

The Annual Quality Assurance Report (AQAR) of the IQAC
(For Affiliated/Constituent Colleges)

Institutions Accredited by NAAC need to submit an Annual self-reviewed progress report i.e. Annual Quality Assurance Report (AQAR) to NAAC, through its IQAC. The report is to detail the tangible results achieved in key areas, specifically identified by the IQAC at the beginning of the Academic year. *The AQAR period would be the Academic Year. (For example, July 1, 2017 to June 30, 2018)*

Part – A

Data of the Institution

(data may be captured from IIQA)

1. Name of the Institution **Zeal College of Engineering and Research, Pune**

- Name of the Head of the institution : **Dr. A. M. Kate**
- Designation: **Professor**
- Does the institution function from own campus: **Yes**
- Phone no./Alternate phone no.: **020-67206000, 020-67206106**
- Mobile no.: **9822014351**
- Registered e-mail: **principal.zcoer@zealeducation.com**
- Alternate e-mail : **ajit.kate@zealeducation.com**
- Address :**Sr. No. 39, Narhe, Pune - 411041**
- City/Town : **Pune**
- State/UT : **Maharashtra**
- Pin Code : **411041**

2. Institutional status:

- Affiliated / Constituent: **Affiliated**
- Type of Institution: Co-education/Men/Women **Co-education**
- Location : Rural/Semi-urban/Urban: **Rural**
- Financial Status: Grants-in aid/ UGC 2f and 12 (B)/ Self financing
Self financing

- Name of the Affiliating University: **Savitribai Phule Pune University, Pune**
- Name of the IQAC Co-ordinator : **Dr. P. P. Walvekar**
- Phone no. : **020-67206136**

Alternate phone no.

- Mobile: **8975760046**
- IQAC e-mail address: iqac@zealeducation.com
- Alternate Email address: **pralhad.walvekar@zealeducation.com**

3. Website address: www.zcoer.in

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

For ex. <http://www.ladykeanecollege.edu.in/AQAR2012-13.doc>

4. Whether Academic Calendar prepared during the year? Yes

Yes/No....., if yes, whether it is uploaded in the Institutional website: **Yes**

Weblink: <http://zcoer.in/iqac-mom/>

5. Accreditation Details:

Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1 st	A	3.04	2017	from:27/11/2017 to: 26/11/2022
2 nd				from: to:
3 rd				from: to:
4 th				from: to:
5 th				from: to:

6. Date of Establishment of IQAC: **15/06/2016**

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 Audit	26/04/2018 01/07/2017 to 30/06/2018	All 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. **NIL**

Institution/ Department/Faculty	Scheme	Funding agency	Year of award with duration	Amount
NIL	NA	NA	NA	NA

9. Whether composition of IQAC as per latest NAAC guidelines: Yes/No: Yes

*upload latest notification of formation of IQAC

10. No. of IQAC meetings held during the year: 02

The minutes of IQAC meeting and compliance to the decisions have been uploaded on the institutional website <http://zcoer.in/iqac-mom/>

Yes/No **Yes**

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

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

If yes, mention the amount:

Year:

12. Significant contributions made by IQAC during the current year

* Online feedback system

* Live feedback of classroom teaching

* Preparation of research file

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 implement online feedback system	Online feedbacks are taken
To seek live feedback of classroom teaching	Improved teaching learning process
Preparation of research file	Development of research environment and increase in quality publications

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

Yes/No: **No**

Date:

16. Whether institutional data submitted to AISHE: Yes/No: **Yes**

Year: **2017-18**

Date of Submission: **16/02/2018**

17. Does the Institution have Management Information System?

Yes ✓ No

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

(Maximum 500 words)

NAME OF MODULE : STUDENT MODULE			
Sub-module	Feature	Function	Benefit
Student Master	Lists of students with their photos, signatures	Establishes identity of each student	Quick verification and updating of student databases
Attendance	Attendance lists	Mark Attendance	Easy and swift attendance marking and record generation
Operations	Lists students, assigns elected subjects and generates ID cards	Prepare class wise student list & roll numbers	ID cards and class records are generated

Import	Data can be imported	Imports specific information about the students	Notifications for birthdays & batch wise messages can be sent
Reports	Reports are automatically prepared as required	To generate attendance, leave and other reports	This information is easily available to all parties concerned
GFM/Mentor	Lists students, events and reports	Display GFM assigned and student lists	Makes mentoring more effective
Alumni	Alumni records	Maintains perfect record of alumni past and present	Immediate mails and messages can be directed as necessary

HR Module

Sub-module	Feature	Function	Benefit
Employee Information	Record of employees	Marks attendance, maintains records, organization chart and related information	Comprehensive records readily accessible and generation of ID cards, working hours and performance
Reports	Import & attendance	Biometric attendance reports and bulk import of data	Perfect information about employee qualifications, output and time sheets
Leave	Set leave policy and application rules	Implements leave policy and rules	Employees can apply for leave after ascertaining rules and applicability
TDS	Sets TDS implementation	TDS compliance	Updates and records TDS deductions and prepares statutory declarations

COURSES

Sub-module	Feature	Function	Benefit
Course Master	Syllabus, Departments and Course information	Assigns teachers to departments and classes	Brings clarity to the responsibilities of teaches
Subject	Subject groups and	Adds and forms subject clusters in	Provides detailed information of the subjects, classes and

Master	clusters	particular disciplines	teachers schedules
Import	Import subject and teachers	Assigns teachers and subjects to courses	Prepares perfect schedules for each class and the teachers
Session Plan	Prepare session	Uploads session plan format	Prepares analysis report of sessions conducted
Activity	Create Activity	Creates activities as adjunct to class work	Helps students acquire in-depth knowledge and practical know-how

TIME TABLE

Sub-module	Feature	Function	Benefit
Time Table Master	Prepares schedules	Sets schedule and activities for each course and class	Provides complete knowledge of the class, subject and activities and maintains records
Time Table Plans	Plans subjects and periods	Lists teachers to subjects and periods in the class	Helps to design the perfect time table and utilization of teachers with rest periods
Availability	Resource available	Shows teachers, class rooms, labs and other facilities available	Ensures a perfect combination and optimal utilization of resources
Import	Batch Information	Makes batches in classes	Ensures coordinated study schedules
Time Table view	View Time Table	Gives teachers and students a view of their respective time tables	Daily schedules are available to all
Reports	Prepares reports concerning time tables	Gives information about progress in a set time frame	These are like progress reports for each class and subject

ASSIGNMENT & ASSESSMENT

Sub-module	Feature	Function	Benefit
Assignment Master	Assignment Bank	Allots assignments to classes	Step by step progression in each subject
Assignment	Assignment Status	Keeps details of all	Monitors and updates

Report		assignments given	assignments given and their results
Assessment Master	Assessment templates, groups and criteria	Groups, grades and marks assignments and tests	Keeps a record of all assignments with specific details of the course, subject and student
Exam Details	Assessment marks	Keeps records of attendance and marks in all assessments	Extensive data is readily available for each test and its assessment
Miscellaneous	Results and progress reports	Prepares immediate reports of marks, bonus marks and progress reports	Any concerned teacher, student or parent has a record of the progress of each student and can take remedial action early if required

FINANCE

Sub-module	Feature	Function	Benefit
Accounts	Account setup and masters	Maintains and records complete book-keeping and financial operations	Prepares financial statements and reports in real time with complete accuracy
Payroll	Prepares payroll and record of all salaries	Sets and processes payslips against relevant account heads	Accurately computes and manages monthly payroll of all employees
Fees	Fees Master, Information & Reports	Manages and records every aspect of this key source of income	Immediate records of fees collected and due in real time. Every function right from collection, receipts, refunds, deposits, scholarships and others are seamlessly executed and accounted exactly

COMMUNICATION

Sub-module	Feature	Function	Benefit
Messages setup	SMS	Conduit with service provider, template, login ID, SMS credit, SMS gateway	To ensure prompt and correct messages are sent to the parties concerned adhering to the

		settings	policy laid down
STUDENT FEEDBACK			
Sub-module	Feature	Function	Benefit
Student Feedback page	Student feedback form	It permits students to generate feedback about all aspects and services of the institution	This enables the management of the institution to keep abreast of the feelings and aspirations of the students and take corrective action when necessary
BIOMETRIC ATTENDANCE			
Sub-module	Feature	Function	Benefit
Hand held biometric attendance	A simple device attached to a smart phone	It checks the attendance by comparing fingerprints with a database	It can be used at any location to give perfect attendance of any assembly and no manipulation is possible

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

Plan for effective implementation of curriculum:

- Before commencement of every academic year, Dean (Academics) and Principal of the institute prepare the academic calendar, in accordance with academic calendar of SPPU. The academic calendar is circulated to all departments.
- Every department in turn prepares its academic calendar which includes planning of industrial visits, workshops, seminars, guest lectures in addition to activities mentioned in institute academic calendar.
- Head of each department allocates the theory and laboratory courses to the teachers based on their expertise and choice.
- The department timetable coordinators prepare timetable for each class so that teaching scheme given by SPPU is followed. The class timetables are displayed on common notice board and uploaded in Enterprise Resource Planning (ERP) system, individual time table is provided to all faculty members and laboratory time tables are displayed in respective laboratories and the same is also made available on institute website.

Process of executing the plan and maintaining documentation:

- For proper implementation of curriculum, every subject teacher prepares a teaching plan before commencement of the semester.
- The teaching and laboratory plans are approved by Head of Department (HoD) before the start of semester and communicated to students through ERP by respective course teacher.
- Every subject teacher maintains a course file pertaining academic calendar, timetable, syllabus copy, lesson plan, subject notes, previous question papers and solutions, class test records, question bank along with prerequisites of the course and content beyond the syllabus, expert lectures and industrial visits required for the effectively teaching subject.
- The course files are evaluated by Academic Monitoring Committee (AMC) with help of concerned senior subject teacher and HoD.
- AMC monitors the academic activities on day-to-day basis to ensure the execution of timetable. It also monitors execution of academic calendar and teaching learning process after every 15 days and finds the gap, if any. The gaps are conveyed to HoD for necessary action.
- For a group of around 20 students a teacher is allocated as Guardian Faculty Member (GFM). GFM conducts a weekly meeting and does the counseling of poor performing students. GFM also addresses the non-academic issues of the students. Functioning of GFM activities is monitored by respective HoD.
- Library committee conducts meeting and takes appropriate decision regarding the requirement and procurement of books, journals, e-journals. Completely online system is implemented in library for transactions of the books.
- Various supportive activities like, skill development programs, workshops, seminars, expert lectures, group discussions, presentations, field and industrial visits are organized to enhance the quality of teaching learning process.
- The institute provides required infrastructure such as computing facility, internet facility, LCD projectors, NPTEL videos for effective delivery of the contents in curriculum.
- The institute has a mechanism to take periodic student feedback and review of academic activities for constant improvement in teaching learning process.
- Progress of laboratory work is monitored by continuous assessment.

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	
ANSYS -Hands on training	-	08/01/2018 60 hrs	Learn an industry standard tool to create and analyse model for finite element analysis.	Structural Analysis, Thermal Analysis.	
Microsoft Technology Associate Certification	-	16/02/2017 30 hrs	Employability	.net, c# programming	
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					
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
Nil					
Already adopted since AY 2015-16					
1.2.3 Students enrolled in Certificate/ Diploma Courses introduced during the year					
	Certificate	Diploma Courses			
No of Students	12	-			
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		
Transformer Design	23/01/2017 to 25/01/2017		94		
AutoCAD	01/04/2018		100		
PLC and SCADA	16/08/2017 to 21/08/2017		109		
Geographic Information System	11/09/2017		14		
STAAD-Pro and E-tabs	10/08/2017		42		
Android Application Development	11/09/17 To 14/09/17, 25/09/17 To 26/09/17		102		
IOT Arduino	05/02/2018, 06/02/18		33		
1.3.2 Field Projects / Internships under taken during the year					
Project/Programme Title			No. of students enrolled for Field Projects / Internships		
Internship			165		
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	No	Yes	Yes	Yes	

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

Feedback from students: Student feedback is collected twice in a semester and necessary corrective actions like change in teaching methodology or laboratory sessions are taken. The teachers with negative feedback are personally called by HoD for counselling wherein HoD gives suggestions to the teacher for possible improvements in his/her performance.

Feedback from Employers: During every campus recruitment drive, the Training and Placement Officer (TPO) collects feedback from the employers regarding performance of the students, arrangements and hospitality during the drive. The student related comments are forwarded to the placement committee members deputed by the departments and the external agency providing training on soft skills, aptitude and personality development. The departments and external agency takes corrective measures to bridge the gaps.

Feedback from Alumni: The institute conducts alumni meet every year and feedback from alumni is used to improve the teaching learning process and the overall facilities provided to students.

Feedback from Parents: A parent meet is organized twice in a semester and their feedback is taken. The issues raised by parents are addressed at department level if they are in the purview of HoD. The remaining issues are raised to Principal for the redressal.

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
Civil Engineering	60	42	42
Computer Engineering First shift	60	57	57
Computer Engineering Second shift	60	48	48
Electrical Engineering First shift	60	38	38
E&TC Engineering	120	39	39
Information Technology	60	48	48
Mechanical Engineering First Shift	120	82	82
Mechanical Engineering Second Shift	120	24	24

Second Year Admission Status 2017-18

Name of the Programme	Number of seats available	Number of applications received	Students Enrolled
Civil Engineering	60	69	69
Computer Engineering First shift	120	125	125
Computer Engineering Second shift	60	60	60
Electrical Engineering First shift	60	71	71
Electrical Engineering Second shift	60	59	59
E&TC Engineering	120	46	46
Information Technology	120	103	103
Mechanical Engineering First Shift	180	198	198
Mechanical Engineering Second Shift	120	130	130

Third Year Admission Status 2017-18

Name of the Programme	Number of seats available	Number of applications received	Students Enrolled
Civil Engineering	60	62	62
Computer Engineering First shift	120	117	117
Computer Engineering Second shift	60	67	67

Electrical Engineering First shift	60	76	76
Electrical Engineering Second shift	60	59	59
E&TC Engineering	120	77	77
Information Technology	120	71	71
Mechanical Engineering First Shift	180	232	232
Mechanical Engineering Second Shift	120	152	152
Fourth Year Admission Status 2017-18			
Name of the Programme	Number of seats available	Number of applications received	Students Enrolled
Civil Engineering	60	60	60
Computer Engineering First shift	120	89	89
Computer Engineering Second shift	60	54	54
Electrical Engineering First shift	60	54	54
Electrical Engineering Second shift	60	53	53
E&TC Engineering	120	58	58
Information Technology	120	32	32
Mechanical Engineering First Shift	180	162	162
Mechanical Engineering Second Shift	120	104	104
Demand Ratio during the year- ME (PG) First Year Admission Status 2017-18			
Name of the Programme	Number of seats available	Number of applications received	Students Enrolled
Electrical Engineering-Power Systems	24	17	17
E&TC Engineering- VLSI & Embedded Systems	24	13	13
Mechanical Engineering-Design Engineering	24	15	15
Computer Engineering Second shift	24	15	15
Mechanical Engineering-CAD CAM Second shift	24	9	9
ME (PG) Second Year Admission Status 2017-18			
Name of the Programme	Number of seats available	Number of applications received	Students Enrolled
Electrical Engineering-Power Systems	24	16	16
E&TC Engineering- VLSI & Embedded Systems	24	4	4
Mechanical Engineering-Design Engineering	24	6	6
Computer Engineering Second shift	24	8	8
Mechanical Engineering-CAD CAM Second shift	60	1	1
Demand Ratio during the year MBA (PG) First Year Admission Status 2017-18			
Name of the Programme	Number of seats available	Number of applications received	Students Enrolled
Master of Business Administration(MBA)	60	59	59
MBA (PG) Second Year Admission Status 2017-18			
Name of the Programme	Number of seats available	Number of applications received	Students Enrolled
Master of Business Administration(MBA)	60	47	47

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 courses	Number of full time teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2017-18	2818	210	183	10	16
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
193	167	LCD Projector, Internet point, CD, VCD	51	51	Virtual Labs, NPTEL Video lectures, PPT, CD
2.3.2 Students mentoring system available in the institution? Give details. (maximum 500 words)					
<p>Mentoring of students: Guardian Faculty Member (GFM) scheme is implemented for mentoring group of 20 students and monitoring their academic progress. GFM conducts a weekly meeting and does the counseling of poor performing students. GFM also addresses the nonacademic issues of the students. Functioning of GFM activities is monitored by respective HoD.</p> <p>In addition, placement sessions are conducted on the topics like Engineering career, higher studies, placement opportunities, professional practices and personality development etc. Students are motivated and are psychologically prepared to face professional and social challenges.</p>					
Number of students enrolled in the institution		Number of fulltime teachers		Mentor: Mentee Ratio	
3028		209		1:15	
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	
252	208	44	13	17	
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	Name : Dr. Sanjay Arjun Deokar Awards : State Level	Professor	12 th State Level Award Ceremony for Excellence in Energy Conservation and Management		

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
FE – 1st SEM- October 2018				
Civil Engineering	05	1st Semester 2017-18	01/08/2017 - 30/11/2017	Oct - 17 , FE - 22nd Jan 2018
Computer Engineering First shift	05	1st Semester 2017-18	01/08/2017 - 30/11/2017	Oct - 17 , FE - 22nd Jan 2018
Computer Engineering Second shift	05	1st Semester 2017-18	01/08/2017 - 30/11/2017	Oct - 17 , FE - 22nd Jan 2018
Electrical Engineering First shift 1st Semester 2017-18	05	1st Semester 2017-18	01/08/2017 - 30/11/2017	Oct - 17 , FE - 22nd Jan 2018
E&TC Engineering	05	1st Semester 2017-18	01/08/2017 - 30/11/2017	Oct - 17 , FE - 22nd Jan 2018
Information Technology First shift	05	1st Semester 2017-18	01/08/2017 - 30/11/2017	Oct - 17 , FE - 22nd Jan 2018
Mechanical Engineering First Shift	05	1st Semester 2017-18	01/08/2017 - 30/11/2017	Oct - 17 , FE - 22nd Jan 2018
Mechanical Engineering Second Shift	05	1st Semester 2017-18	01/08/2017 - 30/11/2017	Oct - 17 , FE - 22nd Jan 2018
FE – 2nd Sem May 2018				
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
Civil Engineering	05	2nd Semester 2017-18	01/01/18 - 23/4/2018	May - 18 , FE - 23rd June 2018
Computer Engineering First shift	05	2nd Semester 2017-18	01/01/18 - 23/4/2018	May - 18 , FE - 23rd June 2018
Computer Engineering Second shift	05	2nd Semester 2017-18	01/01/18 - 23/4/2018	May - 18 , FE - 23rd June 2018
Electrical Engineering First shift 1st Semester 2017-18	05	2nd Semester 2017-18	01/01/18 - 23/4/2018	May - 18 , FE - 23rd June 2018
E&TC Engineering	05	2nd Semester 2017-18	01/01/18 - 23/4/2018	May - 18 , FE - 23rd June 2018
Information	05	2nd Semester	01/01/18 - 23/4/2018	May - 18 , FE - 23rd

Technology First shift		2017-18		June 2018
Mechanical Engineering First Shift	05	2nd Semester 2017-18	01/01/18 - 23/4/2018	May - 18 , FE - 23rd June 2018
Mechanical Engineering Second Shift	05	2nd Semester 2017-18	01/01/18 - 23/4/2018	May - 18 , FE - 23rd June 2018
SE - 1st Sem Status 2017-18				
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
Civil Engineering	11	1st Semester 2017-18	15/06/2017 - 18/10/2017	Oct - 17 , , SE - 4th Feb 2018
Computer Engineering First shift	19	1st Semester 2017-18	15/06/2017 - 18/10/2017	Oct - 17 , , SE - 4th Feb 2018
Computer Engineering Second shift	19	1st Semester 2017-18	15/06/2017 - 18/10/2017	Oct - 17 , , SE - 4th Feb 2018
DSE Computer Engineering Second shift	19	1st Semester 2017-18	15/06/2017 - 18/10/2017	Oct - 17 , , SE - 4th Feb 2018
Electrical Engineering First shift	15	1st Semester 2017-18	15/06/2017 - 18/10/2017	Oct - 17 , , SE - 4th Feb 2018
DSE Electrical Engineering Second shift	15	1st Semester 2017-18	15/06/2017 - 18/10/2017	Oct - 17 , , SE - 4th Feb 2018
E&TC Engineering	16	1st Semester 2017-18	15/06/2017 - 18/10/2017	Oct - 17 , , SE - 4th Feb 2018
Information Technology - First shift	29	1st Semester 2017-18	15/06/2017 - 18/10/2017	Oct - 17 , , SE - 4th Feb 2018
Information Technology Second Shift	29	1st Semester 2017-18	15/06/2017 - 18/10/2017	Oct - 17 , , SE - 4th Feb 2018
Mechanical Engineering First Shift	12	1st Semester 2017-18	15/06/2017 - 18/10/2017	Oct - 17 , , SE - 4th Feb 2018
Mechanical Engineering Second Shift	12	1st Semester 2017-18	15/06/2017 - 18/10/2017	Oct - 17 , , SE - 4th Feb 2018

DSE Mechanical Engineering First Shift	12	1st Semester 2017-18	15/06/2017 - 18/10/2017	Oct - 17 , , SE - 4th Feb 2018
SE - 2nd Sem Status 2017-18				
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
Civil Engineering	11	2nd Semester 2017-18	18/12/2017 - 06/04/2018	May - 18 , SE - 23rd July 2018 ,
Computer Engineering First shift	19	2nd Semester 2017-18	18/12/2017 - 06/04/2018	May - 18 , SE - 23rd July 2018 ,
Computer Engineering Second shift	19	2nd Semester 2017-18	18/12/2017 - 06/04/2018	May - 18 , SE - 23rd July 2018 ,
DSE Computer Engineering Second shift	19	2nd Semester 2017-18	18/12/2017 - 06/04/2018	May - 18 , SE - 23rd July 2018 ,
Electrical Engineering First shift	15	2nd Semester 2017-18	18/12/2017 - 06/04/2018	May - 18 , SE - 23rd July 2018 ,
DSE Electrical Engineering Second shift	16	2nd Semester 2017-18	18/12/2017 - 06/04/2018	May - 18 , SE - 23rd July 2018 ,
Information Technology - First shift	29	2nd Semester 2017-18	18/12/2017 - 06/04/2018	May - 18 , SE - 23rd July 2018 ,
Information Technology Second Shift	29	2nd Semester 2017-18	18/12/2017 - 06/04/2018	May - 18 , SE - 23rd July 2018 ,
Mechanical Engineering First Shift	12	2nd Semester 2017-18	18/12/2017 - 06/04/2018	May - 18 , SE - 23rd July 2018 ,
Mechanical Engineering Second Shift	12	2nd Semester 2017-18	18/12/2017 - 06/04/2018	May - 18 , SE - 23rd July 2018 ,
DSE Mechanical Engineering First Shift	12	2nd Semester 2017-18	18/12/2017 - 06/04/2018	May - 18 , SE - 23rd July 2018 ,
TE - 1st Sem Status 2017-18				
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
Civil Engineering	31	1st Semester	15/06/2017 - 18/10/2017	Oct - 17 , Date - 9th

		2017-18		Feb 2018
Computer Engineering First shift	42	1st Semester 2017-18	15/06/2017 - 18/10/2017	Oct - 17 , Date - 9th Feb 2018
Computer Engineering Second shift	42	1st Semester 2017-18	15/06/2017 - 18/10/2017	Oct - 17 , Date - 9th Feb 2018
DSE Computer Engineering Second shift	42	1st Semester 2017-18	15/06/2017 - 18/10/2017	Oct - 17 , Date - 9th Feb 2018
Electrical Engineering First shift	36	1st Semester 2017-18	15/06/2017 - 18/10/2017	Oct - 17 , Date - 9th Feb 2018
DSE Electrical Engineering Second shift	36	1st Semester 2017-18	15/06/2017 - 18/10/2017	Oct - 17 , Date - 9th Feb 2018
E&TC Engineering	37	1st Semester 2017-18	15/06/2017 - 18/10/2017	Oct - 17 , Date - 9th Feb 2018
Information Technology - First shift	60	1st Semester 2017-18	15/06/2017 - 18/10/2017	Oct - 17 , Date - 9th Feb 2018
Information Technology Second Shift	60	1st Semester 2017-18	15/06/2017 - 18/10/2017	Oct - 17 , Date - 9th Feb 2018
Mechanical Engineering First Shift	32	1st Semester 2017-18	15/06/2017 - 18/10/2017	Oct - 17 , Date - 9th Feb 2018
Mechanical Engineering Second Shift	32	1st Semester 2017-18	15/06/2017 - 18/10/2017	Oct - 17 , Date - 9th Feb 2018
DSE Mechanical Engineering First Shift	32	1st Semester 2017-18	15/06/2017 - 18/10/2017	Oct - 17 , Date - 9th Feb 2018
TE - 2nd Sem Status 2017-18				
Programme Name	Progra mme Code	Semester/ year	Last date of the last semester- end/ year- end examination	Date of declaration of results of semester-end/ year- end examination
Civil Engineering	31	2nd Semester 2017-18	18/12/2017 - 06/04/2018	May - 18 , Date - 12th July 2018
Computer Engineering First shift	42	2nd Semester 2017-18	18/12/2017 - 06/04/2018	May - 18 , Date - 12th July 2018

Computer Engineering Second shift	42	2nd Semester 2017-18	18/12/2017 - 06/04/2018	May - 18 , Date - 12th July 2018
DSE Computer Engineering Second shift	42	2nd Semester 2017-18	18/12/2017 - 06/04/2018	May - 18 , Date - 12th July 2018
Electrical Engineering First shift	36	2nd Semester 2017-18	18/12/2017 - 06/04/2018	May - 18 , Date - 12th July 2018
DSE Electrical Engineering Second shift	36	2nd Semester 2017-18	18/12/2017 - 06/04/2018	May - 18 , Date - 12th July 2018
E&TC Engineering	37	2nd Semester 2017-18	18/12/2017 - 06/04/2018	May - 18 , Date - 12th July 2018
Information Technology - First shift	60	2nd Semester 2017-18	18/12/2017 - 06/04/2018	May - 18 , Date - 12th July 2018
Information Technology Second Shift	60	2nd Semester 2017-18	18/12/2017 - 06/04/2018	May - 18 , Date - 12th July 2018
Mechanical Engineering First Shift	32	2nd Semester 2017-18	18/12/2017 - 06/04/2018	May - 18 , Date - 12th July 2018
Mechanical Engineering Second Shift	32	2nd Semester 2017-18	18/12/2017 - 06/04/2018	May - 18 , Date - 12th July 2018
DSE Mechanical Engineering First Shift	32	2nd Semester 2017-18	18/12/2017 - 06/04/2018	May - 18 , Date - 12th July 2018

BE - 1st Sem Status 2017-18

Programme Name	Progra mme Code	Semester/ year	Last date of the last semester- end/ year- end examination	Date of declaration of results of semester-end/ year- end examination
Civil Engineering	65	1st Semester 2017-18	15/06/2017 - 18/10/2017	Oct - 17 , Date - 16th Jan 2018
Computer Engineering First shift	76	1st Semester 2017-18	15/06/2017 - 18/10/2017	Oct - 17 , Date - 16th Jan 2018
Computer Engineering Second shift	76	1st Semester 2017-18	15/06/2017 - 18/10/2017	Oct - 17 , Date - 16th Jan 2018
DSE Computer Engineering Second	76	1st Semester 2017-18	15/06/2017 - 18/10/2017	Oct - 17 , Date - 16th Jan 2018

shift				
Electrical Engineering First shift	70	1st Semester 2017-18	15/06/2017 - 18/10/2017	Oct - 17 , Date - 16th Jan 2018
DSE Electrical Engineering Second shift	70	1st Semester 2017-18	15/06/2017 - 18/10/2017	Oct - 17 , Date - 16th Jan 2018
E&TC Engineering	71	1st Semester 2017-18	15/06/2017 - 18/10/2017	Oct - 17 , Date - 16th Jan 2018
Information Technology - First shift	90	1st Semester 2017-18	15/06/2017 - 18/10/2017	Oct - 17 , Date - 16th Jan 2018
Information Technology Second Shift	90	1st Semester 2017-18	15/06/2017 - 18/10/2017	Oct - 17 , Date - 16th Jan 2018
Mechanical Engineering First Shift	66	1st Semester 2017-18	15/06/2017 - 18/10/2017	Oct - 17 , Date - 16th Jan 2018
Mechanical Engineering Second Shift	66	1st Semester 2017-18	15/06/2017 - 18/10/2017	Oct - 17 , Date - 16th Jan 2018
DSE Mechanical Engineering First Shift	66	1st Semester 2017-18	15/06/2017 - 18/10/2017	Oct - 17 , Date - 16th Jan 2018
BE - 2nd Sem Status 2017-18				
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
Civil Engineering	65	2nd Semester 2017-18	18/12/2017 - 06/04/2018	May - 18 , BE - 04th July 2018
Computer Engineering First shift	76	2nd Semester 2017-18	18/12/2017 - 06/04/2018	May - 18 , BE - 04th July 2018
Computer Engineering Second shift	76	2nd Semester 2017-18	18/12/2017 - 06/04/2018	May - 18 , BE - 04th July 2018
DSE Computer Engineering Second shift	76	2nd Semester 2017-18	18/12/2017 - 06/04/2018	May - 18 , BE - 04th July 2018
Electrical Engineering First shift	70	2nd Semester 2017-18	18/12/2017 - 06/04/2018	May - 18 , BE - 04th July 2018

DSE Electrical Engineering Second shift	70	2nd Semester 2017-18	18/12/2017 - 06/04/2018	May - 18 , BE - 04th July 2018
E&TC Engineering	71	2nd Semester 2017-18	18/12/2017 - 06/04/2018	May - 18 , BE - 04th July 2018
Information Technology - First shift	90	2nd Semester 2017-18	18/12/2017 - 06/04/2018	May - 18 , BE - 04th July 2018
Information Technology Second Shift	90	2nd Semester 2017-18	18/12/2017 - 06/04/2018	May - 18 , BE - 04th July 2018
Mechanical Engineering First Shift	66	2nd Semester 2017-18	18/12/2017 - 06/04/2018	May - 18 , BE - 04th July 2018
Mechanical Engineering Second Shift	66	2nd Semester 2017-18	18/12/2017 - 06/04/2018	May - 18 , BE - 04th July 2018
DSE Mechanical Engineering First Shift	66	2nd Semester 2017-18	18/12/2017 - 06/04/2018	May - 18 , BE - 04th July 2018
First Year ME - 1st SEM Status 2017-18				
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
Electrical Engineering-Power Systems	D01	1st Semester 2017-18	21/08/2018 - 11 / 12/2018	Oct - 17 , Date - 8th March 2018
E&TC Engineering-VLSI & Embedded Systems	F04	1st Semester 2017-18	21/08/2018 - 11 / 12/2018	Oct - 17 , Date - 8th March 2018
Mechanical Engineering-Design Engineering	B02	1st Semester 2017-18	21/08/2018 - 11 / 12/2018	Oct - 17 , Date - 8th March 2018
Computer Engineering Second shift	I01	1st Semester 2017-18	21/08/2018 - 11 / 12/2018	Oct - 17 , Date - 8th March 2018
Mechanical Engineering-CAD CAM Second shift	B05	1st Semester 2017-18	21/08/2018 - 11 / 12/2018	Oct - 17 , Date - 8th March 2018

First Year ME - 2nd SEM, Status 2017-18				
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
Electrical Engineering-Power Systems	D01	2nd Semester 2017-18	15/01/2018 - 09/05/18	May - 18 , Date 10th Aug 2018
E&TC Engineering-VLSI & Embedded Systems	F04	2nd Semester 2017-18	15/01/2018 - 09/05/18	May - 18 , Date 10th Aug 2018
Mechanical Engineering-Design Engineering	B02	2nd Semester 2017-18	15/01/2018 - 09/05/18	May - 18 , Date 10th Aug 2018
Computer Engineering Second shift	I01	2nd Semester 2017-18	15/01/2018 - 09/05/18	May - 18 , Date 10th Aug 2018
Mechanical Engineering-CAD CAM Second shift	B05	2nd Semester 2017-18	15/01/2018 - 09/05/18	May - 18 , Date 10th Aug 2018
Second Year ME - 1st SEM, Status 2017-18				
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
Electrical Engineering-Power Systems	D01	1st Semester 2017-18	1/07/2017 - 28 / 10/2017	Oct - 17 , Date - 8th March 2018
E&TC Engineering-VLSI & Embedded Systems	F04	1st Semester 2017-18	1/07/2017 - 28 / 10/2017	Oct - 17 , Date - 8th March 2018
Mechanical Engineering-Design Engineering	B02	1st Semester 2017-18	1/07/2017 - 28 / 10/2017	Oct - 17 , Date - 8th March 2018
Computer Engineering Second shift	I01	1st Semester 2017-18	1/07/2017 - 28 / 10/2017	Oct - 17 , Date - 8th March 2018
Mechanical Engineering-CAD CAM Second shift	B05	1st Semester 2017-18	1/07/2017 - 28 / 10/2017	Oct - 17 , Date - 8th March 2018
Second Year ME - 2nd SEM, Status 2017-18				
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
Electrical Engineering-	D01	2nd Semester	15/01/2018 - 09/05/18	May - 18 ,Date -10th

Power Systems		2017-18		Aug 2018
E&TC Engineering-VLSI & Embedded Systems	F04	2nd Semester 2017-18	15/01/2018 - 09/05/18	May - 18 ,Date -10th Aug 2018
Mechanical Engineering-Design Engineering	B02	2nd Semester 2017-18	15/01/2018 - 09/05/18	May - 18 ,Date -10th Aug 2018
Computer Engineering Second shift	I01	2nd Semester 2017-18	15/01/2018 - 09/05/18	May - 18 ,Date -10th Aug 2018
Mechanical Engineering-CAD CAM Second shift	B05	2nd Semester 2017-18	15/01/2018 - 09/05/18	May - 18 ,Date -10th Aug 2018
First Year MBA - 1st SEM , Status 2017-18				
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
Master of Business Administration(MBA)	10110	1st Semester 2017-18	1/7/2017 - 09/12/2017	Oct - 17 , Date - 30th Jan 2018
First Year MBA - 2nd SEM Status 2017-18				
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
Master of Business Administration(MBA)	10110	2nd Semester 2017-18	26/2/17 - 05/05/2018	May - 18 , Date- 27th June 2018
Second Year MBA - 1st SEM Status 2017-18				
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
Master of Business Administration(MBA)	10110	1st Semester 2017-18	1/7/2017 - 09/12/2017	Oct - 17 , Date - 30th Jan 2018
Second Year MBA - 2nd SEM Status 2017-18				
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
Master of Business Administration(MBA)	10110	1st Semester 2017-18	1/7/2017 - 09/12/2017	May - 18 ,Date - 27th June 2018
Second Year MBA - 2nd SEM Status 2017-18				
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
Master of Business Administration(MBA)	10110	1st Semester 2017-18	1/7/2017 - 09/12/2017	May - 18 ,Date - 27th June 2018

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

The institute has reformed its internal evaluation scheme in AY 2012-13 which is followed till date with minor modifications in distributions of marks. The scheme is as follows.

- Internal assessment of the students is carried out on the basis of attendance, experimental write up, unit tests marks, mock oral and timely submission.
- Record of the practical performance is maintained in the practical log book and regular checking of experiment is carried out subsequently.
- Predefined format for term work assessment is communicated to the students well in advance so as to enable them for self-analysis and improvement.
- Continuous Assessment Sheet for the experiment is maintained by faculty under the signature of HoD.
- Online entries of term work marks are communicated to the University.
- Students are assessed on the basis of timely submission, presentation (communication skills), understanding (independent learning) and attentiveness (behaviour)
- Final year projects of UG and PG are evaluated continuously and students are given inputs on their weaknesses and scope for improvement. Students maintain project diary with records of their project progress duly countersigned by guides on a regular basis.

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

Before commencement of every academic year, Dean (Academics) and Principal of the institute prepare the academic calendar, in accordance with academic calendar of SPPU. The academic calendar is circulated to all departments.

Every department in turn prepares its academic calendar which includes planning of industrial visits, workshops, seminars, guest lectures in addition to activities mentioned in institute academic calendar.

Head of each department allocates the theory and laboratory courses to the teachers based on their expertise and choice.

The department timetable coordinators prepare timetable for each class so that teaching scheme given by SPPU is followed. The class timetables are displayed on common notice board and uploaded in Enterprise Resource Planning (ERP) system, individual time table is provided to all faculty members and laboratory time tables are displayed in respective laboratories and the same is also made available on institute website.

2.6 Student Performance and Learning Outcomes

2.6.1 Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

<http://zcoer.in/iqac-mom/>

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
CE	Civil Engineering	50	48	96%
EE	Electrical Engineering	107	104	97%
IT	IT	32	30	93%
E&TC	Electronics and Telecommunication	58	55	94%
MBA	MBA	44	36	81%
CO	Computer Engineering	146	139	97%
ME	Mechanical Engineering	162	128	79%

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 has been prepared for Student Satisfaction Survey (SSS) on overall institutional performance. After due sanction from higher authority, SSS will be carried out in AY 2018-19.				
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	Nil			
Minor Projects				
Interdisciplinary Projects				
Industry sponsored Projects				
Projects sponsored by the University/ College				
Students Research Projects (other than compulsory by the College)				
International Projects				
Any other(Specify)				
Total				
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)	
PCB Design and Manufacturing	Electronics and Telecommunication Engg.		18 to 19/01/2018	
STTP on Analog, Digital Communication and Wireless Network	Electronics and Telecommunication Engg.		12 to 16/12/2017	
Antenna Design & fabrication	Electronics and Telecommunication Engg.		24/03/2018	
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
Obstacle Detection Tram	1) AniketKumthekar 2) Nrupesh Marne	IIT Roorki	March 2018	IoT Based project
Digital Literacy in Urban and Rural Areas	1) AmeyMutha 2) PrajaktaSalunkh 3) ReshmaInamdar 4) Swapnil Surpur	IEEE Pune Section	December 2017	IoT Based project

3.2.3 No. of Incubation centre created, start-ups incubated on campus during the year						
Incubation Centre	Name			Sponsored by		
Nil						
Name of the Start-up	Nature of Start-up			Date of commencement		
Nil						
3.3 Research Publications and Awards						
3.3.1 Incentive to the teachers who receive recognition/awards						
State	National			International		
Nil						
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			
Nil						
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	Mechanical Engg.	02		1.20		
	Civil Engg.	02		1.20		
	MBA	04		1.36		
International	Mechanical Engg.	30		1.11		
	Civil Engg.	02		2.10		
	Computer Engg.	03		2.12		
	Information Technology	02		1.90		
	Electrical Engg.	12		1.77		
	MBA	03		1.52		
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			
Civil Engg.			01			
Information Technology			07			
Electrical Engg.			10			
MBA			02			
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
A Review of Performance Evolution for Biomass Cook-stove Models	Gandigude A.U.	Material Today Proceeding, Elsevier	2018	Nil	Zeal college of engineering and Research	Nil

A Review of Performance Evolution for Biomass Cook-stove Models	Gandigude A.U.	Material Today Proceeding, Elsevier	2018	Nil	Zeal college of engineering and Research	Nil
A Distinct Indicator to Predict Biogasification Potential of Urban Wastewater by Fuzzy Composite Approach	Anaokar G. S.	International Journal of Pure and Applied Mathematics	2018	Nil	SardarVallabh bhai National Institiute of Technology, Surat	01
Evaluation of a Performance Index for Municipal Wastewater Treatment Plants using MCDM–TOPSIS	Anaokar G. S.	International Journal of Technology	2018	Nil	SardarVallabh bhai National Institiute of Technology, Surat	Nil
Switching Losses Minimization and Performance improvement of PCC and PTC methods of Model Predictive Direct Torque Control Drives with 15-level inverter	Deokar S. A.	Journal of Electrical Systems and Information Technology	2018	Scopus	Zeal college of Engineering and Research	01
Design of Sliding mode controller with Proportional Integral Sliding Surface for Robust Regulation and Tracking of Process Control Systems	Khandekar A. A.	Journal of Dynamic Systems, Measurement and Control	2018	SCI	Zeal college of Engineering and Research	00
Sliding mode controller with state observer for TITO systems with time delay	Khandekar A. A.	International Journal of Dynamics and Control	2018	Scopus	Zeal college of Engineering and Research	02
Performance analysis of the one-element resonant EV wireless battery chargers	Jha R. K.	IEEE Trans. Industry Applications	2018	SCI	University of Padua	03

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
"Facial features Based Emotion Recognition" IOSR Journal of Engg. (IOSRJEN)	Dr.A.N.Gaikwad	"Facial features Based Emotion Recognition" IOSR Journal of Engg. (IOSRJEN)	2018	0	0	Zeal college of Engineering and Research
Optimization scrambling sequence to reduce PAPR in space frequency block codes based MIMO-OFDM system	Dr.A.N.Gaikwad	Optimization scrambling sequence to reduce PAPR in space frequency block codes based MIMO-OFDM system	2017	0	0	Zeal college of Engineering and Research
Fireflies Algorithm Based Opimal Scrambling to Reduce PAPR in SFBC based MIMO-OFDM	Dr.A.N.Gaikwad	Fireflies Algorithm Based Opimal Scrambling to Reduce PAPR in SFBC based MIMO-	2017	3	1	Zeal college of Engineering and Research

		OFDM				
Analysis of detection methods for space frequency block code MIMO-OFDM system in Fast Fading Channels	Dr.A.N.Gaikwad	Analysis of detection methods for space frequency block code MIMO-OFDM system in Fast Fading Channels	2017	3	2	Zeal college of Engineering and Research
A modern screening approach for detection of diabetic retinopathy	Dr. S.D. Shirbahadurkar	A modern screening approach for detection of diabetic retinopathy	2017-18	3	0	Zeal college of Engineering and Research
Early stage detection of Diabetic retinopathy using an optimal features set	Dr. S.D. Shirbahadurkar	Early stage detection of Diabetic retinopathy using an optimal features set	2018	0	0	Zeal COER, Pune
Switching Losses Minimization and Performance improvement of PCC and PTC methods of Model Predictive Direct Torque Control Drives with 15-level	Sanjay A. Deokar	Journal of Electrical Systems and Information Technology	2018	17	01	Zeal college of Engineering and Research

inverter						
Design of Sliding mode controller with Proportional Integral Sliding Surface for Robust Regulation and Tracking of Process Control	Aniket A. Khandekar	Journal of Dynamic Systems, Measurement and Control	2018	79	00	Zeal college of Engineering and Research
Sliding mode controller with state observer for TITO systems with time delay	Aniket A. Khandekar	International Journal of Dynamics and Control	2018	9	02	Zeal college of Engineering and Research
Performance analysis of the one-element resonant EV wireless battery chargers	Rupesh K. Jha	IEEE Trans. Industry Applications	2018	165	03	University of Padua
Switching Losses Minimization and Performance improvement of PCC and PTC methods of Model Predictive Direct Torque Control Drives with 15-level inverter	Sanjay A. Deoakr	Journal of Electrical Systems and Information Technology	2018	17	01	Zeal college of Engineering and Research
Design of Sliding mode controller with Proportional Integral Sliding Surface for Robust Regulation and Tracking of Process Control	Aniket A. Khandekar	Journal of Dynamic Systems, Measurement and Control	2018	79	00	Zeal college of Engineering and Research
Sliding mode controller with state observer for TITO systems with time delay	Aniket A. Khandekar	International Journal of Dynamics and	2018	9	02	Zeal college of Engineering and Research

		Control			
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	03	77	01	12	
Presented papers	46	30	00	00	
Resource Persons	01	03	02	02	
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 coordinated such activities	Number of students participated in such activities		
Continuous Contour Trenches (CCT) at Ambade	ZCOER NSS, PANI Foundation & Ambade Grampanchayat	05	55		
Tree Plantation at Mohamadwadi, Pune	ZCOER NSS & SWO	08	110		
Blood Donation Camp at ZCOER Narhe Campus	ZCOER NSS, Akshay Blood Bank & Poona Blood Bank	22	384		
Road Safety Awareness Activity	ZCOER NSS & Pune Traffic Police	35	120		
Eco-friendly Ganesh Visarjan	ZCOER NSS & PMC	10	115		
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		
Eco-friendly Ganesh Visarjan	Certificate	PMC	22		
Akshay Blood Bank, Poona Blood Bank	Trophy & Certificate to ZCOER NSS and all participating donors	Respective Blood Banks	384		
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	
Nil					
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		

Short Term Training Programme for Faculty	01	Institute	02 Days
STTP on "Research Trend in design and Analysis of Algorithms with R-Programming"	20	Institute	05 days
Orientation program in Automobile excellence Centre for GO-KART Manufacturing.	09	Institute	01 Day

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
Students training program	A training of STADD-Pro and E-Tabs	Apex consultants	21/01/2018 to 18/02/2018	42
STTP on "Research Trend in design and Analysis of Algorithms with R-Programming"	STTP on "Research Trend in design and Analysis of Algorithms with R-Programming"	Institute	5 days	20

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
Godrej & Boyce Mfg. Co. Ltd. - "Lawkim Motors group"	12/01/2018	to enhance the quality of technical knowledge and skills of the students	10

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
4800000	40173770

4.1.2 Details of augmentation in infrastructure facilities during the year		
Facilities	Existing	Newly added
Campus area	5 Acre	-
Class rooms	51	-
Laboratories	80	-
Seminar Halls	07	-
Classrooms with LCD facilities	51	-
Classrooms with Wi-Fi/ LAN	51	-
Seminar halls with ICT facilities	-	-
Video Centre	-	-
No. of important equipments purchased (\geq 1-0 lakh) during the current year.	-	-
Value of the equipment purchased during the year (Rs. in Lakhs)	-	-
Others	-	-

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
AutoLib	Fully Automation	AutoLib-NG	2012

4.2.1 Library Services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	25731	8203467.00	98	48988.00	25829	8252455.00
Reference Books	2036	1823497.00	--	--	2036	1823497.00
e-Books	1535	360115.00	8	1700.00	1543	361815.00
Journals	11733	2489350.00	--	--	11733	2489350.00
e-Journals	998	2948299.00	135	430908.00	1133	3379207.00
Digital Database	Recommended by AICTE	8326753.00	770	263850.00		8590603.00
CD & Video	NPTEL	100000.00	--	--	NPTEL	100000.00
Library automation	2341	Free with Books	36	Free with Books	2377	Free with Books
Weeding (Hard & Soft)	With AutoLib S/W	50800.00	S/W update with Web OPAC	68400.00		
Others (specify)	--	--	--	--		

4.3 IT Infrastructure

4.3.1 Technology Upgradation (overall)

Total	Computer	Internet	Browsing	Computer	Office	Departments	Available band	Others
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	Comp uters	Labs		Centres	Centres			width (MGBPS)	
Existing	1132	33	1132	01	01	18	07	155 MBPS	----
Added	130	--	130	--	--	12(Repla ce)	--	-----	----
Total	1262	33	1262	01	01	18	07	155 MBPS	----

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

155 MBPS /GBPS

4.3.3 Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
Springer E-Book	https://link.springer.com/search?facet-content-type=%22Book%22&showAll=false
ASME	http://asmedigitalcollection.asme.org/journals.aspx
J-Gate (JET)	https://jgateplus.com/home/
National Digital Library (NDL)	https://ndl.iitkgp.ac.in/
NPTEL Videos / Notes Access and Download	http://172.16.1.20/localguru/

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
Nil			

4.4 Maintenance of Campus Infrastructure

4.4.1 Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
2880000	24104262	1920000	16069508

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

The institute has a mechanism to maintain and upkeep of the infrastructure, facilities and equipment.

- Building infrastructure: Institute has a full time Civil Engineer and a supporting staff to look after the maintenance of building infrastructure.
- Electrical infrastructure: Institute has trained and qualified staff to look after the maintenance of transformer, protection devices, tubes, fans and CCTV. Institute has annual maintenance contract (AMC) for generator, UPS and lift.

- Furniture: Institute uses its own workshop for the manufacturing and maintenance of wooden and steel furniture.
- Equipment: The laboratory in-charges look after the maintenance of the equipment. Laboratory incharge and laboratory assistant ensures the proper functioning of all equipment in the laboratory.
- IT infrastructure: Institute has a system and networking team for maintenance of computers, computer hardware, networking, internet facility, EPABX and software.

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	Rajarshi Chhatrapati Shahu Maharaj Shikshan Shulkh Shishyavrutti Yojna (EBC)	900	40513182
	Dr Punjabrao Deshmukh Vastigruh Nirvah BhattaYojna (DTE)	79	2370000
	Scholarship for students of minority communities pursuing Higher and Professional courses(DTE)	5	125000
	Social Justice and Special Assistance Department	1029	73019192

Financial support from other sources

a) National	National Scholarship (Merit -Cum - Means Scholarship For Professional And Technical Courses CS	3	75000
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
Aptitude and Soft Skills training programme	03/07/2017	2500	Gyanteerth Academy
Employment Skills Development programme	31/01/2018	41	Zensar Technologies
International Day of Yoga	21/06/2018	400	Art of Living

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	Number of benefited students by Career Counselling activities	Number of students who have passed in the competitive exam	Number of students placed

		examination			
2017-18	Guidance by expert officers	163	1000	21	21

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	Not applicable	Not applicable

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
67	800	103	27	1200	114

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	01	ZCOER,Narhe, Pune	Department of Civil	College of Engineering, Pune	M. Tech. (Environmental and Hydraulics Engineering)
2017-18	05	ZCOER,Narhe, Pune	Department of E&TC	ZCOER,Narhe, Pune	ME (VLSI and Embedded System)
2017-18	01	ZCOER,Narhe, Pune	Department of E&TC	ZCOER,Narhe, Pune	ME (VLSI and Embedded System)
2017-18	01	ZCOER,Narhe, Pune	Department of Electrical Engineering	ZCOER,Narhe, Pune	M.E. Power Systems
2017-18	01	ZCOER,Narhe, Pune	Department of Electrical Engineering	ZCOER,Narhe, Pune	M.E. Power Systems

2017-18	07	ZCOER,Narhe, Pune	Department of Computer Engineering	ZCOER,Narhe, Pune (6) University of Dublin (1)	ME (6) M.S (1)
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5.2.3 Students qualifying in state/ national/ international level examinations during the year (eg: NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	No. of Students selected/ qualifying	Registration number/roll number for the exam
NET	-	-
SET	-	-
SLET	-	-
GATE	-	-
GMAT	-	-
CAT	-	-
GRE	-	-
TOFEL	-	-
Civil Services	-	-
State Government Services	-	-
Any Other	-	-

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

Activity	Level	Participants
Ranangan 2017	District	Cricket – 16 Volleyball – 12 Kabaddi – 12 Kho-Kho – 14 Basketball – 10 Football – 12 Total = 76
Abhinay-Acting	National	06
Bold Brush-Painting & Sketching	National	04
Foot loose-Dance	National	14
Fashionista_Fashion show	National	06
I-standup-Standup Comedy	National	02
Lens-Arc-Photography	National	08
Raaga- Singing	National	61
Treble makers-Battle of Bands	National	08
Word Smith- Prose & Poetry	National	10
VivekSindhu- Speaker Competition	State	20

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
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Nil

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

The various activities related to students are coordinated under Student Council. The secretary and members decided the coordinators for the various activities carried out in the campus.

The student council members put up the issues/problems of the students to Principal/Campus director following the proper protocol. The issues/problems raised by the students were resolved by authority at the earliest.

The activities carried out in the campus are –

1. Nirmaan
2. Talentron
3. Annual Sports (Rangaan)
4. Teachers Day celebration
5. Engineer's day celebration
6. Farewell program
7. Alumni meet

Convocation ceremony and many more.

5.3 Alumni Engagement

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

Yes, the institution has registered Alumni Association. The registration number is as follows.

MH/2099/2016/Pune Dated 22/12/2016

Vision:

“To be recognized as, one of the best alumni community, where every member contributes for diverse needs & interests of community.”

Mission:

“To establish cluster of alumni for interpersonal & communal benefits of all existing & aspiring members of the community by providing them platform to be connected with one another for sharing of valuable thoughts, updates in profession & being a real friend for lifetime.”

Objectives and Functions:

Recognition of Alumni Working in different industrial domains & bringing in continuous communication with them.

Registration of Alumni Association & formation of governing body for the same.

Collection of funds for strengthening association & making it capable to stand in reverence of needy ones.

Arranging Annual function for sharing of deep emotions about Alma Mater & putting innovative ideas before the management for overall improvement.

Creation of alumni web portal & maintaining the database of respective pass-out batches.

Sharing of community updates through social networking.

Looking for contribution of alumni members to enhance practical knowledge of students & imbibe them with advanced technologies being used in industry.

5.3.2 No. of registered enrolled Alumni:	814
5.3.3 Alumni contribution during the year (in Rupees) :	Nil
5.3.4 Meetings/activities organized by Alumni Association :	Nil

CRITERION VI –GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 Institutional Vision and Leadership

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

The top management delegates necessary authority to Principal to manage different functions with operational autonomy. Principal authorizes functional and fair autonomy to all departments and sections. Principal forms various functional committees and an appropriate power has been delegated to head/coordinator of the committees. The roles and responsibilities of these coordinators are listed below.

Designation	Roles and responsibilities
Principal	Implementation and monitoring of academic and administrative system to cater to vision and mission of the institute
Dean (Second Shift)	Academic and administrative functions of second shift programs of the institute
Director (Admission and Placements)	UG and PG admissions, Training and Placement activities in coordination with TPO and departmental coordinators
Dean (Academics)	Academic development and monitoring progress of various teaching/learning processes
Dean (R & D)	Monitors R&D activities in the institute
Dean Quality	Coordination of NBA and NAAC accreditation
HOD	Academic and administrative functions of the department
PG Coordinator	Academic activities of PG programmes
CEO	University examination activities
ARC	Academic and research activities of BCUD, SPPU
Nodal officer for NIRF	Activities of NIRF
NSS Coordinator	NSS activities of SPPU

SWO	Students' welfare activities of SPPU
TPO	Training and Placement activities
EDC Coordinator	EDC activities
Student association Coordinators	Planning, execution and supervision of activities of student association
Registrar/OS	Supervision and management of all administrative and operational functions
Accountant	Management of finance and account activities
Librarian	Management of learning resources

In addition to above, the coordinators of various committees at department level take decision and implement the action plans to support the quality policy of institute. Each faculty member is assigned department level work such as laboratory in-charge, class coordinator in addition to GFM. Few faculty members are assigned institute level portfolio depending upon their interest, experience and capability. The delegation of authorities at different levels supported with administrative and operational autonomy to the departments and units as mentioned in the table above shows the existence of decentralized governance system.

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: Being the affiliated institute, the institute implements the curriculum prescribed by Savitribai Phule Pune University (SPPU), Pune.
- ❖ Teaching and Learning: Monitoring of class room teaching and seeking live feedbacks has been started to strengthen the teaching learning process.
- ❖ Examination and Evaluation: The institute is bound to follow all procedures of examination and evaluation as defined by affiliating University and cannot have own procedures.
- ❖ Research and Development: Preparation of research file by each faculty which contains documentation of all research activities carried out by individual faculty member(s). The close monitoring of every individual's research file is done by Dean, R&D. Accordingly; necessary support has been extended to strengthen the research.
- ❖ Library, ICT and Physical Infrastructure / Instrumentation: No new strategies are adopted as the existing facilities are more than adequate and utilised almost optimally.
- ❖ Human Resource Management: The existing mechanism is continued.
- ❖ Industry Interaction / Collaboration: Institute has decided to strengthen industry institute interaction by
 - Increasing number of MoUs and taking periodic feedback for its execution.

<ul style="list-style-type: none"> • Conducting HR meets to develop the interaction with nearby industries for improvement in placement, quality of project work, revenue generation through consultancy. • Increasing number of industrial visits by students and faculty members 																																			
❖ Admission of Students: The existing mechanism is continued.																																			
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																																			
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6.3.2 Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year																																			
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Nil																																			

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)
FDP on “Advances in Power system”	20	05 to 09/06/2018
FDP on “Network analysis and synthesis”	20	05to 09/12/2017
FDP on “Electromagnetics”	50	07to 11/06/2017
FDP on “Analog, Digital Communication and Wireless Networks”	38	12to 16/12/2017
Seminar on "Intelligent Computing for future Internet	01	19 to 20/10/2018
IPR Strategies for Innovative research	01	13/04/ 2017
BE computer Engg. syllabus revision meet	01	30/01/ 2018
NPTEL Workshop	01	21/04/2018
M/C Learning and Data Science	01	23 to 24/02/2018
Workshop on "Future of Data"	01	09 to 10/02/2018
Workshop cum Championship on IOT Using Arduino	02	05 to 06/02/2018
Seminar on Intelligent computing for future Internet	01	19 to 20/01/2018
Embedded Systems and IOT	01	18 to 23/12/2017
Workshop on Emergingresearch trends in computing, communication and storage	01	27 to 28/01/2017
Refresher Program "Discrete Mathematics and mathematical model	01	06 to 10/06/2017
Two days state level workshop on "Future of Data", VIIT Pune	01	09 to 10/02/2018
Training Program(FDP) in Teaching Learning Centre, by IIT Mumbai	01	28/11/2017 to 20/12 /2017
FDP on Web Technology	01	13to 15/12/2017
AICTE- ISTE Approved One week STTP Program on Fluid Mechanics at ZCOER, Pune	26	11to 16/12/2017
NBA Orientation program	16	30to 31/10/2017
5 th Techno Sociatal Theme Meeting on "Advanced Technologies in Service of Rural India" at SVERI, Pandharpur	03	04to 05/11/2017
STTP On PDD	03	07to11/05/2018
FDP on "Recent trends & challenges in materials and manufacturing processes”	03	13 to 23/11/2017
One Day Workshop On “ How To Draft A Research Proposal”	01	31/08/2017
AICTE- ISTE Approved One week STTP on Refrigeration and Air Conditionig at COEP, Pune.	01	26to 30/12/2017
AICTE ISTE Approved Two week FDP on "Matlab& Simulink" at SKNCOE Pune	01	04to 15/12/2017

6.3.4 Faculty and Staff recruitment (no. for permanent/fulltime recruitment):				
Teaching		Non-teaching		
Permanent	Fulltime	Permanent	Fulltime/temporary	
126	211	46	127	
6.3.5 Welfare schemes for				
Teaching		Employee insurance scheme		
Non teaching		Employee insurance scheme		
Students		1. Karmveer Bhaurao Patil Earn and Learn Scheme under SPPU. 2. Special Guidance Scheme for first year engineering Students.		
6.4 Financial Management and Resource Mobilization				
6.4.1 Institution conducts internal and external financial audits regularly (with in 100 words each)				
The institute has a mechanism for internal and external audit as follows.				
Mechanism for internal audit:				
<ul style="list-style-type: none"> The board of trustees of Zeal Education Society appoints internal auditors for conducting internal audits of its institutes. The team of one institute conducts audit for the other institute. The audit report is submitted to Principal and management. The Principal and accountant take care of doing compliance of the objections raised if any. 				
Mechanism for external audit:				
The statutory audit is conducted once every year by registered Chartered Accountant firm.				
		External Auditor	Last Date of Audit	
		P. G. Patil and Associates, Chartered Accountant, 6 th floor, Vidyadhar Heights, Guru Ganpati Square, Narayan Peth, Pune-411030	31/10/2018	
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	
		Nil		
6.4.2 Total corpus fund generated Nil				
6.5 Internal Quality Assurance System				
6.5.1 Whether Academic and Administrative Audit (AAA) has been done?				
Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	No	-	Yes	Academic monitoring committee
Administrative	No		No	
6.5.2 Activities and support from the Parent – Teacher Association (at least three)				
As there is no statutory provision of affiliating University and State Government of Maharashtra to have				

official parent teacher association, the institute does not have official Parent-Teacher Association. However, a parent meet is organized once in semester and their feedback is taken.				
6.5.3 Development programmes for support staff (at least three)				
The institute supports to participate in				
<ol style="list-style-type: none"> 1. Hands-on training 2. Seminar on ethical and Universal values 3. Yoga sessions 				
6.5.4 Post Accreditation initiative(s) (mention at least three)				
<ol style="list-style-type: none"> 1. Online feedback system 2. Live feedback of classroom teaching 3. Preparation of research file 				
6.5.5				
a. Submission of Data for AISHE portal : (Yes)				
b. Participation in NIRF : (Yes)				
c. ISO Certification : (No)				
d. NBA or any other quality audit : (No)				
6.5.6 Number of Quality Initiatives undertaken during the year				
Year	Name of quality initiative by IQAC	Date of conducting activity	Duration (from-----to-----)	Number of participants
2018	Academic Audit	26/04/2018	01/07/2017 to 30/06/2018	All departments

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
Republic day Celebration 2018	25/01/2018 to 26/01/2018	700	1500
Shiva Jayanti Celebration	19/02/2018	500	900

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

A 120kW Solar system is installed in September 2017 as a part of alternate energy initiative. Percentage of power requirement of the College met by the solar system is 35-40%.

7.1.3 Differently abled (Divyangjan) friendliness

Items Facilities	Yes/No	No. of Beneficiaries
Physical facilities	Yes	-
Provision for lift	Yes	3
Ramp/ Rails	Yes	4
Braille Software/facilities	No	-
Rest Rooms	No	-
Scribes for examination	Yes	-
Special skill development for differently abled students	Yes	1

Any other similar facility		Yes		-		
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
2017-18	1	02	10/11/2017 to 17/12/2017	Zeal Maths Olympiad Examination	Add on facilities available, skill development. Music and dance studios, incubation centre	1450
7.1.5 Human Values and Professional Ethics						
The preparation of code of conduct for various stakeholders is started and will be probably published in academic year 2018-19.						
Code of conduct (handbooks) for various stakeholders						
Title		Date of Publication		Follow up (maximum 100 words each)		
Nil						
7.1.6 Activities conducted for promotion of universal Values and Ethics						
Activity		Duration (from-----to-----)		Number of participants		
Session by Dr. Jayant Narlikar		22/09/2017		747		
Session by Mr. ShivkumarDige		19/02/2018		760		
7.1.7 Initiatives taken by the institution to make the campus eco-friendly						
<ol style="list-style-type: none"> 1. Energy conservation by installation of 120 KW solar system 2. Tree plantation program 3. Cleanliness drive 4. Rainwater harvesting 5. solid waste management 						
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 http://zcoer.in/iqac-mom/						
The institute has adopted the following two best practices in AY 2015-16 and looking at their success, the same are continued. Best Practice 1: Value addition training for students Goal:						
<ul style="list-style-type: none"> • To strengthen the fundamentals and the concepts. 						

- To bridge the gap between theory and its application in practice.
- To understand the specifications and detailed knowhow about the components, practices and procedures.
- To understand the practical problems and issues.
- To get the exposure to the real life practices and market trends.
- To provide strong self practice for the core technical work to gain the expertise.
- To interact with practicing professionals and understand the critical issues of application area. This will in turn boost the confidence and enhance the employability.
- To improve ability to face interview.
- To make students more familiar with industrial requirements.
- To provide experience of actually doing something rather than learning from books.

The Context:

It is important to have a sound grasp of the theory that underlies any profession or industry. However engineering graduates are lacking in application of this theory in practice. It is therefore essential to bridge this gap by undertaking hands on training. There are some skills that can only be learned through hands on practice. It's important that much of the learning material in any given course should be provided in a way that allows students to get involved practically to increase their knowledge and abilities.

To enhance the employability and inculcate the graduate attributes as per the guidelines of outcome based education, it is necessary to imbibe skill sets in the engineering graduates. To meet this requirement, institute has made a practice to provide hands on training to all the students every year.

In the present context, as per the NASCOM and other reports, only 25 % of the engineering graduates are employable. This is indicative of lack of employability amongst the engineering graduates. It is essential that the information need to be converted into knowledge and knowledge in to the skill set. With the use of latest ICT tools and the technical skills would definitely enhance the employability and the confidence in engineering graduates. As there are many avenues as per the new policies of Govt. of India like Digital India, Make in India and the supports like NSDC, students can acquire necessary skill set and support to start their own start up.

Best Practice 2: To inculcate the entrepreneurship and self-employment among students.

Goals:

- To provide the strong technical platform to the Engineering students in the field of technology and state of art skill development.
- To share the experiences and challenges faced by successful entrepreneurs to the budding Engineers.
- To confer the employability to weaker sections as a part of social responsibility.
- To strengthen the interdisciplinary bonding by sharing the technologies from different disciplines of Engineering.
- To promote interdisciplinary and collaborative activities leading to self-employment.
- To support and guide the students to develop commercial product through their final year projects.

The Context:

In the present context, as per the NASCOM and other reports, only 25 % of the Engineering graduates are employable. This is indicative of lack of employability amongst the engineering graduates. It is essential that the information need to be converted into knowledge and knowledge in to the skill set. With the use of latest ICT tools and the technical skills would definitely enhance the employability and the confidence in engineering graduates. As there are many avenues as per the new policies of Government of India like Digital India, Make in India and the supports like National Skill Development Corporation, students can acquire necessary skill set and support to start their own start up.

To be an entrepreneur, one needs to have confidence in his idea, risk taking ability and decision making power for implementation of that idea. The budding entrepreneurs are lacking in putting more efforts towards studying the current market trends and are also having less inclination towards working hard and pursuing their dreams. Financial literacy among budding entrepreneurs is another important aspect. To inculcate this aspect among the aspirants, the institute has organized a session of experts from banking sector.

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 weblink of the institution in not more than 500 words <http://zcoer.in/iqac-mom/>

Institute focuses on imparting value added education in addition to curricula prescribed by affiliating University. In AY 2013-14, based on the feedback given by recruiters, institute started value addition courses for the overall development of students. Since then, the institute is arranging training in the recently acknowledged technology, aptitude and soft skill. This has continuously increased placement and entrepreneurs among the students.

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

1. To enhance the technical skills of students, more emphasis will be given on mini-projects (beyond curriculum) at FE, SE and TE level.
2. Hands on training to students of various programs as a part of skill development.
3. To form patent cell and support the students and faculty members for filing the patents.
4. To strengthen industry institute interaction cell
5. To collaborate with foreign Universities for student and faculty exchange programs

Dr. P. P. Walvekar

Coordinator, IQAC

Dr. A. M. Kate

Chairperson, IQAC
