



Yearly Status Report - 2018-2019

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		am1_badar@yahoo.com
Alternate Email		prabhakark117@gmail.com
Address		Great Nag Road, Nandanvan, Nagpur
City/Town		Nagpur
State/UT		Maharashtra
Pincode		440009
2. Institutional Status		

Affiliated / Constituent	Affiliated
Type of Institution	Co-education
Location	Urban
Financial Status	private
Name of the IQAC co-ordinator/Director	Dr.P.D.Khandait
Phone no/Alternate Phone no.	09923199394
Mobile no.	9028144773
Registered Email	prabhakark117@gmail.com
Alternate Email	prabhakark_117@yahoo.co.in

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	http://www.kdkce.edu.in/pdf/AQAR_KDKCE_2018-19.pdf
4. Whether Academic Calendar prepared during the year	Yes
if yes,whether it is uploaded in the institutional website: Weblink :	http://www.kdkce.edu.in/pdf/Revised%20Academic%20calender%202018-2019.pdf

5. Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	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
Regular meeting of Internal Quality	02-Jul-2018 01	12

Assurance Cell (IQAC)		
Expert team visit for NBA accreditation	01-Mar-2019 03	2400
1st Surveillance for ISO 9001:2015 Certification	06-Sep-2018 01	2741
Peer Team visit for NAAC Gradation	05-Oct-2018 02	2741
AICTE-CII Survey	16-Aug-2018 365	2741
AIP International conference on	14-Dec-2018 02	168
International conference on	05-Apr-2019 02	180
National Conference SPARK-2019	23-Mar-2019 01	480
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8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
KDK College of Engineering, Nagpur	Nil	UGC	2018 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)

• NAAC Accreditation of the College • NBA Accreditation of 5 UG Programs • ISO Certification • AICTECII Survey • Campus Recruitment Training (CRT) program which resulted into 530 placements

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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
NBA Accreditation of PG/UG Programs	NBA granted accreditation to 5 UG Programs for 3 Years
NAAC Accreditation	NAAC granted accreditation to KDK College of Engineering with B++ grade for 5 Years wef 02/11/2018
Organization of National/ International Conferences	01 National Conference and 02 International conferences are organised
Paper publication by Faculty	251 papers are published by faculty in conferences and Journals
Paper publication by Students	288 papers are published by students in conferences and Journals
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14. Whether AQAR was placed before statutory body ?

Yes

Name of Statutory Body	Meeting Date
College Development Cell	15-Jan-2020

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

Yes

Date of Visit

06-Oct-2018

16. Whether institutional data submitted to AISHE:

Yes

Year of Submission

2019

Date of Submission

28-Feb-2019

17. Does the Institution have Management Information System ?

Yes

If yes, give a brief description and a list of modules

Management Information System (MIS) is

currently operational (maximum 500 words)

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 software (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 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 programme has a set of perspective Vision and Mission, which are aligned with Vision and Mission of the Institute. Program Educational Objectives (PEO) and Program Outcomes (PO) are scripted for each programme and Course Outcomes (CO) 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 Programme Assessment

and Quality Improvement Committee (PAQIC) meetings. Time table is prepared for each programme 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 programme. 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. Faculty Development Programs 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 the industry.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entrepreneurship	Skill Development
Indo German Tool Room (IGTR)		18/02/2019	06	Entrepreneurship	Training on CATIA CREO Tool
Course on "STAADPro"		16/08/2018	30	Employability	Analysis Design
Concrete Mix Design		04/09/2018	06	Employability	Concrete Mix Design
Entrepreneurship Awareness		07/07/2018	01	Entrepreneurship	Entrepreneurship Awareness
Entrepreneurship Development		20/07/2018	03	Entrepreneurship	Entrepreneurship Awareness
Advanced Communication Embedded System		14/03/2019	02	Employability	Communication and Embedded system
RTL Design and		21/08/2018	01	Employability	RTL Design using VHDL

Functional Verification				programming
Capital Market	07/01/2019	06	Employability	Share Market trading, Mutual Fund, capital Investment
Campus Recruitment Training	02/01/2019	06	Employability	Aptitude, Communication, GD/PI
NPTEL /MOOC Courses	01/07/2018	30	Employability	Professional

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
BE	Computer Science and Engineering	16/06/2019
MBA	Master of Business Administration	19/08/2019
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	Computer Science and Engineering	16/06/2019
MBA	Master of Business Administration	19/08/2019

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

Certificate	Diploma Course
No Data Entered/Not Applicable !!!	

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
Club ROBO	16/06/2018	27
Auto Club	16/06/2018	28
Training Programme on "Oracle"	09/08/2018	45
In house internship on "pre-requisite's for Machine Learning"	15/12/2018	31
Training course on "STAADPro"	16/08/2018	26
Workshop on "Concrete Mix	04/09/2018	140

Design"		
Workshop on AUTOCAD Electrical, Livewire	18/09/2018	81
Electrical Conservation	03/01/2019	28
Hands-on Training on PowerPoint Presentation Techniques	03/08/2018	53
Campus Recruitment Training(s)	02/01/2019	432
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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	UG Internship Mechanical Engineering	70
BE	UG Projects Mecchanical Engineering	78
Mtech	PG Projects Mechanical Engineering	9
BE	UG Projects Civil Engineering	23
BE	Summer internship Civil Engineering	228
BE	internship Information Technology	65
BE	Field Projects Electrical Engineering	50
BE	Internship Electrical Engineering	163
BE	Internship Computer Technology	61
BE	Internship/projects Electronics Engineering	96
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

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

Feedback Obtained
The college is having well defined feedback process which includes reviews by

various stakeholders like students and teaching faculties, parents, employers and alumni. Feedback is received on varied aspects of the college including office, canteen, laboratory, library, administration and academics. Purpose of the feedback is to improve quality in curriculum delivery, development in institute infrastructure and enhancement in faculty performance. The feedbacks are taken up either online or by collecting forms during Parent meet/ Alumni meet/ through e-mail in each semester /year. Feedbacks so obtained are analyzed dimensionwise. 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 feedbacks and surveys, following indices are used in analysis to calculate the percentage score: Ratings Meaning Marks SA/E Strongly Agree / Excellent 4 FA/G Fairly Agree /Good 3 A/S Agree / Satisfactory 2 D/P Disagree / Poor 1 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. The feedback analysis and consolidated report is then submitted to the HOD for further necessary actions in consultation with Principal. 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.

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	140	120
BE	Computer Technology	90	105	90
BE	Information Technology	60	68	60
MBA	Master of Business Administration	60	70	60
BE	Mechanical Engineering First Shift	120	135	90
BE	Electrical Engineering	120	132	62
BE	Electronics Engineering	60	65	30
BE	Mechanical Engineering	60	65	14

	Second Shift			
Mtech	Structural Engineering	18	21	16
Mtech	Mechanical Engineering Design	18	20	7
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2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018	466	83	134	12	13

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
146	122	7	22	10	10

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

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

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

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, feel 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. • 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 time-table 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 informs 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. • It is possible 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. • 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, it can be said that the mentor system in the college is totally student-centric and mentors are able to provide support and guidance to the students under

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
2741	146	1:19

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
141	146	0	37	29

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
2018	Dr.P.D.Khandait	Professor	Secretary, Nagpur Local Centre, IETE, New Delhi
2018	Dr. Valsson Verghese	Professor	Session Chair, National Conference
2019	Dr. Valsson Verghese	Professor	Keynotes Speaker, International conference
2018	Prof. Swapneel R.Satone	Assistant Professor	OUTSTANDING PERSONALITY AWARD from Bhausahab Mulak Chatitable Trust, Nagpuro
2019	Dr.S.P. Wankheded	Associate Professor	OUTSTANDING RESEARCH AWARD from Bhausahab Mulak Chatitable Trust, Nagpur
2018	Dr.Anup P.Fartode	Associate Professor	OUTSTANDING CONTRIBUTION IN THE SOCIAL ASPECT from Bhausahab Mulak Chatitable Trust, Nagpur
2019	Prof. Pankaj B.Gour	Assistant Professor	Award for Expert guidance in Chemistry by Kalpataru Bahuuddeshiya Sanstha, Gadchiroli
2018	Dr. Anup P. Fartode	Associate Professor	Award for Awareness

			about Career Opportunities in Engineering and other related areas by Kalpataru Bahuuddeshiya Sanstha, Gadchiroli
2019	Dr. Tushar R. Shelke	Assistant Professor	Special Award for Awareness about Swachhata Aarogya Abhiyan in Rural Area by Pratikar Sanskrutik Manch, Bembal, Dist. Chandrapur
2019	Dr. Tushar R. Shelke	Assistant Professor	Best Teacher Award by Asha Gramin Shikshan Samajik Vikas Sanstha, Selu, Dist. Wardha
View File			

2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BE	414719110	III	28/11/2018	31/12/2018
BE	414761210	V	27/11/2018	31/12/2018
BE	414729310	VII	28/11/2018	31/12/2018
BE	414737610	IV	10/05/2019	14/06/2019
BE	414725110	VI	11/05/2019	07/06/2019
BE	414724610	VIII	10/05/2019	07/06/2019
MBA	414710110	I	29/11/2019	28/12/2018
Mtech	414721210	II	24/05/2019	24/06/2019
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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, quizzes, competitions 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

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
414719110	BE	Civil Engineering	140	130	92.85
414761210	BE	Mechanical Engineering First Shift	136	132	97.05
414729310	BE	Electrical Engineering	138	127	92.02

414737610	BE	Electronics Engineering	55	54	98.18
414725110	BE	Computer Technology	111	108	97.29
414724610	BE	Information Technology	63	59	93.65
414761220	BE	Mechanical Engineering Second Shift	61	56	91.8
414710110	MBA	Master of Business Administration	55	51	92.72
414721210	Mtech	Structural Engineering	17	17	100
414790410	Mtech	Mechanical Engineering Design	9	8	88.88
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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)

<http://www.kdkce.edu.in/pdf/NAAC%20-%20SSS%20-%202018-19.xlsx>

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
Minor Projects	365	Ujwala Plastic Industries Ltd., Nagpur	0.1	0.1
Minor Projects	365	MOIL, Nagpur	0.1	0.1
Minor Projects	365	Ujwala Plastic Industries Ltd., Nagpur	0.1	0.1
Minor Projects	365	Ujwala Plastic Industries Ltd., Nagpur	0.1	0.1
Minor Projects	365	Ecomate Solutions Pvt. Ltd., Mumbai	0.1	0.1
Minor Projects	365	Ecomate Solutions Pvt. Ltd., Mumbai	0.1	0.1
Industry sponsored Projects	365	Rakshak Electromech Devices, Nagpur	0.15	0.15
Industry	365	S.V.	0.15	0.15

sponsored Projects		Enterprises, Nagpur		
Industry sponsored Projects	365	Ecomate Solutions Pvt. Ltd., Mumbai	0.25	0.25
Industry sponsored Projects	365	Anup Engineering Works, Nagpur	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
IPR Awareness Program	Mechanical Engineering	13/03/2019
An Introduction to Patents	Mechanical Engineering	02/04/2019

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

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Wireless bomb disposal robot with night vision camera	Mr. Aviraj Naik, Ms. Atiba Qureishi and Mr. Amit Dubey	International Journal for research under literal access	15/12/2018	student
Monitoring and protection of three phase transformer	Prashant Bhati, Prachi Somkuwar, Parag Sardey, Parag Marbate, Rahul Khangar	Shri Ramdeobaba College of Engineering Management, Nagpur	16/03/2019	National Conference and Project Competition-Ennovate 2019
View File				

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
K.D.K.College of Engineering, Nagpur	Shantanu Bhende	KDKCE, Incubation Center Nagpur	AMBULANCE DRONE SYSTEM	Medical Service	13/09/2018
K.D.K.College of Engineering, Nagpur	Himanshu Bhakte	KDKCE, Incubation Center Nagpur	MOBILE AUTOMATIC VIBRATOR	Automation	13/09/2018
View File					

3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
34435	0	0

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

Name of the Department	Number of PhD's Awarded
Mechanical Engineering	3
Electrical Engineering	1
Electronics Engineering	1
Basic Science and Humanities	2

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

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Mechanical Engineering	56	5.5
International	Basic Science and Humanities	31	1.5
International	Computer Technology	23	4.44
National	Mechanical Engineering	1	5
International	Civil Engineering	64	5.58
View File			

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

Department	Number of Publication
Mechanical Engineering	52
Civil Engineering	32
Electronics Engineering	11
Computer Technology	2
Information Technology	15
Basic Science and Humanities	32
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
Effect of Shape on thermophysical and heat transfer properties of ZnO/R-134a Nanorefrigerant	Dr. C. C. Handa	Materials Today (Elsevire)	2018	146	K.D.K. College of Engineering, Nagpur	6
Synthesis, crystal	K.A.Gedekar	Journal of Materials	2018	4	K.D.K. College of Eng	4

structure and luminescence in Ca ₃ Al ₂ O ₆		Science: Materials in Electronics 29 (8), 6260-6265			Engineering, Nagpur	
Ce ³⁺ and Eu ²⁺ luminescence in calcium and strontium aluminates	K.A.Gedekar	Journal of Materials Science: Materials in Electronics 29 (6), 4466-4477	2018	2	K.D.K.College of Engineering, Nagpur	2
Synthesis and photoluminescence in Yb doped cerium phosphate CePO ₄	Dr.S.P.Wankhede	AIP Conference Proceedings 1953 (1), 080008	2018	2	K.D.K.College of Engineering, Nagpur	2
Synthesis and characterization of KCe(PO ₃) ₄ doped with some lanthanide	Dr.S.P.Wankhede	Luminescence 33 (2), 356-363	2018	2	K.D.K.College of Engineering, Nagpur	2
NIR emitting Bi ₂ MoO ₆ :Nd ³⁺ /Yb ³⁺ phosphor as a spectral converter for solar cells	Dr.S.P.Wankhede	Journal of Luminescence	2018	4	K.D.K.College of Engineering, Nagpur	4
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3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Effect of Shape on thermophysical and heat transfer properties of	Dr. C. C. Handa	Materials Today	2018	7	6	K.D.K.College of Engineering, Nagpur

ZnO/R-134a Nanorefrigerent						
Synthesis, crystal structure and luminescence in Ca ₃ Al ₂ O ₆	K.A.Gedekar	Journal of Materials Science: Materials in Electronics 29 (8), 6260-6265	2018	4	4	K.D.K.College of Engineering, Nagpur
Ce ³⁺ and Eu ²⁺ luminescence in calcium and strontium aluminates	K.A.Gedekar	Journal of Materials Science: Materials in Electronics 29 (6), 4466-4477	2018	4	2	K.D.K.College of Engineering, Nagpur
Synthesis and photoluminescence in Yb doped cerium phosphate CePO ₄	Dr.S.P. Wankhede	AIP Conference Proceedings 1953 (1), 080008	2018	4	2	K.D.K.College of Engineering, Nagpur

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

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	30	19	11	42
Presented papers	113	19	15	0
Resource persons	1	1	0	0

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3.4 – Extension Activities

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

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Blood Donation	Ayush Blood Bank and MESA	2	150
Charity Fund for Flood affected Area-Kerala	NSS Unit KDKCE	4	145
Blood Donation Camp	NSS Unit KDKCE Jivan Jyoti Blood	2	110

	Bank, Nagpur		
Swachha Bharat Abhiyan	NSS Unit KDKCE and Local member of Nandanvan Slum area	4	150
Poster Competition on Green Environment	NSS Unit KDKCE	2	55
Share Care	NSS Unit KDKCE Jawahar Night Highschool, Sitabardi, Nagpur	2	60
Tree Plantation	NSS Unit KDKCE Jawahar Night Highschool, Sitabardi, Nagpur	2	60
Street Play on Drug Addiction	NSS Unit KDKCE Traffic Police Nandanvan, Nagpur	2	80
Interactive session on Student Psychology	NSS Unit KDKCE Mansparsh Organization, Nagpur	2	150
Pink Walk for Breast Cancer Awareness Campaign	NSS Unit KDKCE, Sankalp Foundation and Indian Medical Association, Nagpur unit	2	52
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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
Expert Guidance on Preparation of JEE and NEET	Certificate	Kalpataru Bahuuddeshiya Sanstha, Gadchiroli	60
Awareness about Various Career Opportunities	Prize and Certificate	Kalpataru Bahuuddeshiya Sanstha, Gadchiroli	60
Awareness Program on Cleanness and Health	Prize and Certificate	Pratikal Sanskrutik Manch, Bembal, Chandrapur	150
Crash Course on Preparation of JEE and NEET	Best Teacher	Asha Gramin Shikshan Samajik Vikas Sanstha, Ghorad, Wardha	150
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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	Name of the activity	Number of teachers participated in such	Number of students participated in such
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	agency		activites	activites
Social Activity	KDKCE and Jivan Jyoti Blood Bank, Nagpur	Blood Donation Camp	2	110
Social Activity	KDKCE and Local member of Nandanvan Slum area	Swachha Bharat Abhiyan	4	150
Social Activity	KDKCE and Jawahar Night Highschool, Sitabardi, Nagpur	Share Care	2	60
Social Activity	KDKCE and Jawahar Night Highschool, Sitabardi, Nagpur	Tree Plantation	2	60
Social Activity	KDKCE and Mansparsh Organization, Nagpur	Interactive session on Student Psychology	2	150
Social Activity	KDKCE and Traffic Police Nandanvan, Nagpur at Jagnade square, Nagpur	Traffic Awareness Programme	2	45
Social Activity	Mechanical Engineering Students Association (MESA) and Z. P. School Gumgaon, Umred	Stationary Donation to Primary School Children	4	30
Social Activity	IETE, New Delhi, Nagpur Centre Student Forum (ISF) on 14/02/2019	Study Material Distribution	3	27
150th Birth Aniversary of Mahatma Gandhi	K. D. K. College of Engineering Nagpur	Swachh Bharat abhiyan	2	45
Social Activity	Forum at Computer Engineering and Information Technology (FACE-IT) (Student Forum)	Kerala Flood Relief campaign	7	100

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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
International Conference on Multidimensional Role of Basic Science in Advanced Technology (ICMBAT-2018) at K.D.K. College of Engineering, Nagpur	168	(1) AERB, Mumbai (2)Nucleonix Instruments ,Hyderabad (3)SES Instruments, Roorkee (4) Omega Electronics, Jaipur	02
International Conference Expo on "Emerging Trends In Mechanical Engineering" e-Time 2019	180	(1) ISTE, New Delhi, (2) IE (I), Kolkata (3) IIIE, Mumbai (4) GiZ, Germany	02
XV National Conference on Emerging Technology Trends in Engineering Project Competition (SPARK-2019)	480	(1) ISTE, New Delhi and (2) IETE, New Delhi	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
Training	Internship	Koradi Training Centre, Koradi, Nagpur, Contact No. 91 7109-262737, Email id: contact@ktc.com	17/12/2018	17/01/2019	04
Training	Internship	Hindustan Composites Ltd., Bhandara, Contact No. 91-7184-274441, 274442 Email id: sales@hindcompo.com	08/12/2018	23/12/2018	03

Training	Internship	Koradi Training Centre, Koradi, Nagpur Contact No.91 7109-262737, Email id: contact @ ktc.com	13/12/2018	07/01/2019	02
Training	Internship	Diesel Lokoshed, Motibagh, Nagpur, Contact No.0 712-2745379, Email id: sr deetrs@ngp.r ailnet.gov.i n	03/12/2018	18/12/2018	02
Training	Internship	Indo German Tool room(Creo) Nagpur 91997 5388377, 91 - 9075095552	28/01/2019	13/12/2019	54
Training	Internship	Ajni Loco Shed, Electric Loco Shed, Central Railway, Ajni, Nagpur E mail: srdee.trs @r ediffmail.co m Contact No :0712-274537 9	07/12/2018	15/12/2018	12
Practical Training	Internship	High Rise transformer Industry, S - 82, M. I. D. C., Industrial Area, Hingna Road, Industrial Area, Nagpur, E mail: hrtn agpur@gmail. com, Contact: 09766360380	15/05/2019	02/06/2019	16
Practical Training	Internship	Sunflag Iron and Steel Ltd,	11/05/2019	15/06/2019	04

		Bhandara,33, Mount Rd, Sadar, Nagpu r.Email: adm in@sunflagst eel.com. Contact: 0712-2524661			
Practical Training	Internship	All India Radio Centre Palm Road,Civil Lines ,Nagpu r-440001, Tel No: 0712 -2561659, Email ID:air nag@dataone. in	10/12/2018	22/12/2018	07
Practical Training	Internship	Hi-Tech Resistor Pvt. Ltd Buty Compound, Mount Road extention, NagpurTei: 0 712-2531134, 2531134, E- Mail: Info@h tr-india.com	20/05/2019	06/06/2019	04
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3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
M/s M. G. Automation Technologies, Nagpur	20/08/2018	1.Development of Lab as a place of Excellence 2. Maintainance of Lab 3. Training Manual Development 4. Training for for Faculty and Students 5. collaboration for Research and Development 6. Collaboration for Industry Based Projects etc	100
M/s CADD Center Training Services Pvt. Ltd.	29/12/2018	1. Student Training on CAD/CAM/CAE software 2. Student	150

		<p>Internship Program through MSME</p> <p>3. Faculty Development Program</p> <p>4. Joint Consultancy Projects</p> <p>5. Participation in International Design Competition</p> <p>6. Placement Assistance</p>	
M/s Indo German Tool Room, Aurangabad	04/01/2019	<p>1. Training of Students</p> <p>2. Training of Faculty</p> <p>3. Establishing Training Center at Mechanical Engineering Department</p> <p>4. Placement Support</p> <p>5. Support for Development of Training Facility</p> <p>6. Skilling Activity</p>	100
GIZ, Germany	05/02/2019	<p>1. Promotion of I.I.I.- through interaction</p> <p>2. Sponsoring and Supporting Events, Conference, Expo</p> <p>3. Providing Industry based Projects for Future</p> <p>4. Supporting and Remuneration of Faculties for Mentoring Students Projects etc</p>	150
Disha Foundation	26/03/2019	<p>1. Student/Faculty Training, Interaction and Exchange</p> <p>2. Collaborative Research activities</p> <p>3. Activities/Projects</p> <p>4. Development of Teaching and Learning strategies on materials etc</p>	100
Merhuchi Tent Co., Ltd Nagoya Aichi, Japan, signed by Mr. Rayosuke Nakamura	31/08/2018	<p>1. For Conducting different workshops, Industrial training and Placement</p> <p>2.</p>	143

		Final year student placement	
Southern Federal University, Taganrog, Russia	23/05/2019	Student/Faculty Training, Interaction and Exchange	3
ACC Cement by Er. Atul Ghodghate, Dy. General Manager,	04/09/2018	1.For Conducting different workshops, Industrial training and Placement 2.Concrete mix Design workshop was conducted	140
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
CMS IT Services Pvt. Ltd (For Electronics Engineering)	29/12/2018	Exchange of Technology Training	62
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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
322.42	81.18

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Newly Added
Seminar Halls	Newly Added
Classrooms with LCD facilities	Existing
Seminar halls with ICT facilities	Existing
Value of the equipment purchased	Newly Added

during the year (rs. in lakhs)	
Classrooms with Wi-Fi OR LAN	Existing
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4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
Synchronic Soflib	Fully	5.5	2013

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	55708	13901690	608	287476	56316	14189166
Reference Books	9682	2474378	48	23300	9730	2497678
e-Books	5522	13570	5365	13570	10887	27140
Journals	87	206233	80	208625	167	414858
e-Journals	549	13570	171	143046	720	156616
Digital Database	2	21000	0	0	2	21000
CD & Video	1370	504464	10	6710	1380	511174
Library Automation	1	8000	0	14000	1	22000
Weeding (hard & soft)	263	26300	71	17750	334	44050

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

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Prof. M.N.Umare	Traffic Studies and Analysis(Traffic Volume)	Youtube	26/02/2019
Dr. Valsson Varghese	Engineering Mechanics Truss	Youtube	28/02/2019

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4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	803	22	500	20	3	40	763	100	20

Added	150	0	50	0	1	10	140	0	0
Total	953	22	550	20	4	50	903	100	20

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	http://103.83.136.202/KDK-DATACENTER/2.1)%20E-content%20development%20facilities%20Media%20centre,%20Recording%20facility,%20Lecture%20Capturing%20System(LCS)/

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
106.67	55.39	121.41	154.87

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)

<p>Maintenance of Physical Facility:</p> <ul style="list-style-type: none"> • 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- <ul style="list-style-type: none"> 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 <p>Utilization of Physical facility:</p> <ul style="list-style-type: none"> • 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. <p>https://www.kdkce.edu.in/InternalPage.aspx?Antispam=JbbWj3Nz7ml&ContentID=360&MyAntispam=LE9wLWi6VDD</p>
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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
No Data Entered/Not Applicable !!!			
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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
Aptitude development skill enhancement for company	30/07/2018	34	Institute of Management, Mumbai
One Week Short Term Training Programme on "ORACLE"	09/08/2018	25	Mr. Prashant Munshi, Corporate Trainer
Expert talk on "Opportunities in Government Sector"	31/08/2018	65	Unique Academy, Nagpur
Expert lecture on Artificial Intelligence by Dr. Umesh Deshpande	06/09/2018	63	VNIT, Nagpur
Guest lecture on Computational Thinking by Dr. A. S. Mokhade	27/09/2018	48	VNIT, Nagpur
Expert Lecture on "Opportunities in IT Industry"	18/12/2018	24	click2cloud Inc, Beijing, China
Guest Lecture on "Career Opportunities after Engineering" by Mehul Zunzunwala, Director, TIME, Nagpur	17/01/2019	57	Director, TIME
Guest Lecture on "Latest Industry Technology Trends Job Openings"	07/02/2019	62	CMS IT, Nagpur.
Guest Lecture on Carrier planning and Aim setting by Mr. Sandeep Padan	21/09/2019	148	Skill Development Officer, NSDC, New Delhi.
Psychology Counselling Session	16/01/2019	235	Dr. Rakhee Mundhada, Psychologist, Nagpur
View File			

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

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2018	Aptitude Development Workshop	62	0	1	41
2019	Campus Recruitment Training Workshop by ADCC Nagpur	490	210	2	56
2018	GATE Classes	150	0	2	0
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5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
2	2	1

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
Accenture, Alacrity E-commerce Solution Pvt. Ltd. Nagpur, Altius, Amazon, Antslope, Apple Chemie India Pvt. Ltd., Asahi India Glass Ltd, Aurus, Pune, Betamons Technology, Bitwise Bosch, CMS IT Solution Ltd., Cognizant, Cosma, Demand Farm, Dhoot Transmission etc	5601	532	Callisto IT Solution, Capgemini Hanu Software, Harihar Infrastructure Development Corporation Ltd, Infosys, KARVY, Hyderabad, Neosynergy Systems Pvt. Ltd, Syslogyx Technologies Pvt. Ltd., TCS	215	4

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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	Depratment graduated from	Name of institution joined	Name of programme admitted to
2019	3	BE	Computer Technology	Shri Ramdeobaba College of Engineering Management, Nagpur. / School of European Pastry, Mumbai.	Post Graduate Programme
2019	1	BE	Electronics Engineering	PG-DAC, IET, Pune	PG-Diploma
2019	1	BE	Electrical Engineering	TGPCE Nagpur	Post Graduate Programme
2019	7	BE	Mechanical Engineering	Western Institute of Technology, Taranaki, New Zealand, Symbiosis Institute of Business Management, Nagpur, Oberoi Centre for Excellance, RTM Nagpur University etc	Project Management, MBA, P G Diploma in Industrial Robotics etc
2019	9	BE	Civil Engineering	Shri Guru Gobind Singhji Institute of Engineering and Technology, Nanded, G, H Rasoni college of Engineering, Nagpur, Singh gad College of Engineering, Pune etc	M.Tech in Environmental Engg, M.Tech in Water Management, M.Tech in Structural Engg etc

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

Items	Number of students selected/ qualifying
NET	0
GATE	4
GMAT	1
CAT	1
Any Other	61
View File	

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

Activity	Level	Number of Participants
Chess tournament	Intercollegiate	22
K.D.K. Premier League (Cricket)	Intercollegiate	300
Tug of War	Intercollegiate	60
Carom	Institute Level	50
Marathon	Institute Level	50
Basket Ball	Institute Level	70
Mix Cricket	Institute Level	70
Volley Ball	Institute Level	70
Personality Show	Institute Level	65
Antakshari	Institute Level	24
View File		

5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2018	Kridamahot sav 2018-19	National	1	0	9990783481 06	Utkarsha Lende
2018	Certificate of Participation	National	1	0	3265283826 09	Ms. Shivani Hiware
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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 Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur (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 2018-2019 Mr. Abhilas Tadas is Elected as Secretary and Ms Shrutika Pund is Elected as President of Students Council. Every department is also having a separate student association like Electrical Engineering Students Association (EESA), Mechanical Engineering Students Association (MESA), Civil Engineering Students Association (CESA), Forum at Computer Engineering and Information Technology (FACEIT), Institution of Electronics and Telecommunication Engineering students Forum(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 is having College Development Cell(CDC) and department is having Department Advisory Board (DAB) and Program Assessment and Quality Improvement Cell (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

Alumni Association: 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 US companies. 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 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 02 Feb 2019 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:

3652

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

48000

5.4.4 – Meetings/activities organized by Alumni Association :

02

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)

Following are the two best practices depicting the decentralization and participative management in its conduct to attain the desired outcomes. Best Practice - I: Academic Monitoring Objective: To monitor the academic conduct in the institute to achieve the quality deliverance of the technical education to the students. Decentralization Practice : Academic conduction is monitored at various levels. Students Level: Students are empowered to play vital role as batch representative, class representative, and coordinator of co/extra-curricular activities for effective implementation of academic planning. Through the mentoring system, students keep track of the academic coverage and understanding of the fellow students and take necessary steps to improve the results. As the committee member of various statutory and college committees such as IQAC, SAC, WDC, ICC, etc., students put-forth their suggestions for academic improvement. Faculty Level: Every teacher is responsible for the conduction of his/her class and the quality of lecture. Class in-charge monitors the conduct of theory/practical classes, the coverage of syllabus, attendance of the students, participation of students in various co/extra-curricular activities, site visits, summer internship, seminar, etc for effective deliverance of the course curriculum. Faculty members, representing on various committees/cell such as PAQIC, DAB, Library, Career Counseling, SAC, Students Association, etc are empowered to carry out the responsibilities of academic monitoring. Faculty members are given authority to carry out academic audit of each programme and suggest necessary steps to be taken towards academic excellence. HOD Level: Head of Department monitors the entire academic affair and checks whether it is going as per the academic calendar and schedule. The HOD also guides the class in-charge for monitoring the academics and conduction of various activities. Principal Vice Principal Level: Principal Vice Principal also monitors the academic conduction as per the academic calendar of the college with due consideration to the scheduling of the

events/activities, conduction of theory and practical classes and examination, punctuality, attendance of the teacher students and the quality of the academic conduction. They also monitor the syllabus coverage, grievances of the students regarding teaching - learning, and see that various committees established for academic monitoring and developments are functioning properly. If necessitates, they motivate students personally and in-group for responding to the academic conduction of the college. The authority also monitors the teacher for his/her teaching quality and approach. If needed, improving measures are suggested to the head of department for further implementation. Participative Management: The Principal, Vice-Principal, Dean, HOD, Faculty and Students level all are involved and play important role in the participative management of academic monitoring. At each level, they put-forth their suggestions for effective academic conduction monitoring and implemented too. The final decision to provide academic infrastructure is the decision of Governing Body and the Management. However, all views are taken into consideration for the implementing the decisions for achieving academic excellence. Example to quote: Upon receipt of the suggestions from the faculty members for the provision of the ICT in the classroom, the Head of Department submits the proposal to the IQAC and the Principal. Principal, then put forward the proposal to the College Development Committee, which recommends the proposal to the Governing Body. GB, then approves and sanction the purchase of the ICT provision and send back the sanctioned proposal to the Principal, which then forwarded to the HOD for further implementation. Effective conduct of academics and its result is a testimony to the decentralization and participative management in the institute, where college authority, head of department, faculties and students are involved and shares the responsibility of quality deliverance of the technical education. Outcomes: Through the effective academic monitoring system, college achieved quality deliverance of technical education to its students. The discipline and sense of responsibility is inculcated into the teacher and students. It also helped to improve the overall quality of teaching - learning process in the institute. Best Practice - II: Conduction of National/International Conferences Objective • Inculcate review practices. • Make them able to understand and communicate research findings and write a technical paper. • Create awareness on professional and social ethics. • Developing their presentation skill and leadership qualities • Make them able to understand the application of modern tools • To provide the platform to the students to publish their articles and to interact with the scientist, researchers, faculties of various field of engineering • To make them aware about the application research and technology to the society • To encourage students to take up the projects that can have the societal application The International Conference(s) are being conducted every year since last three years and the national level conference for students SPARK is being conducted in the college since 2005. Decentralization Practice: Authority and autonomy provided to the organizing team for conduction of National/ International Conference. Students Level: Students representing various committees like registration, souvenir, transport, accommodation, technical session, etc. plays vital role as coordinator during the conduction of the conferences. Faculty Level: Faculty members representing various committees / sub-committees are empowered to conduct all the proceedings of the conference. The convener is given the authority and autonomy to plan, implement and conduct the conference. Faculty members are appointed as in-charge of various committees. HOD Level: Head of Department(s) representing on advisory board, imparts necessary guidance and expertise for the conduction of the conference. Principal Vice Principal Level: Governing board bestows the authority and powers to the Principal Vice Principal to monitor the conduction of such conferences. They also plays vital role in resource mobilization for the conduction of the conference. Participative Management: The Principal, Vice-Principal, HOD, Faculty and Students all are involved in making decisions and play important

role in conduction of international/ national conference(s) in the college. Everybody's decision/ suggestion for the effective conduction of the conference is taken into consideration. The final decision to provide resources is the decision of Governing Body and the management. However, all views are taken into consideration for implementing the decisions for successful organization of the conference(s). Example to quote: The Head of Department puts the proposal of organization of conference before the faculty members during the meeting and seek their suggestions. After receiving the suggestions, HOD then prepares the proposal and submits the same to the IQAC and the Principal for further approval and sanction. The Principal then discusses the proposal in College Academic Committee and seek suggestions from the members. After finalizing, the Principal submits the proposal to the College Development Committee, which after finalizing submit the same to the Governing Body. Governing Body, after analyzing the proposal, convey their decisions to the Principal. Principal then, send back the proposal to the HOD for further action. Successful organization of national/international conferences is a testimony to the participative and decentralization management in the institute, where college authority, head of department, faculties and students are cordially involved and share the responsibility. Outcomes: This practice has helped faculties and students to apply the engineering research and knowledge to solve the social and environmental problems and serve the society in a better way. It has enabled the students in developing the leadership quality working individually and in-group understands the ethical aspects with lifelong considerations.

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
Research and Development	The college has dedicated R D Cell for monitoring and facilitating research work by the faculty and students. College has E-Yantra, Club ROBO, Club AUTO, incubation cell for encouraging to take up innovative projects. The college is running Ph. D. Centres in Civil and Mechanical Engineering through which faculties undertake research work. The Ph. D. Cell is being monitored by Research Allocation Committee. 09 research scholars in Civil Engineering and 10 research scholars in Mechanical Engineering are doing their doctoral research work. Each Ph. D. Centre invites experts from institute of academic excellence to review the research work of the scholar. Minimum 2 progress seminar per session along with pre-registration and pre-submission seminar are conducted as per the guidelines of the RTM Nagpur University. Two research scholars in Civil Engineering have submitted their thesis to the university. In Mechanical Engineering, Eight research scholars

have submitted thesis and one has been awarded the PhD degree. During the year 2018-19, 04 faculties have been awarded doctorate degree from Nagpur University. More than 35 faculties are holding the doctoral degree in various disciplines in the college. 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 centre. 02 International conferences have been organized to provide platform to publish the research work during the year. 08 projects have been applied under AICTE- AQIS schemes. College encourages and sponsors faculties to attend STTP/ Conferences/ Workshops, etc for knowledge up-gradation. MoUs have been signed for knowledge and academic exchange. Many experts of research organizations were invited for expert talks. Faculties were encouraged to file patent copyrights and 5 copyrights by the faculties have been received in the session. Faculties are encouraged to publish their research work in reputed journals. The faculties are receiving citations for their publications, which depicts the quality of publication. College explores various funding agencies for sponsoring major / minor projects. (DBT, DST, ICSSR, UGC etc.) Students are encouraged to undertake innovative project in collaboration with the Industry and are funded if needed and based on the rubrics evaluation, the Best Project is awarded. Students are sponsored to attend workshops, conferences, seminar for knowledge up-gradation. Students are motivated and guided to publish their technical papers in national, international conference/journal and appreciated/awarded for such publication.

Library, ICT and Physical
Infrastructure / Instrumentation

The college library caters to the academic requirements of the students and staff with a collection of over 55,000 books, worth more than Rs. 139 lakhs, inclusive of 9,682 titles for all the UG PG courses offered in the college that includes the addition of 608 books, 80 National Journals and 549 International Journals in the session 2018-19. The library also subscribes to national and international e-journals.

College library is linked with other reputed library of the country like IIT 's through "DELNET" and online access of books and journals can be made by the users even from other library (DELNET Member) and books loan facilities is through "DELNET". Library built up area is 696.06 m² with separate reading room for students and staff. Journals and Periodicals -National international e-journals, DelNet, Multimedia packages and the Internet Access with independent Multimedia Room having technical CD's from reference books are special attraction of the central library. Over 14000 Text Books are provided under the book-banks scheme especially for SC /ST Students and other Students.

Reprographic facilities are provided inside the library reading room. WEB-OPAC facilities are made available for easy searching through intranet. The College having total built-up area is 26550.787 sq.m. The state-of-the-art Infrastructure promotes a good teaching-learning environment. The Vision of college is "Service to the Society through Quality Technical Education" which aptly provides to all the stakeholders with various facilities for Teaching and learning. Ample classrooms, tutorial rooms 68 laboratories, independent seminar hall for each department, common workshop, central library, closed auditoriums, open stage, canteen facility and playground are available in the campus.

Most of the classrooms are equipped with multimedia teaching aids. State of the art facilities are available in the laboratories with investment of more than 7 Crores. Each laboratory is equipped with sufficient number of required experimental setups. College management ensures availability of adequate physical infrastructure considering AICTE and RTMNU norms.

Whenever additional course is introduced or curriculum needs arise, it is ensured that required physical infrastructure is available on time.

Every department has dedicated laboratories and classrooms. Considering the contact hours of each course, the departments plan classroom and laboratory utilization timetable. College also understands the importance

of sports in the life of students and thus, provides all advanced sports equipments and facilities for conducting sports events that includes a lush-green playground of 125000 square feet area. Resources are shared across departments whenever needed.

Every department has computer laboratories, which are utilized for on-line examinations, aptitude tests, project development and competitions by students of different departments. The required academic facility like purchase of the instruments, consumables, furniture, and infrastructure are augmented each year.

Each department has created the facilities for additional and advance experiments.

Human Resource Management

The management of the college provides adequate human resource as per the guidelines of the statutory bodies university. The college has well defined administrative hierarchy wherein, senior faculty with more than 25 years of experience is heading the department. It has well defined administrative section and academic sections to look after the employees and students respectively.

Administration and academics are carried out as per the organizational hierarchy of the institute by maintaining healthy relationship with the employee . The Institute maintains all service records of the employees and keep up to date records of their leave. 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, keeping in the mind that right person for right responsibility and empowering them to carry out specific task. Committees are constituted as per the guidelines for the intended purpose. Faculty members are encouraged and sponsored to attend refresher course, seminar, conferences, and workshop for up-gradation in the knowledge. They are also encouraged to publish their research paper in the journal of repute and awarded for the same. Promotions and incentives are given for better productivity. various grievance redressal committees addresses the complaints raised by the

employees. This committee includes grievance redressal committee, staff welfare committees, sexual harassment committee and committee to take care of weaker section of the society. Institute has MoU with hospital wherein a doctor can be called for any medical attention to faculty and students whenever required. All faculty and students are insured for the accidents through insurance policies. A counsellor is appointed in the college who redresses the issues related to various stresses in faculty and students.

Industry Interaction / Collaboration

The college has taken many initiatives for improving industry - institute interaction. More students are provided an opportunity to undergo industrial training. Industrial visits are conducted. College has signed MoU for knowledge exchange program. College is collaborating 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 Departmental 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. Students are encouraged to become member of professional bodies to get an opportunity to learn from professionals through an expert lectures, site visits, collaborated projects work. Name of the professional Bodies Indian Concrete Institute (ICI) Chapter Indian Society for Technical Education (ISTE), New Delhi Hydrological Data User Group (HDUG) Institute of Electronic and Telecommunication Engineers (IETE) Computer Society of India (CSI)

Admission of Students

Admission of students is undertaken through Govt procedures under Centralised Admission Process (CAP). The Government of Maharashtra has established dedicated admission cell, which carry out Engineering Entrance Exam, in which aspiring students appear for the exam. Based on score obtained in entrance exam students are allotted State Merit Level (SML) by preparing

the inter-se merit list of the aspiring candidates as per the prescribed admission guidelines. Upon knowing the SML, students fill the option form of their choice. The allotment of course and institute, for 65 percent state and 15 All India Quota, are done according to prepared merit list considering all the reservation criteria. The students take admission in the allotted institute in the allotted course within the stipulated period. After the first round, the vacant seats are filled in subsequent round following the same policy and procedure. Students from far off places have also taken admission. College is having full-fledged career guidance and counselling cell, which holds seminar in and around the city, 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.

Curriculum Development

The college is affiliated to the RTM Nagpur University and runs the academics as per the curriculum developed by the university with the guidelines of AICTE. The college-adopted the Outcome Based Education approach and established Course Outcomes (CO) for each course taught which are mapped with the Program Outcomes (PO) and Programme Specific Outcomes (PSOs), as suggested by the AICTE. The COs and POs are aligned with vision and mission statements of the each programme and the Institute. The program contains compulsory and elective courses in a session. College academic committee also discusses various issues related to curriculum giving due consideration to the recommendations of the professional bodies and academicians and suggests the necessary changes in the curriculum during its revision at the university level thereby caters to the attainment of specific programme outcomes. Curriculum enrichment is undertaken by conducting i) Guest lectures of Academicians and Industrial expertise

ii) workshop and seminars iii) Industrial visits Tours iv) Add on courses v) MoU's vii) Soft skill training programs . Besides this, various reforms and innovative practices are undertaken like Internship program, Resource Learning, Project Lab Workshops on curriculum-embedded topics etc. Value added courses through NPTEL, MOOCS and Software learning are conducted. Faculty members attends the workshop organized for each courses and recommends the necessary changes required in the curriculum of the respective courses. Faculty also, as per the gap identified, suggests to board of studies of the university to incorporate necessary changes in the curriculum. Faculty members have been elected to the Board of Studies. College has a structured mechanism to obtain feedback from students, alumni and other stakeholders regarding the curriculum and thus incorporates into academic activities. The Robotic Club, E-Yantra Club, Auto Club, Project Lab, Student Activity Cell, Hobby Club, Professional Chapter, etc. all provides opportunities for the students to develop the professional skill under the guidance of professor in-charge, which enhances their employability quotient.

Teaching and Learning

The college is practicing strategies of student centric teaching - learning from the first day of commencement of session. The college adopts following Teaching - Learning Methodology:
 Experimental Learning: to make students relates theory to practice and analyse the real life situation as per the course content and helps to understand the concepts in better manner. Additional and advanced experiments are conducted for more practical knowledge of the respective topic/subject in the course
 Participative Learning: Discussion, short seminars, seminar, etc are conducted to make students participate actively in the process of learning. Problem Solving Techniques: Assignments, Tutorial classes, Case studies, etc are taken to help understanding the problems and enhancing the problem solving potential of the students. The teaching learning outcomes are monitored on regular basis

both - at the department and college level. The departmental academic calendar envisages various academic activities of the department like internal theory and practical exams, expert lectures, workshops, co-curricular activities. Academic calendar is prepared in the beginning, which is followed in each course. Teaching plan is prepared in advance for each course, which consist of Course Information Sheet indicating the credit, course outcome, no. of classes, assessment criteria, etc. The teaching plan is communicated to each student in the class during the first lecture. The same is also uploaded on college website for easy access to all the stakeholders. HODs and Dean monitors the implementation of the teaching plan. The HOD and PAQIC members review their respective course content and accordingly, necessary instructions are given to the faculties. 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 enabled classrooms, professional societies clubs, Student Activity Centres, etc are the initiatives taken. The college lays special emphasis on the slow learners - the student mentorship program and remedial/tutorial classes with a focussed interaction are conducted. Review of the lessons at the end of the lecture by question answer sessions. Quarterly assessment of the teaching outcomes is carried out. To improve quality teaching - learning, students' feedback is taken directly and through mentors.

Examination and Evaluation

End Semester examinations are conducted as per the guidelines of the university. Two Internal examinations of 20 weightage in theory and 50 wieghtage in practical examinations are conducted. A Pre-University Test is conducted on full syllabus to give better practice of the university

examination. The college have introduced multiple choice question exam and subject activities to prepare them for the prevailing competitive examinations systems. Evaluations for each examination is done and communicated to the students to attain their grievances. Rubrics are developed to evaluate project work and practical work. Result analysis of all the examination is done to assess the performance. 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. Students are continuously evaluated throughout their academic session through various academic, co curricula events, which include continuous assessment, direct assessment and indirect assessment. Project work is evaluated for 50 internal wieghtage through continuous assessment by conducting progress seminar. By identifying the slow-learners, the college conducts tutorial/ remedial classes, assignments to improve their performances. The college has dedicated exam cell to conduct university exam for 80 weight age in theory and 50 wightage in practical and project work.

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

E-governace area	Details
<p>Planning and Development</p>	<p>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 challans which is obtained from ERP and issues at the time of registration. College maintains its website www.kdkce.edu.in regularly for uploading and disseminating the information to all</p>

	its stakeholders.
Administration	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.
Finance and Accounts	College has adopted ERP system to carryout financial activities. 1. Online Fee Collection 2. Receipt of 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.
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	Prof N. R. Dhamge	79th Annual Session of International Conference (IRC)	Indian Road Congress	4750
2018	Dr. A. M. Badar	National Seminar on "Adv. in Infrastructure Development"- RAID-2018	Institution of Engineers (India)	3000
2018	Prof. S. R. Satone	National Seminar on "Adv. in Infrastructure Development"- RAID-2018	Institution of Engineers (India)	3000
2018	Prof. V. D. Vaidya	National Seminar on "Adv. in Infrastructure Development"- RAID-2018	Institution of Engineers (India)	3000
2018	Prof. M. N. Umare	National Seminar on "Adv. in Infrastructure Development"- RAID-2018	Institution of Engineers (India)	3000
2018	Prof D. S. Padole	National Seminar on "Adv. in Infrastructure Development"- RAID-2018	Institution of Engineers (India)	3000
2019	Dr.C.C.Handa	Wipo-India Summer school on IPR	Summer School	14000

2019	Prof. S.Kurzadkar	Scilab workshop at GHRIET, Nagpur	Teaching Learning Centre (ICT) IIT Bombay	300
2019	Prof. V. RSurjuse	STTP on Machine Learning at YCCE, Nagpur	ACM Institute of Engineers (India) Nagpur chapter	1000
2019	Dr. P. D. Khandait	Three week summer school on Telecommunications and Computer Science at Southern Federal University, Taganrog, Russia, 25th June to 13th July 2019	Indian Russian Scientific Centre	30000

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

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2018	Faculty Development Program on REVIT Structure		03/12/2018	11/12/2018	21	0
2018	Faculty Development Program on Building Information Modelling (BIM)		12/12/2018	19/12/2018	21	0
2018	ISTE Approved One Week Short Term Training Program "Product Design Analysis using CATIA ANSYS"		24/12/2018	29/12/2018	11	0

2019	One-week multidisciplinary workshop on "control and schematics design using AutoCAD"		01/04/2019	05/04/2019	27	0
2018	One Day Webinar On RTL Design and Functional Verification by Maven Silicon, Bangalore		21/08/2018	21/08/2018	10	0
2018	One week Faculty Development Programme on Recent Trends in Networking (CCNA CCNP): Opportunities Challenges		10/12/2018	15/12/2018	23	0
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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
One week " Short Term Training Program on Oracle-PL/SQL"	2	09/08/2018	14/08/2018	6
One Week Faculty Development Programme on "Block chain Technology"	4	03/12/2018	08/12/2018	6
One week ISTE AICTE Approved STTP on Emerging Trends	3	01/04/2019	06/04/2019	6

in Industrial Networking through Windows Server				
One week STTP on Machine Learning Artificial Intelligence	2	22/04/2019	27/04/2019	6
One week STTP on Machine learning at YCCE in association with ACM and Institute of Engineers (India) Nagpur	1	10/12/2018	15/12/2018	6
Three day FDP for New NAAC Methodology by RUSA, RTMNU, Nagpur	1	04/12/2018	06/12/2018	3
One Week Faculty Development Programme on "Embedded Systems Interfacing Hands on"	3	10/06/2019	14/06/2019	5
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
0	66	0	76

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
EPF, Gratuity, Medical facilities, Group insurance, Maternity leave, 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, etc.

6.4 – Financial Management and Resource Mobilization

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

Yes. College prepares the annual budget of each department and financial allocation is done for the recurring and non-recurring items. 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 2018-19. 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
SES Instruments,Roorkee ,Omega Electronics,Jaipur, Nucleonix Instruments , Hyderabad, Management, KDKCE, Live Wire, Pulse Fitness, ARC Technologies, Casa Nostra, Azkaban Gaming Alley etc	286000	financial assistance for conduction of to International Conference ICMBAT 2018,Survey Camp, Support for organization of Students' Activity "Fahrenheit'19,financial assistance for carrying out the Industrial Sponsored Projects by MSME,GIZ etc
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6.4.3 – Total corpus fund generated

286000

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 faculties
Administrative	Yes	Member, Departmental Advisory Board	Yes	Nominated senior faculties

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

<p>All the Departments are having regular interaction with the parents of the admitted students. During the interaction, parents are made aware about the facilities and activities of the department progress of their ward. Feedback is taken from the parents and based on feedback of the parents possible actions are initiated for the betterment of the disciples. Following activities are carried out keeping the parents in contact: 1. Parent - Teacher Meet (once in semester) 2. Feedback 3. Induction Program (every odd semester) 4. Letters to the parent about progress of their ward</p>
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6.5.3 – Development programmes for support staff (at least three)

<p>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.</p>

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

<p>Following post-accreditation initiatives are taken: 1. Organization of National</p>
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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. Organization of extension activities 7. Facilitating Summer Internship for the student 8. Arranging Continuing Education Programs for the students 9. Applying for NBA Accreditation

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
2019	Organization of National Conference SPARK-19	23/03/2019	23/03/2019	23/03/2019	480
2019	Applying for NBA Accreditation	18/01/2019	18/01/2019	18/01/2019	150
2018	MoU Signed Between Marhachi Tent, Japan and KDKCE, Nagpur	31/08/2018	31/08/2018	31/08/2018	45
2019	MoU signed between Southern Federal University, Taganrog, Russia KDKCE Nagpur	23/05/2019	23/05/2019	23/05/2019	3
2019	Organization of International Conference Expo on "Emerging Trends In Mechanical Engineering" e-Time 2019	05/04/2019	05/04/2019	06/04/2019	180
2018	Organization of International Conference on Multidimensional Role of Basic	14/12/2018	14/12/2018	15/12/2018	168

	Science in Advanced Technology (ICMBAT-2018) at K.D.K. College of Engineering, Nagpur				
2018	Workshop on AUTOCAD Electrical by Live Wire in Association with National Skill Development Corporation (NSDC), Skill India	18/09/2018	18/09/2018	20/09/2018	81
2019	Guest lecture by By Dr Altaf Badar, NIT Warangal on Artificial Intelligence in Power System	11/01/2019	11/01/2019	11/01/2019	110
2018	Expert lecture by Dr. Umesh Deshpande, Professor Head, Department of Computer Science Engineering, VNIT, Nagpur on Artificial Intelligence.	06/09/2018	06/09/2018	06/09/2018	63
2018	Campus Recruitment Training (CRT) Program	05/07/2018	05/07/2018	13/07/2018	45
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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Promotion of Gender Equity among the village community: Promotion of Gender Equity was carried out in nearby Village, Vihirgaon during an Outreach Program	18/09/2018	18/09/2018	196	184
Gender Equity promotion for First Year Students and Parents during conduct of Induction Program	25/07/2018	28/07/2018	152	297
Gender and Literature: Discussion on responsibilities and opportunities available irrespective of gender, and importance of reading good literature, while celebrating Vachan Prerana Din on Dr. APJ Adbdul Kalam Birth Anniversary.	15/10/2018	15/10/2018	163	304
Gender and Education: A Discourse on right to education for all genders was organized during commemoration of Savitri Bai Phule Jayanti.	03/01/2019	03/01/2019	186	175

Gender and Digital World: Interactive session for boys and girls, related to safety while using social media and the digital world and cyber security by API Vilas Mane, Cyber Cell, Ngapur.	20/01/2019	20/01/2019	158	216
Promotion of Gender Equity among the college youth and their contribution towards Nation Building was carried out on celebration of National Youth Day	12/01/2019	12/01/2019	185	146
Safety riding workshop: Safe Riding Workshop was conducted for Boys and Girls of different institutes	27/01/2019	28/01/2019	164	118
Gender Empowerment: Workshop on Self Defense was conducted for girls, as per the need of the hour	22/09/2019	22/09/2019	288	86
Gender Equity through Physical Education: Awareness session was organized on need of physical education for boys and girls, by Dr. Kalpana Jadhav,	13/08/2018	13/08/2018	123	130

Director, Physical Education, RTMNU				
Cancer Awareness Program for boys and girls	09/01/2019	09/01/2019	184	266

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
<p>? Labeling of trees in the campus with their botanical names ? Solar photovoltaic cells with grid system, with Calcutta Electric Supply Corporation commissioned for 150 KW ? Rain Water Harvesting to save 19 lakh liters of rain water under 73,450 square feet roof top ? Fire Fighting equipments for safety against fire ? Bio-Gas Plant for Solid Waste Management (Kitchen Waste) ? Afforestation of the campus to increase Carbon Storage Capacity ? Renewable Energy Lab-Having an installed capacity of 1KW Solar Roof Top. The total load comprises of 362Watt ? Waste paper disposal ? We encourage no plastic use in the campus. Staff and students took oath against the use of single use plastic ? e-Waste Management through reuse of e-accessories ? Projects on Environmental Management, Flood Management, River Management, etc ? Celebration of Environment Day, Earth Day and Water Day ? Use of renewable energy and energy efficient devices to meet the power requirement of the college - • 97.04 through Solar Power • 70 Met through LED Bulbs Besides above, the college organized the following programs for environmental consciousness and sustainability Energy Conservation Campaign Swacchata Abhiyan Tree Plantation Poster Competition on Green Environment</p>

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	3
Provision for lift	Yes	3
Ramp/Rails	Yes	3
Rest Rooms	Yes	3
Scribes for examination	Yes	3
Any other similar facility	Yes	3

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	1	1	05/04/2019	02	International conference and Expo on Emerging	To have interaction and exchange of knowledge	180

					Trends in Mechanical Engineering (e-TIME)	between the industry personnel, faculty and students to share recent innovations for facing the challenges	
2019	1	1	06/02/2019	01	Voting Awareness Campaign (Your Vote-Your Choice)	Importance of Voting for strengthening democracy	300
2019	1	1	25/01/2019	01	National Voters Day	Importance of voting and its awareness among the youth	285
2019	1	1	11/01/2019	02	Electrical Safety Week in association with PWD, Maharashtra	Awareness about electrical safety to save lives and property along with saving energy for environmental sustainability	157
2019	1	1	11/01/2019	01	Psychological Counseling session by Dr. Rakhi Mundhada	Gender based Psychological Counseling of students for confidence building	1600
2019	1	1	09/01/2019	01	Cancer Awareness Program for boys and girls	Cancer and health awareness	450

2019	1	1	03/01/2019	01	Motivatio nal Talk by Nilesh Bharne, Dy. Commi ssioner of police and Shri Pawde, economist	Guidance about law and order	272
2019	1	1	02/01/2019	01	Session on Cyber Security by API Vilas Mane, Cyber Cell, Nagpur	Gender Equity Promotion through i nformatio n about Cyber Security	254
2018	1	1	18/09/2018	01	Outreach Program at Vihirg aon: Extension activitie s	Promotion of Gender Equity among the village community	217
2018	1	1	03/12/2018	01	Internati onal Day of persons with Disa bilities	To achieve success by overco ming the disabilit ies	150

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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 handbook for students	01/06/2018	It includes the responsibilities and behavior of students in the campus, respect to authorities, women, elders and classmates. It advises the students to respect the laws, culture, human and social values and abstain from using drugs and narcotics. The campus is ragging free and students need to submit anti-ragging forms duly signed by them and their parents. It also states the behavior of the

		students in the campus including discipline, abstaining from immoral activities and damaging college property. It clearly mentions, discrimination related to caste, gender and indecency towards women will not be tolerated. It mentions the disciplinary action to be taken for any undesirable activity.
Code of conduct for Staff	01/06/2018	It states the organizational structure and various committees working in the college. It includes service rules, recruitment and promotion policies and employee welfare measures. It states about sponsorship for higher education and encouragement for paper publication and participation in seminars and conferences. It includes the responsibilities and duties of Principal, HOD, Dean, Professor, Associate Professor, Teachers and non-teaching staff.
Code of conduct for managing body	01/06/2018	It states the ethical practices to be followed. It also states about the disclosure of conflict of interest. It mentions the guidance to be extended for the staff and students
UGC Code of conduct for teachers and The Maharashtra Universities Act 2016	01/06/2018	We also follow the guidelines set up as per the UGC code of conduct and The Maharashtra Universities Act 2016.
Core Values	01/06/2018	These are displayed in the institute and on the website

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Cloth Donation Camp: College	27/10/2018	27/10/2018	220

<p>organized a Cloth Donation Camp in association with Zero Gravity Foundation and Agnipankh Foundation. Clothes, Medicines, Sanitary Pads, etc. were collected and donated to the Agnipankh Foundation.</p>			
<p>Street Play on Drug Addiction: College organized a "Drug Addiction Awareness Program" The volunteers passed on invaluable message about ill effects of drugs and to avoid use of Drugs. The act created sensitivity towards universal values and ethics.</p>	01/10/2018	01/10/2018	218
<p>Swacchata Abhiyan: Cleanliness drive was carried out in an around college campus by students and faculty members. This created environmental consciousness and ethical values</p>	25/09/2018	25/09/2018	167
<p>Share Care: KDKCE organized "Share Care" activity to raise funds to financially support the underprivileged students of Jawahar Night School, Nagpur, on the birth anniversary of Sir Vishvesvarya (Engineer's Day).</p>	15/09/2018	15/09/2018	150
<p>Blood Donation Camp: The college organized a "BLOOD DONATION CAMP" in association with Jivan Jyoti Blood</p>	07/09/2018	07/09/2018	240

Bank Nagpur. 240 students staff donated blood. This event created a sense of moral responsibility imbining universal values and ethics.			
Charity Fund for Flood affected Area- Kerala: KDKCE organized "Charity Event" to raise funds for affected people. Medicines, Clothes, Sanitary Napkins, Packaged food, etc. was collected and sent to the flood affected area, thus, promoting human value	30/08/2018	30/08/2018	85
Samvidhan Din: To explain the importance of constitution and the rights, leading to inculcation of universal values and ethics	26/11/2018	26/11/2018	540
Republic Day Celebration: 70th Republic Day was celebrated in the Campus. Students and staffs actively participated with enthusiasm and demonstrated patriotism. Such events create a sense of responsibility and ethics towards the nation and humanity.	26/01/2019	26/01/2019	285
National Voters Day: This day was celebrated to create awareness about the right to vote and explain the power of voting for healthy democracy. This	25/01/2019	25/01/2019	112

definitely inculcates the values and ethics among all.			
Savitri Bai Phule Jayanti Importance of Education and Gender Equity: A Discourse organized during commemoration of Savitri Bai Phule Jayanti. The program was aimed at making the students aware of gender equity and universal values related to it.	03/01/2019	03/01/2019	150
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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

Afforestation of the campus: Continuous tree plantation drive is carried out in the campus to increase the green field and absorb carbon from the atmosphere. This creates a pollution free environment in the campus.
No plastic use: The college has taken steps to reduce the use of plastic. Programs are organized and pledge taken by staff and students to say "NO" to single use plastic. Students are motivated not to use plastic in their project report/ thesis
Use of Alternate Energy: The college has a roof top Solar Power plant, which generates 97 of the total power required by the institute. Thus, alternate energy is generated by solar panels enhancing the environmental sustainability.
Encouragement to use public transport: Students are encouraged to use college bus / city bus for commutation. College runs buses from various parts of the city for the convenience of the staff and students.
Rain water Harvesting: College has an efficient rainwater harvesting system which collects rainwater from the roof top of the building and is accumulated in the wells to be used for gardening and washing purposes.
Solid waste management: College has a solid waste management system wherein, the collected waste segregated as per the nature. The biodegradable waste is collected in the pits for composting and non-degradable is given away to the NMC. The kitchen waste from the hostel is used for manufacture of biogas.
Liquid waste management: The liquid waste in the campus passes through the well managed sewer lines into the Nagpur Municipal Corporation's main sewer line.
E-waste management: The e-waste accessories are repaired and reused.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best Practice - I 1. Title of the Practice: Making Continuous efforts in enhancing the Personality Quotient (PQ) of the students. 2. Goal : • 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 program etc. 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 6. Problems 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. 8. Contact Details Name of the Principal: Name of the Institution: City: Pin Code: Accredited Status: Validity Period: Work Phone: Fax: Website: E-mail: Mobile: 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: principal@kdkce.edu.in Mobile: 094221 15338

Best Practice II 1. Title of the Practice:Organization of National Conference and Paper Presentation competition for students - 'SPARK' 2. Goal :• 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 14 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. 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. 8. 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: principal@kdkce.edu.in 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%20practices18-19.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. Annual social gathering, Navonmesh- Cultural Activities/ Debate/ Quiz/ Rangoli/Mehendi/ Dance/ Drama/ Singing/ Rock Band/ Personality contest/ Nail art/ Antakshari
- 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.
13. Incubation centre is available in the campus for the benefit of students
14. Entrepreneurship development cell is available in the campus and carries out programs for the benefit of students
15. Summer internship for students
16. Projects are conducted in collaboration with industries
17. Professional chapters , like, ICI, IETE, CSI etc.
18. NPTEL chapter is active and staff and students are registering and are completing various online courses.
19. Student activity centre is vibrant and carries out various activities
20. Hobby club for students
21. Facilities like, E-Yantra, Club Robot, Club Auto are available in the campus

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
7. Outreach programs: Blood donation, Cloth donation, books donation, Promotion of gender equity, Awareness about environment and saving energy etc.
8. Crash courses are conducted for students

from rural areas 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/7.2_best%20practices18-19.pdf

8.Future Plans of Actions for Next Academic Year

01. International Conference: Planned for one International Conference for 2019-20 jointly organized by CT, IT and Electronics Engineering Department in the month of March-April 2020 02. Short Term Training Programs (STTP) /Faculty Development Program(FDP): Planned for Seven National level STTPs/FDPs for 2019-20 . 03. Academic Audit Internal: Planned for two internal academic audits in academic year 2019-20 one each in Odd_2019-20 and Even_2019-20 Semesters 04. Organization of Workshops : Planned for Seven Workshops for 2019-20. 05. Organization of Hackathon 06. To start Intellectual property (Patent) Cell (IP Cell) in the College Consultancy Agreement with Intellectual Coolie. 07. To start new program Computer Science and Engineering with an intake of 90. 08. Improving placement of students in terms of packages offered by companies. 09. Submitting Research Proposals to various Funding Agencies 10. Submitting AICTE- AQIS proposals 11. Increase Industry Institute Interaction activities 12. Organization of International Education Fair 13. Institute participation in AICTE-CII Survey to assess the current status of partnership between institution and industry. 14. Increasing the number of environment friendly initiatives by NSS and ensuring participation of maximum students in such initiatives 15. Promoting participation of students and staff in seminars, workshops, sports and cultural activities organized by other colleges/ universities and external agencies 16. Promoting activities such as Yoga, physical exercise, meditation etc. related to development of mental and physical fitness of students, faculty and staff 17. Encouraging faculty members to complete their doctoral degrees and to continue research activities through quality publications and research projects . 18. Participation in Extension Activities like Orphanage Visit, Blood Donation, Book/Cloth Donation Camp, Program on Girls Safety, Participation of Students in NSS/NCC Events. 19. Promote Skilling activities 20. To start Foreign Language courses 21. Enhance Incubation activities 22. Enhance Sponsored Industry based Projects 23. Promoting Entrepreneurship development Programs in Collaboration with ministry of Micro Small Medium Enterprise (MSME) 24. Encourage participation in MOOCS/NPTEL courses 25. To organize Yantrotsav -A National level Robotics Competition