

Annual Quality Assurance Report (2017-18)

Submitted by,

Internal Quality Assurance Cell

KJ Educational Institute's

KJ College of Engineering and Management
Research, Pune Maharashtra

Submitted to

National Assessment and Accreditation Council (NAAC)

Bangalore

December 2018

Part – A

Data of the Institution

(data may be captured from IQA)

1. Name of the Institution:

KJEI'S KJ College of Engineering and
Management Research

- Name of the Head of the institution : Dr.Suhas S. Khot
- Designation: Principal
- Does the institution function from own campus: Yes
- Phone no./Alternate phone no.: : 8446031199
- Mobile no.: 9881196166
- Registered e-mail: principalkjcoemr@gmail.com
- Alternate e-mail : drkhotss@gmail.com
- Address : S No. 25 & 27, Pisoli, Near Bopdeo Ghat, Post- Yewalewadi, Tal: Haveli,
Dist: Pune
- City/Town : Pune
- State/UT :Maharashtra
- Pin Code :411048

2. Institutional status:

- Affiliated / Constituent: Affiliated
- Type of Institution: Co-education/Men/Women: Coeducation
- Location : Rural/Semi-urban/Urban: Rural
- Financial Status: Grants-in aid/ UGC 2f and 12 (B)/ Self financing
(Please specify) Self Financing
- Name of the Affiliating University: Savitribai Phule Pune University ,Pune
- Name of the IQAC Co-ordinator : Prof. Pramod U.Chavan
- Phone No. : 8888890098
- Alternate Phone No.:9860214651
- Mobile:8888890098

- IQAC e-mail address: iqac.coordinator@kjei.edu.in
- Alternate Email address: pramodp.chavan@gmail.com

3. Website address: www.kjei.edu.in

Web-link of the AQAR: (Previous Academic Year): NA

4. Whether Academic Calendar prepared during the year? Yes

if yes, whether it is uploaded in the Institutional website: Yes

Weblink: <http://www.kjei.edu.in/kjcoemr/AC.pdf>

5. Accreditation Details:

Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1 st	B+	2.55	2016-17	from: 27 Nov 2017 to: 26 Nov 2022

6. Date of Establishment of IQAC: (DD/MM/YYYY): 09/10/2017

7. Internal Quality Assurance System

7.1 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
Academic & Administrative Audit	1 year	5 departments

Note: Some Quality Assurance initiatives of the institution are:

(Indicative list)

- Regular meeting of Internal Quality Assurance Cell (IQAC); timely submission of Annual Quality Assurance Report (AQAR) to NAAC; Feedback from all stakeholders collected, analysed and used for improvements
- Academic Administrative Audit (AAA) conducted and its follow up action
- Participation in NIRF
- ISO Certification
- NBA etc.
- Any other Quality Audit

**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
KJCOEMR	Sanshodhan	BCUD,SPPU	2016-2018	150000

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

<http://www.kjei.edu.in/kjcoemr/officeorderIQAC.pdf>

10. No. of IQAC meetings held during the year: 03

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

Yes/No: Yes

(Please upload, minutes of meetings and action taken report)

<http://www.kjei.edu.in/kjcoemr/mom.html>

11. Whether IQAC received funding from any of the funding agency to support its activities during the year? No

If yes, mention the amount: Year:

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

- * Preparation and monitoring of academic calendar as a bench mark for various activities.
- *Continuous assessment of students is carried out to keep the track of students performance.
- * Assignment: Unit wise assignments are given to the students. Stipulated time period is allotted to complete the given assignments.
- * Remedial classes: Remedial lectures are conducted for weak students and students failed in university exam.
- * Improvement in the student's attendance for the lectures through GFM scheme.

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

Plan of Action	Achievements/Outcomes
To impart Quality Education	<p>i) Quality of Assignments and Teaching Aids are enhanced.</p> <p>ii) Infrastructural facilities for better learning environment are improved.</p> <p>iii) Semester wise Academic Data for analysis is collected from HoDs.</p> <p>iv) Feedback is taken from stakeholders for the improvement of teaching-learning processes.</p>
To provide need based teaching	<p>i) Additional revision lectures and practical sessions are conducted.</p> <p>ii) Support from expert guest faculty from industry and academia is taken and guest lectures are arranged.</p>
To encourage staff participation in seminar, workshop and conference.	<p>i) Many Faculty members attended faculty development programs to enhance their domain expertise and knowledge of latest trends.</p>
To alert parents about progress of their wards	<p>i) Alerts of Attendance and performance of students are sent to the parents.</p> <p>ii) Communication with Parents is done through SMS and Letters</p>

14. Whether the AQAR was placed before statutory body? : No

Name of the statutory body: Date of meeting(s):

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

No Date:

16. Whether institutional data submitted to AISHE: Yes

17. Does the Institution have Management Information System?**Yes**

If yes, give a brief description and a list of modules currently operational.

(Maximum 500 words)

The institute has “online generate software” as MIS software.

MIS is the central data depository capable of gathering, storing, analyzing the data and generating the reports. The system has the personal data, exam data and day to day progress of the students to keep the track of their improvements. The institute has online attendance software for the students and the staff. The daily attendance of the students and the faculty/staff is monitored through this software. The working hours of the faculty/staff is calculated through this software. The following reports are generated:

- 1) Daily reports
- 2) Monthly reports
- 3) Salary reports
- 4) Leave report
- 5) On duty report
- 6) Master report

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
All the students start their journey with KJCOEMR by undergoing an Orientation Programme, which was held on 12th June, 2017 for the Sem I A.Y. 2017-18, which paved the students' path to start their journey full of knowledge & enthusiasm.

The well planned curriculum delivery and documentation is explained below:

A. Communication of Vision : Mission and Objectives to stakeholders

Our Vision / Mission well communicated to all stakeholders.

The College Vision, Mission, Objectives are communicated through the following.

- In College Web site www.kjedu.in/KJCOEMR
- Display boards
- Admission Brochure

B. Preparation and distribution of master and class time-tables to students

Time Table has been prepared strictly in accordance with guidelines of SPPU curriculum. The time table and faculty load maintained strictly as per the University credits. Value addition activities are also included in the time table to benefit the students in their career opportunities. Time table is also communicated to all students by pasting it on the Notice Boards and also communicated through CR and by posting on social media.

C. Adoption of diverse pedagogy including case study, role play, video recordings, flipped class technique, group discussion etc.

Debates, Quiz, GD, NPTEL activities have been introduced in relevant fields in connection with the curriculum have been conducted. NPTEL Chapter has been started in A.Y. 2017-18. Faculties have ISTE college level membership for technical exposure.

D. Extent of interaction with industry to enhance employability and entrepreneurial skills:

The department also plan for the industry visit, guest lectures, workshop, seminars and conferences. This helps the students to get to know the work culture at industrial /corporate/relevant organizational places. Summer internships and training is offered to the students as per the curriculum requirement of the University. Personality development curriculum is inclusive of the domains of communication skills, team building activities and cross-cultural sensitivity. Extra time slots was made available for this purpose as reflected in time table. Entrepreneurship workshop was organized by T&P cell in the semester.

1.1.2 Certificate/ Diploma Courses introduced during the Academic year					
Name of the Certificate Course	Name of the Diploma Courses	Date of introduction and duration		focus on employability/ entrepreneurship	Skill development
Nil	Nil	Nil		Nil	Nil
1.2 Academic Flexibility					
1.2.1 New programmes/courses introduced during the Academic year					
Programme with Code		Date of Introduction		Course with Code	Date of Introduction
Nil		Nil		Nil	Nil
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	UG	PG	Date of implementation of CBCS / Elective Course System	UG	PG
Civil	NA	NA	15/6/17	1)Architecture and Town planning 2)Integrated water resources 3)Air pollution and control 4)Construction management	1)Numerical Methods 2)Plastic Analysis 3))Bio Material 4)construction safety practices
Mechanical	NA	NA	15/6/17	1)Energy Audit Management 2)Operation Research 3)Industrial Engineering 4)Finite Element Analysis	1)Financial Management 2)Intellectual Property Rights 3)Robotics 4)Computer aided Engineering-I
Electronics &Telecomm	NA	NA	15/6/17	1)Electronic Product Design 2)Embedded System &RTOS 3) Audio/Video Engineering 4)Wireless N/ws	NA
Computer	NA	NA	15/6/17	1)Data Mining Techniques & Applications 2)Pervasive computing 3)Mobile Computing 4)Business Analytic and intelligence	1) Data Mining 2) Wi-Max 3)N/W Security 4) Information Retrieval and web mining

Electrical	NA	NA	15/6/17	1)Power quality 2) Restructuring & deregulation 3) High Voltage Engineering 4) Smart Grid	NA
Already adopted (mention the year)					
1.2.3 Students enrolled in Certificate/ Diploma Courses introduced during the year					
	Certificate		Diploma Courses		
No of Students	NA		NA		
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
Online Aptitude test			Dec-2017 & March 2018		210
Self defence Training for Girls			9 th Sept 2017		150
1.3.2 Field Projects / Internships under taken during the year					
Project/Programme Title			No. of students enrolled for Field Projects / Internships		
Student training (Technical & Aptitude)			210		
Student Summer Internship Program(COEP internship program under mentorship program)			05		
Industrial Internship			52		
1.4 Feedback System					
1.4.1 Whether structured feedback received from all the stakeholders.					
1) Students	2) Teachers		3) Employers	4) Alumni	5) Parents
Yes	Yes		Yes	Yes	Yes
1.4.2 How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)					
Students Feedback: The feedback is collected at various levels during the academic session. The academic feedback taken every semester twice on online system.					
a. General Feedback: Feedback is taken regarding the general facilities including mess, canteen, general hygiene and cleanliness by means of Complaint box. The actions to problems of urgent /Immediate nature are addressed by the authority immediately. The other problems which require management decisions are put up before the Chairman and also addressed accordingly.					
b. Faculty Feedback: The academic feedback collected from the students having 60% or more attendance is analyzed and the necessary corrective measures suggested to faculties by the director by email. The feedback is also shared with department for any corrective measures.					
Teachers Feedback: Regular feedback from all the faculty members teaching for that current semester is obtained along with the general concern about the students, authorities, parents and alumni in the society. Depending on the need of the institute and students , faculties are deputed for FDPs and other training centers like IITs, NITs, Government aided colleges for enhancing teaching and interpersonal skills. Feedback from faculties about infrastructure, purchase of lab equipment/software's , training and technical workshops as well as cultural and social activities for students , are taken into consideration and					

specific time and budget is allotted for such activities.

As a part of motivation to the faculties, eligible performing faculty members are promoted based on their performance and availability of posts from time to time.

Majority of the staff members are pursuing their PhDs and institute is supporting them by all means and making them comfortable and easy for optimum output.

Parents Feedback: During the academic year, Our College invite parents to come in for regular parent-teacher meet. It is invited in every semester i.e., two parents meets conducted for every academic year. Parents are invited for the meet by teachers thorough call, messages & parents letter. This is a standard part of the college efforts to build a strong partnership between parents and teachers. Whether student is having a positive or negative experience in college, parent-teacher meet will help students & teacher to find ways to work together to ensure students success.

Following data is provided to parents,

- Student's Attendance
- Student's Unit test/Prelim Marks
- Student's Practical Attendance
- Student's punctuality and behaviour throughout semester.

Students and parent's issues are discussed and resolved with GFM, class teacher, HOD & Principal.

Alumni: Every year Alumni meet is organised and Alumni from all batches are invited to share their experiences and exposure in industry.

The alumni of the college who have moved on to industry or for higher studies also give a feedback on how their years in the institution have helped them perform in their places of work/study. The alumni also give constructive suggestions on helping the students achieve greater focus and improving themselves.

Employers Feedback: Employers are considered one of the important stakeholders of engineering education institutions who give more meaning and value to the knowledge, skills and attitude of the graduate's. Hence One's yearly we take feedback from employer of graduates in that we mention technical skills, Communication, Team Work, Problem Solving, Decision Making, Punctuality, etc. points ,if sometimes the feedback is not as per the mark, we arrange the training sessions for improvement of the students.

CRITERION II -TEACHING-LEARNING AND EVALUATION

2.1 Student Enrolment and Profile

2.1. 1 Demand Ratio during the year

Name of the Programme	Number of seats available	Number of applications received	Students Enrolled
UG	540	100	77
PG	96	35	32

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 full time teachers available in the institution teaching only UG	Number of full time teachers available in the institution teaching only PG	Number of teachers teaching both UG and PG

			courses	courses	courses
17-18	1514	48	115	08	128

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 (<i>LMS, e-Resources</i>)	ICT tools and resources available	Number of ICT enabled classrooms	Number of smart classrooms	E-resources and techniques used
130	130	LCD Projector	18	02	NPTEL videos, E-Journals, E Books

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

The main objective of GFM scheme is to build strong teacher-student relation & nurture an environment to grow the talents. Teaching and Learning are the two interconnected processes in imparting quality education. Learning follows teaching and teaching follows learning. Stronger the teaching learning process, stronger the quality education. KJCOEMR has its own unique teaching learning process. The objective of this teaching learning process is to strengthen student's overall skills and to get good university results. Thus, the process enables students to be industry ready. Our teaching learning process begins when the academic year starts. To strengthen the student learning abilities, the students are divided into groups. Each group consists of average 15-20 students guarded by a guardian faculty member. The guardian faculty member interacts with assigned student group at regular intervals and records student details like Attendance, Unit Test Marks, feedback, Problems, learning difficulties, etc. The guardian faculty member takes personal care to improve the student's skill and learning abilities. To improve their communication skills and confidence level, they are provided with a platform to give presentations, participate in group discussions and debates. Thus, we are showing good results in the university examinations. Also, it has been producing university rank holders every year. The training and placement cell conducts necessary training sessions to impart Logical, Interpersonal, Communication and Technical Skills. Through training, students get exposure to new technologies, thereby securing placements in the best industries. Also, we invite Industry experts and academicians to impart knowledge on emerging technologies and industry trends. All the students get academic and personal guidance from Guardian faculty member GFM. GFM assigned to batch of average 15-20 students.

Duties of GFM

1. Conduct meeting in week and analyze performance of students.
2. Monitor academic performance.

3. Convey the performance and attendance to parents.

4. Try to solve any problem related academic and personal.

5. Call parents if the attendance of the students is poor.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor: Mentee Ratio
1562	130	12:1

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
196	130	66	28	09

2.4.2 Honours and recognitions received by teachers

(received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

Year of award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2017-18	Dr. SUHAS S. KHOT	Principal	“EXCELLENCE IN ENGINEERING EDUCATION” given by Pune Municipal Corporation by the hand of Mayor Mrs. Mukta Tilak
2017-18	Dr. SUHAS S. KHOT	Principal	Fellowship of ‘Institute of Electronics & Telecommunication Engineering’ IETE
2017-18	Dr. SUHAS S. KHOT	Principal	“DISTINGUISHED ALUMNI OF COLLEGE” Walchand College of Engineering, Sangli.
2017-18	Prof. MININATH K. NIGHOT	Associate Professor	Awarded Ph.D. in Computer Engineering
2017-18	Prof. Santosh K. Patil	Professor	Awarded Ph.D. in Civil Engineering
2017-18	Prof. Vishal C. Hulsure	Associate Professor	Awarded Ph.D. in Civil Engineering

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
Engineering & Technology	UG	Sem I /17-18	15/12/17	15/02/18
	PG	Sem –I /17-18	30/12/17	15/02/18
	UG	Sem-II/17-18	29/05/18	15/08/18
	PG	Sem-II/17-18	07/06/18	15/08/18

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

1. Institute strictly follows all university exam schedules as per the guideline of SPPU.
2. Evaluation policy is fixed & communicated to students at beginning of an academic year.
3. Based on that exam pattern institute prepare the students through practice session like unit test, mock test, prelim assignment & mock practical session.
4. In semester and online examination results are analyzed and academically weak students are counselled & necessary remedial actions are undertaken.
5. 75% attendance is compulsory to each student. List of students with poor attendance is prepared at the end of each month and the GFM send letters to their parents & highlighting the student's performance.
6. The term work marks are given to the students based on continuous evaluation process with the distribution of marks as shown below

CIE is based on unit tests, preliminary examination, in-semester /online examination & end semester examination

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

1. Being an associated with university, Institute follows all rules and regulation of SPPU as well as their academic calendar.
2. As per the direction of university academic calendar, Institute also prepare academic calendar based on that.
3. Commencement of semester start as per the instruction of SPPU.
4. Two online examination for FE & SE and in-semester examination of TE& BE are conducted as per the guidelines of university, also conduct practical, oral & end semester examination at the end of semester as per the time table of SPPU.
5. Institute also follows holidays given by the university (separate circular for that)
6. The marks of term work, practical/oral examination and in-sem are submitted online to the university.
7. Institute conducts the NSS camp per year as per the guideline of SPPU, in that we involve the students in

NSS activity for the social development of the students.				
8. The academic calendar includes date of commencement of semester, date of conclusion of teaching, dates for unit tests, preliminary examination, feedbacks, etc				
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)				
The institute has clearly stated learning outcomes in terms of Program Educational Outcomes (PEOs) for each program which are achieved through Course Outcomes (COs) in individual departments.				
<u>Sample PEO (E.g. Electrical Engineering):</u>				
Train electrical engineering students to				
- To design, model, analyze and improve performance of the power systems using modern tools and technologies.				
<u>Sample CO (E.g. PSOC):</u>				
At the end of the course, student will be able to				
- Define the dynamics of power system giving emphasis on stability study, various methods to analyze and improve stability of system				
2.6.2 Pass percentage of students				
Programme Code	Programme name	Number of students appeared in the final year examination	Number of students passed in final semester/year examination	Pass Percentage
632037210	E & Tc Engg	36	32	89
632061210	Mechanical Engg	169	129	76
632019110	Civil Engg	110	81	74
632024510	Computer Engg	75	72	97
632029310	Electrical Engg	42	42	100

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)

The Questionnaire are

1) From where you have completed your 12th Education Pune/PuneDist/OHU

2) You have taken admission because of own interest/parents forced/friends

3) How do you know the campus friends/relatives/news advt /others

4) Are you satisfied with the college Yes/Partly/No

5) Where do you stay now Parents/Hostel/Outside room

6) Did you participated in Trinity CET Champ Yes/No/ Don't know

7) Did your Jr. College visited by our KJEI team Yes/No/Don't know

8) What is your aim in life Job/Entrepreneur/Don't know

9) Most liked part of the campus Infrastructure/Faculty/Don't know

10) Immediate improvement required None/Labs/Faculty

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 Academic year
Major projects	---	----	-----	-----
Minor Projects	----	----	----	----
Interdisciplinary Projects	----	----	----	----
Industry sponsored Projects	----	-----	-----	-----
Projects sponsored by the University/ College	2016-2018 (2yrs) (CUDA Accelerating Pattern matching Algorithm using DNA sequence to detect cancer)	BCUD , SPPU	Rs. 1,50,000/-	70,000/-
Students Research Projects (other than compulsory by the College)	----	----	---	
International Projects	----	-----	----	
Any other(Grant sanctioned by SPPU to install renewable energy source in college campus)	2016-2018 (2yrs) Grid Tided Solar System PV System	SPPU	Rs. 5,00,000/-	In Process
Total	02		650000	70000

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(s)
FDP on Research Trends in Computer Domain with Patent Copyright	Computer	29/12/2017 to 30 /12/2017
2 days workshop on Java programming	Computer	27 /02/2018 to 28 /02/2018
Refresher Course on Python Programming by for AI	Computer	03/10/2017
FDP on C programming	Computer	12/01/2018 to 13/01/2018
Zensar ESD	Computer	05/06/2017 to 15/06/17
Android workshop	Computer	30/08/2017
One day workshop on PHP Technology	Computer	19/01/2018
Java Workshop for students	Computer	24/02/2018
Latex workshop	Computer	16/03/2018
IOT workshop	Computer	21/03/2018
Industry interactive session on “Electronic in daily life”	E&TC	22/08/2017
Industry interactive session on “Advance networking & career in IT”	E&TC	21/08/2017
Industry interactive session on “Digital Interfaces for Socio-Economic Development”	E&TC	24/08/2017
Industry interactive session on “PLC & SCADA”	E&TC	21/08/2017
workshop on “Electronic Circuit simulation and PCB Design”	E&TC	16/9/2017
workshop on “Embedded System Design & Simulation”	E&TC	15/9/2017
Six Days Workshop on Autocad	Electrical	5/02/2018 to 10 / 02/2018

Workshop on C Programming	Electrical	12/01/2018 to 13/01/2018
Workshop on PLC & SCADA	Electrical	18/9/2018 to 23/09/2018
Advanced Manufacturing Technology	Mechanical	16/03/2018
Industrial application of Automation.	Mechanical	21/12/2017
Piping Design Engineering and Construction Management training courses.	Mechanical	14/04/2018
Applications of CFD Software and uses.	Mechanical	28/08/2017
Workshop on PCB Design & Implementation	FE	15/03/2018

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

Title of the innovation	Name of the Awardee	Awarding Agency	Date of Award	Category
A Novel system & method to find a target in unknown area using mobile sensor node(MSN)equipped with global positioning System(GPS)	Mininath Kashiram Nighot & Dr. Ashok A Ghatol	IPR, Government of India	Under Process (Application Date 01/11/2017)	Patent
An Automated Smart Cradle System	Madhuri Joshi & Deepak C Mehetre	IPR, Government of India	Under Process (Application Date 24/05/2017)	Patent
Hadoop Framework to Identify Crop Disease	Mr. Kamthe Prashant	Seventh Post Graduate Conference for Computer Engineering	30/03/2018 to 31/03/2018	Best Paper

Optimization of Multipath Routing for Delay and Data Integrity Using Clustering in Wireless Sensor Network	Mr. Abhay Meshram	2017 International Conference on Computing, Communication , Control and Automation (ICCUBEA)	17/08/2017 to 18/08/2017	Best Paper
Identity Based Encryption, Data Self Destruction and Data Integrity Checking with TPA in Cloud Computing	Ms. Chitralkha Jadhav	2017 International Conference on Computing, Communication , Control and Automation (ICCUBEA)	17/08/2017 to 18/08/2017	Best Paper
Precision Agriculture for Banana Using Wireless Sensor Network	Mr. Pujari Shankar	2017 International Conference on Computing, Communication , Control and Automation (ICCUBEA)	17/08/2017 to 18/08/2017	Best Paper
Design of Light Weight Porus Concrete	Pallavi Sutar, Rambhu Mukhia, Shubham Sharma ,Shubham Kadam	Gravity 2K18, K J College of Engineering & Management Reasearch	24/03/2018	Best Model
Seminautomatic Hydrotest Machine	Vnit Udas , Pankaj Sawant, Siddharth Sawant, Ajay Thorat	Gravity 2K18, K J College of Engineering & Management Reasearch	24/03/2018	Poster Presentation
3.2.3 No. of Incubation centre created, start-ups incubated on campus during the year				
Incubation Centre	Name	Sponsored by		
one	KJCOEMR Incubation Centre	KJ infrastructure		
Name of the Start-up	Nature of Start-up	Date of commencement		

Hortical Axis Windmill	Electricity Generation through Wind Energy	1/07/2017	
An Efficient data Encoding Technique By using Quantum Computing	Data Encoding	8/07/2017	
Detection of Potholes, Humps and Measuring Distance between Two Vehicles using Ultrasonic Sensor and Accelerometer	For accident prevention using Ultrasonic Sensor and Accelerometer	10/07/2017	
3.3 Research Publications and Awards			
3.3.1 Incentive to the teachers who receive recognition/awards			
State	National	International	
-----	-----	04	
3.3.2 Ph. Ds awarded during the year (<i>applicable for PG College, Research Center</i>)			
Name of the Department		No. of Ph. Ds Awarded	
NA		NA	
3.3.3 Research Publications in the Journals notified on UGC website during the year			
	Department	No. of Publication	Average Impact Factor, if any
National	---	----	-----
International	Computer	15	2.6
	Civil	01	
	E&TC	01	
	Mechanical	02	
3.3.4 Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year			
Department		No. of publication	
Computer Department		03	
Electrical Department		02	
Civil Department		01	
Mechanical Department		03	

3.3.5 Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or Pub Med/ Indian Citation Index						
Title of the paper	Name of the author	Title of the journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citations
Progressive Collapse Analysis of Seismically Design Low Rise Steel Frame Structure	Atul B. Pujari & Keshav K Sangle	ARPJN Journal of Engineering and Applied Sciences	2018	--	Department of Structure Engineering, VJTI Mumbai, India	--
Detection and Prevention of Black Hole and Selective Forwarding Attack in clustered WSN with Active Trust", Cluster Computing	Deepak C Mehetre, S.EmaldaRoshlin, Sanjeev J Wagh	The Journal of Networks, Software Tools and Applications	2018	--	Computer Science Department, Sathyabama University, Chennai, India	--
Self-Organized hybrid Wireless Sensor	MininathNighot, Ashok Ghatol, Vilas	International Journal of Interactive Multimedia and Artificial	2018	--	SGB Amaravati University, Computer Department,	--

Network for Finding Randomly Moving Target in Unknown Environment	Thakare	Intelligence (IJIMAI)			Maharashtra, India	
Distributed Energy Efficient Tracking in Hybrid wireless sensor network (DEETH)	MininathNighot, Ashok Ghatol, Vilas Thakare	International Journal of Communication Systems (IICS)	2018	--	SGB Amaravati University, Computer Department, Maharashtra, India	--
An automatic irrigation system using ZigBee in wireless sensor network	Pravina B. Chikankar ; Deepak Mehetre ; Soumitra Das	2015 International Conference on Pervasive Computing (ICPC)	2015	31	Computer Engineering Department, K J College of Engineering & Management Research, Pune, India	31
A Survey on energy efficient sleep scheduling in wireless sensor network	AR Pagar, DC Mehetre	International Journal of Advanced Research in Computer Science and Software Engineering (IJARCSSE)	2015	6	Department of Computer Engg, KJCOEMR, Savitribai Phule Pune University, Maharashtra, India	6
Load Balancing for Achieving	RK Ghotekar, DC	International Journal of Innovative Research in	2014	4	--	4

the Network Lifetime in WSN- A Survey	Mehetre	Advanced Engineering (IJIRAE)				
Energy efficient Secured Routing model for wireless sensor networks	Vaishali P. Bawage ; Deepak C. Mehetre	2016 International Conference on Automatic Control and Dynamic Optimization Techniques (ICACDOT)	2016	2	K.J. College of Engineering & Management Research, Savitribai Phule University of Pune, India	2
Wireless sensor network based pollution monitoring system in metropolitan cities	ShwetalRai pure ; Deepak Mehetre	2015 International Conference on Communications and Signal Processing (ICCSP)	2015	2	Computer Engineering Department, Savitribai Phule Pune University, India	2
Improving performance of delay constraint scheduling protocols for wireless sensor network	Pallavi P. Bambal ; Deepak C. Mehetre ; S. EmaldaRos lin	2016 International Conference on ICT in Business Industry & Government (ICTBIG)	2016	1	K.J. College of Engineering & Management Research, Pune, India	1
A Survey on Different	SL Yedage, DC	International Journal of	2014	1	KJCOEMR , India	1

Wake-up Scheduling in WSN	Mehetre	Advanced Computer Research				
Dynamic Data Storage Auditing Services in Cloud Computing	Rakhi Bhardwaj, Vikas Maral	International Journal of Engineering and Advanced Technology (IJEAT)	2013	6	Computer Engineering, K.J's College Of Engineering And Management Research, Pune, India	6
Online student monitoring system using passive RFID	MT Tanpure, Mr Harshad S Sonawane, Mr Chaitanya R Sonawane, MP Ovhal, B Maral	International Journal of Innovative Research on Computer and Communication Engineering	2013	5	Assistant Professor, Dept. of Computer Engg, KJCOEMR, Pune, India	5
Semantic content based image retrieval technique using cloud computing	SJ Karande, V Maral	2013 IEEE International Conference on Computational Intelligence and Computing Research	2013	4	Department of Computer Engineering, KJ College of Engineering and Management Research, Pune, India	4
Implementation of novel web based data extraction using	Jaishree G Waghmare, Vikas B Maral	2016 3rd International Conference on Computing for Sustainable	2016	3	Computer Engineering Department, K J College of Engineering & Research	3

template extraction technique and non information filtering		Global Development (INDIACom)			Management, Pune, India	
Homomorphic encryption for secure data mining in cloud	V Maral, S Kale, K Balharpure, S Bhakkad, P Hendre	International Journal of Engineering Science and Computing	2016	2	Department of Computer Engineering Savitribai Phule Pune University	2
Methodical analysis of various balancer conditions on public cloud division	A Nadaph, V Maral	2015 International Conference on Computing Communication Control and Automation	2015	2	--	2
ANN based semantic Content Based Image Retrieval with distributed processing	SJ Karande, V Maral	2014 International Conference on Contemporary Computing and Informatics (IC3I)	2014	2	Department of Computer Engineering, KJ College of Engineering and Management Research, Pune, India	2
Continental Division of load and	A Nadaph, V Maral	International Journal on Cybernetics & Informatics	2014	2	--	2

balanced ant family (BAF) algorithm for the load balancing on public cloud		(IJCI)				
Text clustering and classification on the use of side information	SS Raut, VB Maral	International Journal of Science and Research (IJSR)	2014	2	Pune University, India	2
Enhancing storage and computational performance of android phones using virtual machine in cloud	J Rakhi, VB Maral	International Journal of Computer Science and Information Technologies	2014	2	Department of Computer Engineering, KJ College of Engineering and Management Research, Pune, India	2
Efficient and secured multi layer data aggregation in mobile sensing	TejashreeB orbande ; VikasMaral	2016 International Conference on Inventive Computation Technologies (ICICT)	2016	1	Department of Computer Engineering, KJCOEMR, Pune, India	1

Regional parting and equipoise distributio n of job on cloud division for public cloud	A Nadaph, V Maral	4th International Conference on Advances in Computing, Communicati on and Control (ICAC3'15)	2015	1	K.J' s Educational Institute, Kondhawa - Saswad Road, Pune - 48, India	1
Secure Data Sharing in Cloud for Distribute d Accounta bility using Patchy Image Encryptio n	SD Taru, VB Maral	International Journal of Advance Research in Computer Science and Management Studies	2014	1	Computer Engineering (Computer Networks) K. J. College of Engineering & Management Research Pune – India	1
A Survey of Semantic Content Based Image Retrieval Techniqu es using Cloud Computin g	S Karande, V Maral	International Journal of Advanced Research in Computer Science and Software Engineering (IJARCSSE)	2014	1	--	1
Automati c text categoriza tion Marathi document	JJ Patil, N Bogiri	International Journal of Advance Research in Computer Science and	2015	17	Professor Department of Computer Engineering (Computer Networks)	17

s		Management Studies			K. J. College of Engineering & Management Research Pune, India	
A survey analysis on duplicate detection in hierarchical data	Shital Gaikwad, NagarajuBogiri	2015 International Conference on Pervasive Computing (ICPC)	2015	5	Department of Computer, KJCOEMR, Savitribai Phule Pune University, India	5
Levenshtein in distance algorithm for efficient and effective XML duplicate detection	Shital Gaikwad, NagarajuBogiri	2015 International Conference on Computer, Communication and Control (IC4)	2015	3	Department of Computer, KJCOEMR, Savitribai Phule Pune University Pune, India	3
Solution To Carpool Problems using Genetic Algorithms	NB Karande, NBogiri	International Journal of Engineering and Techniques	2015	2	Department of Computer Engineering KJCOEMR Pune Pune, India	2
Framework for Web Service composition and invocation	Tejal Ghadge, NagarajuBogiri	2016 International Conference on Automatic Control and Dynamic Optimization	2016	1	KJ College of Engineering and Management Research, Pune,	1

n		Techniques (ICACDOT)			Maharashtra, India	
An automatic irrigation system using ZigBee in wireless sensor network	Pravina B. Chikankar ; Deepak Mehetre ; Soumitra Das	2015 International Conference on Pervasive Computing (ICPC)	2015	31	Computer Engineering Department, K J College of Engineering & Management Research, Pune, India	31
A Survey on energy efficient sleep scheduling in wireless sensor network	AR Pagar, DC Mehetre	International Journal of Advanced Research in Computer Science and Software Engineering (IJARCSSE)	2015	6	Department of Computer Engg, KJCOEMR, Savitribai Phule Pune University, Maharashtra, India	6
Secure and Cost-effective Application Layer Protocol with Authentication Interoperability for IOT	AA Chavan, MK Nighot	Procedia Computer Science, Elsevier	2016	10	Assistant Professor, Department of Computer Engg., KJCOEMR, Pune-, India.	10
Secure CoAP using enhanced DTLS for Internet of things	AA Chavan, MK Nighot	International Journal of Innovative Research in Computer and Communication	2014	8	Assistant Professor, Department of Computer Engineering, KJ College of Engineering and	8

		Engineering			Management Research, Pune, India.	
Vehicle Tracking System using GPS and Android OS	A Dhumal, A Naikoji, Y Patwa, M Shilimkar, MK Nighot	International Journal of Advanced Research in Computer Engineering & Technology	2015	6	--	6
Survey Paper on Vehicle Tracking System using GPS and Android	A Dhumal, A Naikoji, Y Patwa, M Shilimkar, MK Nighot	International Journal of Advanced Research in Computer Engineering & Technology	2014	4	--	4
N-gram classifier system to filter spam messages from osn user wall	Sneha R. Harsule, Mininath K. Nighot	Innovations in Computer Science and Engineering, Springer	2016	2	Department of Computer Engineering KJ College of Engineering and Management Research, Savitribai Phule Pune University , Pune ,India	2
An Energy Efficient and Reliable Location Wise Data	Manisha V. Bhosle ; Mininath K. Nighot ; Somitra S. Das	2015 International Conference on Computing Communication Control and	2015	2	--	2

Aggregation in WSN		Automation				
An agro advisory for pomegranate field using wireless sensor network	Sunil More, Mininath Nighot	2016 International Conference on Automatic Control and Dynamic Optimization Techniques (ICACDOT)	2016	1	KJ College of Engineering and Management Research, Savitribai Phule Pune University, India	1
AgroSearch: A Web Based Search Tool for Pomegranate Diseases and Pests Detection Using Image Processing	Sunil More, Mininath Nighot	Proceedings of the Second International Conference on Information and Communication Technology for Competitive Strategies	2016	1	KJ College of Engineering and Management Research, Savitribai Phule Pune University, Pune, India	1
A Review on Software Architecture Styles with Layered Robotic Software Architecture	P.U. Chavan ; M. Murugan ; P.P. Chavan	2015 International Conference on Computing Communication Control and Automation	2015	6	--	6
Modular Snake	Pramod Chavan ;	2015 International	2015	5	--	5

Robot with Mapping and Navigation: Urban Search and Rescue (USAR) Robot	M. Murugan ; E.V. VikasUnnik kannan ; Abhinavkumar Singh ; Pallavi Phadatare	Conference on Computing Communication Control and Automation				
A STUDY OF PERFORMANCE OF PRE-ENGINEERED BUILDING OF AN INDUSTRIAL WAREHOUSE FOR DYNAMIC LOAD	AR Thorat, SK Patil	International Research Journal of Engineering and Technology	2017	1	--	1
3.3.6 h-index of the Institutional Publications during the year. (based on Scopus/ Web of science)						
Title of the paper	Name of the author	Title of the journal	Year of publication	h-index	Number of citations excluding self citations	Institutional affiliation as mentioned in the publication
Progressive Collapse Analysis of Seismically Design Low Rise Steel Frame Structure	Atul B. Pujari & Keshav K Sangle	ARPJ Journal of Engineering and Applied Sciences	2018	--	--	Department of Structure Engineering, VJTI Mumbai, India

Detection and Prevention of Black Hole and Selective Forwarding Attack in clustered WSN with Active Trust", Cluster Computing	Deepak C Mehetre, S.Emald aRoslin, Sanjeev J Wagh	The Journal of Networks, Software Tools and Applications	2018	3	--	Computer Science Department, Sathyabama University, Chennai, India
Self-Organized hybrid Wireless Sensor Network for Finding Randomly Moving Target in Unknown Environment	MininathNighot, Ashok Ghatol, Vilas Thakare	International Journal of Interactive Multimedia and Artificial Intelligence (IJIMAI)	2018	4		SGB Amaravati University, Computer Department, Maharashtra, India
Distributed Energy Efficient Tracking in Hybrid wireless sensor network (DEETH)	MininathNighot, Ashok Ghatol, Vilas Thakare	International Journal of Communication Systems (IJCS)	2018	4	Distributed Energy Efficient Tracking in Hybrid wireless sensor network (DEETH)	MininathNighot, Ashok Ghatol, Vilas Thakare
An automatic irrigation system using ZigBee in	Pravina B. Chikankar ; Deepak	2015 International Conference on	2015	3	31	Computer Engineering Department, K J Somaiya Institute of Engineering & Management Research, Pune, India

wireless sensor network	Mehetre ; Soumitra Das	Pervasive Computing (ICPC)				
A Survey on energy efficient sleep scheduling in wireless sensor network	AR Pagar, DC Mehetre	International Journal of Advanced Research in Computer Science and Software Engineering (IJARCSSE)	2015	3	6	Department of Computer Engg, KJCOEMR, Savitribai Phule Pune University, Maharashtra, India
Load Balancing for Achieving the Network Lifetime in WSN-A Survey	RK Ghotekar, DC Mehetre	International Journal of Innovative Research in Advanced Engineering (IJIRAE)	2014	3	4	--
Wireless sensor network based pollution monitoring system in metropolitan cities	Shwetal Raipure ; Deepak Mehetre	2015 International Conference on Communications and Signal Processing (ICCSP)	2015	3	2	Computer Engineering Department, Savitribai Phule Pune University, India
Improving performance of delay	Pallavi P. Bambal	2016 International	2016	3	1	K.J. College of Engineering & Management Research,

constraint scheduling protocols for wireless sensor network	; Deepak C. Mehetre ; S. Emalda Roslin	Conference on ICT in Business Industry & Government (ICTBIG)				Pune, India
A Survey on Different Wake-up Scheduling in WSN	SL Yedage, DC Mehetre	International Journal of Advanced Computer Research	2014	3	1	KJCOEMR , India
Dynamic Data Storage Auditing Services in Cloud Computing	Rakhi Bhardwaj, Vikas Maral	International Journal of Engineering and Advanced Technology (IJEAT)	2013	4	6	Computer Engineering, K.J's College Of Engineering And Management Research, Pune, India
Online student monitoring system using passive RFID	MT Tanpure, Mr Harshad S Sonawane, Mr Chaitanya R Sonawane, MP Ovhal	International Journal of Innovative Research on Computer and Communication Engineering	2013	4	5	Assistant Professor, Dept. of Computer Engg, KJCOEMR,Pune,India
Cloud computing—partitioning algorithm and the load balancing	A Nadaph, V Maral	International Journal of Computer Science, Engineering	2014	4	4	Department of Computer Engineering, K.J College of Engineering and Management

algorithm		ing and Informatio n Technolog y (IJCSEIT)				Research Pune
Semantic content based image retrieval technique using cloud computing	SJ Karande , V Maral	2013 IEEE Internatio nal Conferenc e on Computati onal Intelligenc e and Computin g Research	2013	4	4	Department of Computer Engineering, KJ College of Engineering and Management Research, Pune, India
Implementat ion of novel web based data extraction using template extraction technique and non information filtering	Jaishree G Waghm are, Vikas B Maral	2016 3rd Internatio nal Conferenc e on Computin g for Sustainabl e Global Developm ent (INDIACom)	2016	4	3	Computer Engineering Department, K J College of Engineering & Research Management, Pune, India
Homomorph ic encryption for secure data mining in cloud	V Maral, S Kale, K Balharp ure, S Bhakkad , P Hendre	Internatio nal Journal of Engineeri ng Science and Computin g	2016	4	2	Department of Computer Engineering Savitribai Phule Pune University

Methodical analysis of various balancer conditions on public cloud division	A Nadaph, V Maral	2015 International Conference on Computing Communication Control and Automation	2015	4	2	--
ANN based semantic Content Based Image Retrieval with distributed processing	SJ Karande, V Maral	2014 International Conference on Contemporary Computing and Informatics (IC3I)	2014	4	2	Department of Computer Engineering, KJ College of Engineering and Management Research, Pune, India
Continental Division of load and balanced ant family (BAF) algorithm for the load balancing on public cloud	A Nadaph, V Maral	International Journal on Cybernetics & Informatics (IJCI)	2014	4	2	--
Text clustering and classification on the use of side information	SS Raut, VB Maral	International Journal of Science and Research (IJSR)	2014	4	2	Pune University, India

Enhancing storage and computational performance of android phones using virtual machine in cloud	J Rakhi, VB Maral	International Journal of Computer Science and Information Technologies	2014	4	2	Department of Computer Engineering, KJ College of Engineering and Management Research, Pune, India
Efficient and secured multi layer data aggregation in mobile sensing	Tejashree Borbande ; Vikas Maral	2016 International Conference on Inventive Computation Technologies (ICICT)	2016	4	1	Department of Computer Engineering, KJCOEMR, Pune, India
Regional partitioning and equitable distribution of job on cloud division for public cloud	A Nadaph, V Maral	4th International Conference on Advances in Computing, Communication and Control (ICAC3'15)	2015	4	1	K.J's Educational Institute, Kondhawa - Saswad Road, Pune - 48, India
Secure Data Sharing in Cloud for Distributed Accountability using	SD Taru, VB Maral	International Journal of Advance Research	2014	4	1	Computer Engineering (Computer Networks) K. J. College of Engineering & Management Research Pune – India

Patchy Image Encryption		in Computer Science and Management Studies				
A Survey of Semantic Content Based Image Retrieval Techniques using Cloud Computing	S Karande , V Maral	International Journal of Advanced Research in Computer Science and Software Engineering (IJARCSSE)	2014	4	1	--
Automatic text categorization Marathi documents	JJ Patil, N Bogiri	International Journal of Advance Research in Computer Science and Management Studies	2015	3	17	Professor Department of Computer Engineering (Computer Networks) K. J. College of Engineering & Management Research Pune, India
A survey analysis on duplicate detection in hierarchical data	Shital Gaikwad, Nagaraju Bogiri	2015 International Conference on Pervasive Computing (ICPC)	2015	3	5	Department of Computer, KJCOEMR, Savitribai Phule Pune University, India

Levenshtein distance algorithm for efficient and effective XML duplicate detection	Shital Gaikwad, Nagaraju Bogiri	2015 International Conference on Computer, Communication and Control (IC4)	2015	3	3	Department of Computer, KJCOEMR, Savitribai Phule Pune University Pune, India
Solution To Carpool Problems using Genetic Algorithms	NB Karande, N Bogiri	International Journal of Engineering and Techniques	2015	3	2	Department of Computer Engineering KJCOEMR Pune Pune, India
Framework for Web Service composition and invocation	Tejal Ghadge, Nagaraju Bogiri	2016 International Conference on Automatic Control and Dynamic Optimization Techniques (ICACDOT)	2016	3	1	KJ College of Engineering and Management Research, Pune, Maharashtra, India
Secure and Cost-effective Application Layer Protocol with Authentication	AA Chavan, MK Nighot	Procedia Computer Science, Elsevier	2016	4	10	Assistant Professor, Department of Computer Engg., KJCOEMR, Pune-India.

Interoperability for IOT						
Secure CoAP using enhanced DTLS for Internet of things	AA Chavan, MK Nighot	International Journal of Innovative Research in Computer and Communication Engineering	2014	4	8	Assistant Professor, Department of Computer Engineering, KJ College of Engineering and Management Research, Pune, India.
Vehicle Tracking System using GPS and Android OS	A Dhumal, A Naikoji, Y Patwa, M Shilimkar, MK Nighot	International Journal of Advanced Research in Computer Engineering & Technology	2015	4	6	--
GPS Based Distributed Communication Protocol for Static Sensor Network (GDCP)	Mininath Nighot, Ashok Ghatol	Procedia Computer Science, Elsevier	2016	4	4	SGB Amaravati University, Computer Department, 444602, Maharashtra, India
Survey Paper on Vehicle Tracking System using GPS and Android	A Dhumal, A Naikoji, Y Patwa, M Shilimkar	International Journal of Advanced Research in Computer Engineering	2014	4	4	--

	ar, MK Nighot	ng & Technolog y				
N-gram classifier system to filter spam messages from osn user wall	Sneha R. Harsule, Mininath K. Nighot	Innovation s in Computer Science and Engineeri ng, Springer	2016	4	2	Department of Computer EngineeringKJ College of Engineering and Management Research, Savitribai Phule Pune UniversityPuneIndia
An Energy Efficient and Reliable Location Wise Data Aggregation in WSN	Manisha V. Bhosle ; Mininath K. Nighot ; Somitra S. Das	2015 Internatio nal Conferenc e on Computin g Communi cation Control and Automatio n	2015	4	2	--
An agro advisory for pomegranate field using wireless sensor network	Sunil More,Mi ninathNi ghot	2016 Internatio nal Conferenc e on Automatic Control and Dynamic Optimizati on Technique s (ICACDO T)	2016	4	1	KJ College of Engineering and Management Research, Savitribai Phule Pune University, India
AgroSearch: A Web	Sunil More,Mi	Procedin gs of the	2016	4	1	KJ College of Engineering and

Based Search Tool for Pomegranate Diseases and Pests Detection Using Image Processing	ninathNi ghot	Second International Conference on Information and Communication Technology for Competitive Strategies				Management Research, Savitribai Phule Pune University, Pune, India
A Review on Software Architecture Styles with Layered Robotic Software Architecture	P.U. Chavan ; M. Murugan ; P.P. Chavan	2015 International Conference on Computing Communication Control and Automation	2015	4	6	--
Modular Snake Robot with Mapping and Navigation: Urban Search and Rescue (USAR) Robot	Pramod Chavan ; M. Murugan ; E.V. VikasUnnikannan ; Abhinav kumar Singh ; Pallavi Phadatar e	2015 International Conference on Computing Communication Control and Automation	2015	4	5	--

A STUDY OF PERFORMANCE OF PRE-ENGINEERED BUILDING OF AN INDUSTRIAL WAREHOUSE FOR DYNAMIC LOAD	AR Thorat, SK Patil	International Research Journal of Engineering and Technology	2017	4	1	--
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3.3.7 Faculty participation in Seminars/Conferences and Symposia during the year :

No. of Faculty	International level	National level	State level	Local level
Attended Seminars/ Workshops	0	17	9	40
Presented papers	21	0	0	2
Resource Persons	5	2	9	6

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 co-ordinated such activities	Number of students participated in such activities
Rural Development Camp	NSS along with KJCOEMR	6	65
Blood Donation Camp	NSS along with Akshay Blood Bank	5	121

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	No. of Students benefited
NSS Camp Vathar Hinge Tal .Bhor		Recognition	Sarpanch, Vathar Hinge	50
NSS Camp Gunand Tal. Bhor		Recognition	Sarpanch, Gunand	50
3.4.3 Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year				
Name of the scheme	Organising unit/ agency/ collaborating agency	Name of the activity	Number of teachers coordinated such activities	Number of students participated in such activities
NSS	KJCOEMR	Street Play (Organ Donation)	5	30
NSS	WDC KJCOEMR	Women Day Celebration	4	25
NSS	KJCOEMR	Social Awareness	5	50
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
Hackathon 2017		60 50 students 10 faculties	Self	1 Day (15/10/2017)
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-To)	Participant
MOU	Student Summer internship Program	College of Engg. Pune(COEP)	1st June 2018 - 30th June 2018	5

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 and Activities	Number of students/teachers participated under MoUs
Seed Infotech Ltd.	1 st October 2017	Campus connect	208
Digital StarDom Media	1 st July 2017	Institute - industry - interaction (I-I-I)	42
NIMBUS	01/07/2016	I-I-I	01
Dolphin Labs	01/07/2016	I-I-I	44
Sunclips technologies	01/07/2016	I-I-I	02
Infistics Solutions Private Limited	01/07/2016	I-I-I	04
HashTrix Technologies pvt. Ltd.	19/07/2013	I-I-I	55
Zensar Technologies	05/09/2017	I-I-I	40
Elementz Infosystems	01/01/2016	I-I-I	02
Virtue Infotek	17/08/2017	I-I-I	03
Speed Tehserve pvt ltd.	08/08/2017	I-I-I	01
S. V. Mind Logic Systems pvt ltd.	17/08/2017	I-I-I	04
Evisipro Solutions pvt. Ltd.	23/08/2017	I-I-I	01
ApneApps pvt. Ltd.	18/08/2017	I-I-I	20
Pragix Technologies LLP.	12/07/2017	I-I-I	01
Tech Morphs pvt ltd	29/08/2018	I-I-I	02
CADCAM GURU Solutions pvt. Ltd.	06/07/2016	I-I-I	59
Asian Academy of Professional Training	01/06/2017	I-I-I	01

Skywings technology pvt ltd.	01/04/2017	I-I-I	64
Sachin Kadam & Associates	01/07/2016	I-I-I	58
TeamSpringg Engineering Solutions	15/06/2015	I-I-I	01
ni logic Pvt. Ltd.	15/06/2015	I-I-I	02
Shree Surveyors and Loss Assessor	19/07/2016	I-I-I	03
Samruddhi Enterprises	01/01/2016	I-I-I	01
Om Exports	21/06/2016	I-I-I	01
Jannhavi Filters	01/07/2015	I-I-I	02
n-Gen Automation	08/07/2016	I-I-I	02
EKSUN 3D Pvt. Ltd.	04/08/2017	I-I-I	01
Sindhuraj Enterprises	14/08/2017	I-I-I	02
Dentflow Technologies LLP	01/08/2017	I-I-I	01
Helvoet Rubber & Plastic Technologies Pvt. Ltd.,	17/08/2017	I-I-I	03
Surana Mutha Bhansali Developers	04/07/2016	I-I-I	01
Trimurti Developers	13/07/2016	I-I-I	03
EquiCom Structural Consultancy	03/08/2016	I-I-I	02
Shri Basudeo Construction	01/07/2017	I-I-I	02
B. V. Construction	26/08/2017	I-I-I	03
Jaihind Constructions	19/06/2018	I-I-I	07

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				
3 Cr			70 Lacs				
4.1.2 Details of augmentation in infrastructure facilities during the year							
Facilities			Existing		Newly added		
Campus area			43978 sq.m				
Class rooms			46				
Laboratories			60				
Seminar Halls			3				
Classrooms with LCD facilities			16				
Classrooms with Wi-Fi/ LAN			14				
Seminar halls with ICT facilities			01				
Video Centre			00				
No. of important equipments purchased (≥ 1-0 lakh) during the current year.					2 kits of control systems in electrical department		
Value of the equipment purchased during the year (Rs. in Lakhs)					1lakh		
Others (Total Projectors available)			24				
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	
Slim 21		Fully automation		3.5.0.33040		2011	
4.2.1 Library Services:							
		Existing		Newly added		Total	
		No.	Value	No.	Value	No.	Value
Text Books		19050	6372300	554	769375	19604	7141675
Reference Books		736	509789	25	38536	761	548325
e-Books		506	303600	228	136800	734	440400
Journals		291	706360	110	343853	401	1050213
e-Journals		275	562308	275	672319	550	1234626
Digital Database		02	1300	01	550	03	1850
CD & Video		821	123150	83	12450	904	135500
Library automation		01	105000		38238	01	143238
Weeding (Hard & Soft)		Nil	Nil			Nil	Nil
Others (specify)		Nil	Nil			Nil	Nil

4.3 IT Infrastructure									
4.3.1 Technology Upgradation (overall)									
	Total Computer s	Computer Labs	Internet	Browsin g Centres	Com puter Cent res	Office	Departmen ts	Available band width (MGBPS)	Others
Exist ing	665	23	23	01	01	10	06	50	Library with internet facility
Adde d	Nil	Nil	Nil	Nil	Nil	Nil	Nil	20	Nil
Total	665	23	23	01	01	10	06	70	Library with internet facility
4.3.2 Bandwidth available of internet connection in the Institution (Leased line)									
70 MBPS									
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				
Power Point Presentation(UG)=87 Power Point Presentation (PG)=12					www.kjei.edu.in/kjcoemr/student_corner/mediacentre				
4.3.4 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. D.C.Mehetre Prof.N.Bhogiri		KJEIKJCOEMR/Academic			Mobile App			26 th Feb 2018	

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
350000	340814	2450000	2467199
4.4.2 Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (<i>maximum 500 words</i>) (information to be available in institutional Website, provide link) http://www.kjei.edu.in/kjcoemr/supportfacility.pdf			

1. Physical: The maintenance work is allotted to various departments according to its nature. If maintenance work arises then respective department/lab in-charge prepares application & takes approval from respective HoD & Principal, then requirement list forwarded to central store. The institute has appointed staff for specific maintenance work. If requirement is not fulfilled by central store then external agency people are outsourced. The institute has appointed full time housekeeping staff for maintenance & cleaning of washrooms, corridors, premises etc. The minor maintenance of wooden & metal furniture is looked after by workshop department. In campus, unit of trained carpenters for repair of major parts & fixtures. There is a campus team of electricians to look after maintenance of electrical repairs, power supplies, generators etc. The maintenance of electronic appliances like water coolers, air conditioners is taken care by external agency. The yearly or half yearly maintenance is also done. The civil maintenance is looked after by campus team.

2. Academic: The maintenance of equipment in laboratories is looked after by respective lab assistants with help of lab in-charge. In the beginning of every semester it is ensured whether all instruments are in working condition. The maintenance of computer & related hardware, software's is taken care by technical assistant team of computer department. Again major issues are sorted out by outsourcing external agency.

3. Supporting Facilities: Garden with good plantation has been initiated to maintain eco-friendly environment. There are lots of green trees in campus, giving lot of shade & pleasant appearance. The institute takes up calibration and other precision measures for the equipment/instruments regularly. The working of equipment in laboratory is checked in beginning of every semester as per the user manual provided. The laboratory equipment are maintained and calibrated through budget allotted for the same to the respective department as per standard procedure recommended by the vendor/supplier. The calibration of selective equipment is undertaken periodically by the respective departments through lab in-charges. In case of any major issue the vendor/external agency looks after the maintenance. The Institute has a team of qualified & experienced technical staff for maintaining computers and networking facilities. Some of the members are identified for the same and it is ensured that they are available at short notice. The upkeep and maintenance of sensitive equipment is done regularly. Operational guidance and working of every machine or equipment is displayed on the laboratory notice boards for safe operation. With the help of generators, UPS a stable power supply is given all over the campus without disturbing the regular system. As per requirement from laboratories, single phase & 3 phase connections are provided. To control voltage fluctuations stabilizers are installed. The senior electrician and the supporting staffs are in-charge for the maintenance and upkeep of electrical equipment. To avoid any electrical accidents, electric and electronic devices are maintained. CCTV cameras are installed at relevant spaces for security purpose. ATM facility is available in campus. Photocopy centre available in campus. Fire extinguishers are installed at prominent locations in the campus and are checked periodically.

CRITERION V - STUDENT SUPPORT AND PROGRESSION

5.1 Student Support

5.1.1 Scholarships and Financial Support

	Name /Title of the scheme	Number of students	Amount in Rupees
Financial support from institution	Govt. Of Maharashtra	1075	Rs 53389298 /-

Financial support from other sources			
a) National	KJEI	10	Rs 373260/-
	Persistent	8	Rs 320000/-
	Leela Poonawala	2	Rs 50000/-
	Cybage	2	Rs 40000/-
	Gate (Wani Institute)	40	Rs 200000/-
b) International	----	----	----

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
Remedial Coaching	01/06/2017 to 30/07/2018	522	KJCOEMR
GFM (Mentoring)	01/06/2017 to 30/07/2018	1514	KJCOEMR
2 days workshop on Java programming	27 /02/2018 to 28 /02/2018	55	Seed Infotech
Refresher Course on Python Programming by for AI	03/10/2017	55	Apane Apps
Amazon pre-placement Talk	10/01/18	55	Amazon
Quantitative Aptitude training	15/09/17 to 19/09/17	55	Gyandarshan Development Center
Soft skill	05/07/17 to 08/07/17	55	Anulomya
Zensor ESD	05/06/2017 to 15/06/17	55	Zensor Technologies

Mock GATE preparation	23/01/18	35	Wani Institute
Workshop on Programming in C	12/1/2018 to 13/1/2018	60	Seed Infotech
Workshop on PLC	18/9/2017 to 23/9/2018	42	Sachin Kadam & Associate
Workshop on Autocad	5/2/2018 to 10/2/2018	60	Apex Technologies
Yoga day	21/6/2018	150	KJCOEMR
Advanced Manufacturing Technology	16/03/18	65	KJCOEMR
Industrial application of Automation.	21/12/17	50	KJCOEMR
Piping Design Engineering and Construction Management training courses.	14/04/18	75	KJCOEMR
Applications of CFD Software and uses.	28/08/17	60	KJCOEMR
Personality Development Program.	10/09/17	110	KJCOEMR
How to get success by a UPSC aspirant.	12/10/17	70	KJCOEMR
Industry interactive session on “Electronic in daily life”	22/08/2017	44	KJCOEMR
Industry interactive session on “Advance networking & career in IT”	21/08/2017	42	KJCOEMR
Industry interactive session on “Digital Interfaces for Socio-Economic Development”	24/08/2017	39	KJCOEMR

Industry interactive session on “PLC & SCADA”	21/08/2017	46	KJCOEMR
workshop on “Electronic Circuit simulation and PCB Design”	16/9/2017	28	KJCOEMR
workshop on “Embedded System Design & Simulation”	15/9/2017	27	KJCOEMR
Workshop on Introduction to Japanese language	15/9/2017	68	KJCOEMR

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 by Guidance for Competitive examination	Number of benefited students by Career Counselling activities	Number of students who have passed in the competitive exam	Number of students placed
2017-18	MPSC, UPSC	47	620	02 (Gate)	02

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	No. of grievances redressed	Average number of days for grievance redressal
Nil	Nil	Nil

5.2 Student Progression

5.2.1 Details of campus placement during the year

On campus			Off Campus		
Name of Organizations Visited	Number of Students Participated	Number of Students Placed	Name of Organizations Visited	Number of Students Participated	Number of Students Placed
Civil 1. JAIHIND CONSTRUCTION	71	7	K J Infrastructure Projects (I) Pvt. Ltd.	22	3

2. AMAZON DEVELOPMENT CENTER INDIA PVT.LTD.	16	2 1	Shinde Developers Pvt.Ltd.	32	7
3. Innovative Vastunirman Private Limited Placement Drive					
Comp. 1. Zensar 2. Amazon India 3. NEHILINT	55 55 55	3 7 7	INFOSYS PERSISTANCE Syntel	55 55	3 1 3
E&TC 1. Eazyfarm Agrotech 2. Amazon India	36 36	5 4			
Mech. AMAZON		2	TEFCON BEARING PVT LTD Hyundai motors Mentoria company Asian Colour Coated ispat ltd		3 1 1 2
5.2.2 Student progression to higher education in percentage during the year					
Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of Programme admitted to

2017-18	2	BE	Civil	KJCOEMR, Pune.	(ME)Structural Engg.	
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		No. of Students selected/ qualifying		Registration number/roll number for the exam		
GATE		02		CS18S32106117		
5.2.4 Sports and cultural activities / competitions organised at the institution level during the year						
Activity	Level		Participants			
Kabaddi	Institutional		28			
Cricket	Institutional		90			
Football	Institutional		70			
Chess	Institutional		09			
Carrom	Institutional		15			
Badminton	Institutional		08			
Volleyball	Institutional		10			
Box Cricket	Institutional		30			
Dance	Institutional		20			
Fashion Show	Institutional		08			
Singing	Institutional		04			
Anchoring	Institutional		06			
Drama	Institutional		15			
5.3 Student Participation and Activities						
5.3.1 Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)						
Year	Name of the award/ medal	National/ International	Sports	Cultural	Student ID number	Name of the student
2017-18	Persistent Girls Scholarship	National			17C1540062(PRN -71839097M)	Miss Diveja Diwakar More
2017-18	Persistent Girls Scholarship	National			17C1820041(PRN -71839284B)	Miss Pratiksha Raut
2017-18	University 3 rd Rank	University	University Intercollegiate Competition			Team KJCOEMR (Mr. Ajinkya Akhade)
2017-18	Winner	Intercollegiate Tournament	KJ Karandak			Team KJCOEMR (Mr. Ajinkya Akhade)

2017-18	Runnerup	Intercollegiate Tournament	Rajveer Trophy			Team KJCOEMR (Mr. Ajinkya Akhade)
2017-18	Rugby Association of Maharashtra	National	Rugby		17C1540062(PRN -71839097M)	Miss Diveja Diwakar More

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

The objective of the student council is to develop the career, personality and organizational skills through extracurricular, co-curricular activities. The platform provides opportunity to the student community to express their opinions about the institute and recommend the suggestions as per their expectations. Also, it acts as a link between institute administration and students. Student council has opportunity to represent the institute at the university level to put up and address student's problem and expectations. The student council plays a vital role in organizing annual events like annual social gathering and annual technical fest. The activities of student council include

- 1) To organize national level technical competition "Gravity 2K17"
- 2) To organize the institute level annual events KJ Youth Fest this includes cultural event MALHAR, sports event MAIDAN and technical event YANTRA.
- 3) Celebration of National days like Independence day, Republic day etc., to develop sense of nationalism and tribute to the nation.
- 4) To celebrate Teacher day, Engineers day, Yoga and Pranayam day etc to keep friendly and spirited environment through departmental administrative association bodies.
- 5) To organize blood donation camp, tree plantation, road safety programs, street plays, NSS camp etc. To inculcate social awareness.
- 6) Student council provides all logistic and procedural support to organize all events at institute level and also involved to give wide publicity to all events in the neighbouring institutes.

5.3 Alumni Engagement

5.3.1 Whether the institution has registered Alumni Association? Yes/No, if yes give details (maximum 500 words): Yes

8th July 2017. Interaction of placed alumni with current students. The interaction meeting program of placed Alumni student with current student was organized at K J College of engineering and management research, Pune at 10.00 am on 8th July 2017. The invitation to be placed alumni students of the different departments was send by calls and emails by the staff member in advance for their valuable presence. Total 25 selective alumni students were the chair person in the auditorium which made their presence a grand success of the whole function. Third year student's coordinators and all the staff including alumni coordinator supported for the whole program. Dr. Suhas S. Khot, Principal, K J College of engineering and management research, Pune welcomes the alumni students and congratulated them for their achievements of the professional carrier. Hon. Shri.

Kalyan Jadhav, Founder President, KJEI, Mr. Vinod Jadhav, Treasurer KJEI, Dr. Hemant Abhyankar, Executive Director, KJEI was also present for this grant event. The alumni students shared their professional experience along with question-answer session. The department wise interaction with current students was arranged followed by lunch. Suggestions for the development of the institute were given by alumni through their feedback.

2) 2nd Sept 2017. Interaction of alumni with Industry Person The interaction meeting program of placed Alumni student with current student was organized at K J College of engineering and management research, Pune at 10.00 am on 2nd Sept 2017. The invitation to be placed alumni students of the different departments was send by calls and emails by the staff member in advance for their valuable presence. Total 14 selective alumni students were the chair person in the auditorium which made their presence a grand success of the whole function. Third year student's coordinators and all the staff including alumni coordinator supported for the whole program. Dr. Suhas S. Khot, Principal, KJ College of engineering and management research, Pune welcomes the alumni students and congratulated them for their achievements of the professional carrier. Hon. Shri Kalyan Jadhav, Founder President, KJEI, Mr. Vinod Jadhav, Treasurer KJEI, Dr. Hemant Abhyankar, Executive Director, KJEI was also present for this grant event. The industry person sheared their knowledge with alumni students. In this event, how actually industry looks towards the engineer and their skills for development and growth of the industry. The alumni students know after this program that they should required enhancing their knowledge and skills.

5.3.2 No. of registered enrolled Alumni: 446

5.3.3 Alumni contribution during the year (in Rupees) : 620000

5.3.4 Meetings/activities organized by Alumni Association :

8 th July 2017	Interaction of placed alumni with current students	No of Alumni students= 25
2 nd Sept 2017	Interaction of alumni with Industry Person.	No of Alumni Students = 14

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)

Two Practices

1. Gravity 2K18

“Gravity 2K18” 4th National Level Project and Poster Expo for Engineering and Diploma Students conducted on 23rd and 24th March 2018 in KJEI Campus, Pune. The objective of the National Project competition was to provide a common platform to the students to exchange innovative ideas in the field of

Engineering and Polytechnic. The Project expo was organized under the following broad themes Computer, IT, E&TC, Electrical, Mechanical and Civil Engineering.

The Chief Guests invited were Mr. Dhananjay Diwan, Head Corporate Training and Dr. Prakash Kajave, Sr. Manager –Tech Mahindra, Pune. Both have a rich experience for more than two decades in varied fields of data analysis and software. They enlightened all the participants with their motivational words regarding the opportunity for innovative Engineer and wide scope in Entrepreneurship. The Guest of honours invited were Mr. Harish Butle who is a Cofounder and Director at DEEPER, Mr. Wang Hong who is a Cofounder at Finnovation Tech Solutions Pvt. Ltd., Mr. Prashant Karandikar who is Director at Oha Solutions, Prof. S K Khedkar, IETE Pune

More than 1100+ students from various Engineering colleges and Polytechnic in and around Pune participated in the event. Team Gravity is sincerely thankful to Management, Directors and all HOIs, for their constant support.

Gravity Best Project Winner from

1. Diploma – IOT Based Fuel Monitoring System for future vehicles, Computer Engineering, SVCPP – Sinhgad, Pune and
2. Degree – Design of Compressing Dusbins (Smart Bin), Mechanical Engineering, TCOER, Pune.

Participants were greatly benefited from the cash Prizes (Rs. 61,000), Best Concept Awards (Trophy and Certificate) and Best Project Award Cash Rs 20,000.

2. INFOSYS Drive

KJEI – KJCOEMR has organized Infosys Placement drive for 2017-18 batches. We hosted two drives of INFOSYS.

- The first drive we arranged on 7 & 8 March in which 2500 students from all over India attended. KJEI 17 students appeared for the Drive. 85 students were offered Job from Infosys
- The 2nd drive we arranged on 11 & 12 April in which 3500 students from all over India attended. KJEI 52 students appeared for the Drive.

125 students were offered Job from Infosys.

Mr Sudhindra Purohit KJCOE Comp-2016, Abhishek Dev- KJCOE Comp 2017, Rishabh Shukla KJCOE Comp 2018 got offer from INFOSYS.

Ms. Jaspreet Kour has lead the Team of HR panel from INFOSYS Each drive was formulated by 45 HR panel members from INFOSYS.

The Recruitment process was as follows:

- 1] Online referral registration.
- 2] Pre placement Talk at KJEI Auditorium
- 3] Online Aptitude Test – Elimination round

4] Technical Interview

5] HR Interview

6] Offer / Result

This way we work in social interest for Employment of Engineering students.
All leading media has given media News of Infosys drive

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

Yes/No/Partial: **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):

❖ Curriculum Development

- The institution follows the curriculum prescribed by affiliating university, Savitribai Phule Pune University (SPPU). The semester planning is done in advance, at the end of previous term through the departmental meeting by floating the curriculum to the faculty. The choice of 3 subjects is taken from every faculty. The subject allocation is done on the basis of the priority of the faculty from the choice given, area of specialization, qualification, number of times the subject taught and experience. The students are also informed in advance about curriculum and academic calendar.
- The students are given a choice to choose the elective subjects listed in the university curriculum and accordingly departments allocate the faculty for teaching the electives. Regular feedback is taken by the Head of Department for all the subjects at regular intervals both in online and offline mode and suggestions for corrections, if any will be informed to the faculty.
- The academic calendar is prepared by various departments on the basis of academic calendar circulated by SPPU. Class tests, mock online tests and remedial lectures are also included in academic calendar. The individual faculty and class time tables are prepared by the department time table coordinator with the approval of HOD and Principal.
- Faculty prepares the teaching plan for the theory and practical subjects allocated to them by considering department academic calendar. Every faculty prepares a detailed course file which includes teaching plan, class notes, question banks, previous question papers of SPPU, study material beyond curriculum, PPTs. The academic calendar of the institute is strictly followed by every faculty. The Academic Monitoring Committee (AMC) which work and act as IQAC committee of the institute monitors regularity in the conduction of lectures, progressive syllabus coverage, students' academic progress and their grievances. The feedback of the committee is conveyed to HOD for corrective measures.
- In the process of monitoring the attendance of the student, faculty maintains a daily attendance sheet of theory/practical in hard copy. Weekly attendance is collected by the Guardian Faculty Members (Mentor) of the respective batch. Regular absent students are identified by the mentors and the same is informed to

the parents through telephonic conversation, SMS alert or if required by post.

- The academic progress of student is also monitored by Guardian Faculty Members by keeping a record of class tests, mock online tests, in semester University examinations, performance in practical and conveyed to all the students as well as their parents. The corrective measures such as remedial lectures, mock examinations of theory and practical, personal counselling are taken for academically weak students.
- Student feedback of every faculty is taken at the end of first month in every semester. The department head assesses the feedback and conveys it to respective faculty for corrective measures if any. The academic monitoring committee of the department counsels the faculty concerned and reports the action taken to Principal.
- The planning for student project and seminar work is done at the beginning of every semester where the students as per their specific areas of core subject interest are allocated to guides who are specialized in those areas. In addition to in-house projects, students are also encouraged to take up projects in collaboration with industries. Furthermore, if there are ongoing research projects sanctioned by various organizations, the students are encouraged to pursue research as part of their projects.

❖ Teaching and Learning

Quality improvement in teaching & learning is achieved by scrupulously following the academic calendar and processes laid down by the University and the institute. The academic steps broadly comprises of:

- Published time-table with sufficient number of hours for lectures, labs, self-learning and extra-curricular activities.
- Tutorial classes to address personal level doubts and queries
- Remedial classes and additional make-up tests to help academically weaker students
- Mentoring system to help at individual levels
- Generation of self-learning facilities, and availability of materials for learning beyond syllabus.
- Contents beyond the syllabus have been identified in all the courses, which are addressed through guest lectures, industrial visits, seminars and projects
- By participation and organization of Technical events
- Through Innovative Live projects
- Students are motivated to refer to reference books, on- line/ hard copies of reputed journal papers for Self Learning and contents beyond syllabus.
- Free access to library and internet even after College hours.
- Lectures are recorded by the teachers and processed through K-Point software available with the institute.

These are available to the students through the website siom.kpoint.com for study beyond college hours.

- Besides, in Department Library, several CDs/ charts/guideline books are available.
- Students are also encouraged to take up spoken tutorials made available on-line by IIT Bombay By having Flexibility in academics with scope for self-learning
- Wider Scope for selection of Electives
- Motivation for participating in technical activities
- In plant Industry Training These practices help in broadening and stimulating the students' thinking process and ultimately improving the quality of teaching – learning process.

❖ Examination and Evaluation

The institute is keen in adopting dynamic changes in the evaluation reforms initiated by the University and on its own. It conducts all the SPPU examination as per its schedule. The institute has taken following measures for the effective implementation of the evaluation reforms introduced by the University.

For FE and SE: Online examinations

The effective implementation of the online examination is ensured by way of display of online examination timetable, appointment of eligible internal supervisors and use of CCTV cameras for monitoring of online examinations

For TE and BE: In-sem examinations:

Execution of In semester examination is carried out in following steps

- In-semester examination is carried out as per SPPU timetable.
- In-semester and End semester examination question papers are set by SPPU appointed examiners.
- Junior supervisors are appointed for invigilation
- Masking of papers and Central Assessment of answer Papers (CAP) is conducted at college level for fair assessment of papers. End semester examination: For smooth conduction of University theory examination,

For FE,SE,TE and BE- End sem examinations

- Appointment of examiners is done by SPPU
- Proper display of examination timetable
- End semester examination question papers are set by SPPU appointed examiners
- For smooth conduction of University theory examination, Senior Supervisor is appointed who looks after overall conduction of the examination. Junior supervisors are appointed for invigilation

Term Work/Practical/Oral examination • Final year term work is jointly evaluated by internal and external

examiners • The marks of term work, practical/oral examination are submitted online to the University by using a unique username and password generated by a system

❖ Research and Development

The institute encourages the faculty to apply for funded projects, to collaborate with research organizations for UG and PG projects, to participate in seminars and conferences as well as organize them, to publish their research work, to enrol for doctoral programs and to become members of and participate in the activities of professional bodies in their respective fields.

- Conferences and Seminars are organized by the Departments to attract researchers of eminence to visit the campus and interact with teachers and students. While organizing workshops, the focus is on imparting advanced technology, tools and techniques and research areas in the subject domain of the program. Such programs are funded by the Institute.
- Publication of research outcomes by faculty in different International and National refereed journals, books, articles in edited volumes, seminar proceedings etc. is encouraged.
- Internet, LAN and journal and e-journal subscription is made available to the faculty by the institution to facilitate smooth progress and implementation of research schemes/projects
- The Institute encourages and helps the faculty in filing patents for their research
- The Institutes promotes the faculty to associate with industry for their research project

❖ Library, ICT and Physical Infrastructure / Instrumentation

Institute has sufficient infrastructure and state-of-the-art laboratories in every department as per the AICTE norms for quality TLP and R&D. The campus is supported with hostel for boys along with the necessary facilities. Classrooms are equipped with LCD projector facility. The computing facility within the campus is supported by LAN, high speed internet connectivity with Wi-Fi facility. The institute library consists of 6308 reference books and 19546 volumes along with e-journals. The reading hall facility is available for all the students. Library with computing and internet facility gives easy access to Science Direct, IEEE, ASME, ASCE and SPRINGER.

Institute encourages the students to participate in various sports tournaments. Students avail indoor sports facilities in the campus. A platform has been provided to the students to experiment their innovative projects while participating at national and international competitions. Cultural activities of the students are also encouraged in the institute by providing them financial and infrastructural support.

The institute has standby arrangement of 500 kVA Diesel Generator (DG) to satisfy the need of electric power at the institute. The institute has a committee to supervise the maintenance of the equipment and computing facilities of the institution.

❖ Human Resource Management

The Institute has the following mechanisms for better management and improvement in Human Resource:

- The performance of the teaching faculty is regularly monitored and evaluated at the department level through feedback from students and other stakeholders. Based on the feedback corrective measures are implemented for managing and improving the overall performance of the teachers.
- These activities are monitored centrally and effectively to utilize the available manpower with the institute. The Non-teaching staff is involved in supporting all the above activities.
- Visiting/guest faculty is inducted as per the necessity.
- Support for professional development of staff is provided by the institute.
- Recruitment of well qualified and experienced faculty as per SPPU norms.
- The Institute has a budget allocated for the professional development of the faculty for supporting activities like participating in paper presentation, seminars, conferences, workshops, etc. and for programs aimed towards the skill improvement of staff.

The good retention ratio of the faculty indicates that best human resource management policies are practiced in the institute.

❖ Industry Interaction / Collaboration

A good industry-institute interaction exists in the institute. To further strengthen it, the institute aims to

- Have more number of industry sponsored projects
- Increase the number of consultancy projects
- Increase training programs for teachers
- Have guest lecturers delivered by eminent industry personnel
- Have short term training programs conducted by industry personnel for students and faculty
- Increase the number of MoUs
- Increase the participation of industry in laboratory development.
- Establish centre of excellence in collaboration with industries
- Conduct Industrial Visits and site visits regularly

❖ Admission of Students

Institute has mechanism to review the admission process and student profiles annually. Though, DTE governs the Engineering admission process in the state and the institute follows rules, regulations and guidelines set up by the GoM, we usually compare our FE student's admissions branch wise in terms of number of admissions and quality of students that are taking admissions. Considering the lesser admissions in the state, KJCOEMR takes keen interest in making name and fame of the institute by means of advertisements and participating in educational exhibitions all over India.

The admission information is also available on institute website <http://www.kjei.edu.in/kjcoemr/>. On-line registrations and counselling during educational exhibitions is the modern time improvements and has become part of admission process. As a result, our admissions are good in terms of quantity and quality since inception of the institute.

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

- ❖ Planning and Development
- ❖ Administration
- ❖ Finance and Accounts
- ❖ Student Admission and Support
- ❖ Examination

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
2017 -18	Prof. Puja Chaudhari	8 th National Power Electronics Conference 2k17 organized by COEP	NA	1000
	Prof. PoojaKherdikar	8 th National Power Electronics Conference 2k17 organized by COEP	NA	1000
	Prof. D. C. Mehetre	International Conference on Emerging Technologies in Data Mining and Information Security	NA	1500
	Prof. D. C. Mehetre	International Conference on Computing, Communication, Control and Automation, ICCUBEA 2017	ICCUBEA	800
	Prof. V. B. Maral	Innovations in Computer Science and Engineering	NA	1000
	Prof. V. B. Maral	2nd IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT)	IEEE	1500
	Prof. NagarajuBogiri	International Conference on Computing, Communication,	ICCUBEA	800

		Control and Automation, ICCUBEA 2017		
	Prof. M. K. Nighot	International Conference on Computing, Communication, Control and Automation, ICCUBEA 2017	ICCUBEA	800
	Prof. J. M. Nighot	International Conference on Computing, Communication, Control and Automation, ICCUBEA 2017	ICCUBEA	800
	Prof. Madhuri Deore	8 th National Power Electronics Conference	NA	1000
	Prof. Vivek Ghanekar	8 th National Power Electronics Conference	NA	1000
	Prof. H. V. Shinde	2 nd International Conference on Materials, Manufacturing & Design Engg., Dr. BATU, Lonere	NA	800
	Prof. C. M Gajare	MECHPGCON 2018, PCCOE, Pune.	NA	900
	Prof. G. S. Patil	MECHPGCON 2018, PCCOE, Pune.	NA	900
	Prof. C. M Gajare	International Journal of Social & Scientific Research	NA	900

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	Dates (from-to)	No. of participants (Teaching staff)	No. of participants (Non-teaching staff)
2017-18	Faculty Development Program on Aspiration	NA	07 th June – 09 th June 2018	34	NA

Management				
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		Date and Duration (from – to)	
Faculty Development Program on Aspiration Management	34		07 th June – 09 th June 2018	
FDP on Network Analysis & Synthesis	01		07 Dec. to 10 Dec. 2017	
SPPU Sponsored state level FDP on Embedded Control for Power Electronics Applications 2k17	01		27 Dec. to 28 Dec. 2017	
Syllabus Revision Workshop Organized by SPPU	01		Jan. 2018	
MATLAB Expo	02		21 April 2018	
DIPEX – 2018	02		10 March to 13 March 2018	
A Panel Discussion on “Academic Projects & Industry Trends”	01		13 March 2018	
Best Academic Practices in Engineering Colleges: From Quality to Excellence – A COEP Case Study	02		10 to 14 Oct. 2017	
Foundation Course on Human Values & Professional Ethics	01		27 Nov. to 02 Dec. 2017	
Image processing Applications and Hands on	03		27 Nov. to 01 Dec. 2017	
Training Program on Cyber Security	01		27 Nov. 2017	
Indian Patent Drafting and Filing Procedure	01		08 Nov. to 09 Nov. 2017	
Deep Learning and Image Processing- Hands on	01		11 Dec. to 16 Dec. 2017	
FDP on Research Trends in Computer Domain with Patent Copyright	17		29 Dec. to 30 Dec. 2017	
FDP on “Business Management”	01		14 Dec. to 16 Dec. 2017	
FDP on “Employability Skill And Mini Project”	01		14 Dec. to 16 Dec. 2017	
FDP on “System Programming And Operating System”	01		14 Dec. to 16 Dec. 2017	
FDP on “Advance Processor”	01		14 Dec. to 16 Dec. 2017	
Workshop on “Development of mechatronics systems using arduino- a project based learning approach”	01		18 Aug. to 20 Aug. 2017	
FDP on “Power Electronics”	01		14 Dec. to 16 Dec. 2017	
Foundation Course on Human Values &	01		27 Nov. to 2 Dec.	

Professional Ethics		2017
Advanced Techniques in Vibration & Sound Measurement	01	11 to 15 Dec. 2017
Recent trends in Micro & Nanotechnology	01	6 to 10 Nov. 2017
Recent Trends & Challenges in Material & manufacturing Processes	01	13 to 23 Nov. 2017
Computational Fluid Dynamics for Beginners	01	20 to 20 Nov. 2017
Two Week FDP on Scope of Metallurgical Process & Material Testing of Advanced Material	03	11 to 23 Dec. 2017
Competitive Manufacturing	01	11 to 23 Dec. 2017
Workshop on Effective thesis Writing & Research Methodology for Researchers/P. hD. Aspirants	02	31 Oct. to 4 Nov. 2017
Workshop on How to draft Research Proposal	01	31 Aug. 2017
Workshop on Research Proposal, Paper, IPR & Patent Drafting	02	08 Dec. to 09 Dec. 2017
3-day FDP for Student Induction Programme held at Christ Institute of Management	02	27 June to 29 June 2018
One week" Faculty Development program "organised by NPIU in Collaboration with COEP Under TEQIP-III.	04	27 Nov. to 02 Dec. 2017
Recent Trends in application of Mathematics in Engineering and Sciences	04	04 Jan. to 05 Jan. 2018

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

Teaching		Non-teaching	
Permanent	Fulltime	Permanent	Fulltime/temporary
67	64	10	36

6.3.5 Welfare schemes for

Teaching	Provident Fund, Group Insurance Scheme, Study Leave, Maternity Leave
Non teaching	Provident Fund, Group Insurance Scheme, Earned Leave (EL)
Students	Group Insurance Scheme, Earn & Learn, National Service Scheme (NSS), Scholarship, Student Accidental beneficial Scheme

6.4 Financial Management and Resource Mobilization

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

KJEI's KJ College of Engineering and management research is an un-aided self financing private institute. The prime source of income is by the way of fees received from student, reimbursements of student's

scholarships by the state government. The institute does not receive any financial support from the regulatory bodies .however some funding/grand's are received from the regulatory bodies for specific project proposals.

A well established mechanism for financial management exists in the institute to insure optimal utilisation of available resources for efficient working of academic and administrative activities. The budget requirement for the next academic year is prepared well in advance in consultation with all the head of departments and registrar for academic and administrative expenditure. The budget is placed for approval in front of management.

An efficient system of granting approval is designed for purchase of equipments and materials, staff activities, student activities, administrative activities. The account and finance department use the ERP software for the ease of functioning.

All the financial transactions and books of account are dully audited at the end of every financial year by a practicing statutory auditor register with the institute of chartered accounts of India to verify that the accounting standards.

Mobilization of funds

1. Student fees
2. Scholarship reimbursement
3. Parental trust funding
4. Grants received from statutory authorities

Optimal Utilization of funds

1. Statutory payments (salaries, PF, Professional Tax, gratuity etc)
2. Governing baby fees (affiliation fees AICTE extension of approval etc)
3. Infrastructure development (Lab Equipment, Furniture etc)
4. Library (books, journals etc)
5. Academic activities (Guest Lectures Industrial Visits Membership Fees)
6. Administrative activities (Housekeeping security gardening etc)
7. Student Activities (student events, scholarship and hours sports)

Financial Budget Approval Procedure

- 1)Collection of requirement and budget from department/sections
- 2)Finalization of departmental/section budget by principal office in consultation along with departmental and section head

3)Presenting the draft budget to management and approval of budget by the management

4)Approval budget is shares with department/section for the information and record

5) Material and service procurement are initiated by the department/sections with the approval of principal.

The institute has mechanism for internal and external audit. Internal Audit is carried out periodically. External audit is carried out once in a year. External auditor verifies all receipts and expenses bills, payment of the financial year (FY). The last External Audit of FY 2016-17 was performed in September 17 and Audit of FY 2017-18 was performed in October 2018.

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/ Grants received in Rs.	Purpose
Reliance Communication Jio	2450000	WI-FI Deployment
KJEI Management	79500	ISTE Membership
KJEI Management	54000	Centre of Excellence

6.4.2 Total corpus fund generated : 2583500

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	Principal
Administrative			Yes	Principal

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

- Guardian faculty member
- Parent Teacher Meeting
- Student Appreciation

6.5.3 Development programmes for support staff (at least three)

- Mobile Repairing under PMKVY Scheme
- Hands-on on MS-Office for Support Staff
- Seminar on “Behavioural Management Skills”

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

- NIRF
- ISO
- NBA

6.5.5				
a. Submission of Data for AISHE portal : (Yes /No) Yes				
b. Participation in NIRF : (Yes /No) No				
c. ISO Certification : (Yes /No) No				
d. NBA or any other quality audit : (Yes /No) No				
6.5.6 Number of Quality Initiatives undertaken during the year				
Year	Name of quality initiative by IQAC	Date of conducting activity	Duration (from-----to-----)	Number of participants
17-18	Academic & Administrative Audit	1 June 18	1 July 17 to 30 June 18	5 departments
17-18	Gravity 2K18	23,24 March 2108	23 March 18 to 24 March 18	299
17-18	Faculty Development Program on Aspiration Management	7 th June 18	7 th June to 9 th June 18	34

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-to)	Participants	
		Female	Male
Tree Plantation	7 th August 2017	33	70
Teachers Day	5 th September 2017	6	41
Engineers Day	15 th Sept 2017	7	40
Street Play	21 st September,2017	9	38
Blood Donation	24 th January 2018	34	120
NSS Camp	28/12/2017 to 03/01/2018	14	39
Women's Day Celebration	8 th March 2018	135	36
Yoga Day	21 st June 2018	5	20

Gravity 2K18	23 rd and 24 th March 2018	51	248
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7.1.2 Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:
Percentage of power requirement of the College met by the renewable energy sources

The college is very eco-conscious and has taken the following Environmental Consciousness and Sustainability/Alternate Energy initiatives to maintain an Eco –friendly campus.

A) Sewage treatment plant:

Sewage treatment plant is available in the campus near Boys hostel. The capacity of sewage treatment plant is 4.5 lakh litres water. On daily basis 2.5 Lakh litres of water is recycled and reused. The trees and lawns are maintained with water drips and sprinklers. Reuse of waste water for gardening.

B) Rain Water harvesting:

Monsoon run of roof top water and hill water is collected and used for garden irrigation.

For water harvesting survey has been carried out and two storage tanks are constructed in campus. One is near KJ college of Engineering and Management research having capacity of 80 Lakh litres and other is near boys hostel having a capacity of 85 lakh litre. The two tanks get fully filled during the rainy season.

C) Tree Plantation:

Planting trees is an integral part of the activity of the NSS of the college and nearby villages during NSS winter camps. The nourishing and watering of the saplings are taken care by the expert gardeners. NSS unit is also carrying out tree plantation as regular activity in campus.

A total of 9500 trees are available in the campus. Faculties and students are encouraged to plant trees inside the campus on special occasions. Around 155 plants have been planted during the year 2017-18.

D) Conservation of Energy:

All the lighting for Street lights and Boys Hostel has been converted to LED lights. Earlier 250 W sodium /mercury vapour lamps have now been replaced by LED lights.

Steps are being taken for the utilization of solar power in the college campus. Solar Street lights are proposed within the campus.

7.1.3 Differently abled (Divyangjan) friendliness

Items Facilities	Yes/No	No. of Beneficiaries
Physical facilities	Yes	02
Provision for lift	Yes	02

Ramp/ Rails	Yes	01
Braille Software/facilities	No	Nil
Rest Rooms	Yes	04
Scribes for examination	Yes	Nil
Special skill development for differently abled students	No	Nil
Any other similar facility		

7.1.4 Inclusion and Situatedness

Enlist most important initiatives taken to address locational advantages and disadvantages during the year

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date and duration of the initiative	Name of the initiative	Issues addressed	Number of participating students and staff
17-18	2 (Initiative was taken to conduct various activities in school and jr college)	6(Essay writing, drawing competition, speech competition and sport competitions were engaged	28/12/2017 to 03/01/2018	NSS Special Camp at Vathar Hinge, Tal Bhor, Pune	Cleaning, painting ,drainage line cleaning, road maintenance were carried out	39 boys, 14 girls and 5 staff

7.1.5 Human Values and Professional Ethics

Code of conduct (handbooks) for various stakeholders

Title	Date of Publication	Follow up (maximum 100 words each)
Admission college prospectus /handbook	June 17	<p>Brief history of institute along with Vision and Mission.</p> <ul style="list-style-type: none"> • Intake capacity of UG and PG Programmes. • Information regarding infrastructure, laboratory facilities, library, IT infrastructure, internet facility etc. • Information about department wise staff and student achievements. • Information regarding Training and Placements, placement history, and list

		<p>of recruiters.</p> <ul style="list-style-type: none"> • Details of MoU with various organizations. • Hostel, mess and other amenities available in the campus. • Various co-curricular and extra-curricular activities conducted in the institution. • Details of Educational loan scheme. • Details of different technical and non-technical events conducted in the campus. • The institute website
Code of conduct for students and parents	Jun 2017	<p>1) It is imperative that the student attends the Institute from the day of opening to the last day of each term during the academic year.</p> <p>2) Student must be regular in attendance for theory and practical classes. In case the attendance falling short of 75% for theory and 100% for practical, term will not be granted.</p> <p>3) The student should complete all the term work such as Journals, Drawing Sheets, Workshop or any other assignment as per schedule.</p> <p>4) Students must maintain punctuality while attending all the theory and practical classes.</p> <p>5) Students must put-on college I-Card on everyday without fail and attend the college in full college uniform on the specified days.</p> <p>6) Student and parents should specially</p>

		<p>note that if the student fails to complete the term work regularly and to the entire satisfaction of the Head of the Department, his/her term will not be granted and will not be allowed to appear for the university examination.</p> <p>7)The student should note that he/she is responsible to the authorities of the Institute not only for his / her conduct in the premises of the Institute but also for his/her general behaviour outside.</p> <p>8) Any reported observed, objectionable conduct within or outside the premises of the Institute, will make him / her liable for strict disciplinary action.</p> <p>9) Student should not participate in any political and antisocial activities.</p>
Code of conduct for the staff of the institute	Jun 2017	<p>1) Staff must maintain high standards of punctuality, honesty and professional ethics.</p> <p>2) They should work within the institutional policies and practices, so as to satisfy the vision and mission of the institute.</p> <p>3) Staff must ensure that they are dressed decently, safely and appropriately for the tasks they undertake.</p> <p>4) Staff should co-operate and collaborate with colleagues and external agencies, necessary to support the development of the college and students.</p> <p>5) Staff should act in a professional and congenial manner towards colleagues,</p>

		<p>irrespective of their relative position, gender or status within the institutional hierarchy.</p> <p>6) All staff of the college should maintain harmonious relations with other staff and students.</p> <p>7) Staff should maintain confidentiality in conduct of examination and any other Information, unless asked to reveal by the institutional authority.</p> <p>8) All staff should follow the instructions and directions of the authority.</p> <p>9) All staff should constructively contribute toward the development of the college and university.</p> <p>10) All staff should strictly adhere to the academic requirement of the institution and maintain the sanctity of academic environment.</p> <p>11) All staff shall extend their services for the welfare of the community & society at large.</p> <p>12) All staff should properly maintain the records of respective portfolio.</p> <p>13) All staff should make an effort for the continuous development through training programs, workshops and research and development activities.</p>
Code of conduct for the alumni of the institute	Jun 2017	<p>1) To extend the help to the students of KJCOEMR placement and industrial training.</p> <p>2) To act as a bridge between college and the industries for interaction on new developments in different disciplines of engineering.</p>

		<p>3) To assist the college to promote R & D activities, testing and consultancy.</p> <p>4) To extend every possible help to the college authorities for overall progress of the institution.</p>
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7.1.6 Activities conducted for promotion of universal Values and Ethics

Activity	Duration (from-----to-----)	Number of participants
Social Awareness Program	24 th January 2018	47
Tree Plantation	7 th August 2017	103
Blood donation	24 January 2018	154
Women empowerment on women's day	8 th March 2018	171

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

The college is very eco-conscious and takes quite number of initiatives to maintain an Eco –friendly campus.

A) Energy Conservation:

With regard to energy conservation, the college ensures the electrical gadgets are well-maintained, particularly UPS batteries, air conditioners are serviced periodically and maintained. The various awareness programmes are conducted at the institute for energy conservations such as WORLD water day – 22nd March, Earth hour day – 29th March, Ozone day – 16th September.

- Energy Saving boards with the following captions are posted in Every classroom
 - ✓ SAVE ELECTRICITY
 - ✓ TURN OFF FANS AND TUBES AFTER USE.
- Safety rules are provided in all transport vehicles
- Generator maintenance is done periodically to keep it ship-shape and ready for use.
- College does Energy audit once in a year.

B) Use of renewable energy:

- Steps are being taken for the utilization of solar power in the college campus.
- Solar Street lights are proposed within the campus.

C) Rain water harvesting:

- Monsoon run of roof top water and hill water is collected and used for garden irrigation.
- For water harvesting survey has been carried out and storage tanks are constructed in campus.
- The trees and lawns are maintained with water drips and sprinklers.
- Reuse of waste water for gardening.

D) Efforts for Carbon neutrality:

- Every building in the campus is surrounded by trees and lawns, number of trees have been planted in the campus
- Emission test certificates are mandatory for the vehicles in the campus.
- Cigarettes and tobacco products are strictly banned within the campus
- Vehicular movements are restricted inside the campus except few VIP cars.
- The vehicle parking arrangements have been kept at sufficient distance from central campus of college which helps in keeping campus pollution free.
- Minimum use of Air Conditioners in laboratory and cabins.
- Adopted a practice to switch off air conditioners at least half an hour before leaving workplace.
- Dead leaves are not allowed to put on fire. It is handover to the farmer for decomposition purpose.

E) Tree plantation:

- Planting trees is an integral part of the activity of the NSS of the college and nearby villages during NSS winter camps
- The nourishing and watering of the saplings are taken care by the expert gardeners.
- NSS unit is also carrying out tree plantation as regular activity in campus.
- Faculties and students are encouraged to plant trees inside the campus on special occasions is shown

Plantation Details

SN	Year	Total number
1	2017-18	167

F) Hazardous Waste Management:

- The everyday regular waste of the college does not include hazardous waste. The solid waste is handled by the usual methods.
- In Chemistry laboratory very dilute solutions are used for first year engineering practical, it does not create hazardous waste. The students are instructed & provided for minimum use of hazardous chemicals in these laboratories.
- The chemical waste from the chemistry laboratory is diluted before dispose.

G) E-Waste Management:

- The life of the electronic items is extended by proper maintenance and taking care of minor repairs by the lab technicians.
- All the miscellaneous e-waste such as CDs, batteries, fluorescent bulbs, PCBs and electronic items are collected from every department and office, and delivered for safe disposal.

7.2 Best Practices

Describe at least two institutional best practices

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

1) **Feedback system and faculty appraisal Goal:** To build up an online feedback system, from students for faculty, and to facilitate teaching learning process. The objectives of these systems are as follows:

- To develop and establish a computerized online students' feedback system.
- To develop and adopt the standardized questionnaires, which is time tested.
- To provide students feedback about faculty, twice in a semester.
- To counsel the faculty to improve the performance.

The Context: Teaching learning is a process which also depends on time scale. A teacher is to be accepted by students over a period of time and it depends on the performance of a teacher in the class room, which can be measured based on certain standard questionnaires. Since many of the faculty members requires time to develop the teaching skills, which may affect the results of students. In order to keep a check on the process and to facilitate teachers, an online feedback system is developed.

The Practice: A standard set of questionnaires are prepared with three options for each question. These questionnaires are adopted in a Google form and a link is created for each class. On a particular day, a particular class is taken to computer centre.

http://www.kjei.edu.in/kjcoemr/student_corner/student_corner.html is the link each student has to open and tick mark the appropriate option provided for each question. Upon submission of this form, the feedback of that student gets registered.

Evidence of Success: The feedback is taken once after 3 to 4 weeks of start of a semester and the faculty is given the performance index (PI) sheet. Based on the shortfalls observed by students (rather students expect an improvement in these attributes), the faculty has to improve upon. For the same, they are counselled by either Principal, along with HoD. This improvement must be visible in the second feedback, which is taken just before the end of semester. The data shows there is improvement in the faculty because of this feedback system and facilitating teaching learning process.

Problems Encountered and Resources Required: Sometimes failure of internet causes the difficulty, because when students are sitting in front of computer unable to fill the online form. They may have to come next time which may cause delay.

KJCOEMR

Dept: Civil Engg.

Summary of Online Feed Back from Students FB-2 Sept. -2017

(Strictly confidential and for internal use for Improvements and for Faculty only)

5. Environmental Engg.-II/

Class: BE-A

No of Students Present p = 35		Class Strength (d)	37	% based on p	PI
Q1. Has the teacher given you the lesson plan for the entire semester in the first week of teaching?	YES (a)	30	86%	88	
	NO (b)	4	11%		
	DON'T KNOW (c)	1	3%		
Q2. Has the teacher given you question bank for the forthcoming class-test, in advance?	YES	31	89%	88	
	NO	2	6%		
	DON'T KNOW	2	6%		
Q3. Does the teacher conduct the class exactly as per the time table?	ALWAYS	31	89%	87	
	MANY TIMES	1	3%		
	SOME TIMES	3	9%		
Q4. Does the teacher engage all classes regularly?	ALWAYS	29	83%	83	
	MANY TIMES	1	3%		
	SOME TIMES	5	14%		
Q5. How is the handwriting / drawing of the teacher on the blackboard?	GOOD	30	86%	85	
	AVERAGE	1	3%		
	POOR	4	11%		
Q6. Does the teacher interact with you in the class?	ALWAYS	29	83%	84	
	MANY TIMES	2	6%		
	SOME TIMES	4	11%		
Q7. Is the teacher audible in the class?	VERY MUCH	29	83%	84	
	OK	2	6%		
	POOR	4	11%		
Q8. Does the teacher explain the concepts to you properly?	ALWAYS	31	89%	86	
	MANY TIMES	0	0%		
	SOME TIMES	4	11%		
Q9. Has the teacher completed lessons as per the plan given to you?	YES	31	89%	87	
	NO	1	3%		
	DON'T KNOW	3	9%		
Q10. How do you rate his / her teaching?	GOOD	31	89%	86	
	AVERAGE	0	0%		
	POOR	4	11%		

Summary

Good	30	86%	86
Average	1	4%	
Poor	3	10%	

Sign

(Receiving Faculty on HoD Copy)

Date:

PI=Performance Index

$$PI = \frac{(a*5)+(b*3)+(c*1)}{(d*5)}$$

Note: PI will be higher if p is nearer to d. Also $p=a+b+c$

Sign (HoD)

P.T.O

Format used for summarizing feedback

Best Practices II

Employability Skill Development Programme by Zensar Technologies (ESD) ZENSAR - ESD

Goal: The advancement in engineering & technology has not only restructured the scope of engineering education, but also redefined the expectations from engineering graduates. At institute, a need was identified to start an innovative practice “Employability Skill Development Programme” by Zensar Technologies that would help the students to build a personality equipped with technical skills and soft skills. With this in mind, a state-of-the-art ESD is being implemented from the year 2014-15. The aim of the program is to enhance the employability of the students by empowering them with skills those are required by corporate.

The objectives of the Zensar- ESD program are to:

- Enhance the employability of the students.
- Prepare students for Interviews and Technical strength.
- Prepare students in strong in Personality & Technical capacity.

The Context:

- **Integration in to the curriculum:** Training incorporated into the curriculum to help students for preparation and self - evaluation in technical and soft skills.
- **Lecture Plan:** As a part of ESD, subject wise, all lectures are taught by expert faculty from Zensar Technologies. This is a LAN based resource to help the students to learn and revisit the concepts discussed in class and Lab.
- **Expert faculty:** A good blend of class room and hands on training is provided by expert faculty.
- **Zensar assessment:** Training needs an outcome, assessed using assessment tools by Trainers during training, a test preferred by Zensar corporate Experts.

The Practice: The duration of ESD is 230 hours. It is spread over 3 semesters. The duration of ESD is from fifth semester to eighth semester. The details of the programme are

Zensar Technologies - Employability Skill Development Program - Calendar for K J College of Engineering & Management Research

SN	Activity	Duration	Calendar Dates	Syllabus	Remarks
1	Initial Selection	1 Day	JAN / Feb Each Yr	Aptitude Test & G D	Presentation
2	Soft Skill Training	5 Days [30 Hrs]	Feb March Each Yr	Communication Skills	Saturday Sunday
3	Technical Training	14 Days [100 hrs]	1 st June to 15 June	Java, Dot Net , SQL	Vacation Time
4	Final Interview	1 Day	Sept each Year	All Training content	
5	Offer	NA	October Each	NA	

	Letter		Year		
6	Advanced Training	14 Days[100 Hrs]	1 st Dec to 15 th Dec	Adv Java, Dot Net ,	Vacation Time
7	Joining ZENSAR		September		

Evidence of success: Implementation of ESD has shown remarkable effect on placement activities. Students are able to crack professional examinations conducted by other industries too. This unique activity is appreciated by industries and alumni, which has improved placement shown below

Student placement

SN	Academic Year	Training No of students KJCOEMR	Interview short Listed	KJCOEMR Placed
1	2017-18	55	19	07

Problems Encountered and Resources Required: The ESD is required to be conducted in parallel with regular academics on Saturdays and Sundays too. Therefore, extra sessions from industry experts are normally arranged on weekends in the month of Feb/March. Convincing the students to attend such sessions is really a challenging task. Industry experts and corporate trainers are available only on weekends.

However, it is necessary to give ESD inputs to the students to cope up with industrial requirements and make them ready for placement. Introduction of ESD have solved majority of these problems with free of cost and removed unnecessary financial burden on the students. This has also motivated the students to attend sessions even on weekends, vacations and holidays.

The institutional resources required to conduct ESD are as follows:

- Budgetary requirement for Expenses on Trainers Hospitality.
- Classroom with LCD and multimedia facility.
- Software for Java SQL and Dot Net.
- Internet facility to conduct Online Tests.
- IT infrastructure for hands on training.
- Library with necessary e-resources, journals, and books.

7.3 Institutional Distinctiveness

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

The college have shown positive growth with each passing year. The modern state-of-the-art infrastructure and facilities are developed to provide conducive atmosphere for Teaching, Learning & All Round Development of the Students. In order to achieve our objectives, we have qualified teachers and staff dedicated to maintain high standards. . Majority of our faculty members are having more than 10 years of Academic and/or Industrial Experience in their respective disciplines. Teaching Methodology includes well prepared Lecture Notes, latest Presentation Techniques, Interactive Sessions, as well as dialogue

between students and teachers. We encourage one-to-one interactions between teachers and students, for co-curricular as well as extra-curricular activities.

The institute grooms the leadership at various levels as follows:

At student level:

- Encouragement to conduct various activities by the students for the students.
- Assigning freedom and responsibilities to develop their plan of execution of various activities.
- Enhancement of personality development, and soft skill to build their confidence while executing specific task.
- Motivation and encouragement for new innovative ideas with strong moral support from faculty.

At faculty level:

- Opportunities to lead specific committee while conducting various activities at department and institute level.
- Freedom is given to express their thoughts, new ideas, and novel approaches.
- Inspiring those to lead the student's community during the classes, practical and industrial tours to guide the students while acquiring the knowledge.
- Encouragement to lead the faculty while organizing various level seminars and workshops.

At HoD level:

- Decentralization of various tasks to develop leadership at departmental level.
- Assigning few institutional responsibilities well supported by the Principal and the management.
- Creating healthy competition amongst the department and encourage them to achieve superior academic performance.
- Encouragement to visit various reputed organizations to understand their best performance practices and implementation policies.
- Encouragement to follow administrative practices to avoid confusions and hurdles in the path of the success.

At Principal level:

- Freedom is given while executing academics.
- Financial freedom and moral support for the betterment of quality outcome.
- Appreciation of execution of best practices.
- Experiencing healthy competition among the institutes and encouragement to head of the institute to achieve superior academic performance.

8. Future Plans of action for next academic year (500 words)

The institute is having following action plan for the next academic year

A) Curricular Aspects

- 1) Implementation of more number of program specific value added courses
- 2) Identify more number of industry partners who can bridge the gap between industry and existing curriculum, and act as a platform to offer internship/placement to students

B) Teaching learning and evaluation

- 1) To increase the number of smart classrooms
- 2) Increase number of E-resources and techniques in teaching learning process
- 3) Enhance the mechanism for attainment of program outcome, program specific outcome and course outcome
- 4) Increase the pass percentage of students

C) Research, Innovations and extension

- 1) Institution policy to be strengthen for research activity
- 2) Identify the areas and agencies providing research funds
- 3) Increase in support activity for research
- 4) Promotion of IPR related activities
- 5) Submission of research proposal for faculties for funding to various activities

D) Infrastructure and learning resources

- 1) Augmentation of physical facilities in campus
- 2) Financial provision for library as a resource
- 3) Development of more number of e-contents by faculty

E) Student Support and progression

- 1) Development of student friendly, student owned campus
- 2) Increase the capability enhancement and development schemes for students
- 3) Increase the number of placements in the institute and strengthen the T&P department
- 4) Increase the number of students taking part in sports and cultural activities outside the institution
- 5) Involvement of Alumni in development of institute

F) Governance Leadership and Management

- 1) Organize training program for development of administrative staff , skill development program for non teaching staff.
- 2) Conduction of Administrative and Academic Audit (AAA) regularly
- 3) Preparation and deployment of strategic plan

G) Institutional values and Best practices

- 1) Awareness creation among students and staff for environmental consciousness and sustainability
- 2) Awareness of students and staff for gender equality
- 3) Awareness of students for human values and professional ethics

Name: Prof.Pramod U Chavan

Signature of the Coordinator, IQAC

Name: Dr. Suhas S.Khot

Signature of the Chairperson, IQAC

For Communication with NAAC

The Director

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