

## Yearly Status Report - 2017-2018

Part A

### Data of the Institution

1. Name of the Institution

K. D. K. COLLEGE OF ENGINEERING, NAGPUR

Name of the head of the Institution	Devendra P. Singh
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	0712-2710030
Mobile no.	9822240806
Registered Email	aml_badar@yahoo.com
Alternate Email	prabhakark117@gmail.com
Address	Great Nag Road, Nandanvan ,Nagpur
City/Town	Nagpur
State/UT	Maharashtra
Pincode	440009
<b>2. Institutional Status</b>	
Affiliated / Constituent	Affiliated
Type of Institution	Co-education
Location	Urban
Financial Status	private
Name of the IQAC co-ordinator/Director	Dr. Prabhakar D.Khandait
Phone no/Alternate Phone no.	09923199394
Mobile no.	9028144773
Registered Email	prabhakark117@gmail.com
Alternate Email	prabhakark_117@yahoo.co.in
<b>3. Website Address</b>	
Web-link of the AQAR: (Previous Academic Year)	<a href="http://www.kdkce.edu.in/pdf/AQAR_KDKCE_2016-17.pdf">http://www.kdkce.edu.in/pdf/AQAR_KDKCE_2016-17.pdf</a>

<b>4. Whether Academic Calendar prepared during the year</b>	Yes
if yes,whether it is uploaded in the institutional website: Weblink :	<a href="https://www.kdkce.edu.in/pdf/Academic%20Calander%202017-2018.pdf">https://www.kdkce.edu.in/pdf/Academic%20Calander%202017-2018.pdf</a>

#### 5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	B++	2.93	2018	02-Nov-2018	01-Nov-2023

#### 6. Date of Establishment of IQAC

09-Jul-2016

#### 7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
National Conference	29-Dec-2017 01	82
International Conference	24-Jan-2018 02	400
Regular meeting of Internal Quality Assurance Cell (IQAC)	12-Jun-2017 01	18
Prequalifier for NBA accreditation submitted and qualified	10-Oct-2017 01	5
IIQA for NAAC Accreditation	10-Nov-2017 01	2930
AICTE-CII Survey	04-Jul-2018 48	2930
Conduction of Additional and Advanced Practical	11-Sep-2017 06	240
3 Day Entrepreneurship Development Programme	14-Sep-2017 01	75
International Conference	08-Mar-2018 02	350
National Conference	16-Mar-2018 01	459
<a href="#">View File</a>		

#### 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
K.D.K.College of Engineering, Nagpur	Nil	UGC	2017 00	0
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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 :**

4

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)**

- IIQA qualified and submitted SSR for NAAC accreditation in January 2018.
- NBA Prequalifier qualified and preparing NBA SAR Accreditation of 5 UG Programs
- AICTE CII Survey completed
- Campus Recruitment Training (CRT) program which resulted into 390 placements
- ISO Certification process initiated

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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
Organization of National/ Int. national Conference	National Conference: 02 and International conference:02
NAAC Accreditation process	IIQA qualified and submitted SSR for NAAC accreditation in January 2018.
NBA Accreditation process of UG Programs	NBA Prequalifier qualified and preparing NBA SAR Accreditation of 5 UG Programs (Civil, Mechanical, Electrical, Computer Electronics Engineering)
Thrust Areas Specific Activities: Lab. Development, Publications, Proposals,	Increase in intake in Ph.D. Research Centre from to 15, FDP/STTPs

STTPS/ SDP/ Training	organized:04 , Publications of Students: 185
Faculty Development & Participation	Faculty Members attended total 155 Conferences/STTP /Workshops
Paper publication by Faculty	170 papers are published by faculty in conferences and Journals
Industry Linkage	Total MOU signed=10
Teaching days & Average % students attendance	Total Teaching days =183, Avg. students attendance = 76%
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<b>14. Whether AQAR was placed before statutory body ?</b>	Yes
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Name of Statutory Body	Meeting Date
College Development Cell	10-Apr-2019

<b>15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?</b>	No
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<b>16. Whether institutional data submitted to AISHE:</b>	Yes
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Year of Submission	2018
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Date of Submission	15-Nov-2018
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<b>17. Does the Institution have Management Information System ?</b>	Yes
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If yes, give a brief description and a list of modules currently operational (maximum 500 words)	Management Information System (MIS) is used by the college and have fully computerized office and accounts. MIS is used to facilitate in administration, students admission and support system, examination, library, finance and accounts, etc. All the relevant data are digitally available. Necessary and required data are fed into the Enterprise Resource Planning (ERP) and further process is carried out using MIS. Online admission process for Students is carried out along with online payment facility. MIS is also used in collection of Fee from the students through Bank Challan, etc. Registration for higher class and all other data pertaining to the students admitted to the higher semesters are managed through MIS. ERP is used to
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record daily attendance of the students. The record of internal exam marks are stored into the ERP and makes it easy to identify the slow learners and advance learners based on their performance in the internal exams. Online portal is used for leave application submission by teaching and nonteaching staff of the college. Implemented SMS dissemination gateway system for internal stakeholders of the college. Display of all important notifications and other information through MIS using digitalized way.

## 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

K.D.K. College of Engineering is affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur and follows curriculum designed by Board of studies of the university. The institute has well developed structure for effective implementation of the curriculum prescribed by the University. Institute develops and deploys action plans through IQAC which helps to coordinate all programs under one roof which in turn ensures excellence of each activity. Each program has a set of perspective Vision and Mission, which are aligned with Vision and Mission of the Institute. Program Educational Objectives (PEOs) and Program Outcomes (POs) are scripted for each program and Course Outcomes (COs) are defined for each Course (theory and practical). COs with POs are mapped to assess the learning by setting attainment targets for students' performance. At the start of academic session, Principal conducts meeting with Deans and Heads of the Departments to prepare academic calendar for the session. Heads of Departments discuss action plans to arrive at an optimal and effective way for implementing those plans. These plans are deployed through Program Assessment and Quality Improvement Committee (PAQIC) meetings. Time table is prepared for each program prior to the start of every semester. Each faculty prepares teaching file for the conduction of theory and practical courses. Teaching file consists of important information such as course details, time table, teaching plan and record of course delivery along with details of teaching methods and teaching aids. The curriculum gaps, if any, are fulfilled by delivering the content beyond syllabus under various activities such as expert lectures, seminars, subject activities, workshops and other co-curricular activities. A record of theory attendance, practical / assignment/ tutorial, record of practical/ tutorial attendance with performance evaluation, record of project work engagement and progress is also maintained. Continuous assessment report of student's performance is prepared. The report is assessed internally by PAQIC which includes Heads of Departments and Class in-charges. It is used to monitor the attainment level of CO, PO, PEO leading to attainment of Mission and Vision of the program. Institute aims at effective curriculum delivery by providing required state of the art facilities in classrooms, tutorial rooms, seminar halls and laboratories. Institute encourages use of different teaching aids such as softwares, LCD projectors, wall charts and models. ICT based teaching is practiced. Computer based training packages; lecture series like NPTEL are used to make learning interesting. Additionally interactive methods

like videos, quizzes, seminars, objective tests, group discussions, are incorporated for effective learning process. Every faculty member is assigned a group of students for mentoring throughout the session. Mentors conduct meeting with mentees and record their difficulties, requirements and suggestions to take necessary actions related to curriculum implementation. FDPs are conducted to enrich faculty members with updated knowledge, comprehensive skills and right attitude. Faculty is encouraged to participate in Continuing Education Programs run by elite institutes for exchange of knowledge and skill. Above mentioned teaching-learning process helps students assimilate the curriculum effectively and receive additional inputs in the form of technical skills needed by Industry.

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

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employability/entrepreneurship	Skill Development
MATLAB Training Workshop	Nil	24/12/2017	06	Employability	Analysis Design
Workshop on PCB and Breadboard Design Program	Nil	19/01/2018	02	Employability	PCB and Breadboard Design
Aptitude and Skill Development Course	Nil	19/06/2017	06	Employability	Aptitude and Skill Development
NPTEL / MOOC Courses	Nil	01/07/2017	24	Employability	Professional Skills
Software training Course on AutoCAD	Nil	31/07/2017	30	Employability	Planning and Design
Software training Course on REVIT	Nil	31/07/2017	30	Employability	Planning and Design
Software training Course on STAAD Pro	Nil	31/07/2017	30	Employability	Analysis and Design
Entrepreneurship Development Programme	Nil	14/09/2017	03	Entrepreneurship	Entrepreneurship Development
CRT-Campus Recruitment Training-Workshop on "Aptitude Development" by Vikalp	Nil	19/09/2017	06	Employability	Aptitude, Communication, GD/PI

Education CRT- Campus Recruitment Training -Barclays - Employability Enhancement Program	Nil	23/01/2018	06	Employability	Aptitude, Communication, GD/PI
CRT- Campus Recruitment Training by Abridge Educom, Nagpur	Nil	23/01/2018	06	Employability	Aptitude, Communication, GD/PI
MOCK SSB	Nil	17/03/2018	02	Employability	Aptitude, Communication
NPTEL /MOOC Courses	Nil	01/01/2018	24	Employability	Professional Skills

## 1.2 – Academic Flexibility

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

Programme/Course	Programme Specialization	Dates of Introduction
BE	Nil	01/07/2017
<a href="#">View File</a>		

### 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	Mechanical Engineering Design	01/07/2017
Mtech	Structural Engineering	01/07/2017
MBA	Master of Business Administration	01/07/2017
BE	Mechanical Engineering	01/07/2017
BE	Civil Engineering	01/07/2017
BE	Electrical Engineering	01/07/2017
BE	Electronics Engineering	01/07/2017
BE	Computer Technology	01/07/2017
BE	. Information Technology	01/07/2017

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

	Certificate	Diploma Course
Number of Students	1444	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
NPTEL Courses	01/07/2017	132
Software training Course on AutoCAD	31/07/2017	44
Software training Course on REVIT	31/07/2017	27
Software training Course on STAAD Pro	31/07/2017	11
Go Card Designing Course through Club AUTO	18/08/2017	40
Basic Robotics Course through Club ROBO	18/08/2017	51
Technical Bootcamp with DOT NET HANDS ON EXPERIENCE	24/08/2017	27
Short term Course on "Aptitude Development" by Vikalp Education	19/09/2017	127
Short term course on MATLAB	24/12/2017	117
Barclays - Employability Enhancement Program	23/01/2018	400
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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	Mechanical Engineering (UG Project)	209
BE	Civil Engineering(UG Project)	41
Mtech	Mechanical Engineering Design (PG Project)	7
Mtech	Structural Engineering (PG Project)	7
BE	Information Technology(Internship)	5
BE	Electrical Engineering(Internship)	259
BE	Computer Technology(Internship)	78
BE	Electronics Engineering(Internship)	53
BE	Civil Engineering (Internship)	135

MBA	Master of Business Administration(Internship )	48
<a href="#">View File</a>		

## 1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	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>KDKCE understands that teaching-learning system followed by an educational institution needs continuous refinement. To capacitate this process of continuous refinement, the institution has adopted a feedback system that takes suggestions from stakeholders of each programme. This eventually helps to fine-tune the teaching-learning process and the curriculum. The Institute follows the mechanism detailed below for collection of feedback from Students, Faculty, Alumni, Employer and Parents on curriculum. Feedback Collection and analysis Process:- The feedback is taken up either online or by collecting forms during Parent meet/ Alumni meet/ through e-mail in each semester /year. Feedback so obtained is analyzed dimension-wise. The feedback and surveys are done to rate the performance based on various parameters (mentioned in the feedback form), generally on a four point scale. For these feedback and surveys, indices viz, Strongly Agree / Excellent, Fairly Agree /Good, Agree / Satisfactory and Disagree / Poor having marks 4, 3, 2 and 1 are used in analysis to calculate the percentage score. The points are calculated according to the grades given by the stakeholders in various criteria. The weighted parameters are obtained to get the final evaluation of each feedback through the ratings given by each stakeholder. The indices, thus obtained fairly describe the outcome through feedback. Execution of action proposed:- The feedback analysis and consolidated reports are then submitted to the HODs for put up in IQAC meeting for further necessary actions. In the IQAC meeting actions are proposed and assigned to persons/ committees/department/units. • The faculties whose performance needs improvement are informed to take adequate corrective measures for the improvement in the performance. • Faculties are advised to attend training/workshops, etc for knowledge up-gradation. • The letter of appreciation is issued to the faculties whose performance is good. • Suggestions and comments given by the parents are also taken into account for future development. • The feedback analysis is also used to identify the curricular gaps and appropriate measures are taken to bridge it by supplementing the curriculum with value added courses, MOOCs, expert lectures, training and internships, workshops, seminars, industrial visits, excursion tours etc. • Based on the feedback, the Institute infrastructure is made more conducive to teaching and learning.</p>
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## 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 Engineering	120	139	116
BE	Mechanical Engineering First Shift	120	132	120
BE	Electrical Engineering	120	127	108
BE	Computer Technology	90	133	90
BE	Electronics Engineering	60	64	39
BE	Information Technology	60	73	54
BE	Mechanical Engineering Second Shift	60	72	45
MBA	Master of Business Administration	60	80	58
Mtech	Structural Engineering	18	22	17
Mtech	Mechanical Engineering Design	18	19	11

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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
2017	579	86	145	10	14

## 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
169	169	7	22	10	7

[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)

Introduction: K.D.K. College of Engineering has a very strong mentoring system since a long time. Students admitted to the college come from diverse backgrounds and different regions. They are new to the University system and semester pattern. This is their first exposure to the college atmosphere coming from the school background. College administration, therefore, feels it necessary to have a mentor system to guide them as they adjust to the surroundings and learn new things. Objectives: The student-mentor system was started with the following objectives: 1. To create a personal bond between the teacher and the student resulting into a sense of belongingness among the students towards the institution 2. To enhance the teacher-student relationship 3. To improve academic performance of the students 4. To decrease the drop out/ failure rate of the students 5. To identify slow/ advance learners Implementation: • Students are divided into small batches and a mentor/ guardian teacher is allotted to each batch. • Senior students also mentor the juniors. This helps in developing a bond between students. • The guardian/ mentor teacher collects data of their students including family background, contact details, permanent and local address etc. • A slot is normally provided in the college timetable so that students can meet their mentor teacher on a regular basis. This helps the teacher to access the students in general. • Students are encouraged to discuss bothering issues with their mentors apart from regular time slots if required. Staff members/ guardian teachers patiently listen to the problems faced by students and try to get a solution so as to satisfy the student. • Mentors keep a track of students' progress by maintaining their examination performance reports, class attendance, participation in other activities etc. • Mentors keep in touch with the parents of students under them and inform them about student's performance in classrooms, examinations and other activities. • Apart from guardian/mentor teachers, students are counseled by Class-in-charges, Head of the Departments, Vice-Principal, Principal. • Guardian teachers help to identify slow learners and advanced learners. • Mentors try to note hidden talent among the students. • These meetings are also helpful in spreading the knowledge of various schemes instituted by the college or government agencies. • Mentors motivate the students and guide them in college life looking into his/her capabilities. • Mentors help the students in making a choice of Electives, summer internships, project work etc. • Mentors advise the students to take up add on courses and also provides guidance for professional career. Effectiveness of the Scheme: • It is observed that there is an improvement in the teacher-student relationship. • A bond is developed between senior and junior students. • Improvement is observed in class attendance. • Development of trust and confidence by the parents and students • Identification of slow/ advance learners resulting in arrangement of special courses as per need • Improvement in academic results • Improvement in Training and Placements • Improvement in overall personality of students Thus, the mentor system in the college is totally student-centric and mentors are able to provide support and guidance to the students under them.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
2761	169	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
146	169	Nil	25	27

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
2017	Dr. Valsson Varghese	Professor	Best Professor in Structural Engineering by Dewang Mehta National Education Awards
2017	Dr. Chandrahas C. Handa	Professor	Best Professor in Mechanical Engineering by

			Dewang Mehta National Education Awards
2018	Miss Monica Nagardhane	Assistant Professor	Certificate Of Apreciation in Paper Presentation at SKR College of Engineering Chennai
<a href="#">View File</a>			

## 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
Mtech	414790410	IV	28/06/2018	31/07/2018
Mtech	414721210	III	12/12/2017	05/02/2018
MBA	414710110	II	07/05/2018	06/06/2018
BE	414724610	VIII	10/05/2018	07/06/2018
BE	414725110	VII	24/11/2017	16/12/2017
BE	414737610	VI	14/05/2018	14/06/2018
BE	414729310	V	23/11/2017	20/12/2017
BE	414761210	IV	10/05/2018	14/06/2018
BE	414719110	III	24/11/2017	08/01/2018
<a href="#">View File</a>				

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

K.D.K. College of Engineering is affiliated to R.T.M. Nagpur University, Nagpur and follows the examination system of the University. The students are assessed for 80 marks in University examination and for 20 of marks are decided by the college based on students' performance throughout the semester. K.D.K. College of Engineering follows a system of continuous evaluation of students in theory as well as in practicals, projects, seminars, industrial visits and all activities conducted. Students' feedback and performance is analyzed and the internal evaluation system is modified if required. Based on this analysis, one end term examination system was converted into one mid-term and one end-term sessional examination. To cope up with the competition at university level, a pre-university test was introduced to prepare the students for final university examination. Thus, presently, two mid-term examinations on two units each and a pre-university test based on complete syllabus as per R.T.M. Nagpur university pattern which mainly is a descriptive examination which tests the concept understanding, detailed mathematical analysis and applications are conducted. Objective tests are introduced to help the students prepare for competitive examinations. Apart from these examinations, weightage is also given to class performance and participation in other activities to complete the internal assessment by subject teachers. Assignments are given on a regular basis. The final internal assessment marks are calculated by considering all the tests and assignments. Thus, it can be said that the college follows and carries out reforms if required in Continuous Assessment System for Internal Evaluation.

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

The Institute is affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur. The university sends academic calendar for whole session which includes dates for start and end of odd and even semesters, dates for university examinations for regular students and students with backlog well in advance. Vacations are also mentioned in the calendar given by R.T.M. Nagpur University. All affiliated colleges have to follow the calendar of R.T.M. Nagpur University, Nagpur. K.D.K.College of Engg., Nagpur prepares academic calendar based on academic calendar given by R.T.M. Nagpur University. Academic calendar of college gives the start End dates for odd even semesters, vacations, tentative schedule of various internal examinations and Co-curricular Extra-curricular activities proposed to be conducted in the given academic session along with the dates of RTMNU examinations as per RTMNU calendar. The academic calendar is prepared such that students can participate in all activities and still can get sufficient time for examination preparations and self-study. Each Department prepares an academic calendar based on college calendar which further details out its own activities. Follow up of this calendar depends upon the R.T.M. Nagpur University following its own calendar. If there is a shift in dates as per university calendar, it gets reflected in college calendar. The Institute has adopted Continuous Internal Evaluation strategy and conducts various types of examinations. Many co-curricular, extra-curricular and extension activities are also conducted in each semester. Thus, it becomes imperative that in order to have all of these activities, calendar is prepared and adhered.

**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)

[http://www.kdkce.edu.in/pdf/criteria\\_2.6.1\\_CO-PO-PSO-ALL1.pdf](http://www.kdkce.edu.in/pdf/criteria_2.6.1_CO-PO-PSO-ALL1.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
414790410	Mtech	Mechanical Engineering Design	7	7	100
414721210	Mtech	Structural Engineering	18	12	66.67
414710110	MBA	Master of Business Administration	43	34	79.06
414761220	BE	Mechanical Engineering Second Shift	62	58	93.55
414724610	BE	Information Technology	43	43	100
414725110	BE	Computer Technology	106	103	97.17

414737610	BE	Electronics Engineering	73	70	95.89
414729310	BE	Electrical Engineering	135	125	92.6
414761210	BE	Mechanical Engineering First Shift	145	138	95.17
414719110	BE	Civil Engineering	136	128	94.12

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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.kdkce.edu.in/pdf/student-satisfaction-survey-2017-18.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
Projects sponsored by the University	365	Management KDKCE, Nagpur	0.3	0.3
Industry sponsored Projects	365	Narayani Electricals and Mechanical Industries	0.1	0.1
Industry sponsored Projects	365	Nagpur Agricultural Equipment Engineers Pvt., Ltd.	0.1	0.1
Industry sponsored Projects	365	AI Infinity Engineering Pvt. Ltd	0.15	0.15
Industry sponsored Projects	365	Daulat Industries, Gaddi Godam, Nagpur.	0.2	0.2
Industry sponsored Projects	365	AI Engineering Pvt. Ltd	0.1	0.1
Industry sponsored Projects	365	Dulocos Conveyors Moulds Pvt., Ltd	0.15	0.15

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### 3.2 – Innovation Ecosystem



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

Title of workshop/seminar	Name of the Dept.	Date
Seminar on Intellectual Property Right	Electrical	19/08/2017
Seminar on Introduction to IPR and Copyright	Mechanical	08/09/2017
Guest lecture on "Awareness on Patent Application."	Mechanical	12/01/2018
Seminar on IPR and Patent	Civil	14/02/2018
Seminar on Intellectual Property Right	CT	08/01/2018
Intellectual Property Rights : IPR Patentability and Patent filing Process	Electronics Engineering	01/06/2018
Seminar on Intellectual Property Rights	IT	17/07/2018
Seminar on Intellectual Property Rights	IT	08/01/2018
One day workshop on Intellectual Property Rights	Civil	24/12/2017

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
Go-Karting(Kart-Riding)	Anurag Bante	Jaipur Street Karting Cup 2018	17/03/2018	Bronze Medal
Go-Karting(Over-All Event)	Anurag Bante	Jaipur Street Karting Cup 2018	17/03/2018	IV th runner up
Go-Karting(Autocross)	Anurag Bante	Jaipur Street Karting Cup 2018	17/03/2018	II position
Cloud Computing	Dr. Sachin Solanki	NPTEL	31/10/2017	Certificate of Appreciation
Paper Presentation	Miss Monica Nagardhane	SKR College Of Engineering Chennai	02/08/2017	Certificate of Appreciation

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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	NA	NA	NA	NA	01/07/2017

[View File](#)



### 3.3 – Research Publications and Awards

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

State	National	International
0	5000	5600

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

Name of the Department	Number of PhD's Awarded
Mechanical Engineering	2
Physics Department	1
Electrical Department	1

#### 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)
National	Mechanical	5	5.4
National	Computer Tech	22	4.88
International	Mechanical	76	5.4
International	Civil	6	6.88
International	Basic Science and Humanities	19	03

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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	2
Mechanical	1
Electrical	2
Electronics	2
Computer Tech	1
Information Tech	1
Basic Science and Humanities	1
Master of Business administration	1

[View File](#)

#### 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
A comprehensive study of effect of concentration,	Dr. C. C. Handa	Applied Thermal Engineering	2017	6	K. D. K. College of Engg, Nagpur	41

particle size and particle shape on thermal conductivity of titania /water based nanofluid						
Identification of parameters to evaluate roller bending process: A review	Dr. C. C. Handa	International journal for research in applied science engineering technology	2018	6	K. D. K. College of Engg, Nagpur	5
Synthesis and comparative study of Ce <sup>3</sup> ion in calcium aluminates	K.A. Gedekar, S.P.Wankhede et al.	Journal of Sol-Gel Science and Technology	2017	3	K. D. K. College of Engg, Nagpur	3
d-f luminescence of Ce <sup>3</sup> and Eu <sup>2</sup> ions in BaAl <sub>2</sub> O <sub>4</sub> , SrAl <sub>2</sub> O <sub>4</sub> and CaAl <sub>2</sub> O <sub>4</sub> phosphors	K.A. Gedekar, S.P.Wankhede et al.	Journal of Advanced Ceramics 6 (4), 341-350	2017	3	K. D. K. College of Engg, Nagpur	9
Synthesis, crystal structure and luminescence in Ca <sub>3</sub> Al <sub>2</sub> O <sub>6</sub>	K.A. Gedekar, S.P.Wankhede et al.	Journal of Materials Science: Materials in Electronics	2018	3	K. D. K. College of Engg, Nagpur	6
Ce <sup>3</sup> and Eu <sup>2</sup> luminescence in calcium and strontium aluminates	K.A. Gedekar, S.P.Wankhede et al.	Journal of Materials Science: Materials in Electronics	2018	3	K. D. K. College of Engg, Nagpur	3
Synthesis and characterization of	S. P. Wankhede et al.	Luminescence 33 (2), 356-363	2018	3	K. D. K. College of Engg, Nagpur	3

KCe(PO <sub>3</sub> ) <sub>4</sub> doped with some lanthanide activators						
Study of optically stimulated luminescence in LiSrAlF <sub>6</sub> :Eu <sup>2+</sup>	S. P. Wankhede et al.	AIP Conference Proceedings 1953 (1), 050032	2018	3	K. D. K. College of Engg, Nagpur	1
Effect of Si codoping on thermoluminescence properties of undoped and RE (RE: Ce/Tb/Pr/Eu/Yb/Nd) doped YAG phosphor under UV, and $\gamma$ -ray irradiation	S. P. Wankhede et al.	Optical Materials 73, 799-804	2017	3	K. D. K. College of Engg, Nagpur	1
Automatic Plant Watering System	Prof.S.A .Bagal	International Journal of Adv. Research And Innovation in Education, Volume-4, Issue-2	2018	1	K. D. K. College of Engg, Nagpur	3
<a href="#">View File</a>						

### 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
Channel Estimation and Modelling for Underwater Acoustic Sensor Networks	Prof. Mrs. J.S.Gawai	International Conference on Recent trends in Engineering, Applied Science and	2018	1	3	K. D. K. College of Engineering, Nagpur

		Management (ICRTESM-1 7)				
Automatic Plant Watering System	Prof. S.A.Bagal	Internat ional Journal of Adv. Research And Innovation in Education, Volume-4, Issue-2	2018	1	3	K. D. K. College of Engineerin g, Nagpur
Effect of Si codoping on thermol uminescenc e properties of undoped and RE (RE: Ce/Tb /Pr/Eu/Yb/ Nd) doped YAG phosphor under UV, and ?-ray irradiatio n	M Upasani, BP Butey, SP Wankhede, CP Joshi, RR Patil, SV Moharil	Optical Materials 73, 799-804	2017	6	1	K. D. K. College of Engineerin g, Nagpur
Synthesis and charac terization of KCe(PO <sub>3</sub> ) <sub>4</sub> doped with some lanthanide activators	SU Bhonsule, SP Wankhede, SV Moharil	Luminesc ence 33 (2), 356-363	2018	6	2	K. D. K. College of Engineerin g, Nagpur
Ce <sup>3+</sup> and Eu <sup>2+</sup> lumine scence in calcium and strontium aluminates	Dr. Mrs. S. P. Wankhede	Journal of Materials Science: Materials in Electro nics	2018	2	2	K. D. K. College of Engineerin g, Nagpur
Synthesis, crystal structure and lumine scence in Ca <sub>3</sub> Al <sub>2</sub> O <sub>6</sub>	Dr. Mrs. S. P. Wankhede	Journal of Materials Science: Materials in Electro nics	2018	2	2	K. D. K. College of Engineerin g, Nagpur

d-f luminescence of Ce <sup>3</sup> and Eu <sup>2</sup> ions in BaAl <sub>2</sub> O <sub>4</sub> , SrAl <sub>2</sub> O <sub>4</sub> and CaAl <sub>2</sub> O <sub>4</sub> phosphors	Dr. Mrs. S. P. Wankhede	Journal of Advanced Ceramics	2017	3	3	K. D. K. College of Engineering, Nagpur
Synthesis and comparative study of Ce <sup>3</sup> ion in calcium aluminates	Dr. Mrs. S. P. Wankhede	Journal of Sol-Gel Science and Technology	2017	4	2	K. D. K. College of Engineering, Nagpur
Identification of parameters to evaluate roller bending process: A review	Dr. C. C. Handa	International journal for research in applied science engineering technology	2018	6	5	K. D. K. College of Engineering, Nagpur
A comprehensive study of effect of concentration, particle size and particle shape on thermal conductivity of titania /water based nanofluid	Dr. C. C. Handa	Applied Thermal Engineering	2017	6	41	K. D. K. College of Engineering, Nagpur
<a href="#">View File</a>						

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

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	33	53	Nill	20
Presented papers	51	38	Nill	Nill
Resource persons	1	1	Nill	1
<a href="#">View File</a>				

### 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
Share And Care	NSS Unit, KDKCE, Nagpur	35	257
69th Republic Day Celebration	NSS Unit, KDKCE, Nagpur	82	256
Traffic Awareness Camp	NSS Unit KDKCE Traffic Police Nandanvan, Nagpur at Jagnade square, Nagpur	2	145
Fire And Safety Awareness Camp	NSS unit organized an event Fire and Safety Awareness camp, in association with Department of Electronics Engineering, KDKCE and Deptt of Fire Safety, Nagpur Division.	25	509
National Youth Day	NSS Unit, KDKCE, Nagpur	4	221
Cashless India Campaign	NSS Unit, KDKCE, Nagpur	1	69
Swachha Bharat Abhiyan	NSS Unit, KDKCE, Nagpur	10	255
Run For Unity	NSS Unit, KDKCE, Nagpur	2	67

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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
Awareness about Various Career Opportunities in Engineering and Other Related Areas	Certificate of Appreciation	Kalpataru Bahu- uddeshiya sanstha, Gadchiroli	1236
Awareness programme on Cleanliness and Health	Certificate of Appreciation	Pratkar Sanskutik Manch, Bembal, Chandrapur	633
Blood Donation camp	Certificate of Appreciation	Rainbow Blood and Componant Bank, A	157

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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
Outreach Programme	MESA of Mechanical Engineering Department	Distribution Of Educational KIT to Primary School at Vihirgaon	5	40
Awareness Programme	Department of Civil Engineering	Environmental Awareness Programme	15	103
Outreach Programme	FACE-IT (Department student forum) (IT Department)	Kerala Flood Relief Campaign	23	111
Outreach Programme	Self Organized (Computer Department)	Kerala Flood Relief Campaign	12	150
Swachh Bharat abhiyan	Self Organized (Computer Department)	Swachhata Abhiyan	14	180
Awareness Programme	Self Organized (Computer Department)	Computer Literacy Program	16	39
Awareness Programme	Self Organized (Computer Department)	Computer Literacy Program	15	38
Awareness Programme	FIRE Dept .NMC Nagpur (Electronics Department)	Fire Safety	25	509
Awareness Programme	Self Organized (Electronics Department)	Tree Plantation	4	13
Awareness Programme	Electrical Engineering Student Association (EESA) Activity	Electrical Safety	5	142

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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
Two day workshop on IOT using Arduino ESP8266 Wi-Fi BLYNK6 By L Tech Lab in association with ISF	63	Self Financed	02
Two days Workshop on PCB and Breadboard Design	57	Self Financed	02
One day workshop on Robotics	55	Self Financed	01
Three day workshop on Arduino IOTs (Open Source Technology) By Tech Lab in association with ISF	55	Self Financed	03
International Conference on Innovative Realms in Civil Engineering(IRICE-2018)	400	Institute for Engineering Research and Publication(IFERP)	02
International Conference on Advances Practices in Electrical Engineering (ICAPE-2018)	350	Institute for Engineering Research and Publication(IFERP)	02
XIV National Conference on Emerging Technology Trends in Engineering (SPARK-2018)	459	ISTE, New Delhi	01
National Conference on Recent Developments in Mathematical Sciences (RDMS-2017)	82	Self Financed	01
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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



nternship	Student Internship	NTPC, Mouda, Nagpur	12/06/2017	29/06/2017	09
nternship	Student Internship	SECR Diesel locoshed, Motibagh	04/05/2018	16/06/2018	05
Internship	Student Internship	MSRTC Nagpur Division, Nagpur	02/06/2018	14/06/2018	07
Internship	Student Internship	Koradi Training Centre, Koradi	15/12/2017	04/01/2018	11
Internship	Student Internship	G.G. Company, Chandak kothi, Subhash Road, Nagpur	01/06/2018	14/06/2018	03
Internship	Student Internship	Emperor Honda, Nagpur	28/05/2018	13/06/2018	03
Internship	Student Internship	Diesel loco shed Motibagh, Nagpur	04/06/2018	16/06/2018	04
Internship	Student Internship	Central Railway	18/06/2018	23/06/2018	10
Internship	Student Internship	BHEL	29/05/2018	30/06/2018	04
Training	Student Internship	Regional Telecom Training Centre, BSNL, Nagpur	19/06/2017	30/06/2017	03
<a href="#">View File</a>					

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
OWECO, Ocean Wave Energy Company, U.S.A.	27/06/2018	Training and Project	7
Delastream Solutions Private Ltd.	28/08/2017	Technical Lectures	150
CMS IT Talent Development Centre, Nagpur	23/08/2017	Exchange of Technology Training - Networking	43

		Concepts	
SSG Embedded Solutions, Nagpur	29/07/2017	Exchange of Technology Internship / Training - Embedded Systems Design	48
Adinath Infotech Pvt. Ltd., Yewatmal, Maharashtra	03/07/2017	Training Placement Assistances	31
M/s Ecomate Solutions Pvt. Ltd.	09/08/2018	1. Staff visits 2.Collaborative research activities 3.Collaborative consultancy 4.Development of teaching and learning strategies or materials 5.Academic curriculum(subject) development 6.Collaboration in programs or part of programs of study etc	30
M/s Lineavance Hydro Control, Nagpur	29/06/2018	1. Staff visits 2.Collaborative research activities 3.Collaborative consultancy 4.Development of teaching and learning strategies or materials 5.Academic curriculum(subject) development 6.Collaboration in programs or part of programs of study etc	30
M/s Ujjawala Plastic Industries, Kapsi Khurd, Nagpur	19/12/2017	1. Staff visits 2.Collaborative research activities 3.Collaborative consultancy 4.Development of teaching and learning strategies or materials 5.Academic curriculum(subject) development 6.Collaboration in programs or part of	30

		programs of study etc	
Astral Informatics Pvt Ltd.	24/08/2017	Technology and Knowledge Transfer	180
Dr. Indubhushan Patnaikuni	25/01/2018	Technology and Knowledge Transfer	40
<a href="#">View File</a>			

## 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
406.47	53.74

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)	Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Others	Newly Added
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### 4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
Synchronic Soflib	Fully	5.3	2012

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	41164	8594880	589	258437	41753	8853317
Reference Books	9662	2466478	18	7990	9680	2474468
e-Books	5199	57500	5522	13570	10721	71070

Journals	424	962119	87	206233	511	1168352
e-Journals	549	57500	410	113226	959	170726
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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
Dr.S.K.Choudhari	Energy Conversion-II	<a href="https://www.kdkce.edu.in/Departments/InternalPage.aspx?Antispamctsz7MuODdfContentID493MyAntispammngQMiaQB13">https://www.kdkce.edu.in/Departments/InternalPage.aspx?Antispamctsz7MuODdfContentID493MyAntispammngQMiaQB13</a>	03/02/2018
Prof. A.P.Ninave	Advance Manufacturing Techniques	<a href="https://www.kdkce.edu.in/Departments/InternalPage.aspx?Antispamctsz7MuODdfContentID493MyAntispammngQMiaQB13">https://www.kdkce.edu.in/Departments/InternalPage.aspx?Antispamctsz7MuODdfContentID493MyAntispammngQMiaQB13</a>	09/05/2017
Dr.S.P Khandait	Database Management Systems	<a href="https://www.kdkce.edu.in/Departments/InternalPage.aspx?AntispamNogSCD2yEhAContentID486MyAntispamt4eEPDGQvhx">https://www.kdkce.edu.in/Departments/InternalPage.aspx?AntispamNogSCD2yEhAContentID486MyAntispamt4eEPDGQvhx</a>	13/09/2017
Dr. P. D. Khandait	DSP Processor Architecture	<a href="https://www.kdkce.edu.in/Departments/InternalPage.aspx?Antispamz8WeNyGtSdxContentID502MyAntispam1Y6RDRC2sGZ">https://www.kdkce.edu.in/Departments/InternalPage.aspx?Antispamz8WeNyGtSdxContentID502MyAntispam1Y6RDRC2sGZ</a>	28/09/2017
Prof. D.B.Awachat	Geotechnical Engineering	<a href="https://www.kdkce.edu.in/Departments/InternalPage.aspx?Antispam5PCxyvF8deDContentID481MyAntispamw38pMZUIc5H">https://www.kdkce.edu.in/Departments/InternalPage.aspx?Antispam5PCxyvF8deDContentID481MyAntispamw38pMZUIc5H</a>	04/01/2018
Prof. D.S. Padole	Strength of Materials	<a href="https://www.kdkce.edu.in/Departments/InternalPage.aspx?Antispam5PCxyvF8deDContentID481MyAntispamw38pMZUIc5H">https://www.kdkce.edu.in/Departments/InternalPage.aspx?Antispam5PCxyvF8deDContentID481MyAntispamw38pMZUIc5H</a>	04/02/2018
R.V.R.K.Prasad	Estimating and Costing	<a href="https://www.kdkce.edu.in/Departments/InternalPage.aspx?Antispam5PCxyvF8deDContentID481MyAntispamw38pMZUIc5H">https://www.kdkce.edu.in/Departments/InternalPage.aspx?Antispam5PCxyvF8deDContentID481MyAntispamw38pMZUIc5H</a>	10/11/2017
Dr. Nina Dhamge	Construction	<a href="https://www.kdkce.edu.in/Departments/InternalPage.aspx?Antispam5PCxyvF8deDContentID481MyAntispamw38pMZUIc5H">https://www.kdkce.edu.in/Departments/InternalPage.aspx?Antispam5PCxyvF8deDContentID481MyAntispamw38pMZUIc5H</a>	10/11/2017

	management and Law	.edu.in/Departments /InternalPage.aspx? Antispam5PCxyvF8deD ContentID481MyAntis pamw38pMZUic5H	
S.R.Satone	Basics of Civil Engineering	https://www.kdkce .edu.in/Departments /InternalPage.aspx? Antispam5PCxyvF8deD ContentID481MyAntis pamw38pMZUic5H	02/01/2018
Prof. P. Zode	Control Systems Engineering	https://www.kdkce .edu.in/Departments /InternalPage.aspx? Antispamctsz7Muoddf ContentID493MyAntis pammngQMiaQB13	04/05/2018
<a href="#">View File</a>			

#### 4.3 – IT Infrastructure

##### 4.3.1 – Technology Upgradation (overall)

Type	Total Co mputers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departme nts	Available Bandwid th (MBPS/ GBPS)	Others
Existin g	793	22	500	20	3	40	753	100	20
Added	10	0	0	0	0	0	10	0	60
<b>Total</b>	<b>803</b>	<b>22</b>	<b>500</b>	<b>20</b>	<b>3</b>	<b>40</b>	<b>763</b>	<b>100</b>	<b>80</b>

##### 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
Data Center	<a href="http://103.83.136.202/KDK-DATACENTER/2.1)%20E-content%20development%20facilities%20Media%20centre,%20Recording%20facility,%20Lecture%20Capturing%20System(LCS)/">http://103.83.136.202/KDK-DATACENTER/2.1)%20E-content%20development%20facilities%20Media%20centre,%20Recording%20facility,%20Lecture%20Capturing%20System(LCS)/</a>

#### 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
67.74	42.04	90.72	114.66

##### 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 Physical Facility:**

- Renovation of older blocks and modernization of laboratories have been done to meet the ever changing academic requirements.
- Annual maintenance of existing equipment in laboratories is carried out by the concerned department.
- The Electrical, Civil work and Computer maintenance are supervised by Electrical, Civil and Computer department respectively.
- Each department lodges a complaint about the electrical maintenance work and give their requirement of electrical appliances to the in charge
- The civil renovation work and maintenance work of entire college is supervised by civil department.
- Internet connectivity, CCTV security system and network connectivity is maintained by network administration team
- External agencies appointed for-
  - o Maintenance and repair of infrastructure, equipments and other support facilities
  - o Cleaning of campus, laboratories, library, sports complex ,computers, classrooms and other Physical infrastructure
  - o Maintenance of garden, landscapes, beautification of the college campus.
  - o Maintenance of computers within the college. AMC staff from the service provider company maintains the computers and peripherals.
  - o Round the clock security on the college campus

**Utilization of Physical facility:**

- Each department gives prior application to the in charge to book auditorium.
- Concern In charge of Auditorium will forward the application to the Principal to get the permission for the same.
- If free permission will be granted and auditorium will be allotted to concern department.
- To book the seminar hall also it is mandatory to take the permission from respective Head.
- Movable projectors also issued to the concern with prior permission.

<https://www.kdkce.edu.in/InternalPage.aspx?Antispam=IP06qSESqUI&ContentID=360&MyAntispam=w9UnNm5nEut>

## 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	Bhausahab Mulak Scholarship	176	2713523
Financial Support from Other Sources			
a) National	Government Scholarship Schemes like SC (Social Justice Special Assistance Department), OBC (Welfare Department), SBC (Welfare Department), NT (Welfare Department) ST etc and Kiran Girls Scholarship, Sima Khatib Scholarship	2406	127761146
b) International	Nil	Nil	0
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#### 5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial

coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Guest lecture on Asymmetric Key Cryptography: mathematical Aspects by Dr. Meera Dhabu, VNIT , Nagpur	12/09/2017	68	VNIT, Nagpur
Guest lecture on "recent trends Advances in Computer Networking" delivered by Dr. Deepti Shrimankar, Asst. Prof., VNIT, Nagpur.	19/03/2018	58	VNIT, Nagpur
Guest lecture on "Deep Learning" by Prof. Shantanu A. Lohi, Asst. Prof. , Department of Computer science Engg., GCOE, Amravati	16/03/2018	81	GCOE, Amravati
STTP on "Data science using Python and R"	08/02/2018	19	KDKCE, Nagpur
Two Week Technical Bootcamp with DOT NET Hands On Experience	24/08/2017	27	KDKCE, Nagpur
Six day Workshop on "Web Technology"	02/02/2018	16	KDKCE, Nagpur
One day seminar on 'GD, PI, and Personality development'	23/12/2017	37	Ankhub Technology, Nagpur.
Guest Lecture on Interview Skills	08/09/2017	100	S. R. K. Institute for Excellence, Nagpur
Soft Skill Training	23/01/2018	83	Barclay's
Introduction of software used in Automotive Industry	19/01/2018	62	Rohit Dhoot, Director, Educadd Pvt. Ltd.
<a href="#">View File</a>			

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
2017	Aptitude skill development program	Nil	127	Nil	30
2018	Barclays - Employability Enhancement Program	Nil	400	Nil	198
2017	Training on Aptitude Development	Nil	169	Nil	62
2018	Expert talk on "opportunities in CIVIL Services for Engineering Students" by Shri. Sachin Kurve, IAS, Collector of Nagpur	Nil	120	Nil	8
2017	Seminar on "HR Career Guidance" by SPIRIT Technologies, Mr. Abhijit Dehadrai on 14.09.2017	Nil	83	Nil	7
2018	Guest Lecture on Preparation of Competitive Examination by Lohit Kumar Yadav, IES 1st Ranker by GATE Forum on 21st Feb.-18	50	Nil	Nil	8
2017	Entrepreneurship Awareness Camp by MITCON	Nil	75	Nil	9



2017	Awareness of GATE-2018 by Dr. P.P. BEDEKAR, Professor EE Department, Govt. College of Engg. Chandrapur.	110	Nil	Nil	5
2017	Job opportunities in Electrical Engineering" by Mr. Ajay Ghire	Nil	125	Nil	15
2017	Program on interview Techniques CRT by GATE Forum, Nagpur	75	Nil	Nil	53
<a href="#">View File</a>					

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
8	8	4

## 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
Dhoot Transmission Ltd, Triveni Turbines, Epic Research Pvt. Ltd., HCL, BACS Hitech Engg, SGS Pvt. Ltd., UCN Networks, Impact IT Lab, Smart Data Enterprises (I) Ltd. etc	422	390	Tata Conneqt	6	2

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

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2018	2	Bachelor of Engineering	Civil Engineering	National Institute of Construction Management and Research (NICMAR ), Pune center	M.Tech
2018	1	Bachelor of Engineering	Civil Engineering	Shri Ramdeobaba College of Engineering and Management	M.Tech
2018	3	Bachelor of Engineering	Civil Engineering	K.D.K. College of Engineering	M.Tech
2018	1	Bachelor of Engineering	Civil Engineering	Yeshwantrao Chavan College of Engineering, Nagpur	M.Tech
2018	2	Bachelor of Engineering	Computer Technology	C-DAC Noida	PG Diploma
2018	1	Bachelor of Engineering	Computer Technology	Priyadarshini Bhagwati Chaturvedi College of Engg. Nagpur	M.Tech
2018	1	Bachelor of Engineering	Computer Technology	G.H Rasoni College of Engg. Digdoh Hills, Nagpur	M.Tech
2018	2	Bachelor of Engineering	Mechanical Engineering	RTM Nagpur University Department of Robotics & Cloud Technology	P. G. Diploma in Industrial Robot
2018	1	Bachelor of Engineering	Mechanical Engineering	Mahatma Gandhi Mission's Institute of Management, Aurangabad	MBA

2018	1	Bachelor of Engineering	Information Technology	Tirpude College of Management & Research	MBA
<a href="#">View File</a>					

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
GATE	7
CAT	2
Any Other	3
<a href="#">View File</a>	

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

Activity	Level	Number of Participants
Chess tournament	Intercollegiate	26
K.D.K. Premier League (Cricket)	Intercollegiate	300
Tug of War	Intercollegiate	84
Carom	Institute level	62
Marathon	Institute level	95
Basket Ball	Institute level	60
Mix Cricket	Institute level	60
Arm Wrestling	Institute level	24
Volley Ball	Institute level	50
Debate	Institute level	42
<a href="#">View File</a>		

### 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
2017	RTMNU Re presented	Internat ional	1	Nill	15EX013	Shivani Hiware Etrx 3rd Yr
2017	RTMNU Re presented	National	1	Nill	46268212 4762/2016 MBA 006	Karishma Shendre MBA 2nd Yr Karishma Shendre MBA 2nd Yr
2017	RTMNU Re presented	National	1	Nill	99907834 8106/15CE 016	Ukkarsha Lende Civil 3rd

						Yr
2017	RTMNU Re presented	National	1	Nil	99907834 8106/15CE 016	Ukkarsha Lende Civil 3rd Yr
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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)

Every year RTMNU Conducts Election for the Students Council. As per the direction No. 39 of 2017 Election are conducted in KDK College of Engineering. There are 26 Members in Student Council. Principal is Chairman and Two Staff are the members of Student Council. 23 Students are nominated having the representation from NSS, Sports, First year and all the branches. All those members Elects one Secretary and President of Student Council. The Secretary represents KDK College on student's council of RTMNU to solve the problems of students. In 2017-2018 Mr. Akshay Hiwase is Elected as Secretary and Mr. Sanjay Kale is Elected as President of Students Council. Every department is also having a separate student association like EESA, MESA, CESA, FACEIT, ISF. The post of President, Secretary, Treasurer, PRO, Event Incharges , Publicity incharge etc, are elected from Students. Every year college organises Navonmesh (Annual Social Gathering) and SPARK, A National level paper presentation competition, For this yearly event a separate Students committee comprises students from all departments is formed to organise the event. College and department is having CDC, DAB and PAQIC body which is also having the representation of students. Roles of Student Council and Students Association:

1. To officially represents all the students in college. 2. To identify and help to solve problems encountered by students in college. 3. To communicate its opinion to the college administration on any subjects concerning to the students on which council wishes to be consulted. 4. To promote and encourage the involvement of students in organizing curricular, co-curricular Extra Curricular and Extension activities. Responsibilities of Student Council and Students Association: 1. To promote the interests of students among the college administration and staff. 2. To inform students about any subject of concern. 3. To consult students on any issue of importance. 4. To organise financial campaigns for students activities and charitable activities. 5. To organise educational and recreational activities for students. 6. To propose activities to college administration that would improve the quality of life in the college. 7. To maintain good relation, out of mutual respect with college staff.

#### 5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

An Alumni association is formed by the TP department and continuous interaction is done with pass out students for their better placements and also for the benefit of students presently studying in the college. The KDKCE Alumni Association is registered under Charity Commissioner and the Registration No. is Nagpur/ 0000236/2018. Principal of KDKCE is the President of the Alumni association. Vice Principal, Dean, Alumni Incharge, One faculty and two Alumni are the office bearers of the Alumni Association. The TP department has helped many pass out students in obtaining jobs either by organizing campus interviews or by sending the students to companies where vacancies exit. The department has organized campus interviews of various companies for the Alumnis. The department had even tried to place the Alumnis in various foreign countries. The department conduct meeting with their alumni for feedback which is very

helpful in deciding CO, PO and PEO for the courses. This feedback will also help to recommend certain changes in the syllabus of RTM Nagpur university. This feedback will also help to conduct certain bridge courses to meet the industry demand which is not included in the RTMNU Syllabus. Some of the alumni also conduct guest lecture in the college to guide the current batch. The department had also helped the Alumnus by providing information and guidance about higher studies in the country and abroad in getting apprentice training in local and regional companies etc. the Alumni cell praised their contribution towards the growth of their Alma matter and emphasized the need for further strengthening the linkage between the alumni and current students of KDKCE. The Alumni contact the Alumni Association and college office for collecting their degree certificate, recommendation letter for higher studies in foreign university, and collect transcript of their course. All pass out students can register their name on line in the website [www.kdkce.org](http://www.kdkce.org) in Alumni association. The current batches register their name for Alumni Association online before taking transfer certificate from college. Presently the alumni cell has a revised database of about 3652 Alumni with their latest occupation and addresses and an alumni directory has been prepared which contains all the relevant information about the Alumni. Every year (Preferably in the last week of January on Founder days of college) minimum one alumni meet is organized at KDKCE campus. This year on 27 Jan 2018 Alumni meet is organised and around 100 Alumni participated in this Alumni meet. This alumni meet give the platform to students and alumni to interact with each other. Some of the Final year Projects are also guided and even sponsored by our alumnus for present final year batches of colleges.

5.4.2 – No. of enrolled Alumni:

3379

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

24000

5.4.4 – Meetings/activities organized by Alumni Association :

1

## **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)

Practice - I: Navonmesh - Annual Social Cultural Meet 1) Objective • Inculcate cultural values and nuances • Increase the competency and confidence level • Create awareness on professional/societal issues • Developing their performance skill, stage daring, communication, team work, and leadership qualities 2) The Practice "Navonmesh" is an Annual Social Cultural Meet of the college, boasts sports and cultural bonanza, where the entire student displays their talent in a weeklong meet. Navonmesh has become one of the reasons for greater cordial bonding between the staff and students. Each year, management and administrative authority bestows with the responsibility on a convener to organize this meet comprising many events. Event in-charge, in turn, forms the committee of faculties and students are also involved and share the responsibility of conduction of the event. Administrative authority delegates the powers to the convener, faculties to conduct the event with all support, guidance in decision making during the organization of entire meet. 3) Evidence of success More than 2000 students participate and encourage their fellow-students in various categories of the event. The staff joins the celebration by participating in many events. All the events are evaluated through its

performances and best performances awarded with 1st/2nd and consolation prizes. The students and faculty with zeal and fervor enjoy the entire event. Practice - II: Organization of International Conference In year 2017-18, the department of Civil Engineering organized two international conferences and Electrical Engineering organized one conference. The conferences organized were: Department of Civil Engineering International Conference on Emerging Trends in Structural Engineering International Conference on Innovative Realms in Civil Engineering Electrical Engineering International Conference Advances and Practices in Electrical Engineering Department of Basic Science Humanities International Conference on Multi-dimensional Role of Basic Science in Advanced Technology

1) The Objective The objective of organizing international conferences is to provide the platform to the scientist, researchers, faculties and students to publish their articles and to interact with luminaries. 2) The Practice The organization of international conference is truly an example of decentralization and participative management. It involves the management administrative authority as its patrons advisors. It involves all Heads of Department to play their role in organization of the conference. Faculty members are also given the responsibilities and specific task to complete in the successful organization of the event. Students are also provided an opportunity to work with the organizing team and to interact with experts delegates. 3) Evidence of Success The organization of international conferences has witnessed great success in terms of the presence of the invited experts from India and abroad, participation of delegates, number of paper presented and published. The details given below are an indicative of its success: 1 International Conference On Emerging Trends in Structural Engineering: Papers received 109 2 International Conference on Innovative Realms in Civil Engineering: Papers received 72

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

Yes

## 6.2 – Strategy Development and Deployment

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

Strategy Type	Details
Curriculum Development	The college is affiliated to the RTM Nagpur University and runs the academics as per the curriculum developed by the university. However, whenever the university takes-up curriculum revision, the college organizes curriculum development workshops for the university and contributes towards its enrichment. Faculty members also attends the workshop organized at other venues and recommends the necessary changes required in the curriculum of the respective courses. Faculty also, as per the gap identified, suggests board of studies of the university to incorporate necessary content in curriculum.
Teaching and Learning	The college is being practicing strategies of quality deliverance. To add into it, the college have adopted subject activities MCQ in exams.

Resource Learning has been introduced wherein learning through NPTEL videos and projects is been started. College has developed a project lab in each department. More number of projects is linked with industry participation. To keep updated with the industrial requirements, each department have included industrial experts in respective Departmental Advisory Boards. ICT enables classrooms, Professional societies clubs, Student Activity Centres, etc are the initiatives taken. Feedback mechanism is adopted to know the quality of learning.

Examination and Evaluation

Examinations are conducted as per the guidelines of the university. However, the college have introduced multiple choice question exam and subject activities to prepare them for the prevailing competitive examinations. Evaluations for each examination is done and communicated to the students to attain their grievances. Rubrics are adopted to evaluate project work and practical work. Course outcomes are assessed and the attainment of the programme outcomes and programme specific outcomes are computed to understand in which subject the students need to supplement the knowledge. Feedbacks are taken to evaluate the effectiveness of the content delivery.

Research and Development

The college is already running Ph. D. Centres in Civil and Mechanical Engineering, facilitating faculties to undertake research work. Two research scholars in Civil Engineering have submitted their thesis to the university. In Mechanical Engineering, total Eight research scholars have submitted thesis and one has been awarded the degree as well. During the year 2017-18, one research scholar under Dr. A V Vanalkar, Associate Professor, MED, has been awarded the doctorate degree. Dr. Valsson Varghese, Dr. C C Handa, Dr. G H Agrawal, Dr. S K Choudhary have been invited as an expert in reviewing the research work at various research center. International conferences being organized to provide platform to publish the research work. Besides existing Grant-in-aid projects, more



number of projects was applied under AQIS schemes. College is encouraged and sponsored faculties to attend STTP/Conferences/Workshops, etc for knowledge up-gradation. College is partnering with other organization to organize the technical events. MoUs signed for knowledge exchange. Many experts of research organizations were invited for expert talks. Faculties were encouraged to file patent copyrights. Accordingly, 02 copyrights have been filed.

Library, ICT and Physical Infrastructure / Instrumentation

The college has made the central library effective by creating facilities of National Digital Library, e-books, e-content of the library course material for the students, besides the regular reading. ICT enabled classrooms are developed by installing LCD projectors. Media centre with recording facilities is created for recording and uploading videos of expert lectures. Student Activity Centres are developed to enhance the creativity of the students. Project labs are developed to develop constructive thinking. Open activity lounge is developed for activities to undertake. CCTV, Fire fighting system installed for safety and security. Newsletters are published for disseminating the information. NPTEL video viewing facilities are provided at the computing centre of the department.

Human Resource Management

The management of the college provides adequate human resource as per the guidelines of the statutory bodies university. Administration and academics are carried out as per the organizational hierarchy of the institute. Roles and responsibilities of each post are defined and performance is evaluated through appraisal system. Code of conduct is enforced at each level of hierarchy. Portfolios are allocated to a person to carry-out specific task. Committees are constituted as per the guidelines for the intended purpose. Promotions and incentives are given for better productivity

Industry Interaction / Collaboration

The college has taken many initiatives for improving industry - institute interaction. More students are provided an opportunity to undergo



industrial training. More industrial visit are undertaken. College has signed MoU for knowledge exchange program. College is partnering with industrial organization for organizing technical events. More number of industrial experts is invited to the institute for sharing their knowledge. Industry experts are incorporated in the advisory boards to garner their expertise. Industrial tours are organized to give industrial exposure to the student. Incubation centre is initiated to create entrepreneurs. Trainings are imparted to the students to become entrepreneurs.

**Admission of Students**

Admission to engineering programmes is in decline stage. However, the college is doing good in the admission. College is having full-fledged career guidance and counselling cell, which holds seminar in and around the urban are to make aware of the opportunities and career available in the engineering education guide students and parents. College provides financial aid to the economically weaker students to encourage them to study engineering. College organizes programs for secondary and higher secondary students to display their talent in project making, thereby, encouraging them about engineering.

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

E-governance area	Details
<p><b>Administration</b></p>	<p>The College makes continuous efforts to go paperless in all its administrative and official works. All online and computerized functioning is done to practice transparency while sharing information within the college, faculties and departments. Online notices are uploaded on website, Invitation of the programs given through whatsapp and email. Implementing the digital system in Library for more user friendly. The college and departmental academic calendar is available on college web site. Students and the entire stakeholder can browse the website to get the ongoing and proposed activities.</p>
<p><b>Finance and Accounts</b></p>	<p>College has adopted ERP system to carryout financial activities. 1. Online Fee Collection 2. Receipt of</p>

admission fees is completely online 3. Salary of faculty members and staff is transferred directly to the bank account 4. Online deposition of PF 5. Online deposition of TDS, 6. Leave record of the staff, etc.

Planning and Development

Academic session is planned through academic calendar, which consist detail about the re-opening, internal examination, university examination, college activities, annual function, etc and is made available on college website for the reference. Students are informed about the dates of new session commencement and registration for the session through emails. All the students' data are kept ready in the ERP System well in the advance of the start of the session. Fees are deposited in bank through bank challan, which is obtained, from ERP and issues at the time of registration. College maintains its website [www.kdkce.edu.in](http://www.kdkce.edu.in) regularly for uploading and disseminating the information to all its stakeholders.

Student Admission and Support

The College admission cell is equipped fully with the computer system to do online admissions of the new students as per the guidelines of the DTE University. Online counseling is scheduled based on the merit list of candidates. Existing students registering for higher classes are done through ERP by way of issuing bank challan, fee deposition, etc. Online system is available for filling up of scholarship and other welfare scheme forms. Entire campus is Wi-Fi through which students can access internet to for browsing the academic contents. Many software are available in the lab for project work and learn the courses. NPTEL Chapter encourage students to learn various online courses. E-mail ids and contact details of all members of Internal Complaints Committee, Anti Ragging Committee and Anti Ragging Squad have been uploaded on the college website and students can communicate to the members through e-mail

Examination

University Examination question papers are received online which is printed and then distributed to the students. Evaluation of answer scripts is conducted online, the results are tabulated and the results are declared

online. The moderation, scrutiny, of papers are done online. Internal examinations are conducted and result of the same is conveyed to the students through email.

### 6.3 – Faculty Empowerment Strategies

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

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2018	Roshan Kolte	Nptel Online Certification exam for Database Management System (8 week Course) (Feb-March 2018)	KDKCE	500
2018	Dr.R.A.Burange	ISTE approved One week STTP on Low Power VLSI Techniques for Embedded Systems (LPVTES-18)at Yashwant Chavan College of Engineering, Nagpur(15/01/2018 -20/01/2018)	KDKCE	2000
2018	Dr.P.D.Khandait	ISTE approved One week STTP on Low Power VLSI Techniques for Embedded Systems (LPVTES-18)at Yashwant Chavan College of Engineering, Nagpur(15/01/2018 -20/01/2018)	KDKCE	2000
2018	C. S. Hiwarkar	International Conference on Advances Practices in Electrical Engineering (ICAPE-2018)	KDKCE/IFERP	2500
2018	Dr. D.M.Holey	International Conference on Advances	KDKCE/IFERP	2500

		Practices in Electrical Engineering (ICAPE-2018)		
2017	D S Padole	National Conference on advances in Surveying Mapping geospecial Technologies	ACCE, Nagpur	2000
2017	D B Awachat	National Conference on advances in Surveying Mapping geospecial Technologies	ACCE, Nagpur	2000
2017	Dr.V Varghese	International Conference on INNOVATION S in Concrete (ICI-IWC-2018)	NIMHANS Convention Centre, Bangalore	4616
2017	S R Satone	International Conference on INNOVATION S in Concrete (ICI-IWC-2018)	NIMHANS Convention Centre, Bangalore	4616
2017	Dr. A M Badar	International Conference on INNOVATION S in Concrete (ICI-IWC-2018)	NIMHANS Convention Centre, Bangalore	4617
<a href="#">View File</a>				

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

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2017	Faculty Development Program on Entrepreneurship	Nil	27/11/2017	09/12/2017	20	Nil
2017	FDP on Microsoft Project	Nil	06/06/2017	08/06/2017	17	Nil
2017	Faculty Site visit	Nil	07/10/2017	07/10/2017	12	Nil

	at Ukwa Mines					
2018	Two week workshop on Professional development/ administrative program	Two week workshop on Professional development/ administrative program	12/06/2018	21/06/2018	39	9
2017	Industrial Tour to Solar Power Plant, Rajasthan	Nil	17/12/2017	22/12/2017	3	Nil
2018	Industrial visit at Lokmat Group of News Papers, Industrial Area, Buttibori, Nagpur	Nil	16/03/2018	16/03/2018	2	Nil
2017	Industrial visit at Doddabetta Tea Factory, and Tea Museum, Ud hagamandal am, Coonoor	Nil	20/12/2017	20/12/2017	3	Nil
2018	Industrial visit at J .P.Electrical and J. P.Institute of technology, Hingana Nagpur.	Nil	23/03/2018	24/03/2018	2	Nil
2017	Foundation course on human values and professional ethics	Nil	18/12/2017	22/12/2017	65	Nil

2017	Faculty development program on research methodology	Nil	13/11/2017	18/12/2017	22	Nil
<a href="#">View File</a>						

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
Faculty development program on Entrepreneurship.	5	27/11/2017	09/12/2017	13
FDP on Bhujal manthan -3.	1	16/02/2018	17/02/2018	2
FDP on Research Methodology.	26	13/11/2017	18/11/2017	6
STTP:-Under ISTE Faculty Chapter DBACER STTP on Cloud Computing Mobility and Big Data Analysis organized by Department of Computer Science and Engineering, Dr.Babasaheb Ambedkar College of Engineering Research, Nagpur.	2	05/02/2018	10/02/2018	6
STTP on High performance Computing Using parallel Distributed Cloud Computing	1	18/12/2017	23/12/2018	6
Professional Development / Administrative training Program	8	12/06/2018	26/06/2018	15
One day	1	24/12/2017	24/12/2017	1

workshop on Intellectual Property Rights				
Two Week Professional Development / Administrative Training Programme By KDKCE, Nagpur	10	12/06/2018	28/06/2018	17
Faculty Development Program on Building Information Modelling (BIM)	21	12/12/2017	19/12/2017	8
Faculty Development Program on REVIT Structure	21	03/12/2017	11/12/2017	9
<a href="#">View File</a>				

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
Nil	70	Nil	78

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
EPF, Gratuity, Medical facilities, Group insurance, Maternity leave, Fee Concession to the Wards of the faculty members, Publication incentives, Awards, Sponsorship, etc.	EPF, Gratuity, Medical facilities, Group insurance, Maternity leave, Awards, etc.	Medical facilities, Group insurance, Awards, Fee Concession, Travel insurance on study tour, Book-bank scheme, Financial Assistance to the EW students and/or instalment facility, etc.

**6.4 – Financial Management and Resource Mobilization**

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

College prepares the annual budget of each department and financial allocation is done for the recurring and non-recurring items. Our office accounts department conducts the internal audit of the expenditure, which is then audited Chartered Accountant. An external auditor is appointed by the college, which performs an audit of the financial statements of the college. The financial records of the College are audited after the end of each fiscal year and are certified. The last audit was done for the financial year 2017-18. There were no objections taken by the auditor.

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose

Management, KDKCE	338009	Membership, project work and organizing event
<a href="#">View File</a>		

6.4.3 – Total corpus fund generated

22856671
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### 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	Member, Departmental Advisory Board	Yes	Nominated senior faculty
Administrative	Yes	Member, Departmental Advisory Board	Yes	Nominated senior faculty

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

All the Departments conduct a meet for the interaction with the parents of the admitted students. Academic performance and overall progress of their ward is discussed in the meet. The parents are given the details of academic learning facilities available in the institute and urge them to ask their ward to utilize the same for the academic building. Parents are also asked to render feedback for further improvement. Following activities are carried out keeping the parents in contact: • Parent – Teacher Meet • Feedback • Induction Program (every odd semester) • Letters sent to the parent about progress of their ward

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

Different Development programmes are organised by the college for the support staff such as: 1. Administrative training program 2. Computer Awareness Program 3. Medical check-up camp 4. Regular meeting for the necessary instruction/guidance regarding lab work, administrative work, etc.

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

Following post-accreditation initiatives are taken: 1. Organization of National and International Conferences 2. Organization of FDP/ADP for the teaching and non-teaching faculty 3. Organization of Seminar, Workshop and Expert lectures for the students at regular intervals 4. More efforts towards campus recruitment training and placement of final year Students 5. Organization of Students Development Program 6. Undertake extension activities 7. Facilitating Summer Internship for the student 8. Arranging Continuing Education Programs for the students 9. Applying for Accreditation from NBA for Information Technology Programme

6.5.5 – Internal Quality Assurance System Details

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

6.5.6 – Number of Quality Initiatives undertaken during the year



Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2017	Software training Course on AutoCAD	31/07/2017	31/07/2017	08/09/2017	44
2017	Software Training Course on REVIT	31/07/2017	31/07/2017	08/09/2017	27
2017	Software Training Course on STAAD Pro	31/07/2017	31/07/2017	08/09/2017	11
2018	International Conference on Innovative Realms in Civil Engineering(IRICE-2018)	24/01/2018	24/01/2018	25/01/2018	400
2018	XIV National Conference on Emerging Technology Trends in Engineering (SPARK-2018)	16/03/2018	16/03/2018	16/03/2018	459
2018	International Conference on Advances Practices in Electrical Engineering (ICAPE-2018)	08/03/2018	08/03/2018	09/03/2018	350
2018	Guest Lecture on "Phasors their Application" by Dr. V. B. Borghate Professor Department of Electrical Engineering VNIT Nagpur	13/03/2018	13/03/2018	13/03/2018	125
2018	Expert lecture on	15/02/2018	15/02/2018	15/02/2018	119

	Importance of LED light by Dr.S.J.Dhobale(Dept. of Physics, RTMNU)				
2018	Jaipur Street Karting Cup (Auto Club)	15/03/2018	15/03/2018	17/03/2018	7
2017	Department of Information and Computer Technology recently organized Seminar on IOT by Dr. Robbin Singh Bhadoria ,IIIT, Nagpur	10/08/2017	10/08/2017	10/08/2017	81

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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
MARDANI - Women's Day Celebration, MBA. Eminent Women from varied fields are felicitated and interviewed so that their struggle to achieve success motivates the boys and girls. This initiates Gender Equity.	09/03/2018	09/03/2018	98	53
Entrepreneurs hip Awareness Camp for Girls & Boys	14/09/2017	16/09/2017	9	66
ROBOCON NATIONAL 2018-NATIONAL	01/03/2018	03/03/2018	5	10

ROBOTIC CONTEST, MIT Academy of Engineering, Pune				
BAJA SAEINDIA 2018 :- Virtual Presentation and Vehical Building Competition by Mahindra Group, at Chitkara University, Punjab	14/07/2017	15/07/2017	6	19
YOGA DAY :- Yoga for boys and girls	15/09/2017	15/09/2017	69	49
GENDER EQUITY PROMOTION during induction program for first year students. First Year B.E.	12/07/2017	17/07/2017	186	314
One day Workshop on "Social Awareness About Electrical Safety"	14/06/2017	14/06/2017	58	89
WOMEN SAFETY PROGRAM, NSS & WDC. Safety techniques were taught to girls , for self defense .	28/03/2018	28/03/2018	154	22
NATIONAL YOUTH DAY, NSS. Youth program necessarily promotes Gender Equity in youth (boys & girls). It teaches them to take responsibilities and help the ones who needs the most.	12/01/2018	12/01/2018	185	36
CERVICAL CANCER AWARENESS	22/01/2018	22/01/2018	185	Nil

PROGRAM, WDC.  
The program gave an insight into the Cancer awareness & the prevention methods specifically, Cervical Cancer in women.

CANCER AWARENESS PROGRAMME, MBA.  
The program aimed at creating awareness about Breast Cancer and its prevention.

INDUCTION PROGRAM MBA to promote Gender Equity

FRESHER'S DAY, FIRST YEAR B.E. The program aims at Promotion of Gender Equity among new entrants.

SPORTS FOR BOYS & GIRLS.  
The various indoor and outdoor sports activities, that include Mixed Cricket, see participation from boys and girls, thus promoting Gender Equity.

SPARK 18-National level technical paper presentation competition for Girls & Boys. This gives an equal opportunity to

09/09/2017

09/09/2017

45

27

05/08/2017

21/08/2017

46

29

23/09/2017

23/09/2017

354

226

25/01/2018

30/01/2018

328

228

16/03/2018

16/03/2018

356

103

boys and girls to present their skills, thus promoting Gender Equity.				
NAVONMESH - 18-Annual Social Gathering. All the Cultural, curricular and co-curricular activities conducted, witness enthusiastic participation of boys and girls, presenting their hidden talents & shredding their fear and inhibitions.	29/01/2018	31/01/2018	1126	786
GARBA NIGHT, by Civil Deptt., for boys and girls. The event gives opportunity to Girls and boys to participate and promote Indian Culture along with Gender Equity.	28/09/2017	28/09/2017	586	476

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

• 97.04 through Solar Power • 65 Saved through LED Bulbs ? Solar photovoltaic cells with grid system, for 151 KW. ? Rain Water Harvesting to save 19 lakh liters of rain water under 73,450 square feet roof top. ? Bio-Gas Plant for Solid Waste Management (Kitchen Waste) ? A-forestation of the campus to increase Carbon Storage Capacity and improve the air quality ? Renewable Energy Lab-Having an installed capacity of 1KW Solar Roof Top. ? e-Waste Management through reuse of e-accessories ? Solid waste management through NMC "Kanak Resources" ? Projects on Environmental Management, Flood Management, River Management, etc ? Waste paper disposal by selling the news papers and other paper waste to vendors. ? Use of plastic is being limited in the college. ? Use of renewable energy and energy efficient devices to meet the power requirement of the college. Besides this, College organized the following programs for environmental consciousness and sustainability Date Program Details 22.3.2018 Visit to Lokmat Group of News Papers, MIDC, Butibori, Nagpur, ETRX Deptt. To understand Pollution Control strategy of the industry 16.3.2018 A Clean And Green India: A poster Making Competition by Electrical Deptt. To Promote Environmental consciousness Cleanliness among students 14.3.2018 Pledge for

water Conservation, NSS Major part of the Maharashtra state, suffer from draught. So, it was necessary to spread awareness among the citizens about the importance of water conservation. In this event, students from all branches participated and took a pledge for water conservation and also helped in spreading awareness among the people in nearby localities. 13.3.2018 Awareness program on Climate change, NSS The program included discussion and exploration of problems faced by people due to climate change. In this event, students from all branches actively participated. Poster making competition was also organized on climate change. 7.3.2018 Invited Talk On :Energy Generation using Ocean Waves" Electrical Deptt. To Spread awareness about Alternate Energy sources, specifically, Ocean Waves, and their utilization. 15.2.2018 -16.2.2018 Site visit to Bhandewadi sewage treatment plant, Civil Deptt. Students could learn about project management practice related to health, safety environmental issues. 22.01.2018 Expert lecture on Sustainable low cost housing method, Civil Deptt. To make the students aware about the benefits of low cost housing, environment friendly structures, sustainable cost effective structures sustainable materials etc 15.01.2018 Bio Gas Plant for the Girls hostel The biogas plant (about 1000 litres), was installed for the waste collected from the kitchen of the girls hostel to significantly curb the greenhouse effect. The plant lowers the methane emissions by capturing this harmful gas and using it as fuel etc and few other Environmental Consciousness and Sustainability/Alternate Energy initiatives are taken.

#### 7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	2
Provision for lift	Yes	2
Ramp/Rails	Yes	1
Braille Software/facilities	No	Nil
Rest Rooms	Yes	3
Scribes for examination	Yes	2
Special skill development for differently abled students	Yes	2

#### 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
2017	1	1	14/09/2017	03	Entrepreneurship Awareness Camp, Mech. Deptt.	Guidance about General Concept of Entrepreneurship, How to	55

						start an SSI unit, Factory Visit, Create awareness about entrepreneurship and help students for the same	
2017	1	1	28/08/2018	01	Campus drive for CT IT students by Dela Stream Solutions, pvt. Ltd., Nagpur, Mr. Nitin Sachdeva : Director and Founder of the company. Mr. Shakti Lamba : Project Manager. Mr. Sagar Pawar : Sr. Software Engineer etc	Placement of students	50
2017	1	1	23/08/2018	01	Seminar on employability Introduction, by Er. Ajai Girhe, Ex Director, Operations, Yuva Parivartan ,, CT IT Deptt. As the college	Make the students aware about the employability options available	58

					is centrally located, it easy for the expert to reach.		
2017	1	1	23/08/2018	01	Seminar on soft skills and interview techniques, by Sandeep Pillewar Nuzrat Reyazuddin, Smart skill tech., pvt. Ltd., Nagpur, CT IT Deptt. As the college is centrally located, it easy for the e to reach.	Teach the students the necessary soft skills and interview techniques	84
2018	1	1	20/03/2018	01	Expert lecture on " Opportunities in civil services for Engineering students", by Shri. Sachin Kurve, IAS, Collector, Nagpur, CT Deptt. As the college is centrally located, it is easy to	Awareness about opportunities in Civil Services and steps towards the approach.	152



					reach.		
2018	1	1	07/03/2018	01	Seed IT Idol Exam. 2018, conducted by SEED INFOTECH. CT Deptt.	Awareness examination about Information Technology.	40
2018	1	1	05/02/2018	06	CRT Workshop MBA	To motivate, teach, train make the students ready to face interview.	40
2018	1	1	08/02/2018	01	"Sponsored Project Trainee" as a project placement drive conducted by IT-Networkz Infosystems Pvt. Ltd. for CT, IT ETRX third year students. Total 8 candidates were selected from CT IT department for live project training. CT IT Deptt.	Project placement drive	40
2018	1	1	07/02/2018	01	One Day Workshop on "Technology Innovation Entrepreneurship"	Awareness about Entrepreneurship through innovative	52

					by Javed Mohammed, Business Development Manager. CT Deptt. As the college is centrally located, it easy to reach.	technology	
2017	1	1	23/12/2017	01	Seminar on 'GD, PI, and Personality development' for 3 rd yr students By Pushpendu P. Rakshit, Asst.Prof . ITM Business School, Mumbai, CT IT Deptt. As the college is centrally located, it easy to reach.	Training for GD, PI Personality Development	37
<a href="#">View File</a>							

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

Title	Date of publication	Follow up(max 100 words)
Code of Conduct Manual for students	30/05/2018	Manual for Students: College has a code for students to be strictly followed in the campus and during industrial tours and trips, when they need to submit an undertaking related to the tour/ trip. Students and their parents need to submit an anti-ragging undertaking stating that the student would not be involved in any such

		<p>activity in the campus during his tenure as a student in the college. Students need to follow the rules and regulations set up by the authorities related to attendance, punctuality, behavior in the campus, behavior towards teachers, elders and girls. Students are instructed to save Electricity, Water and other public resources including furniture fixtures.</p>
Code of Conduct Manual for Governing body	30/05/2018	Manual for Governing Body: College has a code of conduct for governing body to be followed.
Code of Conduct Manual for faculty	30/05/2018	College has code of conduct to be strictly followed by the faculty. This includes behavior towards seniors, colleagues Ladies. The duty of faculty is described and each one has to adhere to the rules and regulations set up. The regularity, punctuality, teaching plan, working towards building the morals ethics and setting a good example for students to follow, is expected from the faculty.
Code of Conduct Manual for senior students	30/05/2018	Ragging Free Campus. Our college campus is totally Ragging Free. No new entrant has ever witnessed it. The seniors, rather mentor the juniors and help them in settling down with the college environment and also with their studies. Students have cordial relations with each other.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Computer Literacy Program for slum	07/05/2018	22/05/2018	39

area people			
Social Awareness Program :The Book Donation Camp to Footpath Shaala	27/01/2018	27/01/2018	25
69 th Republic Day Celebration	26/01/2018	26/01/2018	256
Guest Lecture on "Traffic Awareness and safe living	23/01/2018	23/01/2018	140
Fire and Safety Awareness Program	18/01/2018	18/01/2018	254
Cashless india campaign. Effective methods to face demonetization were taught to the local vendors.	12/01/2018	12/01/2018	69
National Youth Day, Celebrating Birth Anniversary of Swami Vivekanand	12/01/2018	12/01/2018	144
Birth Anniversary of Savitribai Phule.	06/01/2018	06/01/2018	41
Sickle cell testing camp in association with sickle cell association, Nagpur	15/12/2017	16/12/2017	308
9th Agrovision: Central India's Largest Agricultural Summit, showcasing the agro related machines developed by the students of the college for the benefit of the farmers.	10/11/2017	13/11/2017	525
<a href="#">View File</a>			

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

1. A-forestation of the campus :- Tree plantation drives are conducted in the campus throughout the year 2. No plastic use :- The college is making efforts for limiting the use of plastic in the campus. 3. Use of Alternate Energy :- College is using Solar Energy to meet the power requirement 4. Encouragement to use public transport :- Students and staff are encouraged to take up public transport for commutation to and from the college. College also runs buses for staff and students. 5. Rain water Harvesting :- College has taken up roof top rain water harvesting 6. Solid waste management :- Solid waste generated in the campus is taken away by "Kanak Resources", a venture of NMC. 7. Bio Gas Plant

:- The kitchen waste is utilized for conversion into Gaseous Fuel ( Methane), which is utilized in the hostel as cooking gas.

## 7.2 – Best Practices

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

Best Practice - I 1) Title : Making Continuous efforts in enhancing the Personality Quotient (PQ) of the students. Personality Quotient (PQ) refers to the ability to understand oneself and others for effective communication and teamwork. We, at KDKCE, believe that an individual's personality consists of both how much he/she knows and how he/she portrays himself/herself. Therefore, both, technical and professional grooming is evident. Enhancement of PQ an integral part of all the student's activities taken up during each academic year. PQ provides a unique setting for developing valuable leadership skills and capacities in individuals confronting diverse public and private sector challenges. It is said that majority success traits come from personality skill besides technical skill blended with intelligence. Title: - Making Continuous efforts in enhancing the Personality Quotient (PQ) of the students. 2) Objectives :- The objective of developing Personality Quotient is to: • Prepare them on problem solving skills. • Provide symbolic, verbal, and graphical interpretations of statements in a problem description. • Make them able to understand team dynamics effectiveness. • Make them create awareness on Engineering Ethics and Human Values. • Instill Moral and Social Values, Loyalty and also to learn to appreciate the rights of others. • Inculcate analytical thinking process. • Transform the students and make them ready for Campus recruitment. 3) The context : Major percent of our success in life is based on our ability to communicate with and get along with others. Therefore, a meager percent is based on our technical ability. Communication ranks among the top five skills sought out by most employers, and one of the most difficult to find in the average students. Undoubtedly, communication skill is an important aspect of a successful career. To be effective, you need to understand how you communicate what is most important to you. Then learn how others communicate, and how to simply adjust your style to connect more effectively with them. KDKCE conscientiously moved ahead with an effort in developing personality quotient of its stakeholders through numerous activities that provide platform to showcase their talents and make them notice every nuance of varied personality. 4) The Practice In pursuance of transforming the students and making them ready for Campus recruitment, college adapts the strategy of fusion of co-curricular and extra- curricular activities. The program outcomes along with course outcomes are achieved through well-thought activities, which make students to bring-in positive changes and explore the excellence within them. Through the meticulous assessment of the student's attainment of PO CO in each semester, college administration, through the IQAC advisory members, suggests various co-curricular and extra-curricular activities to be undertaken for the students so as to achieve the objective. The college, then based on the nature and extent of the activity, ask the head of departments to plan and act. A coordinator/incharge of the activity is decided in the meeting and modalities are worked out. The event committee invites students to participate. The event is held with its entire objective leading to development of personality quotient. Success of every activity inculcates personality traits in the participating students. Many such activities are conducted every year for the intended purpose. List of activities that were undertaken in recent year are as follows: Debate, Robot war, Robot race, Student's Parliament, Layout planning, Bridge-it, Amplifia, PLC design, Student Development Program, Expert Lecture, EESA (Electrical Engineering Students Association), MESA (Mechanical Engineering Students Association), CESA (Civil Engineering Students Association), FACE-IT (Students Association of CT IT Departments), ISF, ICI activities, Industry visits, Entrepreneurship Development programsetc.

Navonmesh, Annual Sports Meet comprising of indoor and outdoor games, Marathon, activities undertaken by the students' associations, Garbha Fest, Kite festival, Freshers Day, Yoga Day etc. Extension Activity: Environment Awareness and tree plantation drive, donations to Orphanage, Blood donation camps, Organ donation awareness, drug de-addiction campaign, Neki ki Deewar, Avishkar-science Model and poster competition for schools and junior college students, Nirman- Project competition for Polytechnic students, Career counseling, adoption of village, cleanliness drive, energy saving, no plastic use, etc. Research activity: SPARK, International Conference, presentation skill competition, etc. 5) .Evidence of success:- This practice has become the preeminent practice of the institute, imbuing behavioral competency and encouraging students to work in a spirit of unity and camaraderie. The students who enter the engineering education get transformed into competent professionals with improved personality traits. Many students excel in university/state/national level activities and have won accolades. The list is a testimony to the success of the practice. List of event and success (Sample)

6) Problem encountered and resources required: • At the first instance, reluctance of the students to participate in the activity • Societal impact on the thought process of the students making them hesitant at the initial level. • Sense of thrashing in the competition. • University Academic schedule and its precariousness Resources required:Counseling of the students to make them participate. • A team of experts for the assessment process • Motivation encouragement through awards and prizes. 7) Contact Details:- Name of Principal: Dr.D.P.Singh Name of the Institution: KDK College of engineering, Great Nag Road, Nandanvan Nagpur-440009 College Phone: 0712 271 0030 Fax: 0712-2713658 Website: www.kdkce.edu.in Email: kdkce4147@gmail.com Mobile: 094221 15338 Best Practice II

1) Title: - Organization of National Conference and Paper Presentation competition for students - 'SPARK' 2) Objective:- The objectives of organizing SPARK are: • Inculcate analytical review habits. • Make them able to understand symbolic, verbal, and graphical interpretations of statements in a problem description. • Make them able to understand and assimilate research findings and write a technical paper. • Create awareness on professional and social ethics • Develop their presentation skill. • Make them learn the application of modern tools. • Develop in them the leadership quality and communication skill. • Motivate them to take up latest technological advancements in their presentations. 3) The Context:- Engineering is a profoundly creative process and technology is an outcome of engineering. It is important for the students to understand the changes that are taking place in engineering technology throughout the world. The best way to know the development is reviewing the research papers, understanding the application and taking up further for the study. It also includes presenting the findings and its application and discussing the future of engineering through scientific breakthroughs that might occur along the way. To make it happen, the students must be provided suitable platform. We at KDKCE, initiated this process 12 years ago and it has become our USP. 4) The Practice:- This national level conference for students has been conducted in the college since 2005. Every year, any one department is given the responsibility of its conduction on rotation basis. The administration, along with the head of departments, nominate the convener for the seminar and a committee is constituted that comprises of the faculty members from all the departments, to look after various activities of the seminar viz. communication, calling papers in their respective domains, screening, selection, hospitality, inauguration, proceedings, evaluation, awards, valedictory etc. The participation includes students from other states also. The interaction of students with experts, readily brings out the academic values among the students. 5) Evidence of success:- The conduction of the event since 12 years, is a testimony of providing a platform for the students to exhibit their technical talent. With the passage of every year, college is witnessing the participation of more and more numbers. The

participation of the students from other institutes of the region became the encouraging factor. The quality of papers, the deliberations, the discussions on engineering technology advances, etc have the permanent footprints of success. The content of the proceedings can depict the legacy of success of the event and undoubtedly, it has become the best practice of the institute. Year wise list of paper received and presented in the SPARK 6) Problems encountered and resources required:-

- Students lack of knowledge in proper review of the literature and taking out notes.
- Writing statement of the research finding
- Presentation fear.

Resources required:-

- Open access to the available literature
- Guidance, encouragement and motivation for the write-up and presentation.
- Expert panel for verification and scrutiny of papers.
- A complete team under the leadership of convener for successful completion of competition.
- A team of expert judges.
- ICT infrastructure.

7) Contact Details:- Name of Principal: Dr.D.P.Singh Name of the Institution: KDK College of engineering, Great Nag Road, Nandanvan Nagpur-440009 College Phone: 0712 271 0030 Fax: 0712-2713658 Website: [www.kdkce.edu.in](http://www.kdkce.edu.in) Email: [kdkce4147@gmail.com](mailto:kdkce4147@gmail.com) Mobile: 094221 15338

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

[http://www.kdkce.edu.in/pdf/7.2\\_best-practices-2017-18.pdf](http://www.kdkce.edu.in/pdf/7.2_best-practices-2017-18.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

The vision of the Institute is: "Service to the Society through Quality Technical Education". In the process of achieving the vision, we believe in exploring, identifying and bringing out the inner excellence of the students along with their all round development and grooming. This includes academic, co-curricular, extra-curricular, sports, extension activities, ethics, human values, technical knowledge, leadership quality, research aptitude, communication skill, etc. These activities are carried out throughout the year in the form of :

1. Guest Lectures/ Seminars/ Workshops/ NPTEL Videos/ power point presentations
2. SPARK-Research/ paper presentation
3. Navonmesh-Cultural Activities/ Debate/ Quiz/ Rangoli/Mehendi/ Dance/ Drama/ Singing/ Rock Band/ Personality contest/ Nail art/ Antakshari
4. Campus Recruitment Training- These training programs are organized by the training and placement department for the overall personality development and making the students competent for placement
5. Projects- Students of the final year are encouraged to take up innovative projects with societal issues
6. National Festivals- These are organized in the campus to imbibe human values, ethics and patriotism in the students
7. Induction program for incumbents- Under the induction program, activities like sports, cultural, fundamental knowledge about the subjects, communication skill and motivational and psychological lectures are undertaken.
8. College promotes the students to participate in inter-college/ University Level/ State level/ national level competitions.
9. Sports- various indoor and outdoor games are conducted in the campus viz. Chess, Carom, Table tennis, Gymnasium, Basket ball, volley ball, cricket, Tug-of-war, for good physique, ethics and leadership
10. Student Associations/ Forum- Activities are organized for the development of technical skills, ethics and human values through extension activities.
11. Avishkar and Nirman- These science model, poster and technical project competitions are organized for school, junior college and polytechnic students. These events are successfully handled by the students of our college, thus inculcating leadership, management, organizational and communication skill in them.
12. Extension activities: Swachhata abhiyan, anti-drug rally, street play, etc. The institute also works for the upliftment of the society.

1. The students of the nearby village schools, junior colleges and



polytechnic colleges are motivated to participate in various competitions organized by the college for them, to bring out their scientific and technical skills and make them aware about the various options available for study after the completion of their 12th or Polytechnic. 2. College also takes up outreach activities which include, distribution of clothes, books, etc. to the needy through visits to orphanages, old age homes, etc. 3. Career counseling for students from nearby villages 4. Campaigns are undertaken to educate the village people and make them aware about the use of internet for banking, transferring money, etc. 5. The people from nearby localities are made aware about saving electricity, water, food etc. 6. They are explained how tree plantation can create a better, pollution free environment Thus, the various activities conducted in the college gives a boost to the overall personality of the students and they are transformed into disciplined, well mannered, technically sound with the required skills, ready for serving the society as quality engineers.

Provide the weblink of the institution

[http://www.kdkce.edu.in/pdf/7.3.1\\_AOAR\\_2017-18-Institutional%20distinctiveness.pdf](http://www.kdkce.edu.in/pdf/7.3.1_AOAR_2017-18-Institutional%20distinctiveness.pdf)

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

01. International Conference: Planned for two international Conferences. One International Conference for 2018-19 by Basic Science Department in the month of December 2018 other by Mechanical Engineering Department in the month of March 2019. 02. Planned the Peer team visit for NAAC accreditation in the month of October 2018. 03. Planned for the NBA accreditation of five Departments i.e. Civil Engineering, Electrical Engineering, Mechanical Engineering, Computer Technology and Electronics Engineering. 04. Short Term Training Programs (STTP) /Faculty Development Program (FDP): Planned for at least Seven National level STTPs/FDPs for 2018-19 . 05. Organization of AVISHKAR 2018-19, NAVONMESH 2019, SPARK-2019 NIRMAN-2019 06. Academic Audit Internal: Planned for internal academic audits in academic year 2018-19 07. Organization of Workshops : Planned for at least Seven Workshops for 2018-19. 08. Organization of Hackathon 09. To start new program Computer Science and Engineering with an intake of 90. 10. Closure of Second Shift of Mechanical Engineering 11. Improving placement of students in terms of packages offered by companies. 12. Submitting Research Proposals to various Funding Agencies 13. Submitting AICTE- AQIS proposals 14. Increase Industry Institute Interaction activities 15. Organization of International Education Fair 16. Institute participation in AICTE-CII Survey to assess the current status of partnership between institution and industry. 17. Increasing the number of environment friendly initiatives by NSS and ensuring participation of maximum students in such initiatives 18. Promoting participation of students and staff in seminars, workshops, sports and cultural activities organized by other colleges/ universities and external agencies 19. Promoting activities such as Yoga, physical exercise, meditation etc. related to development of mental and physical fitness of students, faculty and staff 20. Encouraging faculty members to complete their doctoral degrees and to continue research activities through quality publications and research projects . 21. Participation in Extension Activities like Orphanage Visit, Blood Donation, Book/Cloth Donation Camp, Program on Girls Safety, Participation of Students in NSS/NCC Events. 22. Promote Skilling activities 23. Enhance Incubation activities 24. Enhance Sponsored Industry based Projects 25. Promoting Entrepreneurship development Programs in Collaboration with ministry of Micro Small Medium Enterprise (MSME) 26. Encourage participation in MOOCS/NPTEL courses 27. Renovation of laboratories of Mechanical engineering, HOD office of Electrical Engineering, Civil Engineering Project Lab and Seminar Hall 28. purchase additional license softwares of Microsoft



