



Yearly Status Report - 2019-2020

Part A

Data of the Institution

1. Name of the Institution	KAVIKULGURU INSTITUTE OF TECHNOLOGY AND SCIENCE, RAMTEK
Name of the head of the Institution	B. RAM RATHAN LAL
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	07114255309
Mobile no.	9975413330
Registered Email	principal@kits.edu
Alternate Email	info@kits.edu
Address	K.K. NAGAR, MOUDA ROAD
City/Town	RAMTEK
State/UT	Maharashtra
Pincode	441106

2. Institutional Status	
Affiliated / Constituent	Affiliated
Type of Institution	Co-education
Location	Rural
Financial Status	private
Name of the IQAC co-ordinator/Director	Dr. RAVINDRA KUMAR BOPCHE
Phone no/Alternate Phone no.	07114255309
Mobile no.	9422126957
Registered Email	kits.iqac@gmail.com
Alternate Email	bopche_ravindra@yahoo.com

3. Website Address	
Web-link of the AQAR: (Previous Academic Year)	https://www.kits.edu/Downloads/Documents/AQAR_Report2018-19.pdf
4. Whether Academic Calendar prepared during the year	Yes
if yes,whether it is uploaded in the institutional website: Weblink :	https://kits.edu/Downloads/Documents/Academic%20Schedule%20for%202019-20.pdf

5. Accrediation Details					
Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	B++	2.81	2018	02-Nov-2018	01-Nov-2023

6. Date of Establishment of IQAC	11-Jul-2017
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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
Swachh Bharat Abhiyan	20-Jan-2020	195

	10	
Fire Fighting System	04-Oct-2019 165	1621
PV Solar Power System	16-Jan-2020 60	150
Placement	30-Jul-2019 300	132
University Ranks	03-Feb-2021 150	15
Blood Donation Camp	30-Jan-2020 01	169
Abhyudaya (College Technical Fest)	05-Mar-2020 03	1000
Campus Recruitment Training	18-Feb-2020 90	72
Sports Conducted	10-Jan-2020 45	480
Tree Plantation	22-Jul-2019 05	155
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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
Mechanical Engineering	MODROB	AICTE, New Delhi	2019 730	1090000
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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)

1. Faculty members are motivated to participate in seminars/workshops, presentations in conferences and publish research papers in conferences and journals. 2. Encouraged the students to take active participation in co curricular and extra curricular activities like attending seminars /workshops in and outside campus , participate in games , sports, technical and creative activities. 3. Student are encouraged for participating and conducting social activities like Blood Donation, Swachh Bharat Abhiyan, Tree Plantation and Social Awareness under NSS / NCC clubs. 4. Students with faculty involvement conducted 3 days mega student festival "Abhyudaya 20" that included various technical, non technical and recreational events. 5. Roof top Solar power system and fire fighting system are installed in the campus.

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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
Installing the solar energy power plant as an alternate energy source for cut shot of heavy electric demand.	Completed installation of solar roof panel plant for 250kW generation on Admin.building
Planning for implementing the fire fighting system in the campus as a safety measure.	Fire fighting system installation work started and partially completed for Electronics and Administrative building.
Motivate the faculty to participate and organize various academic, Extra curricular activities for faculty and students like , paper presentation/ publishing , conferences, seminars, annual gathering and mega event/ festivals.	Faculty members published papers in the journals / presented papers in the conferences , attended seminars /webinars, FDPs, STTPs. Webinars, FDPs , conferences were conducted across the departments . Three day Mega festival event " Abhyudaya 20 " was conducted for students.
Encourage the faculty member to join for PhD. Programs .	Faculty members joined for PhD programs.
Training and placement cell to provide the training to students for getting recruited in the campus /off campus placement drives and also provide the opportunities to them by recruitment drives in the campus.	Conducted CRT classes for third year students , Campus recruitment training program was done.
Enhance facility in smart class rooms within the departments.	Every Department has the fully equipped smart class rooms for conducting special classes , seminars.

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14. Whether AQAR was placed before statutory body ?

No

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	No
16. Whether institutional data submitted to AISHE:	Yes
Year of Submission	2020
Date of Submission	17-Feb-2020
17. Does the Institution have Management Information System ?	Yes
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	The institute has in house developed software for the improvement of operational efficiency of administrative office and the examination procedures like: 1. Pay roll system 2. Generation of form no 16 for income tax purpose 3. Data maintenance of the students in the institute for academic and examination purpose 4. Seating arrangements for University and institute level exams

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 Institute has well defined system for planning and effective implementation of the curriculum. The Institute being affiliated to Rashtrasant Tukadoji Maharaj Nagpur University (RTMNU), Nagpur adheres to the curriculum prescribed by the University. The Institute systematically designs and develops action plan for delivery and effective implementation of the curriculum. The Institute strictly follows the academic calendar issued by the RTMNU for planning academic activities. The Principal conducts meeting with the Deans and Head of Departments (HODs) prior to starting of every academic year for evolving the strategies of planning and effective implementation of the curriculum. The academic schedule is planned well in advance and is disseminated among students, faculty members and departments. It is also uploaded on the Institute's website. The faculty members from all departments develop action plans in the form of teaching schedule for their allotted subjects. Every faculty member prepares a subject note file and a subject file which contains syllabus of the subject, teaching scheme, teaching schedule with tentative dates of topic delivery, University examination question papers, list of text and reference books. An orientation program is conducted for first year students in order to make them acquainted with the system of the Institute. In the orientation, the students are given information about the programs, the examination system, the evaluation system and the way course would be taught. The curriculum is delivered through theory and practical sessions and is

monitored by the class teacher, academic coordinator and Head of the respective departments. Faculty members are encouraged to adhere to the teaching schedule and teach through innovative teaching methods such as presentations, assignments, discussions, workshops and seminars. Apart from regular lectures, special classes are conducted for students taking admission directly to second year (Diploma) to cover the curriculum so as to compensate for the classes missed because of their late admission. The academic performance of the students is evaluated on continuous basis by conducting two mid examinations in each semester. The performance is also judged through class tests, surprise tests and assignments. For diploma students a separate mid examination is conducted to evaluate the performance. Based upon performance of the students in all tests, academically weak students are identified and remedial classes are conducted for such slow learners. Academic performance in mid examinations and attendance reports of the students are generated and are communicated to the parents of all students. The parents are invited to meet the respective HOD's and faculty members to discuss the performance of their wards. Faculty members also take feedback from the students through counseling on various issues like syllabus coverage, their opinion on curriculum delivery and difficulties faced. The feedback so obtained is analyzed and corrective measures are taken for effective implementation of teaching and learning process. The HOD's conduct meeting frequently with academic coordinator to assess the syllabus coverage. The Principal holds regular meetings with HOD's to assess the syllabus coverage to re-frame the academic calendar if required.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entrepreneurship	Skill Development
CAREER RECRUITMENT TRAINING	NA	18/02/2020	27	Employability	Aptitude/Communication Skills
EMPLOYABILITY SKILL TRAINING	NA	26/12/2019	18	Employability	Aptitude/Communication Skills

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
Mtech	STRUCTURAL ENGINEERING(CIVIL ENGG.)	16/06/2016
Mtech	HEAT POWER ENGINEERING(MECHANICAL ENGG.)	16/06/2016

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

	Certificate	Diploma Course
Number of Students	368	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
SOFT SKILL DEVELOPMENT(SSD)	24/06/2019	406
CAREER PROSPECTS PLANNING(CPP)	19/06/2019	506
CAREER RECRUITMENT TRAINING(CRT)	18/02/2020	72
Employability Test (CO-CUBES)	31/01/2019	168
Training in C program	17/06/2019	259
Training on Java programming	06/01/2020	167
EMPLOYABILITY SKILL TRAINING	26/12/2019	296
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	CIVIL ENGINEERING	84
BArch	B.ARCHITECTURE	35
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

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

Feedback Obtained
<p>The Institute has a well structured feedback mechanism. Feedback is taken from the stake holders of the Institute in two modes i.e , in a formal and informal way. The feedback mechanisms are explained below in details. Formal Feed Back Mechanism: A) From Students: Feedback is obtained from the students at end of each semester where students are supposed to answer two questionnaires, one is about the Institute and the other one is about the subjects that have been studied. The questionnaire contains objective questions carrying weights. Questionnaire about the Institute contains questions regarding availability of equipments in the laboratories, library facilities, hostel and mess facilities</p>

and other amenities available in the campus. Questionnaire about the subject contains objective questions related to teaching methodology of the teacher, content delivery, communication skills, and students handling skills. The questionnaire is then evaluated and analyzed by the head of the concerned department. A detailed report based on analysis is then submitted to the IQAC, subsequently, report along with the recommendations of the remedial actions to the Management. B) From Parents: To ascertain the views and opinions of the parents, parent meets are arranged periodically. Detailed information about the parents meet is conveyed to the parents well in advance. The parents meeting is addressed by the Principal, IQAC Coordinator, Head of the departments, senior staff members. Parents freely express their views, raise queries and doubts which are addressed by the Principal and documented at the time of meeting. A feedback questionnaire is obtained from parents evaluated and analyzed. The Principal reviews the report submitted by the IQAC Coordinator and ensures effective implementation of the course of the remedial actions. C) From Alumni: The Institute has a alumni charter which acts as a link between the Institute and the alumni. The alumni charter organizes alumni meet in the Institute and provides a platform to the former students to express their views about the Institute. During the meet feedback is collected and analyzed and necessary actions are taken. In-Formal Feed Back Mechanism: A) From Students: The Institute has counseling mechanism where in one teacher is associated with a group of students. The teacher acts a mentor/ counselor. All students meet the counselor once in a week as per the counseling slot in the time-table. Students share their difficulties and problem with the counselor. Issues related to the department are resolved at the department level and the unresolved issues are brought to the notice of the Principal for further action. B) From parents and alumni: Many times parents and alumni have an unplanned visit to the Institute/department. During the visit they meet the teachers and share their views about the Institute and pass on suggestion. Which are used for further improvement of the department and the Institute. C) The institute also seeks feedback from employers.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BE	Civil Engg.	60	37	29
BE	Mechanical Engg.	60	27	20
BE	Electronics & Comm.	60	4	3
BE	Electrical Engg.	60	11	7
BE	Computer Technology	90	84	70
BE	Information Technology	60	25	24
BArch	B.Architecture	20	12	7

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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	1530	Nil	122	2	6

2.3 – Teaching - Learning Process

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

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
124	112	13	8	7	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)

The Student mentoring system has been effectively practiced in the Institute from inception. The main objective is to make students self confident and to motivate so that they can perform to their maximum potential in academics as well as co-curricular and extra curricular activities. A group of students are allotted to the each counselor. The counselors, who are the guardian teachers are usually faculty members of respective departments. One dedicated slot is provided in the timetable of every semester of each department. Counselors maintain the attendance register for the student present during the counseling session. Counselors maintain students' personal and academic profile for each semester. In student profile all the details such as academic progress, personal details are maintained. Results shows that the counseling practice in Institute has been effective in solving students academic and personal difficulties. Counselors encourage the students to participate in various co-curricular and extracurricular activities. The students discuss their problems related to studies, hostels, personal and social issues. Counselors help the students to resolve the issues and develop positive thinking ability. All counselors report to the head of department in case of critical issues. Progress report and attendance of students are sent to their parents after the first mid sessional examination. As the completion of their degree course, a character certificate is issued to the students which is based on counselor's report. In today's era of cut throat competition, student often suffer from stress and become depressed easily either for academic reasons or for any other personal problems. Many students have such low self-esteem that they find it difficult to attend classes or do their assignments once they fail. Sometimes these sort of problems leads to depression, anxiety and addiction. To help the students in resolving their, issues, Institute has made effects in the form of establishing individual counseling system to provide intervention to the students, so that their social and emotional problems do not interface with their academic performances. The counseling system provides the moral support to student which has positive influence on the academic performance.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1530	124	1:12

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
120	114	6	Nil	23

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. Shrikrushna P. Chincholkar	Associate Professor	Silver certification in NPTEL online certification funded by the Ministry of HRD, Govt. of India
2019	Dr. Satish K.Bhele	Associate Professor	Gold certification in NPTEL online certification funded by the Ministry of HRD, Govt. of India

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2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BE	BESI	1ST SEM.	22/10/2019	10/01/2020
BE	BESII	2ND SEM.	21/03/2020	05/09/2020
BE	BECVE	3RD,5TH,7TH SEM.	21/09/2019	31/12/2019
BE	BECVE	4TH,6TH,8TH SEM.	21/03/2020	12/11/2020
BE	BEME	3RD,5TH,7TH SEM.	21/09/2019	31/12/2019
BE	BEME	4TH,6TH,8TH SEM.	21/03/2020	12/11/2020
BE	BEENE	3RD,5TH,7TH SEM.	21/09/2019	31/12/2019
BE	BEENE	4TH,6TH,8TH SEM.	21/03/2020	12/11/2020
BE	BEECE	3RD,5TH,7TH SEM.	21/09/2019	31/12/2019
BE	BEECE	4TH,6TH,8TH SEM.	21/03/2020	12/11/2020

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

The internal examination component provides much scope for ensuring overall development of students. ? An academic schedule is prepared in the starting of every year which comprises of tentative dates. ? For two mid sessional

examinations, internal practical examinations, external practical examinations and University examinations. ? First mid sessional question paper is set based on three units whereas second mid sessional question paper is set on remaining three units. ? Question papers in sessional examination are set as per University examination pattern. ? Practical evaluation is done weekly and grades are assigned to each student based on performance analysis and viva-voce. ? The performances of students in mid sessional examination are informed to parents via post and Short Message Services (SMS). ? Class room attendance is being monitored regularly by class teachers, academic coordinator and HOD's. ? Sessional marks are awarded to the students based on performance in first and second mid sessional examinations, assignments and class attendance. ? In each department, final year projects are evaluated continuously. Students maintain project diary ? To record their project progress. These diaries are checked by project supervisor and project evaluation committee on a regular basis. ? Reform in evaluation process is done by Internal Quality Assurance Cell (IQAC). ? Rules and regulations laid down by the University for regular examinations to be conducted for students in undergraduate as well as post graduate programs are strictly followed by the Institute.

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

Every year, the Institute come up with an academic schedule which is for effective and smooth running of the Institute. Academic Schedule: The University provides academic calendar for both odd and even semester in the beginning of every academic year. Based upon the University academic calendar the academic schedule of the Institute is prepared. The academic schedule includes: ? The dates of first and second mid sessional examination. ? The schedule for internal and external practical examinations for all semesters. Teaching Schedule and Implementation: ? Teaching schedule include unit-wise distribution of lectures along with proposed dates, list of recommended text-books. ? The Teaching schedules are submitted to the Head of the departments. Each faculty plans semester-wise. ? A review meeting is held by the HODs at the end of every month to monitor the implementation of teaching schedule. ? Extra classes are conducted if required to complete the syllabus. Assignments are given to the students, which are assessed periodically. ? Efforts are made to resolve difficulties in subjects and if necessary, expert lectures are conducted to motivate the students. Evaluation Schedule: ? The mid sessional examination marks of students are displayed on notice board of respective departments. ? The internal assessment marks are allotted on the basis of performance in the mid sessional examinations, percentage of attendance and submission of assignments. ? The performance of the student is discussed in respective classes and due care is taken for slow learners. ? The internal assessment marks are shown to the students and submitted online to the University before final examinations.

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.kits.edu/Downloads/Documents/AllCourse.pdf>

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

BECVE	BE	CIVIL ENGG.	84	84	100
BEENE	BE	ELECTRONICS ENGG.	17	17	100
BEME	BE	MECHANICAL ENGG.	129	129	100
BECT	BE	COMPUTER TECHNOLOGY	109	109	100
BEIT	BE	INFORMATION TECHNOLOGY	46	46	100
BEECE	BE	ELECTRONICS & COMM. ENGG.	41	41	100
BEELE	BE	ELECTRICAL ENGG.	80	80	100
AA	BArch	B.ARCHITEC TURE	45	45	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://kits.edu/Downloads/Documents/2.7.1-Criterion%20II%20%E2%80%93%20Teaching%E2%80%93Learning%20and%20Evaluation\(For%20the%20Academic%20Year%202019-20\).pdf](https://kits.edu/Downloads/Documents/2.7.1-Criterion%20II%20%E2%80%93%20Teaching%E2%80%93Learning%20and%20Evaluation(For%20the%20Academic%20Year%202019-20).pdf)

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Resource Mobilization for Research

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

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Major Projects	730	AICTE NEWDELHI	10.9	8.72
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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
A guest lecture by Ad. Mahendra Limaye was conducted on "Cyber Law and Cyber Education"	Computer Technology	09/07/2019
Workshop was organized on "Go Programming" by Madan Tiwari for second year students	Computer Technology	11/07/2019

An alumni interaction of Mr. Bhupender with second year and third year students was organized	Computer Technology	15/07/2019
Workshop on "Renewable Energy its Utilization", is delivered by Mr. M.K.Jaiswal for 5th and 7th Semester Mech. Engg. students	Mechanical	17/07/2019
A guest lecture by Prashant Munshi for students of Computer Technology Department was organized .	Computer Technology	19/07/2019
Workshop on "Development of Bio Medical Products Using Additive Manufacturing", by Dr. M.B.Mawale for 7th Semester Mechanical Engineering	Mechanical	21/08/2019
Workshop on " How To Deliver a Seminar" by Dr. M.R.Shukla for 3rd semester Mechanical Engineering	Mechanical	26/08/2019
Guest Lecture on "Falcon-9 and Importance of Mechanical Designing and Industry Expectations from Fresh Engineers" by Mr. Aman Shukla for 5th and 7th Semester Mechanical Engineering	Mechanical	26/08/2019
Guest lecture was organized on "Digital Marketing" by Mr.Govind Chandak	Computer Technology	26/08/2019
Guest Lecture on "Emotional intelligence and how it is required to grow individually personally and professionally" by Ms. Amisha Madan for 5th and 7th Semester Mechanical Engineering	Mechanical	28/08/2019
A guest talk by Mr. Ritish Nedunoori an alumni was organized with second year students.	Computer Technology	24/12/2019
An alumni interaction by Sahil Siddiqui with third	Computer Technology	24/12/2019

year students

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
Ph.D.	Dr. D.C. Katpatal	V.N.I.T., Nagpur	15/09/2019	Research
Ph.D.	Dr. Snehal P. Pachpor	V.N.I..T., Nagpur	15/09/2019	Research
Ph.D.	Dr. Vilas P. Mahatme	R.T.M.N.U, Nagpur	05/03/2020	Research
Ph.D.	Dr. Dinesh N. Patil	VJTI, Matunga, Mumbai	23/03/2020	Research

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

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
NIL	NIL	NIL	NIL	NIL	Nil

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3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
0	1	0

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

Name of the Department	Number of PhD's Awarded
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	Mechanical Engineering	2	4
International	Civil Engineering	2	4.5
International	Information Technology	1	0.2

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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
Civil Department	2

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

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as	Number of citations
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					mentioned in the publication	excluding self citation
Saarthi an Innovative Platform for farmers to get Yield in India	Mr. D. Anantha Reddy Mr. Mohd. Jabeed Rihaz Mrs. Saroj A. S hambharkar	International journal of Computer Science and Engineering	2019	0.2	Kavikulguru Institute of Technology and science, Ramtek	Nil
The performance analysis of domestic refrigerator using modified condenser	Mr Sanjay Borikar	International journal of mechanical and production engineering research and development - transstellar	2019	4.5	Kavikulguru Institute of Technology and science, Ramtek	4
Waste heat recovery from exhaust gas of an engine by using a phase change material	Dr. A V Kolhe	Elsevier :materials today proceeding	2020	4	Kavikulguru Institute of Technology and science, Ramtek	4
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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
NIL	NIL	NIL	Nil	Nil	Nil	NIL
View File						

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

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	1	24	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

Underground water management and depletion of water level	NCC	10	50
commanding officer lt col Avik Konar visit to the campus	NCC	10	50
Independence day celebration	NCC	8	50
Kargil Vijay diwas	NCC	9	50
Inauguration Of NSS Unit For This Academic Year 2019-2020	NSS	7	150
Tree Plantation	NSS	7	150
Tobacco Day Oath" in the college campus premises	NSS	2	30
International Yoga Day in College campus	NSS	7	25
Pollution and our responsibility	NCC	10	50
Gandhi Jayanti-Swacchh Bharat Abhiyan I	NCC	10	50
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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
Invention of Zero Contact Sanitizer Machine	Appreciation Letter	Khairy Grampanchayat , Nagpur	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
NCC	NCC	Gandhi Jayanti-Swacchh Bharat Abhiyan I	10	50
NCC	NCC	Pollution and our responsibility	10	50

NSS	NSS	International Yoga Day in College campus	7	25
NSS	NSS	Tobacco Day Oath" in the college campus premises	2	30
NSS	NSS	Tree Plantation	7	150
NSS	NSS	Inauguration Of NSS Unit For This Academic Year 2019-2020	7	150
NSS	NSS	Kargil Vijay Diwas	9	50
NCC	NCC	Independence day celebration	8	50
NCC	NCC	commanding officer lt col Avik Konar visit to the campus	10	50
NCC	NCC	Underground water management and depletion of water level	10	50
View File				

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
NIL	0	NIL	0
View File			

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
Industry Institute interaction	Industrial training	Ajani Locoshed, Nagpur	21/09/2019	26/09/2019	Mr. Chandan H. Badwaik
Industry Institute interaction	Industrial training	Ajani Locoshed, Nagpur	22/09/2019	26/09/2019	Mr. Manish E. Gaidhane
Industry	Industrial	Ajani	23/09/2019	26/09/2019	Mr. Tushal

Institute interaction	training	Locoshed, Nagpur			Meshram
Industry Institute interaction	Industrial training	Ajani Locoshed, Nagpur	24/09/2019	26/09/2019	Mr. Kunal M. Bais
Industry Institute interaction	Industrial training	Ajani Locoshed, Nagpur	25/09/2019	26/09/2019	Mr. Haridas R. Bhandekar
Industry Institute interaction	Industrial training	Ajani Locoshed, Nagpur	16/09/2019	26/09/2019	Mr. Prajwal Zingare
Industry Institute interaction	Industrial training	Ajani Locoshed, Nagpur	17/09/2019	26/09/2019	Mr. Mohit Kalambe
Industry Institute interaction	Industrial training	Ajani Locoshed, Nagpur	18/09/2019	26/09/2019	Mr. Abhishek Bansod
Industry Institute interaction	Industrial training	Ajani Locoshed, Nagpur	19/09/2019	26/09/2019	Mr. Kunal R. Mandlekar
Industry Institute interaction	Industrial training	Ajani Locoshed, Nagpur	20/09/2019	26/09/2019	Mr. Vaishnav V. Padole
View File					

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
NIL	Nil	NIL	Nil
View File			

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
42	11.96

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Existing
Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Seminar halls with ICT facilities	Existing
Video Centre	Existing

Value of the equipment purchased during the year (rs. in lakhs)	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Existing
Classrooms with Wi-Fi OR LAN	Existing
Others	Newly Added
View File	

4.2 – Library as a Learning Resource

4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
SLIM21	Partially	21	2004

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	54572	16897218	21	16245	54593	16913463
Reference Books	8712	3169004	8	3724	8720	3172728
e-Books	Nil	Nil	Nil	Nil	Nil	Nil
Journals	59	57110	59	124804	118	181914
e-Journals	20235	11500	20235	13570	40470	25070
Digital Database	Nil	Nil	Nil	Nil	Nil	Nil
CD & Video	505	207371	Nil	Nil	505	207371
Library Automation	7	28908	7	29662	14	58570
Weeding (hard & soft)	2345	703500	17	5100	2362	708600
Others(s pecify)	Nil	Nil	1	218890	1	218890
View File						

4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Nil	Nil	Nil	Nil
View File			

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	594	14	1	1	14	11	583	64	0
Added	25	0	0	0	0	0	0	36	0
Total	619	14	1	1	14	11	583	100	0

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

100 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
NIL	NIL

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
82	51.69	265.75	229.83

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)

Maintenance of infrastructure facility is being done by the in-house project engineer section. In addition to the project engineer office, staff member from each department is designated as housekeeping in-charge in respective departments. The house-keeping in charge of every department works in coordination with project engineer office for the regular maintenance of the department. The equipment and furniture are repaired and maintained by the skilled workers from the project engineering section once in every three months or as and when required. Each laboratory maintains the logbook for equipments available. Lab-in-charge along with HOD of each department is involved in preparing the budget for consumable, procuring new equipment and their repairs. The laboratory mechanic does the maintenance work, records it in the maintenance diary and gets it verified by the respective HOD. A register is maintained in the library for the entry, exit of the students and faculty. Dusting, mopping and cleaning is done by the sweeper everyday. Electrical and other furniture are maintained by skilled person from project engineer section. The sport complex is maintained by a team from Physical Director office which comprises of two trained support staff members. Record of gymnasium utilization is maintained everyday where students record their entry and exit time. Faculty in charge and programmer/Data Entry Operator (DEO) are responsible for maintenance of computers and software's for each computer laboratory. The internet and Wi-Fi system are maintained by a team of technical staff under the supervision of Associate Dean (ICT). They maintain the smooth functioning of internet usage. Programmer/DEO carries out maintenance of each computer at regular intervals and records it in the maintenance record book weekly.

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	Institute Level Exemption	43	731042
Financial Support from Other Sources			
a) National	Scholarship/Freeship	1153	70404552
b) International	Nil	Nil	0

[View File](#)

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

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Campus recruitment training program	23/07/2019	52	KITS, Ramtek
Employability test	31/01/2019	168	KITS, Ramtek
COUNSELLING	12/06/2019	1530	KITS, Ramtek
Training on JAVA programming	06/01/2020	167	KITS, Ramtek
Training on C programming	17/06/2019	259	KITS, Ramtek
Career Prospectus and Planning (CPP)	19/08/2019	506	KITS, Ramtek
Soft Skill Development (SSD)	24/06/2019	406	KITS, Ramtek
Employability Training Skills	26/12/2019	296	KITS, Ramtek

[View File](#)

5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students 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
2020	Co-Cubes	168	168	168	Nil
2020	CPP-CRT	72	72	72	Nil

[View File](#)

5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual

harassment and ragging cases during the year

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

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
Disha Engineering, Nagpur/ Bharat Forge Ltd., Pune Bharat Forge Ltd., Pune Bharat Forge Ltd., Pune Bharat Forge Ltd., Pune Bharat Forge Ltd., Pune Pune Bharat Forge Ltd., Pune Bharat Forge Ltd., Pune Pune Bharat Forge Ltd., Pune Bharat Forge LTD, Pune/Varroe Engg. PVT LTD, Endurance Technologies Ltd etc.	799	85	BOSCH, TCS, Entercomes etc	1397	47
View File					

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

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
Nill	Nill	0	0	0	0
View File					

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

Items	Number of students selected/ qualifying
Nill	Nill
View File	

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

Activity	Level	Number of Participants
Basket Ball (Boys)	Institute Level	38

Kho-Kho (Boys)	Institute Level	46
Handball (Boys)	Institute Level	37
Volley Ball (Boys)	Institute Level	41
Foot Ball (Boys)	Institute Level	57
Cricket (Boys)	Institute Level	60
Best Physique	Institute Level	5
Basket Ball (Girls)	Institute Level	31
Badminton (Girls)	Institute Level	5
100 Mtr. Run	Institute Level	26
View File		

5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	NIL	National	Nil	Nil	NIL	NIL
2019	NIL	Internat ional	Nil	Nil	NIL	NIL
View File						

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

The Student Council is formed every academic year by the Institute. The selection of it as per the norms of RTMNU. It is selected in the presence of a committee comprising of the Principal, Deans and HODs. Student Council comprises of the following members: • University/Student/Class/NSS/NCC/Sports representatives • Forum/Clubs/Associations Presidents and Secretaries • Cultural Secretary Based on the academic performance of the Class Representative of each class is selected. Various clubs, forums and associations of each department have nominated student representatives. All these representatives select a 'Student Representative' who is an active member in Student Council. The important highlighting features of the Student Council are as follows: • The council works as a facilitator between the students and the Institute. • It takes care of all the extra co-curricular activities and annual social fest of the Institute. • It maintains the overall discipline on the campus. • The University representative represents Institute at University level for various student activities. • It provides information to the students regarding various beneficiary schemes available at Institute, University level and campaign to create awareness regarding these schemes. -Various student chapters comprising of professional bodies like Institute of Electrical and Electronics Engineers (IEEE), Indian Society for Technical Education (ISTE), Institution of Electronics and Telecommunication Engineers (IETE), Computer Society of India (CSI), National Association of Students of Architecture (NASA) are functioning through Student Council. Apart from these professional bodies, there are other forums/clubs/ associations such as Civil/Mechanical/Electrical/Electronics/Electronics Comm./Comp.Tech./Info.Tech./ Architecture Engineering associations. Mathematics/Literary/Cultural/ Sports Clubs. Associations and Clubs work as a platform to show their skills. On the occasion of Independence and Republic Days, Students perform street plays on social issues such as 'Alcoholism', 'Evils of drugs', 'Save the girl child'

etc. The Students Council is responsible for conducting the annual day celebrations, sports day ,Cultural evening 'Raga n Rock' and national level technical fest 'TEKNODEON' smoothly conducted through the Students Council in alternate year. The student group also participated in the Go-kart event. Technical student fest " ABHUDAYYA" is being organized at the campus in the month of March 2020 . It includes workshops on special topics, various student competition events, Product exhibition. It provided a vibrant forum to all the stake-holders in the field for everyone and a common platform to the student to exhibit their hardware/ software skill such as programming contest, robotics and circuit frenzy. The Student forums provides Organization and Coordination in co-curricular and extracurricular activity: 1.Communicating the information between students and Teaching faculty 2. Conducting special events like Spectrum etc. 3. Organizing Cultural events 4. Organizing Sports Games for the students 5. Inviting the external guest speakers and organizing the Seminars Workshops. It encourages the students to develop their leadership skills.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

No

5.4.2 – No. of enrolled Alumni:

0

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

100000

5.4.4 – Meetings/activities organized by Alumni Association :

Every year on 16th January Alumni Day is celebrated. Alumni day was celebrated on 16th January 2020. Dr. Girish Bhiogade, Associate Professor, Dept. of Mechanical Engg., Vignan Insitute of Information Technology, Vishakapatnam, A.P. Delivered Lecture on Recent Advancement in Internal Combustion Engine in presence of Head of the Department Dr. Y.M. Jibhakate. Alumni cell President Prof. M.K. Jaiswal and other team members.

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

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

The management set goals in consonance with the vision and mission of the Institute. The management regularly interacts with the Principal to review the implementation of the set goals. The management periodically reviews various academic, administrative and other related functions of the Institute. The Principal proposes new initiatives to the management to strengthen the quality of education on the basis of changing educational scenario and chalks out the action plans in a accordance with the goal set by the management. Principal communicates to the faculty members regarding the responsibilities and duties. Principal takes initiatives to develop the relationship with the eminent academicians, industries, professional bodies and other renowned Institutes. Deans and Associate Deans are appointed for the important functions in Institute like examinations, student activities and Information and Communication Technology (ICT). Dean(Examination) is given the responsibility of smooth conduct of Institute and University examination. Associate Dean (ICT) takes care of providing ICT infrastructure. Associate Dean (SA) looks after various students activities. The Heads of the department periodically conduct

meetings to monitor the process of the academic activities, implementation of the policies regarding various issues with the staff members. The departments encourages the faculty for research, industrial visits, arranging guest lectures by eminent personalities. Faculty members and non teaching staff are the member of Local Management Committee (LMC). Faculty members are also participating in various committees of University such as Board of Studies (BoS) and Academic Council. The students are encouraged to participate in the decision making process by their participation as class representative, student representative and University representative. In hostels, all the activities are managed by the hostelers through the hostel management committee consisting of the wardens, hall representative and mess representatives.

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	Admissions are made as per the norms and guidelines given by Director of Technical Education and RTMNU, Nagpur.
Industry Interaction / Collaboration	All the departments conduct industry visits for sixth semester students. Experts from different industries engage expert lectures for the students.
Human Resource Management	1. Expert guest lectures are engaged for the development of faculty. 2. Allowing the faculty to attend faculty development programs etc. 3. Welfare scheme for staff in the form KITS Employee Welfare Fund (KEWF)
Library, ICT and Physical Infrastructure / Instrumentation	1. Digital courses are available like NPTEL, NDL. 2. The library is having sufficient space so that 200 students can study at a time. 3. More than 63,000 books are available in library from different discipline. 4. Audio-Video learning facility is available.
Research and Development	1. More focus given on the research and development. i. The number of the faculties perusing Ph.D are increased. ii. 5 faculties awarded Ph.D. iii. Some faculties submitted their Ph.D thesis. 2. MODROBs proposal has been sanctioned to Department of Mechanical Engineering worth Rs. 10.9 lacs. One project is recommended to AICTE.
Examination and Evaluation	1. As per RTMNU, 20 marks are allotted for college internal assessment while 80 marks are allotted for university theory examination. For each practical exam, 25 marks are allotted for college internal and 25 marks for university

	<p>practical exam. 2.In the college internal assessment, two mid exams are conducted per semester. 3.Each mid exam answer sheet evaluated for 20 marks for III semester to VII semester. For I and II semester excluding Mathematics other subjects are evaluated for 10 marks.</p>
Teaching and Learning	<p>To enhance the learning experience of student the following methods are adopted Soft Skill Development (SSD) and Career Prospects and Planning (CPP) are incorporated in time table of third and final year students apart from curriculum.Laboratory sessions are conducted regularly to sharpen the practical knowledge. Industrial visits are arranged to recognize the practical and theory application of various engineering concepts and understand the practical and theory relationships. Case studies related to industrial problems are given to group of students for solutions. Mini and Mega projects are given to learn and implementation of theoretical knowledge into the practical application</p>
Curriculum Development	<p>Institute has well defined planning effective implementation of curriculum. i.Develop action plan for effective implementation of curriculum ii. Regular meeting of Principal with HODs and Deans. iii. Academic calendar is planned well in advance. iv. The course file is prepared by faculty. v. Orientation program conducted for first year students. vi. Feedback from students for the effective teaching.</p>

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

E-governance area	Details
Planning and Development	Institute has in house development software
Administration	Bio metric attendance for Staff Members
Finance and Accounts	Tally 7.2 erp 9 software for accounting
Student Admission and Support	Student admission (In-house software) Student support (SMS Omega Tele-solution),T and P software (In-house)
Examination	In-house software

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
2020	Mangesh Jaiswal(ME)	International conference on Green Energy for Sustainable Development (28-29 feb 2020)	Govt. Poly. Nagpur	2100
2020	Dr.A.V.Kolhe(ME)	International conference on Green Energy for Sustainable Development (28-29 feb 2020)	Govt. Poly. Nagpur	2100
2020	Mrs. Dr. Pratibha Mahato(ESH)	2nd International conference on green energy sustainable development (KGESP-2020)	Government polytechnic , Nagpur	2100
2019	Mrs. Jyoti Badwaik(ESH)	National conference	Nilkanthrao Shinde Science bhdravati, chandrapur	1700
2019	Shri E. Sivaprasad(ESH)	Internatoinal confrence on Advances in Physucal, Chemical and mathematical sciences CICA - PCM - 2020	RTMNU, Nagpur	3200
2019	Shri B. Venkanna(ESH)	International conference of GAMS 2019	VIT, Bhopal	3000
View File				

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	Webinar VLSI: Breaking	NIL	30/05/2020	30/05/2020	7	2

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
FDP on Data Processing and Data Visualization using Python(CT_5)	5	26/05/2020	30/05/2020	05
Five days STTP on Blast Resistant and anti-Terrorism Design of Structures using Advanced Materials(CE_1)	1	26/08/2019	30/08/2019	05
One week FDP on Advances in Structural Engineering: Recent Trends(CE_2)	2	01/10/2019	05/10/2019	07
Basics of Autocad Sketch Up software (FDP)(IT_4)	2	10/12/2019	12/12/2019	03
Teaching-Learning Accreditation (FDP)(IT_3)	1	10/12/2019	14/12/2019	05
Two days FDP on Basics of AutoCAD and Sketch up software(CE_3)	2	11/12/2019	12/12/2019	02
FDP ICT tools for Effective Teaching Learning (ESH_1)	1	27/04/2020	02/05/2020	07
Three Days Workshop Basic Online Research Method(ME_30)	1	28/04/2020	30/04/2020	03
Online Faculty Development	3	06/05/2020	08/05/2020	03

Program on "QCAD" (ME_23)				
One week STTP on "Advanced Research Methodology" (ME_21)	2	11/05/2020	15/05/2020	05
View File				

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
Nil	Nil	Nil	Nil

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Institute has implemented the following effective welfare measures for teaching and non-teaching staff of the Institute. 1. KITS Employees Welfare Fund (KEWF) for providing emergency financial assistance to all employees of Institute in the matters of exigencies. 2. Concession in school bus fair for wards of the staff. 3. Group insurance, gratuity and provident fund schemes for the employees. 4. Residential staff quarters facility at subsidized rates. 5. Concession in tuition fee for wards of the staff. 6. Staff regularly sponsored for higher studies.	1. KITS Employees Welfare Fund 1,05,000/-	1. IBBS (Institute Book Bank Scheme for students) 2. Students got the concession in fee.

6.4 – Financial Management and Resource Mobilization

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

• At the end of every financial year, the Institute conducts audit through auditor. • Institute maintain accounts as per the procedure. • It also provides complete details of balance sheets which includes income, expenditure, use of estimates, revenue recognition, fixed assets, depreciation and previous year figures are recast and regrouped whenever necessary. The Institute has a well formulated financial policy which ensures effective and optimal utilization of finances for academic, administrative and development purpose. Every year, the budget is prepared well in advance by taking into consideration the financial requirements of every department. Each department prepares the budget based on the recurring and non-recurring requirements such as equipments consumables required for the next academic session. The budget proposed by the department

is reviewed by the Principal and the management reviews the budget forwarded by Principal and approve this after necessary changes. As and when required, the Institute makes a provision for advance/ additional funds. The Principal and the Heads of the department discuss the requirements and decide the priorities while allocating funds for various purposes ensuring optimum utilization of available fund. The Principal monitor the purchase as per the sanctioned budget. Budget utilization is periodically reviewed by the management and corrective measures are taken, if required. Financial audits are conducted by a chartered accountant every financial year to verify the compliance with established processes.

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
S2 Infotech Pvt. Ltd. Mumbai (Shri. Vijay Dhavangade)	100000	CONFERENCE
View File		

6.4.3 – Total corpus fund generated

00

6.5 – Internal Quality Assurance System

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	No	NIL	Yes	MANAGEMENT AND PRINCIPAL
Administrative	No	NIL	Yes	MANAGEMENT AND PRINCIPAL

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

1. Parent-teacher meet held annually 2. Progress report of wards sent through SMS to their respective parents. 3. Feedback taken from parents on regular basis.

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

Development programs for support staff: Following programs were conducted by the institute for the non teaching staff. 1. One day "Computer Awareness Program" was conducted for clerical staff on date 26/7/2019 , hosted by Computer Technology Department. 20 staffs were present . 2. One day workshop for the non teaching staff was conducted on 27/9/2019 on "Exploring Excell" hosted by department of Information technology. 27 staff attended the program. 3. One day program on "Communication Skills" was organized by Electronics and Communication Engineering department for all non teaching staffs including office staff, lab technicians and Programmers on 20/12/2019. 32 staff members were present.
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6.5.4 – Post Accreditation initiative(s) (mention at least three)

1. More focus on research and development. 2. Enhancement in the number of students' placement through campus recruitment drive. 3. Usage of renewable energy sources.
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6.5.5 – Internal Quality Assurance System Details

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

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	Two day workshop on Introduction to internal combustion Engine	11/01/2020	11/01/2020	12/01/2020	76
2020	Webinar on VLSI :Breaking the jinx	30/05/2020	30/05/2020	30/05/2020	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
NIL	Nil	Nil	Nil	Nil

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources

Roof top solar P-V systems are installed at administrative building with capacity 250 kW. Say No to Plastic placards are displayed at various locations in the campus. Kitchen waste from mess and grass leaves are collected from campus are decomposed and used as manure for plants. Also it is used in Biogas plant. Renewable Energy Sources Solar Water Heating System: Solar water heating system has installed on the roof top of hostel buildings as given below. Kaveri Hostel: Solar water heating system (Force Flow) installed on 24.11.2003 and then it is modified in to Heat Exchanger System on 25.10.2011 (2 units of 2000 liter capacity) Triveni Hostel: Solar water heating system (Force Flow) installed in 1995 and then it is modified in to Heat Exchanger System on 2007 (3000 liter capacity) Jamuna Hostel: Solar water heating system (Force Flow) installed in 1991 and then it is modified in to Heat Exchanger System in 2006 (2000 liter capacity) Solar Street lighting System: Solar street lights are installed in the campus. Total four no. of 16 w capacity lights are used. Bio gas: Bio gas plant is installed near Triveni mess in 2013 having capacity of gas holder tank 750 liters from which 650 liters gas is obtained. Energy saving using renewable energy sources: Solar water heating system: Total capacity 9000 liters Specific heat of water 4.18 kJ/kg Average temperature rise of water 35 °C Equivalent heat saved 9000x4.18x35 = 1316700 kJ/day Equivalent Electrical energy saved 1316700x30/3600 = 10972.5kw/month = 9326.62kwh/month (Assuming 85 efficient

utilization) Solar Street lighting: No. of units 04 Capacity 16 W (each) Total capacity 16x 4 64 W Assuming utilization 12 hrs. per day Equivalent Electrical energy saved 64 x12 x30 /1000 23 kwh/month Bio gas Plant: Capacity of plant 650 liters Equivalent Electrical energy saved 0.975 x30 29.25 kwh/month Total equivalent electrical energy saved (kwh per month) 9326.62 2329.25 9378.87 9300 kwh/month Approximately 9300 kWh/month equivalent electrical energy is saved by using the renewable energy sources in the campus.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	Nil
Provision for lift	No	Nil
Ramp/Rails	Yes	Nil
Braille Software/facilities	No	Nil
Rest Rooms	Yes	Nil
Scribes for examination	Yes	Nil
Special skill development for differently abled students	No	Nil
Any other similar facility	No	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	1	1	01/06/2019	365	Sanctioned MSRTC bus facility up to college campus.	Resolving commuting problems of students and staff	200
2019	1	1	01/06/2019	365	Appointment of permanent Medical practitioner in college campus for students and staff	Resolving issues of medical facilities for students and staff.	350
2020	1	1	26/01/2020	01	Distributed	To contribute	50

					sweets, Fruits, Donated Sports Material as Cricket Bat and Football to deaf and dumb school, Shitalwadi Ramtek	towards basic requirement	
2020	1	1	26/01/2020	01	Activity at Old Age Home, Mansar Road Ramtek	Distributed sweets and fruits	50
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)
Administrative Manual	01/06/2019	Administrative Manual has been published in March 2002 by Vodithala Education Society, Telangana. It provide details of authority for administration and rules and regulation of the institution.
Student Handbook for B.E.I, II Sem.	01/07/2019	Student handbook is published every year it is provided to every student at the time of orientation programme after taking admission to first semester. It contains details of code of conduct for college, library and hostel for students.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Activity for deaf and dumb school children, Shri Sant Gadge Maharaj Muk Badhir Niwasi Vidyalaya, Shitalwadi Ramtek	26/01/2020	26/01/2020	50

Activity at Old age Home Mansar Road Ramtek	26/01/2020	26/01/2020	50
View File			

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

Steel glasses and plates are used in Canteen in place of plastic glasses and plates.
Rain water harvesting
Solid waste treatment
Liquid waste treatment
Pedestrian friendly roads
Use of public transport system and sharing system
Progress report via SMS
Use of Solar Power
Tree Plantation
Plastic free Campus

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best Practice-I 1.Title of the Practice: Students Counseling 2.Objective of the Practice: ? To make the students comfortable in this era of stressful competition, so that they perform to their maximum potential in academics as well as extracurricular activities. ? To guide the students with day to day issues or issues related to their academic performance. ? To inculcate problem solving and decision making ability in the students ? To make the students self-confident so that they can deal with the different issues they are likely to face in future. ? To create better understanding between students and teachers which helps in creating a harmonious atmosphere in the Institute. 3. The Context: For students to be able to learn at their peak capacity, they need to be physically, emotionally, intellectually and spiritually well. In today's era of cut throat competition, students often suffer from stress and become depressed easily either for academic reasons or for any other personal problems. In order to help students to resolve their issues related to personal, academics or any other issues, counseling of students is a requirement of the day and time. Since, the Institute has the responsibility to build and develop the personality of the students we need to counsel the students for raising their self-confidence and developing their positive thinking ability. 4. The Practice: The main focus of the counselor is to understand the problems or issues of the students and develop their mindset so that they resolve their issues in a positive manner. In engineering subjects, we often find that the topics in the subjects get outdated very fast and the students find it difficult to understand the relevance to these subjects. The counselors who are the guardian teachers are usually faculty members of respective departments. They assist the students by guiding them in the right direction for aspects of problem solving and decision making. One dedicated slot is provided in the time table of every class. A group of 15 to 20 students are under each counselor and attending counseling classes is mandatory .Counselors maintain the attendance register for the students present during the counseling session. The students discuss their problems related to studies, hostels, curricular activities, hostels, health and many other issues including their personal problems with their counselor during this period. The counselor

discusses these problems and help in resolving these issues. Progress reports and attendance of students are sent to their parents after the both the sessional examinations by the counselor. At the completion of their degree course, a character certificate is issued to the students which is based on counselor's report. The Common problems that are resolved during counseling are that of depression, anxiety and addiction. Many college students have such low self-esteem that they find it difficult to attend classes or do their assignments once they fail. They suffer with different levels of depression and get themselves hooked with liquors or drugs. There are students who join the institute with the plan to get major in a certain field (branch) without having much idea about the kind of job they are going to land into. This leads them to great anxiety. Addiction is one of the greatest problems that the students encounter. Without parental monitoring, it is easy for college students go astray and get caught up in addiction. To help college students in resolving their issues, our Institute has made efforts in the form of establishing an individual and group counseling system to provide intervention to the students, so that their social and emotional problems do not interfere with their academic performances. In our Institute counselors maintain student's personal and academic profile for each semester. In Students performance profile all the conversation details, academic progress in terms of mark sheet, personal details of the student are maintained by guardian teacher. This data helps guardian teacher to understand student emotionally, academically and personally. It also helps in the proper designing of the execution of curriculum for students.

5. Evidence of Success Result shows that the counseling practice in our Institution has been effective in solving student's personal difficulties. The moral support given by individual counseling seemed to have a positive influence on the academic performance and the number of sessions correlated positively with the academic performance. It has been observed that the percentage of number of students detained per year due to less attendance decreased. Participation of the students has increased in various co-curricular and extracurricular activities. Students are also trying to solve the problems of local community through their project work. The ability to communicate has increased gradually. Student's performance in competitive examinations has also improved.

6. Problems Encountered and Resources Required The most common problem that the counselor encounters with the student is that students are introvert and hesitate to discuss their personal problems. This is because students in this Institute mostly come from rural areas and have poor educational background. So, there is a lukewarm response in the parents meeting which is well below the expectation. Contacting students' and their parents is also a problem as contact numbers are frequently changed and not informed to the counselors. To send the progress report of students to their parents, counselor takes the help of Postal service or SMS facility. Regular parent teacher interaction is necessary to discuss the issues related to academic performance of students. But this process is not effective in rural areas. By taking into the consideration of the problems encountered in counseling, it is planned to have a student counseling session with a professional for academic year 2019-20. We are considering Keyoar group conselling to third year students.

Best Practice-II

1. Title of the Practice: Institutional Book Bank Scheme (IBBS)

2. Objective of the Practice: ? The main objective of the scheme is to uplift lives of all communities who are economically weak. ? To bring in Socio-economic equality. ? To provide the required books to the students irrespective of their caste or creed or category. ? To increase the quantity of books in library. ? To optimize the use of books. ? To make a habit of using text books to the students.

1. The Context: ? Book Bank Scheme (BBS) for Scheduled Caste/ Scheduled Tribe Students is introduced by the state government of Maharashtra in association with Social Justice and Special Assistance Department. This scheme is being funded by the Central government of India. Under this scheme, the government provides book

bank for medical, engineering, agriculture students of scheduled caste students in Maharashtra. ? Book bank Scheme is very useful for the reserved category students such as SC/ST students who are economically weak. But students of other communities can not avail this scheme. ? To take care of the students of all category who are economical weak, Institute has started the Institutional Book Bank Scheme (IBBS). 3. The Practice: ? Institute Book Bank Scheme was started in the year 2003 to provide the books to economically weak students of all categories. In this scheme, students can demand any text book / reference book irrespective of availability in the library. ? Once the request is received by the library, the books are issued immediately. In case of unavailability, the Librarian purchases the book within 3 days. The cost of books are informed to the student and a challen is issued to the student which is to be paid in UCO bank, KITS Ramtek. The books are then issued to the students after receiving the payment challen from student. ? At the end of semester, when student returns the books ,80 of total amount is transferred to the students bank account. ? Through this scheme, students can use the books as per their requirement at the cost of 20 of total cost. Students have to maintain the good condition of books. ? This scheme was started with an investment of Rs.16417/- by purchasing 327 no of books in 2003-04 and it has reached to a collection of 13622 no of books costing Rs.3446405/- 4. Evidence of Success Institutional book bank scheme becomes a popular among the students and number of benefited students have increased. Table: Comparison of students benefited from BBS and IBBS in last five years. Year No. of students benefited by BBS No. of students benefited by IBBS

2012-2013	437	1891
2013-2014	574	1774
2014-2015	527	1418
2015-2016	512	1161
2016-2017	550	1261
2017-2018	374	819
2018-2019	314	608
2019-2020	350	542
Total	3638	9474

The above table shows that the IBBS is beneficial to the economical backward students of all communities leading to socio-economic justice. 5. Problems Encountered and Resources Required ? Initially there was problem for initial investment to procure books for all students. ? We also had to face problems due to variation in the demand of students. ? Up keep and maintenance of books is an uphill task. ? Lack of interest in the students in reading text books. ? Motivation to students to use text books ? Digitalization of books has lessened the demand

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

https://www.kits.edu/Downloads/Documents/Best_Practices_-_2019-20.pdf

7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

Vision: The vision of our Institute is to develop the institute into a center of excellence in professional and technical education. **Priority:** To fulfill the above said vision we are giving top priority to develop ourselves in certain areas. Since our Institute is located far away from the city, we focus on providing technical education to rural students and encouraging economically backward students to pursue technical education. The Institute focuses on covering 100 percent syllabus coverage of every subject. Attendance of the students is monitored continuously and their performance is analyzed twice at every semester. Remedial classes are arranged for the academically weak students or the slow learners. Soft skills development classes and career counseling classes are arranged to develop the overall personality of students and thus build their confidence. The Institute also gives maximum placement opportunities to the students. **Thrust** The Institute provides best opportunities to the students of nearby villages to avail technical education and build their careers. For the effective implementation of the curriculum, the institute meticulously designs and develops the action plans. The Principal conducts

meetings regularly with the Heads of Departments and the Deans to plan, develop and implement effective ways of teaching and learning. The Institute provides best hostel facility for both girls and boys students with all amenities such as Library, Bank, ATM's, departmental stores, gymnasium, canteen etc. in the campus. The Institute focuses on completion of the 100 syllabus. In this regard, faculty members are instructed regularly by the Principal as well as HOD's to plan extra lectures if required. Apart from regular classes, the institute conducts various case studies, guest lecturers and workshops to enhance the capability of students to present the topics related to the curriculum. The institute identifies academically weak students and then the remedial classes are conducted for such students so as to raise their academic performance. The Institute also monitors attendance of the students regularly.

In this regard, the students are motivated constantly to upgrade their attendance and maintain more than 75 attendance. The counseling system of the institution is very strong where students share their academic and personal problems with the counselor. Parent-teacher meetings are conducted to keep the parents well informed about the performance of their wards. The Institute maintains highly discipline inside the campus and it does not support any kind of misconduct within the college and hostels. Teachers are encouraged to participate in various kinds of seminars, conferences or workshops to keep themselves updated in their respective subjects. They are motivated to pursue Ph D's and also to write books. They are also encouraged to practice innovative teaching methods such as delivering lectures through, presentations, assignments, discussions, workshops, seminars etc. Apart from the regular teaching, the institute also organizes several expert lectures, workshops and guest lecturers to encourage industry-academia interface among students and faculty members on a regular basis. Industrial visits are regularly arranged for the students to make them familiar with the process of industry and upgrade their knowledge.

Provide the weblink of the institution

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8.Future Plans of Actions for Next Academic Year

To conduct seminar and workshop by the IQAC to promote the quality improvement strategies in teaching-learning process and research activities for faculty members and similar programs for students in their respective field. To conduct training programs for non teaching staff and the computer programmers in the departments and office. • It is planned to organize a national and international conferences or workshops for faculty and students by each department. •To organize workshop and seminar and job oriented services by the Career counseling and Training and Placement cell for the students. •Encouraging faculty members to complete their doctoral degree and to continue research activities through quality publications and research projects. •To prepare and submit the proposals for research projects • Promoting participation of students and staff in sports, games and other similar cultural activities organized by the Institute and Promoting activities such as Yoga, physical exercise, meditation etc related to development of mental and physical fitness of students, faculty and staff. • Make efforts for more the number of environment friendly initiatives by NSS and ensuring participation of maximum students in such activities. Initiating the process for achieving the ISO certification ISO 14001: 2015 and ISO 9001 : 2015. • Planning for Roof Top Solar Power System in the Institute to fulfill power requirement.