



Yearly Status Report - 2019-2020

Part A

Data of the Institution

1. Name of the Institution	KARMAVEER BHAURAO PATIL COLLEGE OF ENGINEERING, SATARA
Name of the head of the Institution	Dr. A. C. Attar
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	02162-230636
Mobile no.	9970700901
Registered Email	office@kbpcoes.edu.in
Alternate Email	registrar@kbpcoes.edu.in
Address	CTS No 453, Near RTO Office Satara
City/Town	Satara
State/UT	Maharashtra
Pincode	415001

2. Institutional Status					
Affiliated / Constituent		Affiliated			
Type of Institution		Co-education			
Location		Urban			
Financial Status		Self financed			
Name of the IQAC co-ordinator/Director		Mrs. Mane Sunita Vijay			
Phone no/Alternate Phone no.		02162230636			
Mobile no.		9822096597			
Registered Email		iqac@kbpcoes.edu.in			
Alternate Email		sunita.mane@kbpcoes.edu.in			
3. Website Address					
Web-link of the AQAR: (Previous Academic Year)		https://www.kbpcoes.edu.in/aqar			
4. Whether Academic Calendar prepared during the year		Yes			
if yes,whether it is uploaded in the institutional website: Weblink :		https://www.kbpcoes.edu.in/files/Academic Calendar 19-20 signed principal.pdf			
5. Accrediation Details					
Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	B++	2.87	2019	09-Sep-2019	08-Sep-2024
6. Date of Establishment of IQAC			09-Oct-2012		
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		
IQAC Meeting	26-Nov-2019 1		14		

IQAC Meeting	09-Mar-2020 1	12
IQAC Meeting	29-Jun-2020 1	11
Workshop	03-Aug-2019 1	40
Faculty Development Program	10-Feb-2020 5	37
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8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/ Faculty	Scheme	Funding Agency	Year of award with duration	Amount
No Data Entered/Not Applicable!!!				
No Files Uploaded !!!				

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

Yes

Upload latest notification of formation of IQAC

[View File](#)

10. Number of IQAC meetings held during the year :

3

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website

Yes

Upload the minutes of meeting and action taken report

[View File](#)

11. Whether IQAC received funding from any of the funding agency to support its activities during the year?

No

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

IQAC Meetings Academic Monitoring Feedback of stakeholders Training Programs Enhancement of eLearning by students

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

Plan of Action	Achivements/Outcomes
Organizing Guest / Expert Lectures	Students get in depth information on certain topics through such lectures by experts in that field. 30 Guest lectures are organized in the AY 201920.
Organizing Conference / Seminar / Workshop / FDP	Provides platform for interaction among faculty / students on technical topics.
Arranging Industrial / Site Visits	It helps enhance the understanding by observing the things on site.
Research Publications (Conference)	Provide platform for discussion and opportunity to share one's ideas on certain topic
Research Publications (Journal)	Provide opportunity to share one's ideas and help enhance the knowledge in certain area.
MOU with organization/University/Institute	Provide legal means to use and support mutual strengths with other organizations.
Organizing Outreach activities for society	Increases awareness about social issues and gives feeling of contentment
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14. Whether AQAR was placed before statutory body ?	Yes
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Name of Statutory Body	Meeting Date
Board of Governance	22-Jul-2021

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	Yes
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Date of Visit	19-Aug-2019
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16. Whether institutional data submitted to AISHE:	Yes
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Year of Submission	2019
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Date of Submission	02-Jan-2019
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17. Does the Institution have Management Information System ?	Yes
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If yes, give a brief description and a list of modules currently operational (maximum 500 words)	The institute has all the computers connected into the network and it has become easier to work collaboratively
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with all the stakeholders. The institute has implemented the management information system to support all the stakeholders in an efficient and effective way. All the required modules of the MIS are made available to the students, staff and faculty and administration of the institute. The modules in the system include inward/outward, student section, scholarship, account, establishment, etc. Also, the institute has Tally 6 software used for accounting, which is updated to Tally ERP 9 release 6.4.8 in 2018 with the latest supports. The institute also deployed the Learning management system Moodle, which is hosted on the local server and is made available to all the students and faculty. The FTP server is used for distributing the E-learning resources to the students. The library is using MKCL's Libreria software for accessioning, cataloging of books, circulation of books, and circulation of book bank and registration of members.

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Planning and Implementation

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

The Institution has developed and practices its extensive action plan for effective implementation of the curriculum. Institution Academic calendar is prepared considering academic calendar of Affiliating university which consists of unit test schedule, assessment schedule, university examination schedule, department, and Institution level activities, Co-curricular, extra-curricular activities, and monitoring schedule. Based on the Institute Academic Calendar every department prepares the departmental academic calendar. In each semester, subject allotment to faculty is based on the choices received from faculty. Time table for the entire semester is framed with provision for, tutorials, seminar and Project/ Miniproject hours. Lecture and Laboratory plan is prepared by the faculty at the beginning of every semester in line with the academic calendar and displayed on the LMS/ personal websites. Faculty prepares notes, question bank, lab manuals for the course handled by them in line with the university syllabus and it is uploaded on MOODLE /Google Classroom/Personal Website etc. Course files are maintained by the faculty members for the subjects handled which contain all the documents necessary for the implementation of the action plan. Teachers can strengthen their knowledge in the subjects listed in the curriculum by attending the Faculty Development Programme of their courses. Monthly review of the student's attendance for an individual course is taken by course coordinator and departmental academic coordinator. Subject knowledge of the students is evaluated through the Class test, Quiz, Seminar, Project based learning, Mini-project and Project work.

Monthly syllabus completion is reviewed by the head of the department. To create a better learning atmosphere, the head of the department allocates faculty as a Mentor of students for mentoring academic and personal issues. For the holistic development of students institute provides Soft skill training, Certificate courses, Value added courses, Add-on programs by inviting experts from various fields of industries to share their expertise. Students are encouraged for the Internship and Industrial visits to provide real-time exposure to the students. Industrial collaboration and signing MoUs are facilitated to give exposure to practical needs. Remote access of Library is provided and Books, Journals, and e-resources are made available through the Library portal. All the laboratories are well equipped to enable the students to gain the skills required for their future grooming. Institute has adopted innovative teaching-learning processes, tools, and techniques by implementing the advanced concept of teaching pedagogy, use of ICT for enhancing teaching learning experience. For learning enhancement, different resources such as the National Digital Library, Information, and Library network center, LMS, NPTEL local chapter, Virtual Lab, FOSS Laboratory etc. facilities are provided. Teaching learning process was effectively continued through online mode with the help of different LMS platforms during Covid-19 pandemic.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entrepreneurship	Skill Development
REVIT - Building Information Modeling software in Building Planning and Design"	Nil	20/02/2020	4	Employability	Technical Skill Development
Application of Total Station in Civil Engineering	Nil	20/02/2020	4	Employability	Technical Skill Development
Two Weeks Online Course on Software Applications In Structural Engineering	Nil	01/06/2020	12	Employability	Technical Skill Development
Certificate course in campus placement preparation Aptitude and soft skills	Nil	15/07/2019	10	employability/entrepreneurship	Soft Skill Development
Certificate	Nil	15/07/2019	10	employability/entrepreneurship	Soft Skill Development

course in "Campus Placement Pr eparation- Aptitude Soft skills"				neurship	
Personality Development	Nil	30/08/2019	15	employabil ity/entrepre neurship	Soft Skill Development
Certificate course on Python-Path way to AI ML	Nil	26/02/2020	15	Employabil ity	Technical Skill Development

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
Nil	NIL	Nil
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BTech	CIVIL Engineering	01/07/2019
BTech	Computer Science and Engineering	01/07/2019
BTech	Electronics Engineering	01/07/2019
BTech	Mechanical Engineering	01/07/2019

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

	Certificate	Diploma Course
Number of Students	386	Nil

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
Networking Tools and Internet of Things	21/02/2020	85
Developing Ideas in to Product Business	20/09/2019	140
Recent Trends in Automobile Design	20/09/2019	140
Electrical Vehicles Skill development	11/10/2019	150
Practicing Learn Manufacturing in MSME	11/10/2019	150
World Class Quality	10/10/2019	140

Students of BE Mechanical participated in Entrepreneurship development Camp at DG College Satara organized by Govt. of Maharashtra (BARTI)	12/02/2020	6
Students of BE Mechanical Participated in Entrepreneurship Development Awareness program "At Post Satara" organized by Shrinivas Patil Foundation	29/02/2020	6
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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
BTech	Computer Science &Engineering	224
BTech	Mechanical Engineering	225
BTech	Electronics Engineering	185
BTech	Civil Engineering	240
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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)

<p>Feedback Obtained</p> <p>The purpose of this Policy is to provide a framework for obtaining, summarizing and documenting information on student and stakeholder perceptions of the quality and effectiveness of the Institute's curriculum. It is then used for effective program evaluation, accreditation and other academic quality assurance processes and activities. The Feedback policy is designed to Monitor and improve the quality of students' learning experiences through the timely collection, analysis and reporting of student feedback concerning teaching, learning and assessment. This provides students and stakeholders with the opportunity to actively participate in the continual improvement of programs. The Feedback Ensures the provision of information to students and stakeholders regarding the consideration of feedback collected over time, including actions taken to address concerns raised in any feedback received. All students and stakeholders have the opportunity to provide feedback. Student feedback is a core component of program evaluation but feedback is also sought from Alumni, Graduates, Parents. The Institute seeks student feedback in a form which can be</p>

captured, analyzed and reported every time a course is delivered through course end survey. A core set of questions will form the basis of a survey deployed to systematically evaluate teaching and learning in all UG PG courses. Recommendations made from the feedback comprise, recommendations to Board of studies for changes in the syllabus of the university and the suggestions made to management on procurement of facilities and equipment. • Recommendations received from the heads are discussed in HODs meeting and forwarded to management for approval/sanctions. The whole objective of the this policy is effective implementation of Curriculum for better learning and continuous improvement of the processes and practices.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BTech	Civil Engineering	270	280	280
BTech	Computer Science & Engineering	270	294	294
BTech	Electronics Engineering	342	262	262
BTech	Mechanical Engineering	270	258	258
BTech	Production Engineering	Nil	24	24

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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	1118	8	65	3	68

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
68	68	21	21	21	15

[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)

In order to improve performance of the students with respect to their attendance, results and participation in various activities, there is a close association between teachers and students. In addition, some of the students need personal guidance and counseling. The Institution follows a student's mentoring system through Mentor Mentee scheme wherein the academic and personal issues of the students are looked after. The faculty mentor maintain a record sheet for each of his/her ward. The record sheet contains all information concerning the students 'attendance, marks obtained in the end semester examinations, achievements if any in curricular, co curricular and extracurricular activities. The Mentor Mentee scheme is developed to closely monitor every student's academic performance and ensure that his/her performance improves. Mentor Mentee scheme also ensures that parents are regularly updated about their ward's progress. The Institution has also appointed professional counselors to address the personal, psychosocial and other problems of the students. The Training and Placement Cell of the Institution assists the students by conducting trainings, seminars and workshops for their overall grooming thereby making them eligible for better placement opportunities. The Institution provides fee waiver facility to economically weaker students in order to support them to continue their education. Various committees are in place to motivate and encourage the students to participate in competitions at different levels.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1118	68	1:16

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
68	68	Nil	25	9

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. Shabina Sayyad	Associate Professor	IIITDM HACKATHON Mentor
2019	Prof. Ganesh Dangat	Assistant Professor	IIITDM HACKATHON Mentor
2019	Prof. Ganesh Dangat	Assistant Professor	IITB Appreciation Letter From IITB Spoken Tutorial
2019	Dr. Dilip Aldar	Associate Professor	Mentor Recognition Certificate
2019	Prof. Pravin Jadhav	Assistant Professor	Best Paper in technical session
2019	Prof. Suresh Nipanikar	Assistant Professor	NPTEL Motivated learner
2019	Prof. Suresh Nipanikar Prof. Suresh Nipanikar	Assistant Professor	NPTEL Discipline star
2019	Prof. Suresh Nipanikar	Assistant Professor	NPTEL Beliver

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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	BE Electronics Engineering	VIII	21/10/2020	Nill
BTech	B.Tech.Electronics Engineering	VI	Nill	23/07/2020
BE	BE Mech. Engineering	VIII	21/10/2020	Nill
BTech	B.Tech.Mech. Engineering	VI	Nill	23/07/2020
BE	BE Civil Engineering	VIII	22/10/2020	Nill
BTech	B.Tech. Civil Engineering	VI	Nill	28/07/2020
BTech	B.Tech. Civil Engineering	IV	Nill	28/07/2020
BTech	B.Tech. Civil Engineering	II	Nill	28/07/2020
BTech	B.Tech.Electronics Engineering	VI	Nill	23/07/2020
BE	BE Electronics Engineering	VIII	21/10/2020	Nill

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

Continuous Internal Evaluation is an important element of the teaching and learning process. Earlier the evaluation system was less student-centric. Following reforms are implemented in present continuous internal evaluation system:

- Continuous Internal Evaluation System: To make the education strategy sound, the institution implements a uniform Continuous Internal Evaluation (CIE) System to be implemented by all programs, to evaluate all aspects of a student's performance on a regular basis throughout the year. The common formats are designed for internal evaluation to ensure the uniformity in the assessment process.
- Notification of Evaluation Process: Students are made aware of the evaluation process through the following initiatives: 1 .Academic Calendar with CIA and examination dates. 2. Evaluation procedure on notice board. 3. Published on the website.
- Tools of Assessment: The process of continuous evaluation is employed through various tools like internal midterm tests, assignments, tutorials, online test, unit test, laboratory work, internal viva, etc. The course coordinator announces the distribution of marks for the assessment, the various components of the assessment is decided by the course coordinator and are announced in the class within the first fortnight of the semester
- Examination: Unit wise question banks are provided to the student, which may be useful for the preparation of unit test and university

examination. During semester two internal midterm tests are conducted. After the internal examination, the performance of the students is analyzed and if necessary the Re-test is conducted. The remedial measures are taken by conducting tutorial classes to clarify the doubts. Surprise test is conducted on various units. Many time online tests are conducted by using Testmoz, Moodle, Piazza, Kahoot and Google Forms. • Grievance and Transparency: After the assessment through the unit test, the result is shown to students. If students have any grievance about the assessment of the internal test that is clarified. • Continuous Evaluation of Project Work: For the final year project, the synopsis seminar is conducted and the projects are finalized, the log book is maintained, the weekly review of the works is taken by the guide and monthly progress report is submitted by the students. The progress of the project is monitored by the departmental progress monitoring committee twice in the semester. At the end of the semester, the presentation and demonstration of the project are given to the departmental committee. It has resulted in substantial improvement in the student's performance through comprehension of difficult topics, improved time management, enhanced writing skills and individualized attention resulting in refining their cognitive, psychomotor and affective domains of learning. • Evaluation of Laboratory Work: The laboratory plans are prepared by every laboratory Coordinator /course coordinator and displayed on the notice board, published on the LMS Website, personal website. The assessment of the experiments conducted in the particular week is assessed in the next week. The assessment criteria are also displayed and communicated to the students and assessment of the journal is done by the laboratory/course coordinator.

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

The institute is affiliated to Shivaji University, Kolhapur (for fourth year of B.E. Programme) and Dr. Babasaheb Ambedkar Technological University, Lonere for F.Y., S.Y. and T.Y. classes. The Institute prepares and practices its action plan for effective implementation of the curriculum. Institute Academic Calendar is prepared considering academic calendar of affiliating university which consists of unit test schedule, assessment schedule, university examination schedule, department, and institute level activities, cocurricular, extracurricular activities, and monitoring schedule. • Based on the Institute Academic Calendar every department prepares the departmental academic calendar. • In each semester, subject allotment to faculty is based on the choices received from faculty. • Time table for the entire semester is framed with provision for, tutorials, seminar and Project/Mini-project hours. • Lecture and Laboratory plan is prepared by the faculty at the beginning of every semester in line with the academic calendar and communicated to the students at the start of the semester. • Evaluation scheme for each course is prepared in the beginning of the semester and is communicated to the students. • Continuous assessment is planned and carried out as per the formats given by Dean Academics. • Subject knowledge of the students is evaluated through the Class test, Quiz, Assignments, Seminar, Project based learning, Mini-project and Project work. • As per the calendar, Schedule of Unit Tests and Mid-Sem Exams are prepared and communicated to the students accordingly examinations are conducted.

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.kbpcoes.edu.in/aqar-2019-20-criteria-ii#>

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
627019110	BE	Civil Engineering	82	82	100
6270612110	BE	Mech. Engineering	77	77	100
627037610	BE	Electronics Engineering	95	95	100
627024210	BE	Computer Sci. & Engg.	78	78	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.kbpcoes.edu.in/aqar-2019-20-criteria-ii#>

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Resource Mobilization for Research

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

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Industry sponsored Projects	365	KAVITSU Robotronix Pvt. Ltd. Add. MIDC Satara	10000	10000
Industry sponsored Projects	365	RajLakshmi Mech. Engineering Ltd.	15000	15000
Industry sponsored Projects	365	RIO 3D Printers Malkapur Karad	30000	30000
Industry sponsored Projects	365	Breson Wind turbine and development work, Pimpri Chinchwad Pune	20000	20000
Industry sponsored Projects	365	Jas Incorporation Satara	20000	20000
Industry sponsored Projects	365	A.V.Tech Satara	10000	10000
Industry sponsored Projects	365	Oracle Industries Satara	14000	14000

Industry sponsored Projects	365	Techno- tronics Technology Satara	10000	10000
Industry sponsored Projects	365	Sagar Gears, Additional MIDC Satara	12000	12000
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3.2 – Innovation Ecosystem

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

Title of workshop/seminar	Name of the Dept.	Date
One day workshop on 'Research Methodology' for final year Students of all branches.	Civil Engineering	03/08/2019
Project idea competition	Computer Science and Engineering	01/10/2019
One Day Symposium On Digital Security and Cyber Crimes	Computer Science and Engineering	28/02/2020
One Day Symposium On "Cyber Security and ethical Hacking "	Computer Science and Engineering	11/03/2020
One day workshop on 'Research Methodology' for final year Students of all branches.	Electronics Engineering	03/08/2019
Scope of Electrical Vehicles in Future	Mechanical Engineering	30/08/2019
Developing Ideas in to Product Business	Mechanical Engineering	20/09/2019
Skill Development in MSME Technology Centre INDO German Tool Room Aurangabad	Mechanical Engineering	26/07/2019
One week FDP on Research Methodology- Techniques softwares	Mechanical Engineering	11/11/2019
Students of BE Mechanical participated in Entrepreneurship development Camp at DG College Satara organized by Govt. of Maharashtra (BARTI)	Mechanical Engineering	12/02/2020

3.2.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
NIL	NIL	NIL	01/07/2019	NIL

No file uploaded.

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

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
CIII	CIII Incubation Center	Rayat Shikshan Sanstha , Satara	Programmable Bell	Product	01/07/2019

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3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
0	0	0

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

Name of the Department	Number of PhD's Awarded
NIL	Nil

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

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Civil Engineering	9	2.94
International	Computer Science and Engineering	3	3.66
International	Electronics Engineering	8	3.29
International	Mechanical Engineering	9	3.16

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

Department	Number of Publication
Mechanical Engineering	9
Electronics Engineering	1
Computer Science and Engineering	6
Civil Engineering	5

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

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Reliability and	Dr.Shabina	International	2019	Nil	KBPCOE, Satara	Nil

Integrity in Lightweight Data exchange for mobile cloud computing	Sayed	Journal of Computer Science and Engineering			
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3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Multi Objective Optimization of Fused Deposition Modeling Parameters for PC/ABS Blend Material Parts using GRA	Aamir M. Shaikh	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	2019	3	Nil	KBPCOES
Comparative Study on a Straight and Helical Capillary Tube for CO2 and R22 Refrigerant	Jadhav, P., Agrawal, N.	J. Thermal Sci. Eng. Appl.	2020	4	Nil	KBPCOES
Choked flow behavior of CO2 refrigerant flowing through the spiral capillary tube	Jadhav, P., Agrawal, N.	International Journal of Air-Conditioning and Refrigeration	2020	4	Nil	KBPCOES
Cross Domain Image Retrieval System: Bag-of-Visual Word integ	Dr.Patil Suhas S.	Journal of Seybold Report	2020	6	Nil	KBPCOES

ration with SIFT						
A Survey of Advanced Spectrum Sensing	Dr.Patil Suhas S.	AJET volume 9 issue 1	2019	6	Nil	KBPCOES
Power Quality improvement of grid connected inverter	Dr.Kanse Y.K.	IEEE	2019	18	Nil	KBPCOES
ATM Security Using Biometric Fingerprint Device	Desai A.S.	Journal of Interdisciplinary Cycle Research	2020	1	Nil	KBPCOES
Diabetes Detection System	Dr.Shabina Sayyed	Journal of Critical Review -	2020	2	Nil	KBPCOES
Reliability and Integrity in Lightweight Data exchange for mobile cloud computing	Dr.Shabina Sayyed	International Journal of Computer Science and Engineering	2020	2	Nil	KBPCOES
Evaluation and Remedial Measures on Premature Failure of Roads in India	Anand B. Tapase, et.al.	Journal of Performance of Constructed Facilities, ASCE	2019	8	Nil	KBPCOES
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3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Presented papers	21	Nil	Nil	Nil
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3.4 – Extension Activities

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

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Five days workshop on Fostering Personal Development and social program foundation	Bahai Academy, Pachgani	2	5
Conducted seminar on Career Opportunity after 12th class students at Nagthana, Satara.	Electronics Engineering Dept of kbpcoesatara	3	47
KBP Talk on "To understand the changing mindset of youth"	MECHANICAL ENGINEERING Dept of kbpcoesatara	10	190
KBP Talk on "Challenges in Employment oriented educational system"	MECHANICAL ENGINEERING Dept of kbpcoesatara	10	190
189th Birth Anniversary Krantijyoti Savitribai Phule	CSE Dept of kbpcoesatara	25	Nil
Training Provided to childrens How to operate a computer in ZP school,Javali Andheri	CSE Dept of kbpcoesatara	4	50
Visit to an old age Home	CSE Dept of kbpcoesatara	2	140
Womensa..Nirbhaya Pathak	Nirbhaya	25	150
KBP Talk	team Tedxkbpcoesatara and team kbptalks	5	50
TEDx	Tedxkbpcoesatara	5	40
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3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
IITB Appreciation Letter From IITB Spoken Tutorial	Work As single point of Contact	IITB	200
IIITDM kanchipuram	Mentor Certificate	IIITDM Kanchipuram	4

Hakathon 2019			
India Innovation Challenge Design Contest 2019	Mentor Recognition Certificate	Texas Instrument, India	6
Ty CSE Students got first prize In DBATU Xonal Avishkar in engg and tech section poster topic based on fire brid V Robot.	first prize In DBATU Xonal Avishkar	DBATU	1
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3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Participated in Swachh Sarvekshan Gramin	Chief Executive Officer, ZillaParishad, Satara.	Social Activity	5	50
Conducted Seminar of Student Rights and Gender Equality under ICC	S.P. Satara	Social Activity	10	100
Conducted Seminar on Nirbhaya Pathak	S.P. Satara	Social Activity	25	150
TEDx	Tedxkbpcoesatara	TEDx Community	5	50
KBP Talk	team Tedxkbpcoesatara and team kbptalks	TEDx Community	5	50
Women Empowerment program under ICC Cell.	kbpcoesatara	Social Activity	4	50
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3.5 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
Sponsored Project	Jadhav Ashish , Patil Tushar ,Dalavi Lakhan, Shaikh Usaman	RIO 3D Printers Malkapur Karad	365
Sponsored	Bhat Hrishikesh ,	Breson Wind	365

	Badekar Nikhil, Pharande Shubham , Kulkarni Shreyas	turbine and development work, Pimpri Chinchwad Pune	
Sposored	Dhavale Laiki, Kadam Digvijay, Tadsarkar Arsad , Tulsankar Sanket	Jas Incorporation Satara	365
Sposored	Bale Chaitanya, Bhasme Vishal, Shinde Aniket , Tapase Dhanshri	A.V.Tech Satara	365
Sposored	Awaghade Avinash, Sakhare Nikhil, Thorat Tejas, Shinde Ganesh	Oracle Industries Satara	365
Sposored	Lohar Pooja , Kanthe Nikita S , Phadtare Sayali, Rutuja More	Sagar Gears, Additional MIDC Satara	365
Sposored	Shende Jeet, Gujar Ganesh, Mulani Nahil, Shinde Pooja	RajLakshmi Mech. Engineering Ltd.	365
Sposored	Rajage Sangram, Nipane Sangram , Sakharkar Ranjeet, Sapkal Sanket	KAVITSU Robotronix Pvt. Ltd. Add. MIDC Satara	365
Sposored	Manjiri Devale,Supriya Kadam, Komal Ingale,Rutuja Awale, Aarti Hirve	Shreeman Hotel Satara	365
Sposored	Kudale Snehal Sanjay, Bhosale Sayali M., Shinde Sayali Anil, Chavan Pallavi S.	Komal Infotech Satara	365
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3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
internship	training training)Scholiverse Educare Pvt. Ltd. B-610, Unitech	07/06/2020	20/07/2020	Student

		Business Zone, Nirvana Country, South City 2, Gurgaon, India - 122018			
internship	training,	BSIT classes	25/05/2020	06/07/2020	Student
internship	training,	Cognitive	10/05/2020	26/05/2020	Student
internship	training,	Coursera	11/05/2020	03/08/2020	Student
internship	training,	Dell	05/04/2020	20/05/2020	Student
internship	training	Vinay Engineers Fabricators, Satara	01/06/2020	30/06/2020	Student
internship	training	Solo Learn	05/06/2020	25/06/2020	Student
internship	training	Geecy Engineering Private Limited, Navi Mumbai	01/06/2020	30/06/2020	Student
internship	training	Viraj Engineering Company , Nashik	01/06/2020	30/06/2020	Student
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3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
COEP	01/01/2019	VLNC	110
Reliance Jio	01/01/2019	INDUSTRIAL VISIT	60
Priar Web Pvt Ltd	01/01/2019	Intenship Program project	86
Acme Pvt Ltd Satara	01/01/2019	Intenship Program project	20
microsoft imagin Academy	01/01/2019	WORKSHOP	41
CYCLO TRANSMISSIONS LIMITED SATARA. Post Patkhal, Satara	01/01/2019	Sponsored project	5
Abhijat Equipments Satara	01/01/2019	Sponsored project	4
Beacon Gear Transmission Pvt	01/01/2019	Inplant training	5

Ltd Satara			
TOP Gear Transmission Pvt Ltd Satara	01/01/2019	Inplant training	2
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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
76.85	143.03

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Video Centre	Existing
Seminar halls with ICT facilities	Existing
Classrooms with LCD facilities	Existing
Seminar Halls	Existing
Laboratories	Existing
Class rooms	Existing
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
Libreria	Fully	2.0.3572.20296	2019

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Others(s pecify)	10	19158	16	22133	26	41291
Text Books	31922	6856688	217	109868	32139	6966556
Reference Books	8526	1885195	237	69936	8763	1955131
e-Books	2260	13570	2260	13570	4520	27140
Journals	60	231294	55	221971	115	453265
e- Journals	400	13570	400	13570	800	27140
Digital Database	2	13570	2	13570	4	27140
CD & Video	1209	Nil	1209	Nil	2418	Nil

Library Automation	1	12980	1	12980	2	25960
Weeding (hard & soft)	2903	385244	14	4355	2917	389599
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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Prof.Patil N K	Design of concrete structure	Google Site, Google Classroom	01/07/2019
Prof.Mrs.Karande U V	Enviornmental engg.	Google Site, Google Classroom	01/07/2019
Mrs.Sayyad S G	Business Communication	Google Classroom	01/07/2019
Mrs.Ghatage D D	Machine Learning	Google Site, Google Classroom	01/07/2019
Mrs.Mane S V	Electronic Devices Circuits	Google Site	01/07/2019
Dr.Kanase Y K	Electro Magnetic Theory	Google Site	01/07/2019
Prof.Dr.Mandave H A	Material Science Metallurgy	Google Site	01/07/2019
Prof.Mrs.Shinde M Y	Mechanical System Design	Google Classroom	01/07/2019
Prof. Malvade N V	Production Operation Management	Google Site, Google Classroom	01/07/2019
Prof.Shiakh A M	Rapid Prototype	Google Site, Google Classroom	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	702	15	2	15	1	10	4	50	5
Added	0	0	0	0	0	0	0	0	0
Total	702	15	2	15	1	10	4	50	5

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

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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
Video Lecture Capturing System, Videos, Ebooks, Multimedia Contents, Virtual laboratory, Foss Laboratory, Digital Board, Open Source Software etc.	https://www.kbpcoes.edu.in/e-content

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
13.1	25.03	76.85	118

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. Response: The institute has standard established systems and procedures for maintaining the physical, academic and support facilities. Housekeeping and Maintenance section is divided into various subsections such as Housekeeping, Electrical Maintenance, IT Infrastructure Development and Maintenance (IT Cell), Building Maintenance etc. A maintenance request is submitted to the principal and same will be forwarded to the maintenance in charge. The in-charge will register the request and forward the same to respective maintenance personnel and coordinates the material requirement if any with stores. The maintenance in-charge takes the follow up on the status of the maintenance work from the respective section until the completion of the work. Electrical Maintenance and Electrical substation maintenance: The electrical installations and maintenance of electrical equipment in the institute is taken care of by the electrical maintenance section. For maintenance requisitions are received from the concern departments regarding the repairs of electric Tube lights, fans and electrical machinery installed in various labs, then prepare a schedule of maintenance, and implement accordingly. The required electrical material is sourced by the stores of the institute. If required external agencies may be employed with the prior permission of the principal. The annual budget is prepared and submitted for approval to the principal. The substation maintenance includes maintenance of transformer oil filtration, replacing silica gel crystals in transformer breather, greasing of air break switches, Painting of structure, maintenance of CT PT units, the removal of any grown plants, grass, etc. within yard, inspection of earthing and earth resistance as per IS code and annual Inspection from Electrical inspector (PWD). IT Infrastructure Development and Maintenance (IT Cell): The IT infrastructure development and maintenance committee (IT CELL) is responsible for the development of the institute structured network, maintenance of the network, maintenance of the computers, printers, server installation and maintenance, website development, maintenance, and updating. Along with that the EPBX system of the institute is maintained through IT Cell. For the IT infrastructure, the required IT infrastructure layout, requirement, procurement, installation, and maintenance

are done through IT Cell. The computer and printer maintenance is resolved at the local level based on the problem with computer and printer to the IT cell.

Building Maintenance, Building services, Plumbing, Sanitary: The central maintenance committee looks after the maintenance of civil works such as plumbing Sanitary systems, leakages if any, potable water filters, Cleaning of water tanks, and related maintenance. The maintenance and housekeeping of the classrooms, laboratories, library, and the institute as a whole are taken care of by the non-teaching staff. **Departmental Equipment and Instrument maintenance:** The laboratory in-charge and laboratory assistant identifies the instruments and equipment which are faulty and are to be repaired and prepares the list and the request letter to the principal through the head of the department. The quotations are called for the repair and maintenance following the procedure of the College and Sanstha, based

<https://www.kbpcoes.edu.in/aqar-2019-20-criteria-iv#>

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	Emerson, S.S.T /P.S.T	33	416000
Financial Support from Other Sources			
a) National	SCHOLARSHIP, FREESHIP	861	49420429
b)International	Nil	Nil	Nil
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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Two days workshop on 'Structural Modeling' in association with IIT Madras for final year students.	27/07/2019	50	IIT Madras
One day workshop on 'Research Methodology' for final year Students of all branches.	03/08/2019	110	IQAC KBPCOES SATARA
Visit to apartment for the preparation of Valuation Report	16/09/2019	16	KBPCOES SATARA
Guest lecture by Dr. Jalinder Patil on 'Aspects of automation in road	23/09/2019	46	KBPCOES SATARA

construction and maintenance' for Final year students			
Expert lecture on 'Role of Architect in Civil Engineering' by Mr. Chandrashekhar Pawar for all Civil Engg. Students	27/09/2019	64	KBPCOES SATARA
Guest lecture on 'Quantity Surveying and Tendering Process' by Mr. Mangesh Lawand	01/10/2019	50	KBPCOES SATARA
Guest lecture on Surveying' at ITI Satara	10/10/2019	50	KBPCOES SATARA
Guest lecture by Mr. Shambhuraj Patil on 'Introduction to Limit state design for steel structures' for third year students arranged	15/10/2019	90	KBPCOES SATARA
Guest lecture on ' Introduction to Finite Element Method' by Mr. A.V. Salunkhe for third year students arranged	16/10/2019	75	KBPCOES SATARA
Guest lecture by Mr. Achal Mali on 'Engineering Surveying and opportunity carrier as a surveyer' for second year students	17/10/2019	55	KBPCOES SATARA
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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	Brief Journey as a	140	140	Nil	140

	Entrepreneur .				
2019	Skill Development in MSME Technology Centre INDO German Tool Room Aurangabad	115	115	Nil	115
2019	Certification Course on Basics of German language	40	40	Nil	40
2019	TCS Mock interview	6	6	Nil	6
2019	Industrial Visit For Second year students at RCF Company Alibuag	60	60	Nil	60
2019	Attitude and psychometric test for Faculty	130	130	Nil	130
2019	Expectations from Graduate Engineers	150	150	Nil	150
2019	One week FDP on Research Methodology-Techniques & softwares	51	51	Nil	51
2019	Seminar on "Preparation for Defence Services"	125	125	Nil	125
2020	Students of BE Mechanical participated in Entrepreneurship development Camp at DG College Satara organized by	6	6	Nil	6

Govt. of
Maharashtra
(BARTI)

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

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
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
Capgemini	27	4	Coditas	8	1

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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2020	4	Electronics Engineering	Electronics Engineering	KBPCOES satara	KBPCOES satara
2020	2	Computer Science and Engineering	Computer Science and Engineering	California State University	Master of Science (MS)

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5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
GRE	2
TOFEL	2

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

Activity	Level	Number of Participants
Shivjayanti Mahatsav	Institute	400
Sports Week	Institute	150
RAAS Dandiya	Institute	250
Distribution of sweets and Diwali celebration with Waste collector	Institute	35
Diwali Celebration along with students in	Institute	37

Remand Home		
Women Empowerment program under ICC Cell.	Institute	54
Womeniaa..Nirbhaya Pathak	Institute	175
KBP Talk	Institute	55
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5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	Gold Medal	National	1	Nil	Nil	Bhosale Nikhil Ramchandra
2019	Gold Medal	National	2	Nil	Nil	Pujari saurabh Suhas Jadhav Shubham Hanmant
2019	Gold Medal	National	2	Nil	Nil	Sable Nikita Vikas, Panaskar Harsha Milind
2019	Gold Medal	National	1	Nil	Nil	Sable Nikita Vikas
2019	Gold Medal	National	6	Nil	Nil	Kanse Sangram Pandurang, Pujari saurabh Suhas, Nikam Vikrant Raju, Kapale Omkar Vijay, Nikam Sanket Sanjay, Khillare Mukund Hanmant
2019	Gold Medal	National	1	Nil	Nil	Mohit Shubham Suresh

2019	Gold Medal	National	1	Nil	Nil	Shinde Samrudhi Ganesh
2019	Gold Medal	National	1	Nil	Nil	Patil Dn yaneshware Vishnu
2019	Gold Medal	National	Nil	Nil	Nil	Mulani Shaharakh Rafique
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5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

The Students Council is established at the institute under the Maharashtra University Act. In addition to representation from faculty and staff representations, from students on Students' Council is as follows: • One regular student from each class. • One student from the categories like sports, National Cadet Corps (NCC), National Service Scheme (NSS), cultural. • Two principal nominee girl students. Along with the students' council at the institute level, every department at the institute has the students association such as: • Civil Engineering Students Association (CESA) • Computer Science and Engineering Students Association (CSESA) • Electronics Engineering Students Association (EESA) • Mechanical Engineering Students Association (MESA) • Production Engineering Students Association (PESA) • First Year Association of B.Tech Students (FABS) Each of these associations is constituted of One Faculty Coordinator, President, Vice president, Treasurer, Head of Technical activities, Head of Sports activities, Head of cultural activities and Training and Placement coordinator. The objective of the students Council, along with the students association is: • To look after the welfare of the students and to promote and coordinate the co-curricular and extracurricular activities to inculcate social and professional ethics. In addition to the role in student council, students also have representation on following college-level committees: Magazine committee: "Panorama" is an institutional annual magazine published by the magazine committee wherein students are given opportunity to present their talent in the form of technical and nontechnical articles, poetry, sketching, painting, and photography. Interviewing eminent personalities. Ant ragging and student discipline committee: This committee ensures zero ragging incidents in the institute and also spreads awareness among students against any type of ragging activities. Internal complaints committee: This committee addresses students complaints and maintains harmony and discipline among the students. Cultural Committee: This committee coordinates various cultural activities and events throughout the year such as Traditional day, Dance competition, Singing competition, Roleplay, one-act Play etc. Gymkhana Committee: This committee organizes departmental and interdepartmental various sports activities like indoor and outdoor games. Our students actively participate in various sports at intercollegiate, zonal, interzonal, Interuniversity, national level. Student support committee: This committee is for the student support for academic and nonacademic issues. Internal Quality Assurance Committee (IQAC): To ensure the academic and administrative quality within the institute. Various technical, as well as nontechnical activities, are organized and coordinated by students such as Technical activities: "Quest" a paper presentation competition and Conference, DCAD, Mu-master, Texas instruments TIDrishti competition, Rob race, Robo war, CCoding, Bridge Making, Model Making, Go-Kart, RCDC, seminars, and talks. Nontechnical activities: "Karmaveer Fest a social-cultural activity, "Xtasy" a cultural activity, Young Leader to build the leadership qualities, student

parliament, photo exhibition, genesis android and sports activities including annual sports competitions. Students are participating in paper and poster presentation, project competition, youth festival, Indradanushya- a cultural festival of universities, sports competitions at zonal, interzonal, Ashwamedh sports Interuniversity competition and national level sports competitions.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

Alumni Association of the institute is registered with Registration Number MH/8828/Satara, dated 29/07/2004. The Alumni Association is working with the following objectives: • To increase interaction or help to increase interaction between the colleges of engineering passed students of the college and present students undergoing education in the college. • To enhance, modernize, upgrade the existing facilities at engineering colleges with the help of past students. • To make available industrial training, placements and other facilities to the present students through the help of past students in various industries. • To grant scholarships to deserving students and to provide interest-free loans and other monetary and non-monetary assistance to deserving students of engineering college for higher education. • To undertake, conduct, carry on and help to carry on scientific/academic study and research in engineering. • To organize or assist in the organization of lectures, seminars, refresher courses, conferences, get together etc. • To encourage educational, cultural fundraising sports and other such activities as managing committee may deem fit in furtherance of the objectives of KBPIAN. • To solve the problem of past students, present students, and give proper guidance to assist for stability and equity in society. • To organize seminars and projects to develop a source of business among the youth. • To organize various social activities such as dramas, debates, so as to develop and maintain various cultural ethics and customs of society. The alumni association meeting is conducted by the association regularly and the Institute conducts the alumni meet annually. Alumni meet provides a good opportunity to the faculty, staff, and students, for interaction with the alumni working in various sectors and at a different level. The alumni are invited for the conducting Expert talks, Seminars, workshops on different areas of their expertise. Our alumni preserve the Rayat Culture by sponsoring economically weak students through financial help. Our alumni have proposed donation in terms of money, material, machinery and required services for the renovation, repair, reorientation and landscaping requirements required for infrastructural development of the Institute. Alumni have come up with a proposal to develop a Center of Excellence by developing a laboratory in the name of Late. Major Amol Nilange and cyclic scholarship for students.

5.4.2 – No. of enrolled Alumni:

309

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

61800

5.4.4 – Meetings/activities organized by Alumni Association :

The KBP Alumni Association has robust mechanism. It acts bridge between the former students, current students and authority. The institute regularly interacts with the KBP Alumni Association and through it also organises alumni Meet twice in a year and we update the information by taking the feedback . Various activities like Guest Lectures , Workshops and Seminars are organised as and when required throughout the year. Institute get support from the alumni

in providing skills through the training program and also get support in placements of the students. Alumni provide opportunity for internship and students get benefit through sponsored real time project . Alumni also helps in organising the industrial visits for our students. Also the alumni contributed by donating the books for departmental library.

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)

Karmaveer Bhaurao Patil College of Engineering follows governance through decentralization. The institute is governed by its parent Trust 'Rayat Shikshan Sanstha, Satara' which has the robust structure for functioning through its General body, Management Council. For institute, highest level committees as per statutory requirements are Board of Governance (BOG) and College Development Committee (CDC). The principal has overall responsibility for execution of the decisions taken by BOG and CDC and regular functioning of the institute. Internal Quality Assurance Cell (IQAC) of the institute is formed as per guidelines of NAAC wherein teachers have proper representation in framing mechanisms for academic and administrative systems. IQAC has the responsibility for overall quality assurance as per statutory requirements. Academic activities are governed by Dean Academics and Head of Departments and are responsible for academic performance. Other primary functional departments are Administrative office, Library, Gymkhana, Training and placement office and Workshop. Various functional committees are constituted where cross-functional faculty and staff are the members of the committees. These functional committees help implement the bottom-up approach as they identify the development opportunities in academic and administrative operations through committee meetings. The minutes of the meeting are submitted to the Principal for further guidance. Committees further execute the decisions of the Principal and take follow up. Thus every faculty and staff are involved in the decision making process. Case I: Discussion and recommendation in IQAC Meeting Institute have Internal Quality Assurance Cell functioning from 2013. IQAC is formulated as per guidelines of NAAC and have representation of various stakeholders including faculty of the institute. Regular meetings are conducted by IQAC. Discussion on systems and mechanisms is done that leads to quality enhancement. In the meeting of IQAC which was held on 29-6-2020, as per Agenda number 3, it was discussed that there should be implementation of Appraisal System for faculty and it was decided that a committee should be formed to verify the self-appraisal forms of the faculty. From the Action Taken Report it is seen that Committee is formed to verify the self-appraisal of the faculty and further the committee verified the self-appraisals. Case II: Organizing technical activities under program QUEST 'QUEST' a national level technical event started in 2004, consists of the national conference on the all the areas of engineering and technology, technical competition on different subjects of engineering that helps students to explore their knowledge and apply to build the models and system. The task of planning, scheduling, organizing and execution is distributed among all the faculty, staff and students of the all the departments by forming different committees. Institute handed over the responsibility to the QUEST coordinator and the coordinator prepares the committees of the faculty, staff and students based on the activities planned. All the committee members and the heads of the different committees work in consultation of the head of the institute and perform their duties to execute the programs effectively and successfully.

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

Yes

6.2 – Strategy Development and Deployment

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

Strategy Type	Details
Admission of Students	<p>The seminars and workshops on the prospects in the different disciplines, are organized to facilitate the student for selection of the suitable branch of their choice. Admission process of the institute is completely governed by the Directorate of Technical Education (DTE) Maharashtra. The Centralized Admission Process (CAP) is followed in the institute laid by the DTE, Maharashtra. The admission at First Year is based on the MHT-CET Score and JEE- Main score, 80 of the seats filled through centralized admission process (CAP) and 20 of the seats filled by the institute purely based on the merit of the MHTCET/JEE-Main. For institute level admission, applications are called and a merit list is prepared and displayed, based on the students choices for the different branches and their merit seats are allotted to the students. The institute follows a transparent and effective admission process.</p>
Industry Interaction / Collaboration	<p>Institute-Industry Interaction is of prime importance for providing industry exposure to students and faculty. Functional MoUs are formed at institute level and at Department level to enhance the collaboration among industry and institute. Industry provide Field training and support project work of students. Topics of project work are finalized in collaboration with industry. Through project work, few problems of industry are tackled and solutions are sought. This helps in strengthening the teaching learning process. This has helped to improve interaction with industry with the involvement of faculty and students. Expert Talks and Seminars are organized for students where industry people are invited as Resource Persons. Field / industry visits are arranged with support from industry.</p>
Human Resource Management	<p>Key points of human resource management of the college are as follows: Requirement of faculty and staff is obtained from Head of the Department. It is verified by the</p>

Principal and submitted to Management of Organization. After approval, advertisement is published in leading newspaper and on website of organization. Selection committee formed by Management carries out selection process. After appointment, proper training and development is taken care of by the Institute. Annual appraisal of all faculty is done by HOD and the Committee formed for this purpose. Promotion of faculty is done by the prevailing norms of Organization, affiliating University and State government. Faculty can take advantage of Welfare scheme of organization. Salary and other benefits are given as per rules.

Library, ICT and Physical Infrastructure / Instrumentation

The library of the institute is equipped with all required tools for the effective utilization of the library resource for the academic development of the institute. The Library is using MKCL's Libreria software having version 2.0.3715.28728. The Libreria is an integrated, multiuser, software which can be used to manage different functions of the library such as accessioning, cataloguing of books, circulation of books, book bank facility and registration of members. With this software the different reports can be generated, that includes various reports such as accessioning reports, member's reports, and circulation reports. The book circulation is done on students bar-coded identity cards and barcodes on books. SATO CG 408 barcode Printer and Honeywell laser barcode scanner devices are available to make books issue-return processes easy and accurate. The software is used to generate barcodes of books, spine labels of books, and members' borrow cards. A separate computer is also made available in the library for WEBOPAC facility. Library WEBOPAC link is provided on the college website. The college website consists of details of E-resources such as question papers, syllabus, NPTEL Video lectures and different links of subscribed and open source e-journals and e-books. The open source software, Caliber is used to disseminate e-books to the students and faculty. The access is made available through LAN and also through the

	College Website.
Curriculum Development	<p>The Institute follows the curriculum framed by University. Our faculty members participate in workshops on 'Revision of Syllabus' and contribute in updating the content in syllabus. Institute has its own stakeholder's feedback policy. Under this policy feedback from the stakeholders is obtained, summarized and communicated to BOS. Meanwhile the gaps in curriculum are bridged through induction program, expert lectures and field/industry visits. Faculty strengthen their knowledge in the subjects in the curriculum by attending the Faculty Development Programmes for their courses. Faculty is motivated to enrich the curriculum by covering effectively the topics such as 'modern trends' in particular course.</p>
Teaching and Learning	<p>IQAC and Dean Academics formulate the strategy for the process of Teaching - Learning. The Dean Academics of the institute in association with Head of Department monitors the teaching learning process. Training programs are arranged for faculty for innovations in teaching methodology. The Head of Department monitors the following teaching learning activities: 1. Conduct of lectures and practicals as per the time table. 2. Coverage of the curriculum as per the syllabus. 3. Assignments as per the plan 4. Continuous assessment of the practicals. 5. Conduct of project and seminar presentations. 6. Conduct of the unit tests as per the plan. 7. Analysis of test results and communication to students.</p>
Examination and Evaluation	<p>The affiliating University prescribes the overall Evaluation process. The evaluation scheme for a particular course is communicated by the concerned faculty to the students in the beginning of the semester. For theory courses, the assessment is carried out by Unit Tests, mid sem and End-Sem Examination. Unit tests are given at Department level and assessment is internal. For Lab courses, both Internal as well as External examination is allotted. Continuous assessment is done of the Lab work, Project, tutorials, Seminar and assignment based on work done,</p>

attendance, understanding and submission of work in the form of report/journal. Assessment is done by the course teacher. It is monitored by Head of Department. External examinations are coordinated by COE (Controller of Examinations). At the end of the semester, Practical/Oral/Presentation is conducted and assessed jointly by internal and external examiner appointed by the affiliating university.

Research and Development

Institute is having Research and Development Cell with the following objectives: • To create awareness for Research and Development among faculty and students. • To inculcate research attitude in students. • To create interest and motivate faculty to take up research projects in cutting edge technology. For creating awareness institute conducts Seminars, Workshops, Lectures and protects Intellectual property rights of Faculty and students. Institute promotes and supports faculty and students for publishing their research work. In A.Y. 2019-20 overall 11 papers published in Indexed journals, 55 papers published in conferences by faculty and students. 8 faculty are pursuing their Ph. D. work.

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

E-governance area	Details
Finance and Accounts	We have the ERP software integrated with Tally and whenever needed the spread sheets are used for Finance and accounting purposes. The accounting activities carried out using software are: a. Cheque printing b. Cash Book/Bank Book maintenance c. Maintenance of ledger d. Fees register e. Bank reconciliation statements (BRS). f. Preparation of salary bills g. Preparation and maintenance of student's fees record. etc.
Administration	For the administrative planning we use the spreadsheets and we have the ERP software for the implementation and execution of the activities.
Student Admission and Support	The student admission process is carried out online and the admitted students database is generated and maintained through ERP software.

Students are allowed to pay the fees in different modes. For library access to the students a separate computer is made available in the library for WEBOPAC facility. The same information can be accessed through the intranet. The library WEBOPAC link is provided on the college website. SATO CG 408 barcode Printer and Honeywell laser barcode scanner devices are available to make books issue return processes easy and accurate. The software is used to generate barcodes of books, spine labels of books, and members' borrow cards.

Examination

Following activities are carried out online using university portal: a. Online examination b. Question papers of University Examinations (received electronically) c. Online submission of marks for class tests on ERP (Institute), In-Sem. Exam (University) d. Marks submission for oral/practical and project examinations (UG as well as PG programs) Our Institute has evidenced several benefits after adopting e governance in its various activities such as increased efficiency, transparency in academic and administrative work, reduction in costs, encouragement and participation in governance by all stakeholders and empowerment of faculty and staff.

Planning and Development

Different tools are used for the planning and developments, this includes Open Source software's, such as Moodle and open office and spreadsheet tools. For collaborative planning and execution, we use Google doc, spreadsheets and Google forms.

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	PROF. PRAVIN JADHAV	IMEC - 2019-054 FLOW BEHAVIOR OF SPIRAL CAPILARY TUBE FOR CO2 TRANSCRITICAL CYCLE	-----	8000
2019	PROF. PRAVIN	ACCOMODATION	-----	6000

	JADHAV	FOR ICMET-2019		
2019	PROF. SHITALKUMAR BHUPAL DESAI	REMOTE SENSING AND DIGITAL IMAGE PROCESSING OF SETELLITE DATA	-----	1100
2020	PROF. PRIYANKA SALUNKHE, MONIKA SONMALE	ANDROID DEVELOPMENT	-----	2000
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6.3.2 – Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2020	Bahai's Training Program	Nil	05/03/2020	10/03/2020	5	Nil
2020	One week Bahai's Residential Training Program for Girls	Nil	20/01/2020	25/01/2020	2	Nil
2020	FDP on Outcome Based Education NBA Process	Nil	10/02/2020	14/02/2020	50	Nil
2020	One week online FDP on "Communication and ICT" sponsored by DBATU TEQIP/III	Nil	05/05/2020	10/05/2020	250	Nil
2019	One week STTP on "Research Methodology- Techniques and Softwares" under the aegis of AICTE	Nil	11/11/2019	15/11/2019	40	Nil

	TEQIP-III DBATU ,Lonere at K.B.P. College of Engg., Satara					
2020	Computer Network and IoT	Nil	21/02/2020	01/03/2020	2	Nil
2020	Online FDP on Boss Linux- UBUNTU	Nil	15/04/2020	21/04/2020	600	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
One week STTP on "Research Methodology-Techniques and Softwares" under the aegis of AICTE TEQIP-III DBATU ,Lonere at K.B.P. College of Engg., Satara	14	11/11/2019	15/11/2019	5
DBATU TEQIP/III Sponsored FDP on Communication and ICT Organised by KBPCOE, Satara.	11	05/05/2020	10/05/2020	5
One day live session via Google meet on "EduMeet Panel Dissuasion on Education and Industry-2020 " sponsored by DBATU TEQIP-III	7	20/05/2020	20/05/2020	1
One week FDP on Outcome Based Education and NBA Process	13	10/02/2020	14/02/2020	5

One Week Faculty Development Programme "Linux-Ubuntu Operating System" organised by KBPCOE, Satara. in association with Spoken Tutorial, IIT Bombay	9	15/04/2020	21/04/2020	6
One week National level FDP on Python training,HTML-Spoken Tutorial IITB	6	20/04/2020	25/04/2020	5
One week National level FDP on Moodle training-Spoken Tutorial IITB	4	22/04/2020	27/04/2020	6
National level FDP on WhatsApp Outcome based Education(OBE) ,AICTE-ISTE DYP Akurdi	8	24/03/2020	14/04/2020	21
One Week NITTR - AICTE Recognized FDP on Online Linux Applications in Engineering Education	4	27/04/2020	01/05/2020	6
One Week Short term training programme (STTP) on "Mathematical Modeling and Numerical Techniques" under TEQIP-3 at Ashokrao Mane group of institute Watter, Kolhapur	5	09/12/2019	13/12/2019	5

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
40	26	41	Nil

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<p>Total 13</p> <p>1. Financial support to faculty and staff for attending faculty development programs, conferences, research activities etc.</p> <p>2. Duty leave for attending faculty development programs, conferences etc.</p> <p>3. Provident fund contribution</p> <p>4. Maternity leave for ladies faculty and staff.</p> <p>5. Employees are insured under LIC's Group Scheme for Life Insurance.</p> <p>6. Rayat Shikshan Sanstha's Rayat Sevak support to family of deceased member.</p> <p>7. Rayat Shikshan Sanstha's Sevak Welfare Fund provides the support.</p> <p>8. Shivaji University, Kolhapur's Student Parents teacher and administrative staff welfare fund provides the financial support up to INR 1,00,000 (One Lakh) in case of accidental death, death due to natural calamity, permanent disability etc.</p> <p>9. The Rayat Sevak Cooperative Bank's Sabhasad Kalyan Thev .</p> <p>10. The Rayat Sevak Bank provides various banking facilities and schemes for its members.</p> <p>11. The Rayat Sevak Bank Provides loan waiver through.</p> <p>12. Institute conducts medical checkup camps.</p> <p>13. Medical facility, Yoga awareness programs for employees.</p>	<p>Total 13</p> <p>1. Financial support to faculty and staff for attending faculty development programs, conferences, research activities etc.</p> <p>2. Duty leave for attending faculty development programs, conferences etc.</p> <p>3. Provident fund contribution</p> <p>4. Maternity leave for ladies faculty and staff.</p> <p>5. Employees are insured under LIC's Group Scheme for Life Insurance.</p> <p>6. Rayat Shikshan Sanstha's Rayat Sevak support to family of deceased member.</p> <p>7. Rayat Shikshan Sanstha's Sevak Welfare Fund provides the support.</p> <p>8. Shivaji University, Kolhapur's Student Parents teacher and administrative staff welfare fund provides the financial support up to INR 1,00,000 (One Lakh) in case of accidental death, death due to natural calamity, permanent disability etc.</p> <p>9. The Rayat Sevak Cooperative Bank's Sabhasad Kalyan Thev .</p> <p>10. The Rayat Sevak Bank provides various banking facilities and schemes for its members.</p> <p>11. The Rayat Sevak Bank Provides loan waiver through.</p> <p>12. Institute conducts medical checkup camps.</p> <p>13. Medical facility, Yoga awareness programs for employees.</p>	<p>Total 2</p> <p>1. Student Accident Insurance Scheme offered by Shivaji University, Kolhapur.</p> <p>2. Amartya Shiksha Yojana and Student Accident Insurance Scheme offered by National Insurance Company ltd. Kolhapur.</p>

6.4 – Financial Management and Resource Mobilization

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

The financial activities of the institute are governed by Rayat Shikshan Sanstha, the parent organization. The institute prepares the annual budget for next year in the month of December and presents for approval to Rayat Shikshan Sanstha. Approval is accorded by Sanstha by the end of June. The institute follows the expenditure pattern according to the budget duly sanctioned by Rayat Shikshan Sanstha. Any modification or revision required in budget to cater unforeseen or timely requirements is submitted for revised sanction by the month of August. The daily transactions are recorded in books of accounts according to Rayat Shikshan Sanstha's guidelines and complying with the guidelines of State government, Fee Regulatory Authority and Institutions of Chartered Accountants. Accounting method followed is on Accrual Basis. The books of accounts thus prepared are made ready for financial auditing. Rayat Shikshan Sanstha, the parent trust of Karmaveer Bhaurao Patil College of Engineering has established robust mechanism to avoid financial irregularities in all the institutions. A separate Audit department has been established for carrying out financial audit of each and every institute run by Sanstha. A senior Principal, well versed with handling financial matters, shoulders responsibility of this department as after Secretary and Joint Secretary, this is considered as most important administrative position. Twice a year a dedicated team of expert auditors carries out internal audit of each and every institute run by Rayat Shikshan Sanstha. The external audit is conducted by external Chartered Accountants agency annually, for completed financial year. During audit process, auditors from Rayat Shikshan Sanstha (internal auditors) verify each and every financial transaction for necessary procedural approvals, verifies all finance related documents for their adequacy. Any discrepancy if noticed is brought to the notice, queries raised regarding discrepancy of inadequacy need to be resolved immediately by providing documentary evidences. Any query, if not resolved is recorded and audit report is prepared stating noncompliance. Internal auditor reports to the principal about discrepancies and shortcomings observed, by conducting a meeting after every internal audit is completed. Such non compliances should be cleared within next few days before next audit. All the objections get cleared before final external audit. Thus the regularly internal audit is conducted by parent trust. External audit is conducted by appointed auditor, M/s Kirtane Pandit and Associates, Pune, the Chartered Accountants.

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
Rayat Shikshan Sanstha, Satara	6600000	Support
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6.4.3 – Total corpus fund generated

6600000

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	Rayat	Yes	KBPCOE SATARA

		Shikshan Sanstha		
Administrative	Yes	Rayat Shikshan Sanstha	Yes	KBPCOE SATARA

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

1. Participation of parents in Internal Quality Assurance Cell 2. Parent meets by each Department 3. Meeting with parents

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

1. Training of staff 2. Meeting of staff 3. Work shop

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

NAAC peer team visited the institute in August 2019 and the institute is accredited 2019 onwards.

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	Yes
c) ISO certification	No
d) NBA or any other quality audit	No

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2020	Outcome Based Education and NBA	10/02/2020	10/02/2020	14/02/2020	37
2020	Workshop on Research Methodology	03/08/2019	03/08/2019	03/08/2019	40
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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
Nirbhaya Pathak Activity	06/03/2020	06/03/2020	100	50
Shivjayanti Mahatsav	18/02/2020	19/02/2020	200	150
Raas dandiya	04/10/2019	04/10/2019	150	100
Zumba & yoga	02/03/2020	02/03/2020	60	Nil
Monoact & mimicry	02/03/2020	02/03/2020	30	Nil

competition				
Speech on Women Empowerment	03/03/2020	03/03/2020	80	Nil
Mehndi/Nail art/ Hairstyle competition	04/03/2020	04/03/2020	80	Nil
Healthy cooking competition	05/03/2020	05/03/2020	40	Nil
Women's Day Celebration	07/03/2020	07/03/2020	250	Nil
KBP RUNS (Marathon)	08/03/2020	08/03/2020	150	Nil
TedX 2K19	15/09/2019	15/09/2019	100	80
Internal Hackathon	07/02/2020	07/02/2020	60	30
Personality Development	31/01/2020	31/01/2020	70	100

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
Power Requirement met by renewable energy sources: 15.25 KW Total Power Requirement: 65.27 KW Renewable energy Source : Solar Water heater Renewable Energy generated and used: 15.25 KW Energy supplied to the grid: NIL Total Lighting Requirement : 50 KW Percentage Lighting through LED bulbs : 1.96 KW Percentage Lighting through other sources: 98.04 KW

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	1
Provision for lift	Yes	1
Ramp/Rails	Yes	1
Rest Rooms	Yes	1
Scribes for examination	Yes	Nil

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	15	15	01/07/2019	185	Online Exam Centre	Online Exam Center Facility	6000
2019	10	10	01/07/2019	365	ERP	LMS	100

			019		SOFTWARE	tool	
2019	1	1	01/07/2019	365	Website Development for ZP	Website Development	5
2019	1	5	01/07/2019	365	MCED	Entrepreneurship	50
2019	1	20	01/07/2019	365	NPTEL Local chapter	Self learning	500
2020	1	50	01/04/2020	365	Exam Portal	Providing Onlining Examination facility to colleges due to Covid-19 pandemic	20000
2019	1	1	01/04/2019	365	Mock CET Portal	CET Exam Practice	10000
Nil	1	4	01/07/2019	365	Facility for conducting Virtual/offline Meeting to all public organization	Easily Reachable	1000

[View File](#)

7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Students Handbook on Code of Ethics and Conduct	01/07/2019	Students Handbook on Code of Ethics and conduct is published on college website https://www.kbpcoes.edu.in/downloads/naac/cr7/7.1.12.pdf . Also it is communicated to the students.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
5 days residential training program on steering personality	20/01/2020	25/01/2020	15

development and Human Values organised by dbatu in collaboration with Bahais academy

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

1. Utilisation of LED Bulbs for saving the Power 2. Solid Waste Management: • The waste bins are placed separately in every corner of the corridor, washrooms, and common room, laboratories, library, and classrooms. 3. Liquid Waste Management: • Hazardous Chemicals are kept separately in the laboratory away from the reach of students. Lab In charge and lab-assistant takes care of the chemicals and safety norms in the laboratory are strictly followed. 4. E waste management: • Due to the advancement in technology, various types of electronic gadgets and computers are used by the institute. These products become outdated after their life cycle. These products contain some kind of hazardous materials like lithium, lead, zinc, etc. 5. Rain water harvesting is well structured and utilized properly in the campus. 6. Green Practices • Students, staff using a) Bicycles b) Public Transport c) Pedestrian friendly roads • Plastic-free campus • Paperless office • Green landscaping with trees and plants

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

BEST PRACTICE I Title of the Practice: Imparting skills through Project Based Learning. Objective of the Practice 1. To give scope for creativity among the students. 2. To help develop critical thinking ability. 3. To develop the ability to work in a group /team. 4. To develop the interpersonal skills among the students. 5. To help develop entrepreneurial skills. The Context: • In affiliated colleges, classroom teaching and laboratory work is carried out pertaining to the syllabus provided by the affiliating university. The theoretical inputs are given in the classroom whereas skills are imparted during practical sessions. Structured nature of the syllabus seldom allows crossing of the boundaries specified by the syllabus hence there is limited scope for the students to work independently and explore their creativity. Integrating what has been learned in individual courses and applying it comprehensively does not happen. • To bridge the gap, Karmaveer Bhaurao Patil College of Engineering practices project-based learning to complement classroom teaching and laboratory work. Project-based learning helps students to use their creativity. • Attempts are made to offer projects for a batch of students pertaining to the course that is taught in the classroom or laboratory. Engineering students have to undertake mini projects and major projects as their course work, under the supervision of the faculty, expert in the respective technology domain. Undertaking projects in the small groups related to individual courses give the opportunity to the students to experiment by using their reative ideas and helps them in understanding practical difficulties in implementation. This develops their ability to complete mini and major projects more effectively and efficiently. The Practice: • Individual faculty informs students about the practice followed in the institute at the beginning of the semester. • Faculty identifies small projects which will help in understanding concepts. Students also have the freedom to choose their own concept to work on. A small group of students is formed and projects are allotted to these groups. • Students search the relevant literature, develop the concept, prepare designs based on the concept and validate it in consultation with the course coordinator. Further, they convert the concept into a prototype and demonstrate to the course coordinator. During the design

and manufacturing phases, students learn to develop alternatives and choose the right one. They complete the project in the stipulated period of time and write a report in the prescribed format. • To help students do the activities, departments conduct need-based workshops for project-based learning. During this workshop, students are given the insight of different fields of engineering, fundamentals, emerging technology, tools, software's and practices. During the workshop, while interacting with the faculty, students develop the ability to identify the problem, develop alternative solutions, testing feasibility of the solution, etc. • Successful projects are presented in different National/International project competitions organized by Government, university and other renowned organizers. • Potential projects can be converted into products and successful businesses. Evidence of Success: • For almost every course project-based learning is practiced and is well appreciated and enthusiastically accepted by students. • The number of industries are sponsoring live projects to the students as their final year project. Every year, projects are getting selected for TEXAS Instrument India Innovation Challenge organized in association with the Department of Science and Technology, Government of India and IIM, Bangalore. Every team of students is getting components and tools worth \$ 200. One of the team has bagged runner up prize worth USD 5000. • The team of the second year, third year and final year students designed and developed the alter rain vehicle. This was their first time attempt. The vehicle took part in National level Rally Car Design Challenge competition held at Bikaner. The team was amongst top 10 finalists. The project received sponsorship from Cooper Corporation Pvt. Ltd., Satara worth Rs. 5 lakh. • Students have received awards in university-level project competition • Students have presented technical papers in national conferences and international conferences. • Based on the projects undertaken some students have started their startup business. Problems Encountered and Resources Required: • Finance is one of the hindrances while handling costly projects like an all-terrain vehicle. Institute approached for help to local industry. Looking at the enthusiasm of faculty and students, industry sponsored the project. This may not happen every time and some provision will have to be made to tackle such issues. • Earlier, students considered it an additional burden and were a bit reluctant to participate. Constant dialogue and counseling could overcome these initial hurdles. The faculty has to spend extra hours on the activity which they are willingly doing. • While handling projects sponsored by industries, students have to visit industry more frequently according to the convenience of the industry which affects the attendance of these students in the classroom. • Sometimes students divert all attention to the project. They need to be counseled to maintain the balance between regular academics and projects. • Equipment, components, funds limit the conversation of concepts to product /prototype. BEST PRACTICE II Title of the Practice: Book Bank Scheme for all students Objectives of the practice 1. To make the students resourceful in terms of textbooks and reference books. 2. To make education affordable The Context The normal practice regarding the issue of books to the students in educational institutes to issue no of borrowers cards to individual students. Students borrow a book by depositing borrower's card for a stipulated time period, after which he or she has to return the book. If the student has to retain the book he or she has to again go through the same process by approaching the library, thus a student cannot retain books throughout the semester. This limits the availability of the book when required to a student and the student is required to purchase it, adding a financial burden. Considering the cost of the books needed by the student throughout the semester, this becomes a hindrance for economically poor students. Karmaveer Bhaurao Patil College of Engineering since 1990-91 is handling this issue very efficiently an effectively by implementing a book bank scheme. The scheme allows the student to keep at least one book of every course throughout the semester and makes the student resourceful without having a financial burden. A

social welfare scheme by Government makes the facility of book bank available to certain reserved category students. Karmaveer Bhaurao Patil College of Engineering, however, offers the facility to each and every student of the institute. The Practice Every student is offered a maximum of seven books (normally student studies 5 theory courses in every semester). The student may opt for getting up to 7 books on the scheduled date. Normally, textbooks prescribed in the syllabus are issued under a book bank scheme. Student if prefers to get books less than 7 while entering the scheme, he or she can addbooks up to 7 during the semester. By this way, all the students can maintain books with them for the whole semester. Yearly maintenance of the books returned by the students at the end of the semester is carried out from the amount collected from the student as well as it helps to purchase new books to replace damaged books to purchase new editions. The schedule for every class and every department is displayed on the library notice board as well as on departmental notice board to give wide publicity. The care is taken to ensure minimum disturbance in the academic schedule of the class. Students return the books after completion of their end semester examination. Based on earlier experience number of copies are added each year to ensure quantity supply of the books as per student's choice and requirements. Students need to refer reference books also along with textbooks. Hence, the book bank scheme is also supported by issuing borrower's cards. Students can borrow a reference book by using borrower's cards and I-card by following the usual practice of issuing book by depositing borrower's card or I-card. This practice allows access to both the textbook as well as a reference book. Problems Encountered and resources required

- Sometimes books returned are in damaged condition however, such cases are rare.
- Revision in university syllabus results in changes in the recommended of books for some courses this makes some titles redundant and is unavoidable. The institute keeps on adding new titles and volumes of books as required, from the library budget.

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

<https://www.kbpcoes.edu.in/agar-2019-20-criteria-vii#>

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

Rayat Culture: The founder of the parent trust of Karmaveer Bhaurao Patil College of Engineering, Padmabhushan Dr. Karmaveer Bhaurao Patil came from the tenacious Jain family but rejected its rigorous religious rites and fought all his life against the social ills that impede the secularist growth of society. He realized that the social ills could be remedied through the education of the masses alone and so laid the foundation of the Rayat Shikshan Sanstha in 1919. He believed that education alone could correct social ills such as castehierarchy, money-lending, illiteracy, untouchability, superstitions, and social and economic inequality. Throughout his life, he tried to translate this belief into reality. His wife Sou. Laxmibai Patil alias Vahini, the idol of sacrifice, had handed over all her gold ornaments one after the other including even her sacred Mangal Sutra, to meet the expenditure of the Boarding House run by Rayat Shikshan Sanstha. Long before Bhaurao passed away in 1959, he had donated his own land to the schools of the Sanstha, he had no house of his own and no account whatsoever in any bank. Now the Sanstha has a wide network of schools and colleges spread all over Maharashtra. His followers were inspired by his idealism, selflessness, sacrifice, the dignity of labor and true cosmopolitanism. The teachers of the Sanstha worked on very scanty wages and sometimes even without wages. Karmaveer Bhaurao had thus formed a bright and ideal team of disciples who committed their life with selfless devotion and

sacrifice, thus, contributed to the growth and development of the Sanstha and society. This is what we call the 'Rayat Culture'. The Vision and Mission of our institute are in tune with this Rayat Culture. Our Vision statement clearly says about enhancing of young minds into potential manpower. Our Mission statement mentions about inculcating social values amongst employees and students. This reflects that while creating efficient technocrats, we try to inculcate among our faculty and especially our students the social attitude and empathy for weaker and deprived section of society. To inculcate Rayat Culture variety of activities are carried out throughout the year. Some of the prominent activities include 1. Celebrating Karmaveer Jayanti to make aware about the life and preaching of Karmaveer Bhaurao Pati 2. Celebrating death anniversary of Sou. Vahini to inculcate munificence and generosity 3. Collect the funds and donate in case of natural calamities 4. Birth anniversary of the first female teacher of India 'Savitribai Phule' is celebrated. 5. Mahatma Jotiba Phule (19th-century social reformer and a pioneer of womens education in India) Jayanti is celebrated. 6. Creating awareness about education (in the current era, engineering education) amongst the students from the drought-prone and hilly area.

Provide the weblink of the institution

<https://www.kbpcoes.edu.in/agar-2019-20-criteria-vii#>

8.Future Plans of Actions for Next Academic Year

(A) For Students: 1 Organizing the more number of guest lectures to enhance the knowledge of students. 2 Industrial / Site Visits / Internship Minimum 4 weeks internship for S. Y. and T. Y. students 3 Attending Presenting paper in Conference At least one paper be presented by each of the final year students 4 Value Added Training Programs Students will participate in at least one such program 5 Aptitude training program To be conducted by TPO 6 Soft skill training programs To be conducted by TPO 7 Online certification course Students will attend at least one such course 8 Research publications Each final year student will publish research article 9 Formation of student club activities Students clubs will be formed to conduct various activities 10 Co-curricular activities Student will participate in these activities 11 Extra-curricular activities Student will participate in these activities (B) For Faculty and Staff: 1 Attending Conference / Seminar / Workshop / FDP At least one course from IIT 2 Organizing Conference / Seminar / Workshop / FDP Faculty will organize at least one program 3 Organizing Guest / Expert Lectures At least one lecture by each Dept. in each semester 4 Research Publications Faculty will publish at least one research article 5 Pursuing Ph. D. / Post-Doctoral work 6 Revenue Generation Faculty and staff will help in revenue generation 7 Consultancy 8 Submitting Proposal to Funding Agency 9 Institute Industry Integration 10 Outreach activities for society 11 Alumni Meet Once in year 12 Parent Meet At least one in Semester 13 Academic Audit Once in Semester 14 Energy Audit Once in year 15 Administrative Academic Audit Once in year 16 Online certification course Faculty will attend at least one such course 17 Training of staff and office staff 18 MOU with organization/University/Institute 19 Faculty and student exchange and linkage activity