition | Ayush Blood Bank | 59 |

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

| Name of the scheme | Organising unit/Agency/collaborating | Name of the activity | Number of teachers participated in such | Number of students participated in such |
|--------------------|--------------------------------------|----------------------|---|---|
|--------------------|--------------------------------------|----------------------|---|---|

| | agency | | activites | activites |
|-----------------------------|---|---|-----------|-----------|
| Swachh Bharat | Computer Dept | Nirmalya Collection | 1 | 132 |
| Unnat Bharat Abhiyaan | Municipal Corporation School, Shivmadka, Nagpur | Tree Plantation | 1 | 50 |
| NSS | Hedgewar Blood Bank | Blood Donation | 1 | 70 |
| NSS | Department of Electrical Engineering, YCCE | Blood Donation | 2 | 60 |
| Unnat Bharat Abhiyaan | Department of Electrical Engineering, YCCE | Tree Plantation | 2 | 45 |
| Swachata Abhiyan | NMC | Nirmalya sankalan | 2 | 135 |
| Inculcation of human values | Department of Electrical Engineering, YCCE | Flood donation Drive | 1 | 129 |
| Swachata Abhiyan | Kshitij Social Forum of the department | Nirmalya collection at Futala lake during Ganesh Visarjan | 2 | 129 |
| Inculcation of human values | Kshitij Social Forum of the department | Books and Grocery Donation Camp | 2 | 60 |
| NSScation of human values | Civil Department, YCCE, Nagpur | Blood Donation Camp | 1 | 65 |

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3.7 - Collaborations

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

| Nature of activity | Participant | Source of financial support | Duration |
|--------------------|-------------|-----------------------------|----------|
| | | | |

| | | | |
|-------------------------|-----|---|-----|
| Joint Research paper | 56 | - | 365 |
| Internship | 119 | - | 180 |
| Joint Projects | 64 | - | 365 |
| Industry Aligned Course | 100 | - | 180 |

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3.7.2 - Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

| Nature of linkage | Title of the linkage | Name of the partnering institution/ industry /research lab with contact details | Duration From | Duration To | Participant |
|-------------------|----------------------|---|---------------|-------------|-------------|
| Internship | Internship | PSK Technologies Pvt Ltd | 01/06/2020 | 30/06/2020 | 2 |
| Internship | Internship | A1 Robotic And Automation | 18/05/2020 | 01/06/2021 | 1 |
| Internship | Internship | A1 Robotic And Automation | 27/05/2020 | 22/06/2020 | 2 |
| Internship | Internship | JP Morgan Chase | 30/05/2020 | 30/06/2020 | 1 |
| Internship | Internship | Psktechnologies Pvt Ltd IT Company, Plot No 780 Tailor line Near Durga Mata Temple Katol Road, Chhaoni Rd, Nagpur, Maharashtra 440013 | 01/05/2020 | 30/06/2020 | 1 |
| Internship | Internship | Psktechnologies Pvt Ltd IT Company, Plot No 780 Tailor line Near Durga Mata Temple Katol Road, Chhaoni Rd, Nagpur, Maharashtra 440013 | 01/05/2020 | 30/06/2020 | 3 |

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3.7.3 - MoUs signed with institutions of national, international importance, other institutions, industries, corporate houses etc. during the year

| Organisation | Date of MoU signed | Purpose/Activities | Number of students/teachers participated under MoUs |
|--|--------------------|---|---|
| Budhawanti education and research foundation | 05/09/2019 | training of students, Knowledge sharing | 60 |
| Datalytics , Nagpur | 01/11/2019 | Academic Training and Placement | 2 |

| | | | |
|---|------------|------------------|---|
| YouBotics Nagpur | 24/05/2019 | Student Training | 2 |
| BUDHWANTI EDUCATION RESEARCH FUNDATION 8 Sector-14 Gurgaon -122001 (Haryana) | 01/07/2019 | Training | 5 |

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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 |
|--|--|
| Nil | 165.66 |

4.1.2 - Details of augmentation in infrastructure facilities during the year

| Facilities | Existing or Newly Added |
|--|-------------------------|
| Classrooms with Wi-Fi OR LAN | Newly Added |
| Number of important equipments purchased (Greater than 1-0 lakh) during the current year | Newly Added |
| Others | Existing |
| Value of the equipment purchased during the year (rs. in lakhs) | Newly Added |
| Video Centre | Existing |
| Seminar halls with ICT facilities | Existing |
| Classrooms with LCD facilities | Newly Added |
| Seminar Halls | Existing |
| Laboratories | Existing |
| Class rooms | Newly Added |
| Campus Area | 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 patially) | Version | Year of automation |
|---------------------------|--|---------|--------------------|
| Lib Sys | Fully | 7 | 2000 |

4.2.2 - Library Services

| Library Service Type | Existing | | Newly Added | | Total | |
|-----------------------|----------|----------|-------------|---------|--------|----------|
| Text Books | 96893 | 31819864 | 12211 | Nil | 109104 | 31819864 |
| Reference Books | 13407 | 7553378 | 109 | 20000 | 13516 | 7573378 |
| e-Books | 15804 | 924880 | 6515 | 72954 | 22319 | 997834 |
| Journals | 170 | 3808852 | 170 | 266257 | 340 | 4075109 |
| e-Journals | 222 | 18662717 | 207 | 1169917 | 429 | 19832634 |
| Digital Database | Nil | Nil | Nil | Nil | Nil | Nil |
| CD & Video | 1660 | 942287 | Nil | Nil | 1660 | 942287 |
| Library Automation | Nil | Nil | Nil | Nil | Nil | Nil |
| Weeding (hard & soft) | 4333 | 602337 | Nil | Nil | 4333 | 602337 |
| Others (specify) | Nil | Nil | Nil | Nil | Nil | Nil |

[View File](#)

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 |
|---------------------|---------------------|---------------------------------------|-----------------------------|
| Dr. S. S. Choudhari | Video Lecture | Video | 01/07/2019 |
| Prof. N.J. Giradkar | Video Audio Lecture | Impartus | 01/07/2019 |
| Prof. A. J. Bamnote | CAD Software | CAD Software | 01/07/2019 |
| Dr. N. D. Rehpade | DTEL PPTs | Microsoft Power point | 01/07/2019 |
| Dr. J.P. Giri | Rob CAD | Software | 01/07/2019 |
| Dr. S. P. Ambade | CAD Software | CAD Software | 01/07/2019 |
| Dr. P. W. Raut | Video Audio Lecture | Impartus | 01/01/2020 |

| | | | |
|----------------------|---------------------|----------|------------|
| Prof. S. S. Chiwande | Video Audio Lecture | Impartus | 01/07/2019 |
| Raut Dr. M.S.Dorle | Video Audio Lecture | Impartus | 01/07/2019 |
| Prof. S.A.Desai | Video Audio Lecture | Impartus | 01/07/2019 |

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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 | 2239 | 44 | 117 | 149 | 80 | 175555 | 1718 | 112 | 0 |
| Added | 52 | 0 | 3 | 0 | 0 | 24 | 25 | 0 | 0 |
| Total | 2291 | 44 | 120 | 149 | 80 | 175579 | 1743 | 112 | 0 |

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

112 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 |
|--|---|
| 1. Class rooms are equipped with installation of the recording cameras | https://www.ycce.edu/naac-plus.php |
| 2. Impartus Lecture Capturing System was installed in the few class rooms of the departments. | https://www.ycce.edu/naac-plus.php |
| 3. Google Class Room Lecture Recording is used by the teachers. | https://www.ycce.edu/naac-plus.php |
| 4. Zoom Platform is also used by teachers for recording of the live lectures. | https://www.ycce.edu/naac-plus.php |
| 5. For development of DTEL in-house e-content (ppt, e-notes etc.) development faculty members are provided with internet connected computers with required software's installed on it. | https://www.ycce.edu/naac-plus.php |

| | |
|---|---|
| 6. Video of Faculty performing experiments in the institute labs is recorded and then shared with students. | https://www.ycce.edu/naac-plus.php |
| 7. Virtual lab facility is also used for performing the lab experiments. | https://www.ycce.edu/naac-plus.php |
| 8. Faculty members are also using their cell phones for audio/video recording of the contents. | https://www.ycce.edu/naac-plus.php |

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 |
|--|--|--|--|
| Nil | 1343.68 | Nil | 1343.68 |

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)

Accordingly the RD cell is decentralized into five verticals from the academic session 2019-20 with defined functions of the verticals as given below: i) Division of Research Advocacy: This vertical looks primarily after PhD programmes in YCCE, Institutional Journal and Research Portal. The vertical frames academic rule and regulations for the scholars pursuing PhD in the institute research centres and update the same as and when desired. ii) Division of Research Publications: This vertical is responsible for strengthening the quality of publications and increasing the citations of faculty and students in reputed research databases. This division organizes programmes based for enhancing publications. The plagiarism checking is the main responsibility of this division. iii) Division of Experimental Research: This vertical takes care of funding proposal guidance, drafting and submission. The vertical organizes various activities related to their domain of responsibilities. iv) Division of Research Innovation Incubation: This vertical primarily looks after IPR, Innovation and Incubation activities of the institution. The vertical framed policy for providing seed money to incubates. Vertical leader is responsible for providing the required infrastructural support for incubation of ideas and monitor proper utilization of seed money. v) Division of Industrial Research Consultancy: This vertical looks after Industry related Coordination and collaborations, Consultancy in departments and Joint Research with Industry. The vertical organise programmes for enhancement of activities under its domain. The verticals follow specific guidelines. i) Faculty members, assigned specific responsibility in the research verticals carry out work in specific domain under the supervision of Mentors and Vertical Leaders. ii)

Vertical leaders frame action plan for achieving targets as given in the Five-year action plan. Vertical leaders frame activity calendar and monitor progress of the targets every month ensure the achievement of the set targets. iii) The verticals propose in-house funding schemes and distribution of seed money as per requirements. The Institute encourages faculty members to involve themselves in research by providing well equipped research laboratory facilities and offering several incentives to the faculty members. The research incentives policy of the institute is furnished below: Faculty Policies (Research): • Policy for industry/research Laboratory (Sabbatical Leave)- 2 Months paid leave TA DA 750/- per day • Publication of papers in reputed International Journals - Rs.5000/- • Presentation of paper in International Conf. - Registration Fees Max. Rs.5000/- On duty Leave • Presentation of paper in abroad International Conf. - Rs.35000/- On duty Leave • Publication of Books/Monographs - Rs. 3000/- • Student Policies (Research): • Policy for participation in design competitions: Max. Rs. 10000/- registration fees, 50 carting charges • Attending Reputed Conf.: 100 registration fees (Max. up to 5000/-) • Publication of Paper in reputed Journal:25 of publication charges (Max. up to 5000/-)

<https://www.ycce.edu/pdf/procedure-and-policies-for-maintenance.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 | Staff wards EWS | 2512 | 14350071 |
| Financial Support from Other Sources | | | |
| a) National | SCHOLARSHIP, FREESHIP, EBC | 2707 | 218288124 |
| b) International | - | Nil | 0 |

[View File](#)

5.1.2 - Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

| Name of the capability enhancement scheme | Date of implemetation | Number of students enrolled | Agencies involved |
|---|-----------------------|-----------------------------|-------------------|
| | | | |

| | | | |
|--|------------|-----|---|
| Aptitude Development | 04/09/2019 | 106 | Mr.Rishi Chaurasia,Vikalp Management Education |
| Higher studies and competitive examinations | 04/10/2019 | 155 | Mr.Mehul Jhunjhunwala,Director, Times Institute |
| How to think of Innovative Ideas, Implementing them Practically Registering a Patent Application | 08/05/2020 | 247 | Mr.Ajinkya Kottawar,Dnyan Foundation,Nagpur |
| Guest Lecture on Latest technology development applications and opportunitites in USA. | 10/01/2020 | 35 | Er. Pratik Kadi |
| Making of a Successful Corporate Professional in VUCA World | 29/05/2020 | 233 | Mr. Shreepad Parkhe is Chief Executive Officer at Pacific Training - Skillx Global Mumbai |
| Higher Education opportunities abroad for Electronics Engineers | 02/06/2020 | 27 | Mr.Swaroop Khandekar, Chief Marketing Director, ICAD,Nagpur |
| Introduction to Robotics and IoT | 12/07/2019 | 87 | Mr.Niket Malsure,Mr.Shrikant Bandarkar,Mr.Sanjyot KawaleElectus Technologies Pvt.Ltd.Nagpur |
| Career in VLSI Industry | 16/07/2019 | 33 | Mr. Gaurav Hatwalne, Design Engineer, Intel Banglore |
| Bluetooth Controlled Robot using Atmega | 20/07/2019 | 24 | Mr.Shrikant Bhandarkar, Director,Mr.Niket Malusare, Director, Mr.Sanjyot Kawale, Mr.Sameer Kalmegh,Electrus Technologies Pvt.Ltd.Nagpur |
| PCB layout design using PROTEUS | 10/08/2019 | 42 | Dr.M.N.Kalbande Dr.Y.A.Gaidhani, Dr.T.G.Panse, Mrs.R.S.Balpande |

[View File](#)

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 | Number of benefited students by career counseling activities | Number of students who have | Number of |
|------|--------------------|------------------------------|--|-----------------------------|-----------|
|------|--------------------|------------------------------|--|-----------------------------|-----------|

| | | for competitive examination | | passed in the comp. exam | students placed |
|------|--|-----------------------------|-----|--------------------------|-----------------|
| 2019 | Carrier Opportunities in Armed Forces | 54 | 40 | Nil | Nil |
| 2019 | Guidance Session for higher Studies by Career Launcher | 198 | 122 | 23 | Nil |
| 2019 | Guest Lecter on CAREER GUIDANCE AND HIGHER STUDIES by Mr. Mehul Jhunjhunwala, Director TIME, Nagpur | 40 | 64 | 6 | Nil |
| 2019 | Awerness program about civil services examination | 60 | 86 | Nil | Nil |
| 2019 | Awareness about UPSC & MPSC Examinations | 60 | 86 | 52 | Nil |
| 2019 | Placement and Higher Studies | 37 | 83 | 25 | 785 |
| 2019 | Guest Lecture on "Orientation Program for Civil Services Examination & further opportunities in Public sector" | 71 | 140 | Nil | Nil |
| 2019 | GATE & IES Examination Guidance | 28 | 40 | 26 | Nil |

[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 |
|---------------------------|--------------------------------|---|
| Nil | Nil | Nil |

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 |
| 44 | 1025 | 835 | - | Nil | Nil |

[View File](#)

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 | Electronics Engg | University of Texas at Dallas | Master of Science |
| 2020 | 1 | BE | Electronics Engg | Northeastern University, College of Engineering | Master of Science |
| 2020 | 3 | BE | Computer Tech. | University of Texas, Dalas | Master of Science |
| 2020 | 1 | BE | Mechanical Engg | GCOEP, Pune | M. Tech |
| 2020 | 1 | BE | Mechanical Engg | IIM Rohtak | MBA |
| 2020 | 1 | BE | Mechanical Engg | Northern Illinois University DeKalb, Illinois , United States of America. | Masters in Industrial and systems Engineering |
| 2020 | 1 | BE | Mechanical Engg | Clemson University | Master of Engineering in Industrial Engineering |
| 2020 | 1 | BE | Civil Engg | NICMAR | Advanced Construction Management (ACM) (PG) |
| 2020 | 1 | BE | Electrical Engg. | IIIT, Jabalpur | M. Tech |
| 2020 | 1 | BE | Electrical Engg. | Bits Pilani ,Dubai | M. Tech |

[View File](#)

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 |
|----------------|---|
| Any Other | 17 |
| NET | Nil |
| SET | Nil |
| SLET | Nil |
| GATE | 62 |
| GMAT | 4 |
| CAT | 29 |
| GRE | 10 |
| TOFEL | 4 |
| Civil Services | Nil |

[View File](#)

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

| Activity | Level | Number of Participants |
|-------------------|-----------|------------------------|
| Digital Marketing | Institute | 300 |
| Robo Soccer | Institute | 25 |
| Wall Street | Institute | 100 |
| Matrix | Institute | 50 |
| Competo to Keil | Institute | 50 |
| T -Icon | Institute | 150 |
| Model Making | Institute | 150 |
| Technopati | Institute | 60 |
| Graphics | Institute | 15 |
| Robo Race | Institute | 25 |

[View File](#)**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/ International | Number of awards for Sports | Number of awards for Cultural | Student ID number | Name of the student |
|------|---------------------------------|----------------------------|--------------------------------|----------------------------------|----------------------|-------------------------|
| 2019 | Selection in University Team | National | Nil | Nil | 00 | Yash Jiwtode |
| 2019 | Selection in University Team | National | Nil | Nil | 00 | Ojas Sonone |
| 2019 | Selection in University Team | National | Nil | Nil | 00 | Dhruv Dhabe |
| 2019 | Selection in University Team | National | Nil | Nil | 00 | Mihir Dhabe |
| 2019 | Selection in University Team | National | Nil | Nil | 00 | Krishna Patel |
| 2019 | Selection in University Team | National | Nil | Nil | 00 | Ritesh Shende |
| 2019 | Selection in University Team | National | Nil | Nil | 00 | Sahil Lanjewar |
| 2019 | Selection in University Team | National | Nil | Nil | 00 | Rutuja Somwanshi |
| 2019 | Selection in University Team | National | Nil | Nil | 00 | Manthan Parteti |
| 2019 | Selection in University Team | National | Nil | Nil | 00 | Prasad Aurangabadkar |

[View File](#)

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

Internal Quality Assurance Cell (IQAC) The overall institute topper of the third year is a member of Institutional Quality Assurance Cell (IQAC). Student member help to propagate quality policies adopted by the institute among the student fraternity and help in projecting the student view point while taking quality policy decision. **Department Quality Assurance Cell (DQAC):** The department third year topper represents students in Departmental Quality Assurance Cell (DQAC). Student representatives actively participate in framing academic plans, conducting value added courses, add-on programs, and other curricular extracurricular activities. **Anti-Ragging Committee:** Student members assist the institute in implementing rigid anti-ragging measures to make ragging free campus. **Library Committee:** Students from UG and PG are the members of Library Committee. The student representatives give suggestions for improvement of library functioning, requirements of books, journal, e-resources etc. **Student Grievance Redressal Committee:** Student Grievance Redressal Committee involves student representatives in resolving issues and grievances of students. **Internal Complaint Committee (ICC):** The student representative from UG, PG and Doctoral Programmes in ICC committee helps to sustain a healthy and congenial atmosphere for female students and staff. **Hostel Committee:** The student representative play major role in ensuring food quality, hygiene and other facilities. They voluntarily monitor day to day activities and bring to the notice of the warden. **YCCE Fest Organizing Committee:** The annual Cultural fest "YASH" is organized and executed by the students. Student members of all professional societies and student clubs actively participate in hosting this event a grand success. **Editorial Board, College Magazine:** The Editorial Board of College Magazine is having student representation. College magazine gives exposure to the student talents through story writing, poems, articles and fine arts. **Editorial Board, Department Magazines and News Letters:** The technical newsletter and department magazine is compiled and printed by the student representative. In addition to the above committees, student representatives are in the Hostel Committee, Canteen Committee to ensure its effective functioning and resolving issues if any. Student representatives of Discipline Committee help to ensure a calm and peaceful academic atmosphere on the campus. Active involvement of the students in various committees significantly leads to their holistic development

5.4 - Alumni Engagement

5.4.1 - Whether the institution has registered Alumni Association?

Yes

Alumni Association "Yeshwantrao Chavan Abhyantriki Mahavidyalaya Alumni Association", Nagpur is a registered body consisting of a Coordination Committee, Executive Committee and student Coordination Committee to engage, execute and enhance various activities of the Association. The Alumni association works to strengthen the camaraderie and network among the alumni, faculty and the management. Around 7500 alumni are the registered members of this association. The alumni

association of the institute is the conglomeration of leaders, entrepreneurs, social entrepreneurs, professionals and bureaucrats catering to the society in various designations. The objectives of Alumni Association is to reinforce the sense of belonging towards the alma mater and spirit of fraternity among alumni by providing a common platform for social and intellectual interaction and establishing channels for effective communication. To meet and part is the way of the life, but to meet again and again is the hope of the life. As the students complete their education and leave the college to live their career and life, it appears that their relationship with the college is suddenly over. Fortunately it's not meant to be so and it does not need to be so. Actually it's just walking into another beautiful relationship with the college in the capacity of its alumni. Though the first relationship has to end the second one is eternal. Alumni play a significant role: Students on campus are benefited through alumni interactions in the areas: Facilitating Internship, Trainings, Industrial Visits, Final year Major Projects development, Skill Development, Invited talks on recent trends, Career Guidance Assistance for higher studies, Assistance for placement Guidance, campus interviews, curriculum design and review, extend the network of professional contacts, promotion of the institute's reputation in society, important role in industry institute interactions and bridging the gap between industry and institute and get real insight into the growth of the institution. Apart from formal alumni meets, the institute also engages the alumni support in many ways such as collecting suggestions, feedback on existing curriculum, updates on emerging trends, etc. through various networking platforms like LinkedIn, Face book, Twitter, WhatsApp, etc. Alumni contributed financial assistance of Rs. 3, 46, 65,000/- to the institute in the last five years.

5.4.2 - No. of registered Alumni:

7056

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

7685000

5.4.4 - Meetings/activities organized by Alumni Association :

- Webinar / Seminar / Guest Lecture / Expert Lecture • Curriculum Development/syllabus framing • BoS Member (Senior Alumni) • Industrial Visits • Industry Based Elective • Topic / portion from the syllabus covered by alumni. • Project Co-guide • Internship support • Accelerator Programme offered by alumni. • Entrepreneurship Guidance/mentoring • Mentoring for higher education/competitive examinations • MoU through alumni to support various activities of the departments. • Consultancy services offered by alumni • Tie-up with alumni for YCCE incubation center • Support of alumni in campus placements/recruitments • Mock interviews / trainings support

offered by alumni • Alumnus of the fortnight • Silver Jubilee Alumni meet • Joint Publications • Publication of success story/interview of renowned alumni of department in departmental magazine

CRITERION VI - GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

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

The leadership cadre of the institute consists of visionaries who are highly proactive, agile and believes in adopting hand holding approach for the overall development of the institute. The leadership of the institute adopts the practice of corporate governance and having unfathomable belief in quality initiatives. In tune with the vision and mission of the institute the leadership cadre takes all strategic decisions and initiatives which go a long way in furtherance of the lofty ideals and goals. They meet regularly to take the review of the direction and growth. Academic and over all welfare of the learners and the faculty members are upper most in the minds of leadership cadre. The Academic Advisory Board consisting of eminent academicians from prestigious technical institutes provide guidance in effective implementation of autonomy since session 2010-11. The Institute's focus and core ideology is reflected in its Vision, Mission, and Quality Policy. Vision Statement: "To become the most preferred institution providing innovative, research and value based, professional education for the society at large". We YCCEian's believe in providing a quality technical education coupled with strong fundamentals along with practical perspectives and global standards through which our students would enable to excel in their respective field of study. We also empower students to perform better at their workplace and become a better citizen. Mission Statement: YCCE is committed to • Attract best talent and create learning ambience • Practice Innovative teaching-learning research • Integrate Industry-Institute Collaborations • Nurture students towards holistic development and choicest career The mission is tuning the policies and objectives of education by maintaining academics with global standards and ethics. The institution recruits qualified and experienced faculty as per faculty-student ratio requirements of statutory bodies, to make the students globally competent and locally relevant. Training and Placement Cell strives for a good number of placements in reputed MNCs. Institute organize conference every year to enrich and promote research activities. All the departments have state of the art laboratories for enhancing Engineering and Research skills. The curriculum and mode of training are in tune with the needs of the students and current technologies. Humanistic values in education are upheld in the classroom and college activities. Governance of the institution: The Governance and Leadership of the Institution ensure that its operations are functioning well by nurturing the decentralization and participative decision-making. The governing body provides guidelines through the academic council to maintain high standards in imparting education by setting objectives relevant to policy, hiring quality professionals,

rewarding the achievers, provide infrastructure, facilities and encouraging the best utilization of the resources. Principal along with overall administration motivates faculty, supporting staff and students to maintain a competitive and conducive academic environment. The Institutes perspective planning for the upcoming academic years based on imparting quality education and all round development. Hence, decision-making and quality planning process are articulated keeping in view of Vision and Mission of the institution.

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

Yes

6.2 - Strategy Development and Deployment

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

| Strategy Type | Details |
|----------------------------|---|
| Curriculum Development | Offering revised curricula to all UG/PG programs from 2018-19. Revised curriculum in line with AICTE model by BoS through CDW's, Student Induction Program, semester long internship for UG Yearlong internship for PG, increased number of professional and open electives, mandatory audit courses in all UG programs. In addition, many new initiatives which would help to nurture the enhancement of academic flexibility, employability and entrepreneurship are included. |
| Teaching and Learning | Practicing innovative methods by teachers, part of syllabus is taught by Industry experts. Problem based, Project Based experiential learning, Self-learning by students through Moodle, Open elective Courses by all the departments, MOOC course offered by NPTEL or Coursera, . Honors/Minor programs Availability of Faculties recorded lectures to the students for better under understanding, Centre of Excellence, Visiting Professor Scheme, New foreign languages, Internship, visit to research labs |
| Examination and Evaluation | As part of continuous improvement initiatives: Continuous assessment of lab courses, Online evaluation of exam. answer sheets, showing evaluated answer sheet to students before declaration of result to address any valuation issue, Result declaration within 15-20 days. Addressing unfair means cases judiciously, CCTVs are installed in the complete examination office and premises to improve security, Question papers are moderated to ensure the standard, and mapping of COs as per BLOOMS Taxonomy. |
| Research and Development | The following quality strategies for improving the research outcomes. • Separate RD Cell with decentralized research verticals • PhD program in all departments • 5 |

| | |
|--|---|
| | <p>Depts. with PhD research centre • Increase in the intake of PhD seat. • Organize the national/international conference • Workshops on Research Methodology, IPR • Incubation Centre • Paper Publication/ Patent/Copyright targets to faculty PhD Scholars • Guidance for preparation of funding proposals • Financial support for paper publications • Research organization aligned elective courses • In-house funding scheme for new experimental setups, patentable projects • Funding proposal submission</p> |
| Library, ICT and Physical Infrastructure / Instrumentation | <p>Quality improvement initiatives are: • Digital Library• Book Bank sets as per updated curriculum • Subscribed e-books, e-journals • Organize a Book Exhibition in campus for faculty and students • Bar coding of Books • Scanning and Xeroxing facility • Use of Databases-DELNET • Reference Section• Reading Room with Adequate seating arrangement</p> |
| Human Resource Management | <p>1. Faculty Staff are covered under EPF and Gratuity. 2. Group Insurance Scheme for faculty, staff student. 3. Study, Maternity and Medical leaves for the faculty Staff 4. Financial support for attending conferences and workshops, papers publication, Patents, Copyrights etc. 5. Concession in tuition fees of the ward of the faculty staff and for economically weaker section students. 6. Training programs/workshops/seminars for skill enhancement. 7. Financial support for student projects as a seed money. 8. Professional Campus Recruitment Training (CRT) for sixth semester students without any charge of fees. 9. Book Bank Scheme for Toppers 10. Laptops for toppers, Cash prizes for toppers</p> |
| Industry Interaction / Collaboration | <p>The institute ensures strong industry institute relationship. • Participation of industry professionals in curriculum design, delivery and assessment • Industry Supported Laboratories, Center of Excellence sponsored by industries • Joint research publications by faculty and experts from industries • Co-guides for final year projects from industries • Industrial Consultancy undertaken by the faculty • Industry exposure to students and faculty through Industry Visits, Internship, Live Industry projects etc. • Signing of MoU between the Institute and industries • Inviting industry professionals as resource persons for Workshops/FDP, Conferences.</p> |
| Admission of Students | <p>The 80 admissions of sanctioned intake are done through Centralized Admission Process (CAP) of Government of Maharashtra. The CAP is merit based admission process administered by State CET CELL which is the competent authority for admissions. The admission to 20 seats (Institute level Quota) is done at the institute level as per merit. CAP and Institute level admissions are done through multiple rounds. Through newspaper/hoardings advertisement institute website wide publicity to admission process.</p> |

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

| E-governance area | Details |
|-------------------------------|--|
| Administration | MasterSoft ERP Solution Pvt. Ltd. Nagpur, ERP Academics module implements Student's admissions details, Class Engagement Details, Attendance Monitoring, faculty Leave details, Faculty Attendance |
| Finance and Accounts | Accounting (Tally.ERP 9 Software) by Jak Infosolution Pvt. Ltd., Nagpur Payroll Module, Fees Module by MasterSoft ERP Solution Pvt. Ltd. Nagpur |
| Student Admission and Support | MasterSoft ERP Solution Pvt. Ltd. Nagpur, ERP Academics module implements Student's registration, admissions details online payment of fees, |
| Examination | For Pre-Examination Processes by CoE, On-line Exam Form Filling On-line Exam Fees submission: MasterSoft ERP Solution Pvt. Ltd. Nagpur For Onscreen Valuation, Answer books scanning, On screen Answer books showing in Students login: SMB System Pvt. Ltd. Mumbai (MS) , |
| Planning and Development | Management Information System developed by Mastersoft ERP Solutions is a governance ERP system at YCCE |

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 | Snehal Gawande | CH. NO. 008804 dt. 10.01.2020 issued to Snehal Gawande towards paper presentation during 23-24 December 2019 at Shri Ramdeobaba college of engi. during 2-4 Jan. 2020 at Kochi, Kerala. | - | 9095 |
| 2019 | P.M. Meshram | CH. NO. 008750 DT. 31.12.19 issued to P.M. Meshram to present paper in IEEE global conf. for advancement in Technology (GCAT 2019) at Bangalore during 18-20 Oct. 19 | - | 11306 |
| 2019 | Shilpa Sahare | ch. no. 08742 dt. 27.12.19 Prashant Kamble (11326/-) 008743 DT. 27.12.19 Shilpa Sahare (9026/-) o present paper in | - | 9026 |

| | | | | |
|------|------------------|--|---|-------|
| | | Internaltional conference at SVNIT Surat during 12-14 Dec. 2019 | | |
| 2019 | Prashant Kamble | ch. no. 08742 dt. 27.12.19 Prashant Kamble (11326/-) 008743 DT. 27.12.19 Shilpa Sahare (9026/-) o prasant paper in Internaltional conference at SVNIT Surat during 12-14 Dec. 2019 | - | 11426 |
| 2019 | Akash Gedam | ch. no. 08739 dt. 27.12.19 issued to Akash Gedam to paper presentation in International seminar on Buddhist Archaeology-19 at Hyderabad 16-17 Nov. 19 | - | 9160 |
| 2019 | Manjusha Gandhi | ch. no. 008667 dt. 29.11.19 issued to manjusha Gandhi towards presenting paper in internationa conference at IIT Kharagpur during 22-25 Nov. 19 | - | 7547 |
| 2019 | Devendra Shahare | CH. NO. 008619 dt. 18.11.19 issued to Devendra Shahare towards attending conferance at Greater Noida from 07.11 to 08.11.19 | - | 9023 |
| 2019 | A.B. BHAKE | Ch. no. 008504 dt. 09.10.19 issued to A.B. Bhake towards Paper presentation in International conference at Rajesthan uni. Jaipur during 27.09 to 29.09.2019. | - | 9200 |
| 2019 | D.B. Bhoyar | CH. NO. 008106 dt. 02.07.19 issued towards Paper presentation in conference organized by Malviya National Institute of tech. (MNIT) Jaipur during May 9-10,2019- | - | 10002 |
| 2019 | Piyush Patil | CH. NO. 008097 dt. 26.06.19 issued to Piyush Patil towards paper presentation in conference ICI-ETSM-2019 at JIT Nagpur during 27-28 apr.19 | - | 2250 |

[View File](#)

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

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

| | | | | | | |
|------|---|---|------------|------------|-----|-----|
| 2019 | - | Training program on written communication | 14/11/2019 | 15/11/2019 | Nil | 10 |
| 2019 | - | Training program on MS office | 28/12/2019 | 28/12/2019 | Nil | 15 |
| 2020 | FDP on Fanuc Robot Programming In Association with MTAB Chennai | - | 12/03/2020 | 12/03/2020 | 8 | Nil |
| 2020 | STTP on "Renewable Energy, Smart Electronics, and Energy Audit for Industry" | - | 24/02/2020 | 29/02/2020 | 50 | Nil |
| 2019 | - | National Seminar on Waste to Energy : A Solution for Tomorrow | 20/09/2019 | 21/09/2019 | Nil | 60 |
| 2019 | Two Days Seminar on "Construction Materials and Technology: An Approach towards Sustainability" | - | 08/11/2019 | 09/11/2019 | 65 | Nil |
| 2019 | Rural Development through Technical Institutions | - | 29/07/2019 | 02/08/2019 | 41 | Nil |
| 2020 | STTP on "Recent Trends in Electrical Drives and Their Application" | - | 04/11/2019 | 09/11/2019 | 40 | Nil |
| 2019 | One day workshop on Basics of Aurdino | - | 30/08/2019 | 30/08/2019 | 13 | Nil |
| 2019 | Internet of Things | - | 08/11/2019 | 13/11/2019 | 33 | Nil |

[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 |
|---|---------------------------------|------------|------------|----------|
| STTP on "Internet of Things" | 5 | 08/11/2019 | 13/11/2019 | 06 |
| STTP on "Recent Trends in Electrical Drives and Their | 14 | 04/11/2019 | 09/11/2019 | 06 |

| Application" | | | | |
|--|----|------------|------------|-----|
| STTP"Renewable Energy, Smart Electronics and Energy Audit for Industry | 11 | 24/02/2020 | 29/02/2020 | 06 |
| One Week Short Term Training Programme on " Rural Development through Technical Institution" | 7 | 29/07/2019 | 02/08/2019 | 06 |
| One Week Short Term Training Programme on " Rural Development through Technical Institution" | 28 | 29/07/2019 | 02/08/2019 | 06 |
| NBA NAAC Accreditation | 15 | 05/05/2020 | 06/05/2020 | 02 |
| E SHODH Web of Science Certification series | 12 | 14/05/2020 | 14/05/2020 | 01 |
| NPTEL on line certification course on Accreditation and outcome based learning | 3 | 01/08/2019 | 31/10/2019 | 60 |
| NPTEL on line certification course on Joy of Computing using Python | 5 | 01/07/2019 | 31/10/2019 | 120 |
| NPTEL on line certification course on Switching circuits and Logic design | 7 | 01/07/2019 | 31/10/2019 | 120 |

[View File](#)

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

| Teaching | | Non-teaching | |
|-----------|-----------|--------------|-----------|
| Permanent | Full Time | Permanent | Full Time |
| 230 | 238 | 135 | 85 |

6.3.5 - Welfare schemes for

| Teaching | Non-teaching | Students |
|--|--|--|
| . Teaching Employees are covered under EPF and Gratuity. 2. Group Insurance Scheme for regular and permanent teaching. 3. Study, Maternity and Medical leaves for the faculty 4. Financial support for attending conferences and | Employees are covered under EPF and Gratuity. 2. Group Insurance Scheme for regular and permanent non-teaching staff members. 3. Study, Maternity and Medical leaves for the | 1. Insurance Scheme for all the students 2. Financial support for participation in competitions, attending conferences and workshops, publication of papers in national and international conference in reputed journals, Filing Patents etc. 3. |

| | | |
|---|--|---|
| <p>workshops /presenting research papers in national and international conference in reputed journals, for Filing Patents, Copyrights and Monographs 5. Concession in tuition fees of the ward of the staff of the college. 6. ERP Biometric system for all the administrative modules of the institution 7. Organize training programs/workshops/seminars for enhancing the multi-skills of the faculty 8. Effective appraisal system to assess the performance of faculty</p> | <p>staff 4. Financial support for attending training programs/workshops 5. Concession in tuition fees of the ward of the staff of the college. 6. ERP Biometric system for all the administrative modules of the institution 7. Organize training programs/workshops/seminars for enhancing the multi-skills of the staff 8. Effective appraisal system to assess the performance of staff</p> | <p>Financial support for development of UG projects as a seed money. 4. Organizing Professional Campus Recruitment Training (CRT) for sixth semester students without any charge of fees. 5. Book Bank Scheme for Toppers, Needy and Reservation Category Students 6. Concession in tuition fees for economically weaker section students. 7. GYM for the students 8. Student Support Centres 9. Counselling by Faculty Advisor and Psychological Counsellor 10. Organizing various technical events through installation of professional body student chapters 11. Medical Check-up Camp</p> |
|---|--|---|

6.4 - Financial Management and Resource Mobilization

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

Financial audit is an integral part of financial discipline and corporate governance of the institute. Due diligence is exercised in all financial matters and financial security of the institute is given the uppermost importance. The standard operating procedures and financial code of conduct are the corner stones of financial discipline in the institute. Internal Audit: Internal financial audit is carried out by college appointed auditors. The accounts of the institute are audited regularly as per the Government rules. The internal auditor checks fee receipts and payments with vouchers and necessary supporting documents and ensures that all payments are duly authorized in financial year. External Audit: The external audit is carried out by Chartered Accountant Agency "M/S V. K. Surana Co. and M/S A. A. Solao Co." in accordance with the auditing standards by the institute of Chartered Accountants of India every year. The external auditor conducts statutory audit at the end of financial year. The external audit has been completed for FY 2019-20. Audit reports for the FY 2018-19, 2017-18, 2016-17, 2015-16, are also prepared by the agency.

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 |
|--|-------------------------------|--|
| Management of the Institute | 74626 | Participation in Champion ship Contests, organizing competitions |

[View File](#)

6.4.3 - Total corpus fund generated

00

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 | 1) Dr. N.C. Shivprakash, IISC Banglore 2) Dr.O.G. Kakde,IIIT Nagpur,3) Dr. A.G. Keskar,VNIT, Nagpur | Yes | IQAC, Yeshwantrao Chavan College of Engineering |
| Administrative | Yes | 1) Dr. N.C. Shivprakash, IISC Banglore 2) Dr.O.G. Kakde,IIIT Nagpur,3) Dr. A.G. Keskar,VNIT, Nagpur | No | - |

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

1. Parents encourage, guide, and monitor the students participation in Curricula, Co-curricular and Extra-Curricular technical, cultural and sports activities. 2. Parents gives feedback on the review and design of syllabus requirements, feedback on OBE implementation, feedback on infrastructural facilities etc. 3. Representation on various statutory and non-statutory bodies/committees of the institute. 4. Provide real feedback to the members of various committees during the Parent Committee Member interactions. 5. Parents also attend the various events organized by the institute. 6. Volunteering in organization of events and as a resource persons in some events.

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

1. Training program on written communication dated 14-15/11/2019. 2. Training program on MS office on 12/28/2019 3. Workshop on "Operation and Maintenance of Lab Equipment's" 15-16/02/2019 4. Workshop on" Microsoft word and excel and power point tool learning "dated 02 09/03/2019 5.

**Workshop Lab Maintenance on 07/08/2019 6. Workshop Hardware Repairs and Trouble-shooting
16/11/2019 7. Prevention and Troubleshooting for Computer Labs, on 19/06/2020**

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

1) Participation in NIRF Ranking 2) Separate Building for Examination Section with all amenities
3) Automation of Examination Section processes 4) Installation of Solar Panels on roof of buildings
5) Increased internet bandwidth 6) Increase in seat intake of PhD research centres of the departments
7) Annual Workload Plan for assigning Targets/Responsibilities to faculty functional heads
8) Conduction of Academic and Administrative External Audits 9) Subscription of more e-books e-journals
10) Strengthening T-L processes by practicing innovative methods 11) Equipping class rooms with ICT Facilities.

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 | Yes |

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 | Syllabus revision of 3rd Year Courses | 30/04/2019 | 01/07/2019 | 30/04/2020 | 350 |
| 2019 | Industry Internship for the students of all the programmes | 04/10/2019 | 01/06/2020 | 30/06/2020 | 55 |
| 2019 | Starting Honor and Minor Courses | 04/10/2019 | 01/07/2019 | 30/06/2020 | 40 |
| 2019 | Extension of NBA Accreditation of UG/PG Programmes | 04/10/2019 | 01/07/2019 | 04/10/2019 | 50 |
| 2019 | Online valuation of ESE | 30/04/2019 | 01/12/2019 | 01/05/2020 | 500 |
| 2019 | AAA Audit | 30/04/2019 | 24/08/2019 | 25/08/2019 | 50 |
| 2019 | Internal Autonomy Audit | 30/04/2019 | 01/07/2019 | 30/06/2020 | 45 |

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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 |
| Girl child health awareness camp and Sanitary Pads Distribution | 23/02/2020 | 23/02/2020 | 96 | Nil |
| Guest Lecture on Girls safety: Issues and Opportunities | 08/03/2020 | 08/03/2020 | 140 | Nil |

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

Institution provides an inclusive environment for everyone with tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities. We believe in unity in diversity that's why our students respect the different religion, language and culture. Two important national festivals, Republic Day and Independent Day are celebrated in the campus. The College always encourages the students to organise and participate in different programmes organised by college, inter-college, and university. Different sports and cultural activities are organized in the college to promote harmony towards each other. Commemorative days like Women's day, Yoga day, Teachers Day, Engineers Day, Meghotsava along with many regional festivals like Ganesh Puja, Gajanan Mahraj Pragat Din, Chhartrapati Shivaji Maharaj Jayanti, Swami Veevekanand Jayanti, are celebrated in the college. This establishes positive interaction among people of different racial and cultural backgrounds. On the eve of college annual gathering we organize a traditional dress competition and fashion show. In this competition students wore the different attire representing the different states, religions and cultures. Through this activity students get acquainted with the different culture of our nation and help to develop the tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities. There are different grievance redressal cells in the institute like Student grievance redressal cell, faculty grievance redressal cell which deal with grievances without considering anyone's racial or cultural background. Institute has code of ethics for students and a separate code of ethics for teachers and other employees which have to be followed by each one of them irrespective of their cultural, regional, linguistic, communal socioeconomic and other diversities. YCCE is tobacco free campus. Student forums organize various events for the purpose of spreading awareness.

7.1.3 - Differently abled (Divyangjan) friendliness

| Item facilities | Yes/No | Number of beneficiaries |
|--|--------|-------------------------|
| Physical facilities | Yes | 25 |
| Provision for lift | Yes | 25 |
| Ramp/Rails | Yes | 25 |
| Braille Software/facilities | No | Nil |
| Rest Rooms | Yes | 20 |
| Scribes for examination | Yes | 5 |
| Special skill development for differently abled students | No | Nil |
| Any other similar facility | Yes | 25 |

7.1.4 - Inclusion and Situatedness

| Year | Number of initiatives to address locational advantages and disadvantages | Number of initiatives taken to engage with and contribute to local community | Date | Duration | Name of initiative | Issues addressed | Number of participating students and staff |
|------|--|--|------------|----------|----------------------------|---|--|
| 2020 | 1 | 1 | 17/02/2020 | 01 | Gajanan Maharaj Pragat Din | Social and Religious Activity | 3500 |
| 2019 | 1 | 1 | 11/11/2019 | 01 | Meghostav | MGI employee Gathering and Cultural Event | 900 |
| 2019 | 1 | 1 | 11/11/2019 | 01 | Anand Mela | MGI Employee | 900 |
| 2019 | 1 | 1 | 07/10/2019 | 01 | Dasara Pujan | YCCE Staff | 200 |

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7.1.5 - Human Values and Professional Ethics

| Title | Date of publication | Follow up(max 100 words) |
|--|---------------------|---|
| Code of Conduct for Students | 19/06/2019 | Students are made aware about General Conduct within campus, Seeking Guidance, Misbehaviour, Habits, Ragging, Student Parent Declaration. Disseminated to students parents through induction programme and availability on institute website. |
| Academic Regulation | 19/06/2019 | Consists of Transparency in Examinations, Conduct and Discipline of Students, Termination from Programs accessible through YCCE Website. |
| Unfair Means | 19/06/2019 | Details about Malpractice Punishments are accessible through YCCE Website. |
| R and D Policies | 19/06/2019 | Made available to all the teachers and PhD scholars |
| Code of Professional Ethics and Human Values | 19/06/2019 | UGC Regulation on Minimum Qualification for Appointment of Teachers and Measures for the Maintenance of Standards in Higher Education 2010. All teachers are made aware of this Code of Professional Ethics and Human Values |

7.1.6 - Activities conducted for promotion of universal Values and Ethics

| Activity | Duration From | Duration To | Number of participants |
|---|---------------|-------------|------------------------|
| Yoga Session 21-06-2020 | 21/06/2020 | 21/06/2020 | 65 |
| SDP on Ethical Hacking | 28/01/2020 | 29/01/2020 | 25 |
| Nirmalya Collection | 12/09/2019 | 12/09/2019 | 130 |
| Blood Donation Camp | 02/03/2020 | 02/03/2020 | 20 |
| Tree Plantation Drive | 17/07/2019 | 17/07/2019 | 50 |
| Blood Donation Camp | 11/07/2019 | 11/07/2019 | 59 |
| Blood Donation Camp | 25/07/2019 | 25/07/2019 | 65 |
| National Youth Day, Vivekananda Jayanti | 14/01/2020 | 14/01/2020 | 144 |
| Old age home visit to mure memorial | 08/11/2020 | 08/11/2020 | 145 |
| Visit to Sanjivani Vriddhashram | 30/01/2020 | 30/01/2020 | 138 |

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

- Less usage of papers in offices/Paperless office
- Green Measures: Tree Plantation, Rain-water harvesting
- Installation of Solar Energy panels on the roof of buildings
- Automation of Examination Processes
- Automation of Faculty Annual Progress Report Process
- Automation of CO-PO Attainment
- Usage of Virtual Labs and online Teaching
- Save Water Electricity through sensor enabled devices
- Use of LEDs for power needs
- Effective recycling of waste

7.2 - Best Practices

7.2.1 - Describe at least two institutional best practices

1. Annual Work-Load Plan: Internal Quality Assurance Cell of YCCE has taken number of initiatives to ensure the overall development of the institution and its stakeholders. One of the most effective initiatives is Annual Work Load (AWL) Plan. The main objective of the initiative is to prepare the institute for the quality assurances requirements of the accreditation agencies NAAC and NBA, and ranking agency NIRF. The AWL SOP includes a) the key responsibility areas (KRA's) of the functional heads, b) Guidelines to the departments for target allotment based on the strength of the departments and c) Faculty allotment target sheet to assign the targets to faculty. The some targets are assigned as per the cadre and some are mandatory targets. The major areas of targets includes qualification improvement, quality research publication, submission of funding proposals, Product Development, Intellectual Property Rights, Consultancy/Testing, involvement in professional society activities through active membership, Attending FDP/Training program, Organizing SDP/FDP for students and faculty, generation of learning materials, practicing innovative methods and usage of e-resources in T-L process. HoD ensures proper distribution of targets based on qualification, designation, experience, and thrust area etc. of concerned faculty. Target Completion dates are properly distributed in two quarters in an academic session without disturbing the T-L process. Since the entire exercise has been developed in view of improving quality in technical education, it is imperative that every faculty member must contribute and strive for the betterment of the technical education, keeping in view student's education and interest. Therefore, it is important to take periodical follow up and bring it to the notice of the concerned faculty for completion of assigned targets, through proper communications during the year. The outcome of the AWL plan- 1. Significant improvement in number and quality of research publications by faculty. (1249 Papers) 2. Large numbers of funding proposals are submitted to various funding agencies. The institute received funding of Rs. 5.5 Cr. in the last 5 years. 3. 95 faculty members have attended FDP/STTP every year. 4. 98 faculty

members are the members of relevant professional societies of their discipline. 5. Each faculty member is practicing the appropriate innovative method while teaching the course. 6. The institute could receive 470 copyrights for learning materials developed by faculty members. (442872) Patents are published in last 5 years. 7. The institute has generated the revenue of Rs. 236.58 Lakhs through consultancy and testing. 8. New Innovative Expt. Setup/ New Instructional Lab Manual Research Lab activity are developed by faculty. (109) As a result of the consistent performance of the faculty members in achievement of the assigned targets/responsibilities 06 UG programs are granted accreditation for 6 (33) years and 3 PG programs for 4 (211) years. YCCE is consistently getting good rank in the NIRF ranking scheme. 2. Campus recruitment Training (CRT): Campus recruitment Training (CRT) is one of the notable initiatives of IQAC, to enhance and improve the employability skills of students. As part of CRT the students have been trained in various skills such as communication skills, Aptitude skills, Reasoning skills, Leadership skills, and technical skills. The Campus Recruitment Training aimed at sharpening the skills of Engineering Students for success in placement drives. The program aims to train pre-final year students to prepare them for the companies coming for place drives. The program is delivered by subject matter experts having rich experience from the industry, thus enabling the transition from college life to corporate ready individuals. A perfect blend of Aptitude and Technical skills ensures that the students develop confidence and are ready to face the ever evolving selection processes of various companies. All companies recruiting students from various technical institutes look for different technical skills and personality traits before making an offer to the students. In order to sharpen their Technical Skills and polish their Aptitude Skills and make them ready for the corporate world, we offer comprehensive training programmes which are tailor-made for the requirement. This program aims at preparing the students from a campus point of view. The major components of the training are: • Quantitative Aptitude • Logical reasoning • Verbal Abilities • Technical Skills • Mock Interviews and GD The objective of Campus Recruitment Training: Campus Recruitment Training (CRT) program is exclusively designed for the students preparing for recruitment and is geared towards ensuring that the students are well equipped to get through the recruitment process of various companies. Following are the prime objectives of CRT program: • To prepare the students for recruitment in various companies. • To prepare the students for various quantitative exams. • To enhance overall competency levels of the student • To teach tricks technique based concepts. • To boost morale of participants through activity based learning. • To build confidence to face interviews. • To increase problem solving and analytical reasoning. • To develop effective time management. • To have quality placement conversion. The outcome of Campus Recruitment Trainings: 1.The CRT program is developed on the lines of tests conducted by TCS, Wipro, CTS, Infosys, Tech Mahindra, Accenture, IBM and other IT and Non-IT companies. Hence, students are able to face competitive exam. after attending this training. 2. AMCAT score card through which students can attend various recruitment drives. 3. As a result of persistent efforts

of the team YCCE, every year our students are getting placement in reputed MNC's with good salary packages. Our placement figures of last five years are- 3034. 4. The prominent recruiting MNCs are TCS, Wipro, Infosys, Techmahindra, NVIADIA, LT InfoTech, Capgemini, Persistent, Accenture, Tata Motors, TVS, MM, Kirloskar, Adani, Reliance, GMR, Vedanta, Shapoorji-Pallonji, HCC, Ambuja Cement, LT Construction, Adani, Power Plants, Lanco, etc. Incremental continuous improvement is an ongoing effort to improve our systems and processes. The observation of the external agencies is taken in right sprit and implemented rigorously. Major incremental improvements during the preceding five years are as under: Awards and Recognition: In the year 2016-17, UGC peer team visited YCCE granted 'Extension of Autonomy' for 6 years (2016-2022). 09 programs (6 UG and 03 PG) NBA accreditation and getting extension of accreditation. Consistent NIRF ranking since 4 years. All India 134th Rank in 2019, Ranked amongst Top 150 Engineering Institutions in 2018 and also in 2017, 93rd rank amongst IIT's, NIT's, Government and Autonomous Engineering Institutions by NIRF, MHRD, Govt. of India, All India 32nd Rank, 23rd Rank amongst Self-Financing 4th Rank in West Zone by Data Quest-CMR Ranking-2020. The institute is ranked 64th in Top 100 Private T-Schools for 2016 in All India and 9th in West Zone (Maharashtra, MP Gujrat). Received 2nd prize for Best College Magazine of the RTM Nagpur University Nagpur in 2019-20.

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

<https://www.ycce.edu/naac-plus.php>

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

Vision: To become the most preferred institution providing innovative, research and value based, professional education for the society at large. The founders have envisaged the vision of providing innovative, research and value based, professional education through skilled and competent workforce to the society by imparting quality education and training. The institution follows systematic educational practices for producing quality engineers through state-of-the-art educational infrastructure and innovation eco system to enrich both academic and research practices. Some of the measures are envisaged hereunder: The Institution has consciously put efforts in encouraging and adopting innovation in Teaching and Learning processes. The institute specially emphasises on Outcome Based Education (OBE) and Experiential Learning. Number of courses having focus on employability/Entrepreneurship/skill development are offered by the institution. Special focus is given for bridging the gap between Industry and Academia through Industry Institution Interaction. Centres of Excellence/incubation Centre and laboratories in collaboration

with industry give the required industry blend to the students. Campus recruitment Training (CRT) and Semester long internship in the industry are the notable initiatives of the institution through IQAC, to enhance and improve the employability skills of students. The Campus Recruitment Training aimed at sharpening the skills of pre-final year students to prepare them for the campus placement drives. As part of CRT the students have been trained in various skills such as communication skills, Aptitude skills, Reasoning skills, Leadership skills, and technical skills. The CRT program is developed on the lines of tests conducted by TCS, Wipro, CTS, Infosys, Tech Mahindra, Accenture, IBM and other IT and Non-IT companies. A perfect blend of Aptitude and Technical skills ensures that the students develop confidence and are ready to face the ever-evolving selection processes of various companies. The major components of the training are: Quantitative Aptitude, Logical reasoning, Verbal Abilities, Technical Skills, Mock Interviews and GD. The prime objectives of CRT program are:

- To prepare the students for recruitment in various companies.
- To build self-confidence to face interviews and to explore a career path.
- To enhance overall competency levels of the student.
- To increase problem solving and analytical reasoning through activity-based learning.
- To develop effective time management.

YCCE adapted the AICTE's scheme of semester long internship. Semester Long Internship for UG Final year students and a year-long internship for final year MTech students. Summer Internships is offered during the summer of third year of all under-graduate programmes. The industries will be offered by the TP department. However, students may contact industry for internship through their own resources and can join the internship after approval from TP department. The intended objectives of internship training:

- Learn, apply, and sharpen the technical/managerial skills through hands-on work experience in real industrial situations.
- Exposure to the current technological developments relevant to the discipline
- Expose the students to future employers to prepare industry ready workforce.
- Expose students to the engineer's responsibilities, ethics, and aspects of quality control.
- Develop innovative solutions leading to positive impact.
- Understand the social, economic, and administrative

Provide the weblink of the institution

<https://www.ycce.edu/naac-plus.php>

8.Future Plans of Actions for Next Academic Year

Quality Assessment Accreditation: • 2nd cycle NAAC Accreditation • NBA Accreditation of CT (UG) Structure Engg (PG) • Implementation of initiatives (AWL, DLA, DPP, CRT, Mentor-Mentee, innovative T-L methods) • AAA Audit • Revision of faculty student SOP/Policies Faculty Development: • SWAYAM/NPTEL Certification by Faculty • Permission to the Faculty for pursuing higher education • Teacher's registration as PhD supervisors • Participation of Faculty in STTP/FDP/Workshops • Consultancy by departments • Faculty Lecture Video Recording: Google Classroom Student Development:

• Establishing New Centre of Excellence (AI IoT) • Organization of various Student Development Activities Value-Added Courses • Guidance Expert Lectures for Competitive Examinations preparation • Visit of Students to Institute of Eminence/Research Labs • Development of e-Resources: Question Banks Solution Sets • Practicing Innovative Methods in Teaching and Learning • SWAYAM/NPTEL Certification by Students • MOOCS Courses to be offered by the department • New language (German) to offer • Workshops on Industry-Academia innovative practices Entrepreneurship • Offering Research Organization aligned courses by departments • Carrier Guidance (CRT, Mock Interviews, Aptitude Tests etc.) R D Activities • • Quality Paper Publications in SCI, SCOPUS, Web of Science Indexed Journals and Conferences • Increasing paper citations count papers with 10 citations • Workshops/Seminars on IPR • Book/Book Chapter and Monograph Publication • Patent Copyright Proposal Submission • Submission of Proposals to Funding Agencies • Faculty/Students visits to Research Institutes/ Industries • Start-ups ideas incubation in Incubation Centre • Increasing PhD scholars' registration under supervisors • Teachers' recognition as PhD supervisor • Full time PhD in YCCE • Research Lab Linkages for Collaborative Research/Joint Projects Institute- Industry Interaction: • Industry involvement in development activities (Co-guides for Projects, Joint Projects, Joint Publications, Resource Person for CDW, FDP/STTP, Syllabus Content Delivery) • Industry Linkages through Industrial Tours/Visits etc. • Offering Industry Aligned Open Elective Courses • Centre of Excellence in the departments • Industry supported labs. establishment • Industry based training programs for students Interaction with Stakeholders: • Interaction of the management with the Students • Alumni Meet Alumni involvement in department activities • Parent Teacher Meet as per academic calendar • Interactions with Recruiters/Employers Extension Activities: • Participation of Students in NSS Events • Blood, Book/Cloth Donation Camp • Orphanage Visit etc. • Gender Sensitization Programs Initiatives for Eco-Friendly Campus: • Green Measures: Tree Plantation, Rain-water harvesting • Installation of Solar Energy panels on the roof of buildings • Automation of Academic Processes • Save Water Electricity through sensor enabled devices • Roof Water Harvesting Other Activities: • Starting new UG PG Courses in YCCE • ESE Result declaration within 15 days from last date of exam. • Online Student Feedback, ATR display on Notice Boards • New Experimental Set-ups establishment in labs. • Student Campus Placement with good salary package • New MoU's with national/international recognized bodies. • Feedback from Employers Alumni on Curriculum