

# ANNUAL QUALITY ASSURANCE REPORT

(AQAR)

(2016 - 2017)

Submitted by



**Internal Quality Assurance Cell**

**Dr. Vithalrao Vikhe Patil College of Engineering,  
Vadgaon Gupta, (Vilad Ghat), P.O. MIDC,  
Ahmednagar – 414111, Maharashtra**

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# The Annual Quality Assurance Report (AQAR) of the IQAC

(2016-17)

## Part – A

### 1. Details of the Institution

#### 1.1 Name of the Institution

Dr. Vithalrao Vikhe Patil College of Engineering

#### 1.2 Address Line 1

Vadgaon Gupta (Vilad Ghat)

Address Line 2

P.O : M.I.D.C.

City/Town

Ahmednagar

State

Maharashtra

Pin Code

414 111

Institution e-mail address

prin\_coea@yahoo.com

Contact Nos.

0241-2777296 , 2779496

Name of the Head of the  
Institution:

Prof. Dr. Jayakumar Jayaraman

Tel. No. with STD Code:

0241-2777296, 2779496

Mobile:

08554990210

Name of the IQAC

Dr. Shirke Ankush Jagannath

Co-ordinator:

Mobile:

09822430934

IQAC e-mail address:

shirkeaj@gmail.com

**1.3 NAAC Track ID**

MHCOGN23406

**1.4 NAAC Executive  
Committee No. & Date:**

EC(SC)14/A & A/36.1 dated 29/03/2016

**1.5 Website address:**

http://www.enggnagar.com

Web-link of the AQAR:

http://www.enggnagar.com/AQAR

**1.6 Accreditation Details**

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 <sup>st</sup> Cycle	B	2.35	2016	Up to 28/03/2021
2	2 <sup>nd</sup> Cycle	--	--	--	--
3	3 <sup>rd</sup> Cycle	--	--	--	--
4	4 <sup>th</sup> Cycle	--	--	--	--

1.7 Date of Establishment of IQAC: DD/MM/YYYY

18/08/2016

**1.8 AQAR for the year**

2016-17

**1.9 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC ((for example AQAR 2010-11 submitted to NAAC on 12-10-2011))**

Nil

**1.10 Institutional Status**

University

State

Central

Deemed

Private

Affiliated College

Yes

No

**Constituent College** Yes  No

**Autonomous college of UGC** Yes  No

**Regulatory Agency approved Institution** Yes  No

(eg. AICTE, BCI, MCI, PCI, NCI)

**Type of Institution** Co-education  Men  Women

Urban  Rural  Tribal

**Financial Status** Grant-in-aid  UGC 2(f)  UGC12B

Grant-in-aid + Self Financing  Totally Self-financing

### 1.11 Type of Faculty/Programme

Arts  Science  Commerce  Law  PEI (Phys Edu)

TEI (Edu)  Engineering  Health Science  Management

Others (Specify)

### 1.12 Name of the Affiliating University

Savitribai Phule Pune University, Pune

### 1.13 Special status conferred by Central/ State Government - UGC/CSIR/DST/DBT/ICMR etc

Autonomy by State/Central Govt. / University

University with Potential for Excellence  UGC-CPE

DST Star Scheme  UGC-CE

UGC-Special Assistance Programme  DST-FIST

UGC-Innovative PG programmes  Any other

## 2. IQAC Composition and Activities

2.1 No. of Teachers	08
2.2 No. of Administrative/Technical staff	02
2.3 No. of students	
2.4 No. of Management representatives	02
2.5 No. of Alumni	01
2.6 No. of any other stakeholder and community representatives	
2.7 No. of Employers / Industrialists	04
2.8 No. of other External Experts	
2.9 Total No. of members	16
2.10 No. of IQAC meetings held	01

2.11 No. of meetings with various stakeholders: No.  Faculty

Non-Teaching Staff  Students  Alumni  Others

2.12 Has IQAC received any funding from UGC during the year? Yes  No   
If yes, mention the amount

2.13 Seminars and Conferences (only quality related)

(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC

Total Nos.  International  National  State

Institution Level

(ii) Themes

1. One Day Avishkar Orientation Workshp -2016
2. Regional Research conference for University & College Teachers in Engineering & Pharmacy **Innovation-2016**
3. National Conference on Recent Advances in Mechanical Engineering, RAME-2017
4. Recent Trends in Electronics and Telecommunication Engineering
5. Recent Advances in Power Systems

## 2.14 Significant Activities and contributions made by IQAC:

- E - Attendance for students is implemented.
- All the departments are equipped with e-resources like wall-mounted LCDs, laptops, etc.
- WIFI facility is extended to all the hostels and classroom blocks to have a 24x7 internet access.
- Through periodic feedbacks obtained from students, alumni, parents and other stake holders on quality related areas, the learning process is assessed and improvement measures are suggested to ensure quality enhancement and excellence.

## 2.15 Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year \*

Plan of Action	Achievements
Year Plan	All the departments were encouraged to prepare a Year plan in the beginning of the year which facilitated them to plan and execute various programmes effectively.
One Day Workshop	One day Workshop was organized for the Teaching Staff and BE students of college on the theme of “Avishkar Orientation Worksop-2016” on 29 <sup>th</sup> Sept. 2016
National Conference	Organized for the entire Teaching Staff of Mechanical Engineering on the theme of “Recent Advances in Mechanical Engineering” on 17 <sup>th</sup> & 18 <sup>th</sup> Feb. 2017
State Level Conference	Organized for the Teaching Staff & BE Students of Electronics and Telecommunication Engineering on the theme of “Recent Trends in Electronics and Telecommunication Engineering” on 01 <sup>st</sup> Jan. 2017
Two Days State level Seminar	Organized for the Teaching Staff & BE Students of Electrical Engineering on the theme of “Recent Advances in Power Systems” on 20 <sup>th</sup> & 21 <sup>st</sup> Jan. 2017
Promotion of e-resources	e - Attendance for students was implemented on a trial basis. WIFI facility is extended to all the hostels.
Feedback	Online feedback received from the students

\* Attach the Academic Calendar of the year as Annexure.

2.15 Whether the AQAR was placed in statutory body Yes  No   
 Management  Syndicate  Any other body

Provide the details of the action taken:

Measures were taken to strengthen the on-campus placement

**Part – B**  
**Criterion – I**

**1. Curricular Aspects**

**1.1 Details about Academic Programmes**

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD	--	--	--	--
PG	02	--	02	--
UG	05	--	05	--
PG Diploma	--	--	--	--
Advanced Diploma	--	--	--	--
Diploma	--	--	--	--
Certificate	--	--	--	--
Others	--	--	--	--
<b>Total</b>	07	--	07	--
Interdisciplinary	--	--	--	--
Innovative	--	--	--	--

**1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option / Open options**

(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	UG:05, PG:02
Trimester	--
Annual	--

**1.3 Feedback from stakeholders\*** Alumni  Parents  Employers  Students

Mode of feedback : Online  Manual  Co-operating schools

*\*Please provide an analysis of the feedback in the Annexure*

**1.4 Whether there is any revision/update of regulation or syllabi, if yes,**

YES, Syllabus updated in accordance with Industrial needs by Savitribai Phule Pune University, Pune

**1.5 Any new Department/Centre introduced during the year. If yes, give details.**

No

## Criterion – II

### 2. Teaching, Learning and Evaluation

#### 2.1 Total No. of permanent faculty

Total	Asstt. Prof.	Associate Professor	Professor	Other (Prof. Emeritus)
46	35	10	01	01

#### 2.2 No. of permanent faculty with Ph.D.

04

#### 2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year

Asstt. Professors		Associate Professors		Professors		Others		Total	
R	V	R	V	R	V	R	V	R	V
106	--	10	22	04	14	--	--	120	27

#### 2.4 No. of Guest and Visiting faculty and Temporary faculty

01

--

--

#### 2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended Seminars/ Workshops	04	35	35
Presented papers	20	12	04
Resource Persons	--	05	03

#### 2.6 Innovative processes adopted by the institution in Teaching and Learning:

- a) Faculty members are continuously doing the research and experiments to develop novel teaching methodologies. Some of the methods adopted are:
- Difficult concepts are taught through ppt, animations and audio visual aids.
  - Finding curriculum gap from university syllabus and bridge it in curriculum.
  - Providing industrial exposure to the students through industrial visits, study visits and visits at different projects.
  - Permitting students for industrial training during vacation.
  - Subscribing important e-journals for all discipline to impart current technologies, methods etc.

- Students are encouraged for different seminars, workshops, paper presentation, research project, technical exhibitions etc. through financial assistant by institute.
- Academic calendar are displayed at the departmental notice board.
- Arranging expert lectures/guest lectures on different topics like anti ranging, women empowerment, soft skill etc.
- Institute has provided Intel test software free of cost to practice the mock on line test before University online examination to all FE & SE students.

b) Institute always motivates the faculties to adopt and use new techniques and tools in teaching for betterment of students learning. Some of the facilities provided are,

- LCD projectors in classrooms.
- OHP in the classrooms
- Licensed software packages.

c) The impact of such innovative practices

- It helped in increasing the performances of students in theory, oral and online examinations.
- It has also culminated into improved university examination results of the students.

**2.7 Total No. of actual teaching days during this academic year : 186 days**

**2.8 Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions)**

Online Multiple Choice Questions

- Photocopy of Answer Scripts for UG & PG Programmes
- Bar Coding Methods

**2.9 No. of faculty members involved in curriculum restructuring/revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop**

01	--	20
----	----	----

**2.10 Average percentage of attendance of students:** 77 %

## 2.11 Course/Programme wise distribution of pass percentage:

Title of the Programme	Total no. of students appeared	Distinction	I Class	II Class	Pass Class	Pass %
Civil Engineering	160	42	71	06	--	74.37
Mechanical Engineering	213	53	93	20	--	77.93
Electrical Engineering	86	28	33	07	--	79.06
E&TC	163	108	40	--	--	90.79
Information Technology	73	44	24	01	--	94.52
Instrumentation & Control	46	21	05	01	--	58.69

## 2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes :

### Contributes through

- Idea generation
- Systematic planning in staff meeting
- Time bound implementation through academic calendars
- Promoting actions and development through research –teaching learning processes
- Motivating the staff members to apply for funded research and consultancy projects.
- Providing information about the various fellowships / Conferences / Symposia / Workshops to the staff members and encouraging them to apply and attend.

### Monitors through

- Periodically meetings with staff
- Lesson plans and weekly logbooks
- Performance Appraisals(Self)
- Academic monitoring by Dean, Academics

### Evaluates through

- Students feedback
- Confidential report from the Head of the Departments
- Alumni feedback.

- Year Plan preparation helps to achieve the goals
- The Academic Dean is appointed for continuous monitoring and evaluation of the teaching & learning processes
- Online Feedbacks were obtained from the students through Structured Questionnaires related to Teaching Learning process
- Ensures the meeting of Board of Studies to update the curriculum in all disciplines

### 2.13 Initiatives undertaken towards faculty development

Faculty / Staff Development Programmes	Number of faculty benefitted
Refresher courses	--
UGC – Faculty Improvement Programme	--
HRD programmes	--
Orientation programmes	--
Faculty exchange programme	--
Staff training conducted by the university	09
Staff training conducted by other institutions	--
Summer / Winter schools, Workshops, etc.	51
Others	67

### 2.14 Details of Administrative and Technical staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	38+42 (Peon)	--	--	--
Technical Staff	40	--	--	--

## Criterion – III

### 3. Research, Consultancy and Extension

#### 3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution

- The faculties are encouraged to complete their M.Tech. and Ph.D. through study leave.
- Encourages Paper Presentation, Paper Publication in refereed journals, SCI journals and journals with high impact factor.
- Motivates the Faculty to apply for Major and Minor Research Projects from various funding agencies like SPPU, AICTE and ISRO etc.
- Encouraging faculty members to organize workshop, seminars and conferences with funding internally and from AICTE, BCUD, etc.
- Motivating faculty members to attend national / international conferences conducted in the institute and at other organizations, Institute provides registration fees, conveyance, on duty leaves.
- Encouraging the students and faculty members to present research papers at National and International level conferences / symposia. The Faculty members are also encouraged to participate and deliver Special lectures to students at various levels

#### 3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	--	--	--	02
Outlay in Rs. Lakhs	--	--	--	36,64000

#### 3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	01	02	--	--
Outlay in Rs. Lakhs	1,50,000	3,16,000	--	--

#### 3.4 Details on research publications

	International	National	Others
Peer Review Journals	04	--	--
Non-Peer Review Journals	22	--	--
e-Journals	--	--	--
Conference proceedings	07	17	05

**3.5 Details on Impact factor of publications:**

Range  Average  h-index  Nos. in SCOPUS

**3.6 Research funds sanctioned and received from various funding agencies, industry and etc.**

Nature of the Project	Duration Year	Name of the funding Agency	Total grant sanctioned	Received
Major projects	--	--	--	--
Minor Projects	2016-18	BCUD, SPPU, Pune	3.16 lac	--
Interdisciplinary Projects	--	--	--	--
Industry sponsored	--	--	--	--
Projects sponsored by the University/ College	2015-16	BCUD, SPPU, Pune	3,16,000	1,58,000
Students research projects ( <i>other than compulsory by the University</i> )	--	--	--	--
Any other(Specify)	--	--	--	--
Total			3,16,000	1,58,000

**3.7 No. of books published** i) With ISBN No.  Chapters in Edited Books

ii) Without ISBN No.

**3.8 No. of University Departments receiving funds from**

UGC-SAP  CAS  DST-FIST

DPE  DBT Scheme/funds

**3.9 For colleges** Autonomy  CPE  DBT Star Scheme

INSPIRE  CE  Any Other (specify)

**3.10 Revenue generated through consultancy**

**3.11 No. of conferences organized by the Institution**

Level	International	National	State	University	College
Number	--	01	02	01	--
Sponsoring agencies	--	BCUD, SPPU, Pune	BCUD, SPPU, Pune	BCUD, SPPU, Pune	--

**3.12 No. of faculty served as experts, chairpersons or resource persons**

**3.13 No. of collaborations** International  National  Any other

**3.14 No. of linkages created during this year**

**3.15 Total budget for research for current year in lakhs:**

From funding agency	<input type="text" value="1,58,000"/>
From Management of University/College	<input type="text" value="--"/>
Total	<input type="text" value="1,58,000"/>

**3.16 No. of patents received this year**

Type of Patent		Number
National	Applied	--
	Granted	--
International	Applied	--
	Granted	--
Commercialised	Applied	--
	Granted	--

**3.17 No. of research awards/ recognitions received by faculty and research fellows of the institute in the year - Nil**

Total	International	National	State	University	Dist	College
--	--	--	--	--	--	--

**3.18 No. of faculty from the Institution who are Ph. D. Guides:**

**and students registered under them**

**3.19 No. of Ph.D. awarded by faculty from the Institution**

03

**3.20 No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones)**

JRF -- SRF -- Project Fellows -- Any other --

**3.21 No. of students Participated in NSS events:**

University level 150 State level --

National level -- International level --

**3.22 No. of students participated in NCC events:**

University level -- State level --

National level -- International level --

**3.23 No. of Awards won in NSS:**

University level -- State level --

National level -- International level --

**3.24 No. of Awards won in NCC:**

University level -- State level --

National level -- International level --

**3.25 No. of Extension activities organized**

University forum 03 College forum 05

NCC -- NSS 01

**3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility**

- Educational Tour of all departments organized by Institute as academic curriculum of SPPU, Pune.
- NSS camp organized by Institute at Jakhangaon, Tal. and Dist. Ahmednagar
- Avishkar orientation workshop for engineering, Pharmacy and MBA students organized by institute at college campus.
- Blood donation camp organized by Institute.
- Tree plantation programme arranged by Institute on 1/07/2016 in campus.
- Innovation- 2016 regional research conference for University Teachers dated 4<sup>th</sup> Oct. 2016
- Graduation ceremony organised by institute for graduate students of our college.
- Road cleaning camp at Jakhangaon, Tal. and Dist. Ahmednagar.
- Environmental awareness camp at college campus.

## Criterion – IV

### 4. Infrastructure and Learning Resources

#### 4.1 Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	67358.1Sqm	--	--	67358.1Sqm
Class rooms	3342 Sqm	--	College Management	3342 Sqm
Laboratories	6429.97Sqm	--	College Management	6429.97Sqm
Seminar Halls	855 Sqm	--	College Management	855 Sqm
No. of important equipments purchased ( $\geq$ 1-0 lakh) during the current year.	02	--	BCUD, SPPU, Pune	02
Value of the equipment purchased during the year (Rs. in Lakhs)	2.30	--	BCUD, SPPU, Pune	2.30
Others	--	--	--	--

#### 4.2 Computerization of administration and library

- Online Hall Ticket
- Online Feedback
- e-Attendance for Students

#### 4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	35809	8863974	473	303506	36282	916748 0
Reference Books	6315	5719095	19	50204	6334	576929 9
e-Books	1613	DELNT Membership	2000	Free e- Journals	3613	--

Journals	--	--	56	143000	56	143000
e-Journals	--	--	532	1945327	532	1945327
Digital Database	1	66000	--	--	1	66000
CD & Video	1326	Free	--	--	1326	--
Others (specify) Literature & General	949	223746	--	--	949	223746

#### 4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	608	22	02	02	01	01	05	03
Added	--	--	--	--	--	--	--	--
Total	608	22	02	02	01	01	05	03

#### 4.5 Computer, Internet access, training to teachers and students and any other programme for technology up gradation (Networking, e-Governance etc.)

- Wi-Fi extended to all Hostels
- Security System CCTV extended to examination office
- e-Attendance Training Programme for Teaching Staff

#### 4.6 Amount spent on maintenance in lakhs :

i) ICT	20,71,223
ii) Campus Infrastructure and facilities	2,49,151
iii) Equipments	35,59,510
iv) Others	6,10,580
<b>Total :</b>	<b>64,90,464</b>

## Criterion – V

### 5. Student Support and Progression

#### 5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- Extension of timing in the library: The working hour of the Library has been extended till 6.30 p.m. for the benefit of the students. Hostel inmates are permitted to use the library as the study-hall and can carry their personal notes / books during these hours.
- 24x7 Wi-Fi Facility is provided for the students to use their Laptops in the college premises.
- Tuition Fee Concession, Mess Fee Concession and 24 hours Free Medical facilities are provided by the Management in the campus.
- “Earn and Learn” scheme supports students.
- Alumni Buddy Connect helps students gain knowledge in Computer and Soft skills.

#### 5.2 Efforts made by the institution for tracking the progression

- All departments conduct mid-term tests for all the courses twice in each semester to assess the standard and progression.
- The mentors regularly monitor the progress and regularity of the students and offer guidance to improve their performance in all aspects.
- The mentors in discussion with the head of the department invite the parents of those students who are found to be irregular, possessing poor performances

#### 5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
1900	63	Nil	--

(b) No. of students outside the state

(c) No. of international students

Men

No	%
--	--

Women

No	%
--	--

2016-17						2017-18					
General	SC	ST	OB	Physically	Total	General	SC	ST	OB	Physically	Total
1			C	Challenged		1			C	Challenged	
875	164	14	910	--	1963	This year admission process is in progress					

Demand ratio 1:420

Dropout 1.99%

#### 5.4 Details of student support mechanism for coaching for competitive examinations (If any)

1. Aptitude Test Training Program (general and technical) for aspirants were conducted regularly
2. Motivational seminars organized
3. Free Foreign language Training Program (German) organized.

No. of students beneficiaries

959

#### 5.5 No. of students qualified in these examinations

NET	<input type="text" value="---"/>	SET/SLET	<input type="text" value="--"/>	GATE	<input type="text" value="35"/>	CAT	<input type="text" value="--"/>
IAS/IPS etc	<input type="text" value="---"/>	State PSC	<input type="text" value="--"/>	UPSC	<input type="text" value="--"/>	Others	<input type="text" value="--"/>

#### 5.6 Details of student counselling and career guidance

##### Personal Problem

- Issue of self-esteem
- Transition to College,
- Depression, Anxiety, Confusion or Stress
- Loneliness, love affairs, unhealthy relationship
- Anger, Relationship issues, grief and loss
- Difficulty in making decisions
- Uncertainty about the future, suicidal thoughts
- Alcoholism and Smoking

### Academic issues

- Trouble with concentrating on studies or attending classes
- Poor academic performance, long absent
- Lack of communication
- Difficulty in adjusting to college life

### Details of Student Career Guidance

1. Counseling on Overseas Opportunities available in Indian Army by Lt. Col. Sunil Kumar and Major. Rishi Mehrotra MIRC, Ahmednagar
2. Upcoming Scenario & opportunities in I.T. Sector by Mr. Avinash Chandra Peddi Apps. Planet Technologies, Pune
3. Cloud Computing- Job Opportunities by Mr. Mandar Bawadekar, GNS Technologies, Pune
4. Importance of Entrepreneurship & Startup by Mr.. Paresh Bora, Director, ICA, Ahmednagar
5. NX CAD Awareness Programme by Mr. Swapnil Gulhane, G Square Techsystems Pvt. Ltd.

No. of students benefitted

480
-----

### 5.7 Details of campus placement

On campus			Off Campus
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
32	280	103	40

### 5.8 Details of gender sensitization programmes

The Internal complaints Committee for woman have organized the Gender Sensitization Programme for the Teachers, Employees and Students for this academic year (2016 – 2017) under Maharashtra State Commission of Woman. Following programs were organized

- Personality Development Programme was conducted in which more than 360 female students have participated and got benefited.
- Yoga for mind and physical fitness programme was organized for female students of our college and more than 300 students participated and got benefited.

- Zumba and Areobics for physical fitness an awareness campaign was organized for female students of our college by Ms. Taruna Pansare dated 27/02/2017 and more than 360 female students have participated and got benefited.
- Communication, Ethics and Anger Management programme was organized for female students of our college by Ms. Manisha Phatak dated 27/02/2017 and more than 360 female students have participated and got benefited.
- Every year in the Department of Physical Education, the Women Self – Defence Free Training Programmes are conducted in which more than 200 female students have participated and got benefited.

## 5.9 Students Activities

### Student Welfare Cell

- Students participated in training and orientation programs for various competitive exams, sports and got benefited
- The members of the students Welfare Cell were trained to address the professional and personal grievances of the students.
- The members of the Cell had interaction with the teachers to maintain discipline among the students in the class rooms and also directed them to carry identity cards.
- Discussed about the regular absentees and drop-outs and got the list of those students by consulting the course teachers and asked them to offer counselling.
- An Anti-Ragging Committee is constituted every year comprising of the faculty, and the committee visited the hostels and counselled the senior students on the evils of ragging.
- Remedial classes were conducted for academically weak students.
- During student unrest on campus, the teaching staff extended counsel to the students so as to make them realize the value of academic life.
- Leadership training programmes, personality development programmes, soft skill development programmes were organized.
- Computer Lab with internet facilities has been functioning exclusively for the students from 9.30 a.m. to 5.00 p.m. on all working days.

#### 5.9.1 No. of students participated in Sports, Games and other events

State/ University level  National level  International level

No. of students participated in cultural events

State/ University level  National level  International level

**5.9.2 No. of medals /awards won by students in Sports, Games and other events**

State/ University level  National level  International level

Cultural: State/ University level  National level  International level

**5.10 Scholarships and Financial Support**

	Number of students	Amount
Financial support from institution	80	11,45,343
Financial support from government	1583	80730108
Financial support from other sources	--	--
Number of students who received International/ National recognitions	--	--

**5.11 Student organised / initiatives**

**Fairs:**

State/ University level  National level  International level

**Exhibition:**

State/ University level  National level  International level

**5.12 No. of social initiatives undertaken by the students**

**5.13 Major grievances of students (if any) redressed: NO MAJOR GRIEVANCES**

## Criterion – VI

### 6. Governance, Leadership and Management

#### 6.1 State the Vision and Mission of the institution

**Vision:** It is aim to provide the finest environment for teaching, learning, research, innovation and character building so as to mold youth of today into world-class technocrats of tomorrow who would endeavor to increase the quality of life for mankind.

**Mission:** Dr. Vithalrao Vikhe Patil College of Engineering Ahmednagar is committed to impart excellent technical education to the students to create techno excellent citizens who will keep abreast with the changing technology and will be retaining rich cultural identity to the full satisfaction of our stakeholders and society at large with further commitment to serve the nation.

#### 6.2 Does the Institution has a management Information System

Yes,

Customized software is used for administration which includes Student Management, Staff Management and Accounts Management.

The IT support team of our college designed and executed a system for online hall ticket, student feedback and has also developed software to manage student admissions.

#### 6.3 Quality improvement strategies adopted by the institution for each of the following:

##### 6.3.1 Curriculum Development

- The design and development of the curriculum is done by SPPU, Pune and it is adopted by the institution for each disciplines.
- The Choice Based Credit System (CBCS) facilitates to introduce innovative and revise the syllabus in tune with changing demands of the industry and society by SPPU, Pune
- Subjects beyond the syllabus are framed by each department by taking feedbacks from Industry, Alumni, etc

##### 6.3.2 Teaching and Learning

The Institute ensures effectiveness of the teaching-learning process by:

- Implementation of effective timetable considering University curriculum and giving wieghtage to some subjects by allocating extra hours of teaching.

- Proper conduction of theory and practical session and reviewed by academic committee
- Subject teacher prepares detail teaching plan that is strictly followed.
- Use of teaching aids like OHP, PPT, Audio Video Lectures etc.
- During practical session, care is taken such that every student gets chance to perform the practical and assessment is done continuously. During continuous assessment weightage is given to attendance, test performance, viva etc.
- A 20 student's batch – tutor/mentor system is implemented for development of repo between student and faculty. This leads to an environment where question answer session, interaction, development of personality is very much effective.
- Demo practical/oral sessions are arranged to get expertise in their areas.
- Institute promotes students for technical visits/seminars/workshops/paper presentation/participation in competitions by providing financial support.
- Recruitment of well qualified and experienced faculty as per AICTE norms.
- Subject allocation to the faculty before the commencement of the semester to help them prepare teaching plan and lesson notes.
- Review of the academic results of the previous year& result analysis is prepared.
- To bridge the curricular gap contents beyond the syllabus are taught by subject experts.
- Feedbacks are taken from students to assess the teaching skills of the faculty.

### **6.3.3 Examination and Evaluation**

- The separate College Examination Officer (CEO) is appointed by college as per rule of SPPU, Pune.
- The theory / practical examinations are conducted at the end of every semester according to the guidelines of the SPPU, Pune.
- The Online Phase-I & Phase-II are conducted by institute as per guidelines of SPPU, Pune.
- The date session, the number of students is fixed by the Controller of Examination.
- The University appoints an external examiner from other institution / University to conduct practical examinations.
- Paper assessment of all theory examination is done at various CAP center of university.

- For internal (practical) term work marks the students take two tests, lab seminars and viva during the practical classes in order to ensure continuous assessment. Record notebooks are evaluated and marks included for internals.
- Counselling students by monitoring their regularity, punctuality, towards work, professionalism, commitment to work etc.

#### **6.3.4 Research and Development**

- a) Research and development cell is one of the wings of the Institute which facilitates, channelizes, records, and regulates all the academic, sponsored, collaborative research projects and consultancy works in the Institute.
- b) The goal of the Institute is to provide a creative atmosphere in which higher studies and research thrive amongst the faculty and students. It also promotes and manages Institute-Industry interaction.
- c) Academic research committee involves in administering research projects sponsored by various Government and non-Government, research funding agencies such as AICTE, SPPU (BCUD) etc, and promotion of collaborative research partnerships for undertaking creative and advanced research, guidance to PG students and faculty pursuing their PhD's.

#### **6.3.5 Library, ICT and physical infrastructure / instrumentation**

- (a) 24x7 Wi-Fi facility is provided for the students to use their laptops in the college premises.
- (b) The working hours of the Library is extended till 9.30 p.m. for the benefits of the students. Hostel inmates are permitted to use the library as the study-hall and can carry their personal notes / books during these hours.
- (c) The college campus has been monitored with CCTV facility for vigilance.
- (d) ICT enabled class rooms

#### **6.3.6 Human Resource Management**

- (a) Special training programmes like Spoken English, Imparting and enhancing employability skills were carried out for young faculty and non-teaching staff to enhance work efficiency.
- (b) Motivating the faculty members to write research proposals for grants and to present papers in seminars and conferences
- (c) Encouraging the faculty members to enroll for Ph.D. programs
- (d) Encouraging the teaching and non - teaching staff to pursue their further education
- (e) Encouraging self-appraisal and providing constructive feedback

### **6.3.7 Faculty and Staff recruitment**

- (a) Effective recruitment procedure is adopted to appoint well qualified teachers through written test, lecture test and interview for various disciplines as per rules of SPPU, Pune.
- (b) Preference is given to NET/SET qualified candidates.

### **6.3.8 Industry Interaction / Collaboration**

The institution has developed good relations and networks with various local industries, State Electricity board Engineers, PWD engineers, BSNL experts for effective implementation of the curriculum in terms of Memorandum of Understanding (MoU), Industry sponsored projects, industrial visits etc. Maximum final year students undergoes Industry Sponsored projects and In plant training during their curriculum.

### **6.3.9 Admission of Students**

- Admission procedure is adopted as per rules and regulations laid down by Directorate of Technical Education (DTE), Government of Maharashtra State. DTE published admission notification time to time in all well known national and regional daily newspapers.
- The advertisements for admission to different courses are published by Institute in all well known newspapers from time to time. The advertisement contains detailed information about different courses, eligibility norms, process of admission, academics as well as facilities provided by institute.
- The advertisements for admission are broadcasted by Institute on radio stations, Ahmednagar cable TV networks and Institute website: <http://www.enggnagar.com>.
- Institute organizes awareness / counseling workshops for admission process to 12th appearing students and their parents, faculties and stakeholders.

## **6.4 Welfare schemes for**

### **a) Teaching:**

- Faculty Recharge Programmes
- Incentives for Paper Presentation
- Incentives for Paper Publication
- Travelling allowance for Attending conference abroad
- Tuition Fees concession to the Children of staff members
- Free Wi-Fi connectivity

**b) Nonteaching:**

- Tuition Fees concession to the Children of staff
- Free Wi-Fi connectivity
- Medical Aid

**c) Students:**

- Student Development centre
- National Service Scheme
- Remedial coaching for academically weak students
- Personality Development / Skill Development Programmes
- Free Wi-Fi connectivity
- Book Bank scheme for SC/ST students.
- Free Medical treatment.
- Concession in tuition fees for the wards of institute staff as well as ward of defense.

**6.5 Total corpus fund generated**

**6.6 Whether annual financial audit has been done** Yes  No

**6.7 Whether Academic and Administrative Audit (AAA) has been done?**

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	--	--	Yes	Academic Dean
Administrative	Yes	M/S Kadam & Co. Ahmednagar	Yes	K.S.S. & Co. Ahmednagar

**6.8 Does the University/ Autonomous College declares results within 30 days?**

For UG Programmes Yes  No

For PG Programmes Yes  No

## **6.9 What efforts are made by the University/ Autonomous College for Examination Reforms?**

### **University Reforms:**

- Online examination for F.E and S.E.
- In sem examination for T.E, B.E. and M.E.
- Oral /Practical/Term Work examination for S.E to M.E.
- Term Work/Tutorials for F.E.
- Offline examination for F.E to M.E.
- Seminars /Projects/Mini Projects for T.E/B.E/M.E.

### **Institute Reforms:**

- Assignments and Tutorials on each unit prescribed in the university syllabus
- Unit wise class test
- Preliminary examination
- Mock oral and online test

## **6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?**

Not Applicable

## **6.11 Activities and support from the Alumni Association**

- Alumni database is maintained properly in the department.
- Institute is continuously in touch with alumni by inviting them for expert lectures, seminars, conferences and workshops.
- Distinguished alumni are invited for the Annual Social Gathering.
- Alumni meet is conducted regularly
- Alumni are continuously contacted through social media such as Face book, Whatsapp.
- Alumni who are working in various companies at higher positions are guiding the final year students about employment & career opportunities.

## **6.12 Activities and support from the Parent – Teacher Association**

Parent – Teacher Meet is organized by all departments of the institute where teachers will give the feedback about their wards in the areas of academic, curricular, co-curricular and behavioural aspects.

### **6.13 Development programmes for support staff**

Support staffs were given special training to operate software pertaining to College office.

### **6.14 Initiatives taken by the institution to make the campus eco-friendly**

- Efforts are made to make the campus clean and green through Student Development Centre and NSS Unit of the Institute.
- Environment Awareness campaign, Trees are planted in the campus every year
- Tobacco free campus, Awareness Slogans for avoidance of plastics
- Campus declared “No Smoking Zone”
- Campus declared “Plastic Free Zone”
- The ill-effects of use of tobacco have been conveyed to students by the class teachers and mentors. Students of our institution have been motivated to avoid the use of plastic and tobacco.
- Awareness is created amongst staff and students through rallies, posters and banners about the eco – friendly campus.
- Solar Street light in front of hostels had been installed. These initiatives have helped to reduce power consumption.
- Check dam construction is available at our institute
- Plastic bituminous waste road is constructed in college campus by final year Civil Engineering Students.

## Criterion – VII

### 7. Innovations and Best Practices

**7.1 Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.**

- Online Students Feedback System on teaching learning process was introduced.
- Online Hall ticket was introduced by SPPU, Pune.
- Multiple Choice questions for UG Programme.
- Additional MoUs have been signed with Foreign and Indian Universities and Industries.
- Help to the Students through Earn & Learn Scheme.
- Student Research Guidance and Competitions, Research Projects in Collaboration with VRDE, L& T and Various Industries from M.I.D.C. , Ahmednagar
- Off- line News, Capacity Building Initiatives for Faculties, Data Management System through ERP Software

**7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year**

Plan of Action	Achievements
Year Plan	All the departments were encouraged to prepare a Year plan in the beginning of the year which facilitated them to plan and execute various programmes effectively.
One Day Workshop	One day Workshop was organized for the Teaching Staff and BE students of college on the theme of “Avishkar Orientation Worksop-2016” on 29 <sup>th</sup> Sept. 2016
National Conference	Organized for the entire Teaching Staff of Mechanical Engineering Department on the theme of “Recent Advances in Mechanical Engineering” on 17 <sup>th</sup> & 18 <sup>th</sup> Feb.2017
State Level Conference	Organized for the Teaching Staff & BE Students of Electronics and Telecommunication Engineering on the theme of “Recent Trends in Electronics and Telecommunication Engineering” on 01 <sup>st</sup> Jan.2017
Two Days State	Organized for the Teaching Staff & BE Students of Electrical

level Seminar	Engineering on the theme of “Recent Advances in Power Systems” on 20 <sup>th</sup> & 21 <sup>st</sup> Jan.2017
Promotion of e-resources	e-Attendance for students was implemented on a trial basis. WIFI facility is extended to all the hostels.
Feedback	Online feedback received from the students

**7.3 Give two Best Practices of the institution** (*please see the format in the NAAC Self-study Manuals*)

The best practices followed by the institute contributing to the achievement of Institutional and quality improvements are:

**A) Academic Monitoring System**

**Goal :** Improve the quality education with the help of regular, in time teaching and learning process in depth. The goal is achieved with the help of following parameters  
Teaching aids Individual attention for the students by the respective teachers

Depth of teaching and understanding for the student with the help of technical discussion with the help of reference books and magazines related with syllabus framed by the university.

Case studies for the technology, if possible continuous visits to industries and sites to open the subjects and creates the interest in the subject as the students are weak in the academics and they cannot imagine theoretical concepts, presented the books by the respective author.

**The context:**

The problems of understanding and clarity in the subject were raised by the students. In this context, committee analyzed the problems of students because the faculty was quite senior and expert in the subject.

In this situation, we advised the faculty members to open the subject with the models, kits, equipments and visualized the things form the real ground, in order to improve conceptual thinking of the students.

**The practices:**

1. Surprise visit in the classes (theory and practical)
2. Conducting the meetings with students of all department and discussing their difficulties
3. For improvement and necessary action we are advising to head of the department and reporting to head of the institute for necessary action

4. Conducting the meeting of all departments in order to motivate and realize the responsibilities of the teacher from the academic point of view.

**Evidence and Success:**

1. Attendance of the subject is improved
2. Discipline is improved

**Problems Encountered:**

1. We raised questions in the class in connection with understanding of subjects as well as methodology used in teaching, depth of technical knowledge and exercise in connection with University examinations but, however, students are not responded as per our expectations.
2. Though the attendance of student is improved but certainly it below the average level in all classes of all the departments.
3. Few faculties taught the subject in Marathi language.
4. Shortage of reference books.

**Resources Required:**

1. Every class room must have overhead projectors and LCD projectors.
2. Teaching aids should be improved.
3. More emphasis should be on communication skill.
4. Summer school and winter school programs should be concentrated in our institute so that interaction between our faculties as well as other University faculties will be enhanced in order to improve technical and logical knowledge.

**Notes (Optional):**

The best practice emphasized a creation of a system/ mechanism for the improvement of quality education. This system did not have momentary response. For the same, faculties should be trained for improvement.

**B) Tutor-Ward System: Mentoring System**

**Goal:** To improve the students attendance and to improve academic performance.

**The context:**

To improve the conceptual thinking and basic fundamentals of the subject along with crystal clarity, this system has been adopted. It also aims to develop analytical minds related to engineering subjects of all departments. To achieve above goals, institute arranges the meetings with students frequently and solves personal as well as college level problems.

**The practices:**

1. All mentors have maintained the file containing the detailed information as well as all records of concern student. Same record is communicated to parents timely.
2. In this regards, parents are also involved to know the progress of their wards.
3. We are giving justice to all the students through mentor system to improve their academics performances.

**Evidence and Success:**

1. Attendance improvement.
2. Result improvement.

**Problems Encountered:**

1. Initially, only 10-15% personal problems were shared by the students.
2. Initially, we have observed that many students have not given proper contact numbers of their parents.
3. Some of the parents have not responded properly and they have not supported to mentor system.

**Resources Required:** Parents telephone number entered in the data base are inefficient

**Notes (Optional):**

The best practice emphasized a creation of a system/ mechanism for the mentoring system. This system did not have momentary response. For the same, need extra efforts for improvement.

**7.4 Contribution to environmental awareness / protection**

- Tree Saplings were planted by NSS Camps
- Collection of Socio-Economic Survey of Adopted villages.
- Soil Testing was conducted in different villages for helping farmers.
- Water Quality Analysis was performed in certain villages.
- HIV / AIDS Awareness programmes were conducted in all special Camps.
- Environmental Awareness Programmes (Rally / Seminar).
- Anti-Tobacco Awareness Programme (Rally / Seminar).

**7.5 Whether environmental audit was conducted?**      Yes  No

**7.6 Any other relevant information the institution wishes to add. (for example SWOT Analysis)**

SWOT analysis is carried out in all the disciplines.

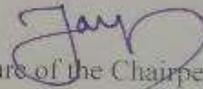
#### 8. Plans of institution for next year

1. Applying for permanent affiliation of the Institute to SPPU, Pune
  2. Availing more number of minor and major projects from national international funding agencies.
  3. Publishing research paper and articles in peer reviewed journals with high impact factor.
  4. Strengthening the infrastructure of the college.
  5. Development of sport infrastructure.
  6. Implementation of e-attendance
  7. Strengthening the placement services for the students.
  8. To sign more number of national and international MOUs.
- (b) A cell for providing counseling and coaching for aspirants appearing in the national level competitive examinations like IAS, IPS, IFS, and RBI examinations.



Signature of the Coordinator, IQAC

Prof. Dr. Shirke Ankush Jagannath



Signature of the Chairperson, IQAC

Prof. Dr. Jayakumar Jayaraman

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## Annexure 1-Academic Calendar



Dr. Vithalrao Vasthi Patil Foundation's  
**COLLEGE OF ENGINEERING  
 AHMEDNAGAR**



**Academic Calendar 2016-17**  
 Semester II

DECEMBER						
S	M	T	W	T	F	S
				1	2	3
4	5	6	7			8
11					16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

JANUARY						
S	M	T	W	T	F	S
1			4	5	6	7
8	9	10	11			14
15	16	17				
22	23	24		28		

FEBRUARY						
S	M	T	W	T	F	S
						4
	6	7	8	9	10	11
	13	14	15	16		
						25

MARCH						
S	M	T	W	T	F	S
		1	1	2	3	4
						18
	20	21	22	23	24	25
	27		29	30	31	

APRIL						
S	M	T	W	T	F	S
						1
	3	4	5			8
	10	11	12	13	14	15
	17	18	19	20	21	22
	24	25	26	27	28	29
	31					

8-15/12/2016 National Service Scheme Camp(NSS)  
 15/12/2016 Commencement of Semester II  
 25/12/2016 Christmas

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2/1/2017 Parent's Meet  
 3/1/2017 Expert Lecture  
 12,13/1/2017 State Level Seminar of E&TC Dept  
 18,19/1/2017 CLASS TEST  
 20,21/1/2017 State Level Seminar of Elect. Dept  
 26/1/2017 Republic Day  
 25,27/1/2017 S.E. Mock Online  
 30-3/2/2017 1st Insem Of S.E

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17-18/2/2017 National Conference RAME 2017 Mech Dept.  
 18/2/2017 Bike workshop by SHUBHAM TVS  
 19/2/2017 Chh. Shivaji Maharaj Jayanti  
 20-23/2/2017 Cultural Week  
 24/2/2017 Mahashivratri  
 28/2/2017 Industrial Visit

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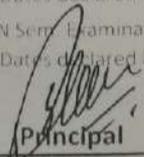
6/3/2017 In Sem Exam of T.E and B.E  
 13-17/3/2017 ATV Championship  
 17/3/2017 Gathering  
 28/3/2017 Gudi Padva

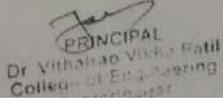
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6/4/2017 Conclusion of Teaching  
 7/4/2017 Term Work Submission

For F.E and S.E two online Examinations will be conducted as per the Dates declared by University  
 For T.E and B.E one IN Sem. Examinations will be conducted as per the Dates declared by University

Note: Any modification will be communicated.

  
**Principal**

  
**PRINCIPAL**  
 Dr. Vithalrao Vasthi Patil  
 College of Engineering

## **Annexure I1-Feedback Report (Attached)**

### **Abbreviations:**

CAS	-	Career Advanced Scheme
CAT	-	Common Admission Test
CBCS	-	Choice Based Credit System
CE	-	Centre for Excellence
COP	-	Career Oriented Programme
CPE	-	College with Potential for Excellence
DPE	-	Department with Potential for Excellence
GATE	-	Graduate Aptitude Test
NET	-	National Eligibility Test
PEI	-	Physical Education Institution
SAP	-	Special Assistance Programme
SF	-	Self Financing
SLET	-	State Level Eligibility Test
TEI	-	Teacher Education Institution
UPE	-	University with Potential Excellence
UPSC	-	Union Public Service Commission

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