ANNUAL QUALITY ASSURANCE REPORT

(AQAR)

(2017 - 2018)

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 (2017-18)

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 Co-ordinator:

Dr. Shirke Ankush Jagannath

Mobile:

09822430934

IQAC e-mail address: shirkeaj@gmail.com

1.3 NAAC Track ID   MHCOGN23406

1.4 NAAC Executive   EC(SC)14/A & A/36.1 dated 29/03/2016
Committee No. & Date:

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	1st Cycle	B	2.35	2016	Up to 28/03/2021
2	2nd Cycle	--	--	--	--
3	3rd Cycle	--	--	--	--
4	4th Cycle	--	--	--	--

1.7 Date of Establishment of IQAC: DD/MM/YYYY   18/08/2016

1.8 AQAR for the year   2017-18

1.9 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC ((*for example AQAR 2010-11submitted 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. | 05 | Faculty | 02 |

Non-Teaching Staff Students | 02 | Alumni | 01 | Others | Nil |

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. | 09 | International | -- | National | 01 | State | 03 |

Institution Level | 05 |

(ii) Themes

1. One Day Avishkar Orientation Workshop -2017
2. Two Days National Level Workshop on Recent Advances in Automobile Engineering, RAAE-2018
3. Two Days State Level Seminar on Recent Advance of Project Management Software in Civil Engineering
4. Two Days State Level Workshop on Machine Learning and Big Data

5. Seven Day's Workshop On Transformer Manufacturering
6. Two Day's Workshop on PLC & SCADA- 2017.
7. Two Day's Workshop on 'C' Language.
8. Three Day's Workshop on Industrial Approach In Electronics.
9. State Level Conference Techno Vision -2018

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-2017" on 29th Sept. 2017
Two Day's National Level Workshop	Organized for the entire Teaching Staff of Mechanical Engineering on the theme of "Recent Advances in Automobile Engineering, RAAE-2018" on 09th &10th Feb.2018
Two Day's State Level Seminar	Organized for the Teaching Staff & BE Students of Civil Engineering on the theme of "Recent Advance of Project Management Software in Civil Engineering" on 23rd &24th Feb.2018
Two Days State level Workshop	Organized for the Teaching Staff & BE Students of IT on the theme of "Machine Learning and Big Data" on 20th & 21st Feb.2018
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	--	--	--	--
Total	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)
75	62	10	03	--

2.2 No. of permanent faculty with Ph.D. | 07 |

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
96	34	32	22	16	13	03	--	147	69

2.4 No. of Guest and Visiting faculty and Temporary faculty

| 02 | | -- | | -- |

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended Seminars/ Workshops	10	33	17
Presented papers	10	20	05
Resource Persons	--	10	04

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	--	26

2.10 Average percentage of attendance of students:

78%

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	132	67	49	05	--	91.66
Mechanical Engineering	171	78	52	02	--	77.19
Electrical Engineering	71	51	10	01	--	87.32
E&TC	159	109	26	02	--	86.16
Information Technology	68	49	14	04	--	98.52
Instrumentation & Control	35	28	05	--	--	94.28

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	136
Faculty exchange programme	--
Staff training conducted by the university	--
Staff training conducted by other institutions	--
Summer / Winter schools, Workshops, etc.	62
Others	70

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	36+39 (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	--	--	--	30,58,823

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	01	02	--	26
Outlay in Rs. Lakhs	1,50,000	3,16,000	--	65,00,000

3.4 Details on research publications

	International	National	Others
Peer Review Journals	02	--	--
Non-Peer Review Journals	20	21	--
e-Journals	03	05	--
Conference proceedings	07	19	08

3.5 Details on Impact factor of publications:

Range [0.2-3.6]   Average [03.06]   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	2017-18	BCUD, SPPU, Pune	3,16,000	1,58,000
Students research projects *(other than compulsory by the University)*	--	--	--	--
Any other(Specify)	--	--	--	--
		Total	3,16,000	1,58,000

3.7 No. of books published   i) With ISBN No. [03]   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 [2.64.170]

3.11 No. of conferences organized by the Institution

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

3.12 No. of faculty served as experts, chairpersons or resource persons   10

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   1,58,000

From Management of University/College   --

Total   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 | 01 |

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 Dongargan, 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 1/07/2017 in campus.
- ➢ Graduation ceremony organised by institute for graduate students of our college.
- ➢ Road cleaning camp at Dongargan, 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.	01	--	BCUD, SPPU, Pune	01
Value of the equipment purchased during the year (Rs. in Lakhs)	7.50	--	BCUD, SPPU, Pune	7.50
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	36282	91,67,480	16	5,170	36298	91,72,650
Reference Books	6334	57,69,299	06	10,533	6340	57,79,832
e-Books	3613	Free e-Journals	2596	Free e-Journals	6209	--
Journals	--	--	56	1,44,884	56	1,44,884
e-Journals	--	--	783	6,67,150	783	6,67,150

Digital Database	1	66,000	--	--	1	66,000
CD & Video	1326	--	--	--	1326	--
Others (specify) Literature & General	949	2,23,746	70	1,775	1019	2,25,521

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Depart-ments	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

367414

ii) Campus Infrastructure and facilities

205176

iii) Equipments

11600

iv) Others

175217

Total :

7,59,407

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
1790	32	Nil	--

(b) No. of students outside the state | -- |

(c) No. of international students | -- |

Men

No	%
--	--

Women

No	%
--	--

2016-17						2017-18					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
787	155	23	825	--	1790	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   890

5.5 No. of students qualified in these examinations

NET	---	SET/SLET	--	GATE	20	CAT	--
IAS/IPS etc	---	State PSC	--	UPSC	--	Others	--

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. Personality Development Program was Organized by Mrs Veena Ahire Ahmednagar
2. Counseling on Oversees Opportunities available in Indian Army by Lt. Col. Sunil Kumar and Major. Rishi Mehrotra MIRC, Ahmednagar
3. Career Development session was organized by Mr. Mukund Deshmukh Ahmednagar
4. Cloud Computing- Job Opportunities by Mr. Mandar Bawadekar, GNS Technologies, Pune
5. Importance of Entrepreneurship & Startup by Mr.. Paresh Bora, Director, ICA, Ahmednagar

   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
08	225	86	160

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

- Nirbhay Kanya Abhiyan was conducted in which more than 395 female students have participated and got benefited.
- Personality Development Programme was conducted in which more than 300 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 Vivek Kashikar dated 24/01/2018 and more than 250 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	10	1,12,850
Financial support from government	1434	73318301
Financial support from other sources	--	--
Number of students who received International/ National recognitions	--	--

5.11   Student organised / initiatives

Fairs:

State/ University level [01]   National level [--]   International lev [--]

Exhibition:

State/ University level [01]   National level [--]   International lev [--]

5.12   No. of social initiatives undertaken by the students [02]

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 wieghtage 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.

> Counseling 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 administrating 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 week 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 | 7,23,236 |

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-2017" on 29th Sept. 2017
Two Day's National Level Workshop	Organized for the entire Teaching Staff of Mechanical Engineering on the theme of *"Recent Advances in Automobile Engineering, RAAE-2018"* on 09th &10th Feb.2018
Two Day's State Level Seminar	Organized for the Teaching Staff & BE Students of Civil Engineering on the theme of *"Recent Advance of Project Management Software in Civil Engineering"* on 23rd &24th Feb.2018
Two Days State	Organized for the Teaching Staff & BE Students of IT on the theme of *"Machine

level Workshop	Learning and Big Data*" o*n 20th & 21st Feb.2018
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 form 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 NBA Accreditation AICTE New Delhi.
2. Applying for permanent affiliation of the Institute to SPPU, Pune
3. Availing more number of minor and major projects from national international funding agencies.
4. Publishing research paper and articles in peer reviewed journals with high impact factor.
5. Strengthening the infrastructure of the college.
6. Development of sport infrastructure.
7. Implementation of e-attendance
8. Strengthening the placement services for the students.
9. 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 J.
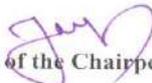
Signature of the Chairperson, IQAC
Prof. Dr. Jayaraman Jayakumar

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Annexure I- Academic Calendar

Dr. Vithalrao Vikhe Patil Foundation's

DVVP COLLEGE OF ENGINEERING, AHMEDNAGAR

Academic Calendar 2017-18

Semester :- I (S.E., T.E. & B.E.)

JUNE

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

15/6/2017 Reporting & Commencement of teaching
26/6/2017 Ramjan EID
29 to 30/6/2017 Quiz Competition E&TC Dept.

JULY

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

7/4/2017 Ashadhi Ekadashi
14 to 15/7/2017 Auto CAD Competition Civil Dept.
28 to 29/7/2017 Apptidude Test Of Mech. Dept.
24/7/2017 Expert Lecture Elect. Dept.
31/7/2017 BE Project Name Finalization

AUGUST

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

11/8/2017 Expert lecture Civil Dept.
15/8/2017 Independence Day
18-19/8/2017 Parent's meet Civil Dept.
25/8/2017 Ganesh Chaturti
31/8/2017 Career guidence Workshop E&Te Dept.

SEPTEMBER

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

9/2/2017 Bakri EID
15 to 16/9/2017 Industrial Visit Mech. Dept
19/9/2017 Expert Lecture Elect. Dept.
22 to 23/9/2017 Industrial Visit E&Te. Dept.
28 to 30/9/2017 SE,TE BE Unit Test
30/9/2017 Dashera

OCTOBER

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

10/2/2017 Mahatma Gandhi Jayanti
18/10/2017 Conclusion of teaching
19/10/2017 Dipawali
24/10 to 09/11/2017 Pratcial/Oral/Project Examination SE,TE,BE
14/11 to 11/12/2017 Theory Examination

Note- 1) Theory,oral Examination will be conducted as per the Dates declared by University.
2) Any modification will be communicated.

Principal

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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