



# **Annual Quality Assurance Report (AQAR)**

Submitted to

**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL  
BANGALORE, INDIA**

Submitted By



Peoples Education Society's (Mumbai)

**P. E. S. COLLEGE OF ENGINEERING**

NAGSENVANA, AURANGABAD – 431 002

MAHARASHTRA

**(AQAR 2017-18)**

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

### Part – A

#### 1. Details of the Institution

1.1 Name of the Institution

P.E.S. College of Engineering

1.2 Address Line 1

Nagsenvana, University Road

Address Line 2

Besides Panchakki

City/Town

Aurangabad

State

Maharashtra

Pin Code

431002

Institution e-mail address

principal@pescoe.ac.in

Contact Nos.

9422293400

Name of the Head of the Institution:

Dr. Abhijeet P. Wadekar

Tel. No. with STD Code:

0240-2403001 0240-2403025

Mobile:

9422293400

Name of the IQAC Co-ordinator:

Dr. S. N. Kakarwal (Kurmude)

Mobile:

9970640159

IQAC e-mail address:

headit@pescoe.ac.in,  
iqac\_coordinator@pescoe.ac.in

1.3 NAAC Track ID (For ex. MHCOGN 18879)

MHCOGN26685

1.4 NAAC Executive Committee No. & Date:

EC(SC)/23/A&A/59.1 dated 26<sup>th</sup> May 2017

1.5 Website address:

www.pescoe.ac.in

Web-link of the AQAR:

http://pescoe.ac.in/download/AQAR2017-18

1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 <sup>st</sup> Cycle	B+	2.56	March 28,2017	March 27, 2022
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

25/01/2017

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

- i. AQAR \_\_\_\_\_ (22/08/2017)
- ii. AQAR \_\_\_\_\_ (DD/MM/YYYY)
- iii. AQAR \_\_\_\_\_ (DD/MM/YYYY)
- iv. AQAR \_\_\_\_\_ (DD/MM/YYYY)

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

Type of Institution Co-education  Men  Women   
 Urban  Rural  Tribal   
 Financial Status Grant-in-aid  UGC 2(f)  UGC 12B   
 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 (*for the Colleges*)

1) Dr. Babasaheb Ambedkar Marathwada University, Aurangabad-Third year to Final Year for Under-graduate courses  
 2) Dr. Babasaheb Ambedkar Technological University, Lonere-First & Second Year (B.Tech Under-graduate course) and M.Tech. for Post-graduate course

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 (*Specify*)   
 UGC-COP Programmes

## 2. IQAC Composition and Activities

2.1 No. of Teachers	<input type="text" value="6"/>
2.2 No. of Administrative/Technical staff	<input type="text" value="1"/>
2.3 No. of students	<input type="text" value="-"/>
2.4 No. of Management representatives	<input type="text" value="2"/>
2.5 No. of Alumni	<input type="text" value="2"/>
2.6 No. of any other stakeholder and community representatives	<input type="text" value="-"/>
2.7 No. of Employers/ Industrialists	<input type="text" value="2"/>
2.8 No. of other External Experts	<input type="text" value="-"/>
2.9 Total No. of members	<input type="text" value="13"/>
2.10 No. of IQAC meetings held	<input type="text" value="8"/>
2.11 No. of meetings with various stakeholders: No.	<input type="text" value="4"/> Faculty <input type="text" value="1"/>
Non-Teaching Staff	<input type="text" value="1"/> Students <input type="text" value="1"/> Alumni <input type="text" value="1"/> Others <input type="text"/>
2.12 Has IQAC received any funding from UGC during the year?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
If yes, mention the amount	<input type="text"/>
2.13 Seminars and Conferences (only quality related)	
(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC	
Total Nos.	<input type="text" value="4"/> International <input type="text" value="-"/> National <input type="text" value="2"/> State <input type="text" value="0"/> Institution Level <input type="text" value="2"/>

(ii) Themes

1. Symposia on “Engineering Curriculum Innovation An outcome based Education Approach”
2. Seminar on “New NAAC Guidelines”
3. Seminar on “Effective Writing of Research Proposals”
4. Department of Electrical engineering of P. E. S. College of Engineering, Aurangabad has organized the Energy Conclave on E-Vehicles, Future of Smart Cities and Clean Environment on 16th Feb 2018 at our institute in association with CMIA (Chamber of Marathwada Industries and Agriculture).
  - For this conclave around 251 Students (126 Students from other colleges and 125 students from PESCOE Aurangabad),
  - 37 Industry People and around
  - 51 Academicians (26 Faculty from Other institute and 25 Faculty from PES) attended this Conclave

2.14 Significant Activities and contributions made by IQAC

- Internal Academic Audit was done by IQAC members and Head of the Department
- External Academic Audit was performed by appointing the staff members who are Professors/Directors/ Principal from other institutes/ Dr. B.A.M.U., Aurangabad
- Stake holder feedback was obtained for the academic year 2017 -18.
- Seminar were conducted to Improve the quality of the staff

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
Quality Policy and objectives were designed	One of the quality objectives is “Upgrade the teacher as per Industry requirement through regular interaction” is fulfilled by training the faculty at industry as shown in Table1.
To find the needs of slow learners and Active Learner’s	Remedial classes were conducted to improve their academic performance as shown in Table2. Active learners are motivated to prepare for competitive Exams and those who were succeeded their list is given in Table3.
To follow Academic Calendar.	Executed through departmental conduction of activity as per respective department Academic Calendar
A quality check through IQAC Audits is scheduled.	Internal and External Academic audit is performed for quality checking
To plan for Environmental Awareness	Execution done through Green Audit, Energy Audit. Plantation of trees carried out in 2017-18

\* *The Academic Calendar of the year (2017-18) is attached as Annexure I.*

**Table1: List of the teacher who are upgraded as per Industry requirement through regular interaction**

Sr. No.	Name of the staff	Industry	Department	Outcome
1	Prof. Y.S.Sable Prof. G R Gaud	Infosys Infosys	Mechanical CSE	Campus Connect
2	Prof. R.G.Pungle Prof. Prashant Pandit Prof. Murkute S.V. Prof. A.A. Tupe Prof. S. C. Kathar Prof. P. K. Ghuge Prof. Varsha Jadhav Prof. S.D. Pingle Prof. Dr. R. M. Sawant Dr. Deepak Kakade	Primus Technologies	Mechanical Mechanical EEP EEP ETC ETC CSE CSE Civil Civil	SAP Training
3	Prof.J.P.Zine Prof.N.T.Kolmbiker	Airport Authority	ETC ETC	Training
4	Prof. A.U. Jadhav	RedHat India Pvt Ltd	CSE	RHCSA
5	Prof. A.U. Jadhav	RedHat India Pvt Ltd	CSE	RHCE
6	Prof. B.N. Jha	RedHat India Pvt Ltd	CSE	RHCSA
7	Prof. Amit Paikrao	Metarolls 500, JALNA MIDC, Jalna	EEP	Case Study of Energy Conservation of Industry, and Billing Cycle Details for various hours in Industry
8	Prof. Amit Paikrao and Ravi Magre	ETAP	EEP	Hands on ETAP
9	Mr. R.D. Pandit	Airport Authority	Civil	Terminal Building Modernization

**Table2: List of Remedial classes**

Sr. No.	Name of Staff	Class	Subject	No. of Students	Outcome
1	Prof. S. D. Pingle	TE-CSE	OS	4	Result Improved
2	Prof. S. M. Salve	TE-CSE	SE	1	Result Improved
3	Prof. V. A. Losarwar	TE-CSE	DBMS	1	Result Improved
4	Prof. M. M. Ambekar	TE-CSE	PIJ	5	Result Improved
5	Prof. N. S. Syed	TE-CSE	STQA	1	Result Improved
6	Prof. Y. S. Pagar	TE-CSE	DIP	12	Result Improved
7	Prof. A. U. Jadhav	TE-CSE	Adv. Java	6	Result Improved
8	Prof. V. D. Jadhav	TE-CSE	DAA	9	Result Improved
9	Prof. P. K. Ghuge	SE- CSE	DE	10	Result Improved
10	Prof. V. D. Jadhav	SE-CSE	DS	16	Result Improved

Sr. No.	Name of Staff	Class	Subject	No. of Students	Outcome
11	Prof. N. S. Syed	SE-CSE	CN-I	10	Result Improved
12	Prof. N. R. Khatri	SE-CSE	USP	8	Result Improved
13	Prof. B. M. Kulkarni	SE-CSE	DMS	11	Result Improved
14	Prof. S. V. Bhosale	SE-CSE	OOP	9	Result Improved
15	Prof. M. M. Ambekar	SE-CSE	CG	10	Result Improved
16	Prof. N. R. Khatri	SE-CSE	MP	39	Result Improved
17	Prof. Dudhmal	SE-Mech	SOM	32	Result Improved
18	Prof. Aves	SE-Mech	TD1	45	Result Improved
19	Prof. Y.S. Sable	TE-Mech	DME 2	14	Result Improved
20	Prof. Naik	BE-Mech	HT	20	Result Improved
21	Prof.V.P.Baisane	SE-Mech	TOM-I	28	Result Improved
22	S. R. Acharya	F.Y. B. Tech	EM-I	51	Result Improved
23	S. R. Acharya	F.Y. B. Tech	EM-I	56	Result Improved
24	S. R. Acharya	F.Y. B. Tech	EM-I	45	Result Improved
25	S. R. Acharya	F.Y. B. Tech	EM-I	50	Result Improved
26	S. R. Acharya	F.Y. B. Tech	EM-I	43	Result Improved
27	S. R. Acharya	F.Y. B. Tech	EM-I	40	Result Improved
28	S. R. Acharya	F.Y. B. Tech	EM-I	56	Result Improved
29	S. R. Acharya	SE(All)	EM-III	17	Result Improved
30	S. R. Acharya	SE(All)	EM-III	20	Result Improved
31	S. R. Acharya	SE(All)	EM-III	36	Result Improved
32	S. R. Acharya	SE(All)	EM-III	40	Result Improved
33	S. R. Acharya	SE(All)	EM-III	34	Result Improved
34	S. R. Acharya	F.Y. B. Tech	EM-II	26	Result Improved
35	S. R. Acharya	F.Y. B. Tech	EM-II	18	Result Improved
36	S. R. Acharya	F.Y. B. Tech	EM-II	46	Result Improved
37	S. R. Acharya	F.Y. B. Tech	EM-II	47	Result Improved
38	S. R. Acharya	F.Y. B. Tech	EM-II	33	Result Improved
39	S. R. Acharya	F.Y. B. Tech	EM-II	20	Result Improved
40	S. R. Acharya	F.Y. B. Tech	EM-II	38	Result Improved
41	S. R. Acharya	F.Y. B. Tech	EM-II	51	Result Improved
42	S. R. Acharya	F.Y. B. Tech	EM-I	28	Result Improved
43	M. I Waheed	TE-EEP	Microprocessor	5	Result Improved
44	Amit Paikrao	BE-EEP	ED	2	Result Improved
45	Amit Paikrao	BE-EEP	FACTS	7	Result Improved



**Table3: List of Active Learner promoted and succeeded in Competitive exam**

Sr.No.	Name of Students	Class	Name of Competitive Exam
1	Mayuri Gaikwad	BE(CSE)	GATE
2	Kothari Hiranman	BE (Mech)	RTO
3	Sapkal Surekha	BE (Mech)	RTO
4	Sable Umesh	BE (Mech)	RTO
5	Shaikh Abdul Basit	BE(Civil)	GATE
6	Ketan Bansode	BE(Civil)	GATE

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

Provide the details of the action taken

- Audits were conducted for quality checks.
- Conduction of seminar/ workshop/ orientation programmes to promote Research activities and teaching/learning quality of faculty.

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	01		01	
PG	03	-	03	
UG	05	-	05	4
PG Diploma	-	-	-	
Advanced Diploma	-	-	-	
Diploma	-	-	-	
Certificate	-	-	-	4
Others		-		
Total	09	-	09	8

Interdisciplinary	-	-	-	3
Innovative	-	-	-	-

**Career Oriented programmes**

Sr. No	Number of value added / Career Oriented programmes	Date	Number of Participant	Outcome
1	Red Hat Certified System Administrator(RHCSA)	2017-18	24	Certified students are now eligible to do Internship in Red Hat India Pvt Ltd & also they are ready to work on various open source technology platform.
2	Red Hat Certified Engineer(RHCE)	2017-18	14	Three Students are placed in ESDS Nashik.
3	Spoken Tutorial Workshop on PHP and MySQL	2017-18	25	Better Job Opportunity
4	Spoken Tutorial Workshop on Linux	2017-18	36	

Sr. No	Number of value added / Career Oriented programmes	Date	Number of Participant	Outcome
5	Free-hand practice Auto CAD training	14/08/2017 to 22/08/2017	15	Student Learn, Able To draw various 2D and 3D Drawing ,Commands And Uses of Auto Cad
6	Workshop on Assembly and Disassembly of Two Wheeler IC Engine	24 0/2/2018	45	Actual hands on practice on assembly and disassembly of IC engine. Student learnt use and structure each and every part of IC Engine part
7	01(SAP training)	15-12-2017	15	Material management

- 1.2 (i) Flexibility of the Curriculum: CBCS  /Core/Elective option  / Open options  
(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	UG-08, PG-04
Trimester	-
Annual	Ph.D.

- 1.3 Feedback from stakeholders\* Alumni  Parents  Employers  Students   
(On all aspects)

Mode of feedback : Online  Manual  Co-operating schools (for PEI)

\*An analysis of the feedback in the Annexure II

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.

Updation in syllabus for various subjects is given below:

Subject	Topics Added	Topics Removed
Computer networks SE(CSE)	Media Access Control (MAC): Random access (ALOHA, CSMA, CSMA/CD, CSMA/CA), Packet switching Ethernet Protocol, Standard Ethernet, Fast Ethernet (100 Mbps), Gigabit Ethernet, Calibrating network-layer Performance ICMPv4 World Widel Web, HTTP	CN-I Wireless LAN and Cellular Networks (Complete Unit 5) CN-II Routing : OSPF, BGP, IGRP ATM networks (Complete Unit 4) TCP Congestion control SCTP Remote Login, File Transfer Network Management: SNMP Protocol

Subject	Topics Added	Topics Removed
Computer Graphics SE(CSE)	<p>CRT, Flat panels, Graphics Primitives, Raster scan and Random scan displays, Display Processor, Display file structure, Graphical Input and output devices , Rasterization , Line drawing algorithms: DDA and Bresanham's, Mid point Circle Algorithm, Polygon filling -Scan converting polygons, Fill algorithms, Boundary fill algorithm, Flood fill algorithm</p> <hr/> <p>Window to Viewport transformation, Setting window and viewport in OpenGL. Hidden surface removal: Depth comparison, Z-buffer algorithm, Back face detection, Area-subdivision algorithm</p> <hr/> <p>Cyrus beck algorithm; Polygon clipping , Sutherland Hodgman algorithm, Exterior clipping and text clipping</p>	<p>synthetic; Imaging Systems; The synthetic camera model; The programmer's interface; Graphics architectures; Programmable Pipelines; Performance Characteristics</p> <p>Graphics Programming: The Sierpinski gasket</p> <hr/> <p>Geometric Objects and Transformations-I: Scalars, Points, and Vectors; Three-dimensional Primitives; Coordinate Systems and Frames; Modelling a Colored Cube; Affine Transformations; Rotation, Translation and Scaling;(added in Unit 4)</p> <p>Phong Lighting model; Computation of vectors; Polygonal Shading; approximation of a sphere by recursive subdivisions; Light sources in OpenGL; Specification of materials in OpenGL; Shading of the sphere model; Global Illumination.</p> <hr/> <p>Rasterization; Bresenham's algorithm; Polygon Rasterization; Hidden -surface removal; Antialiasing; Display considerations.</p>
LOS SE(CSE)	The subject is newly introduced.	
IWP SE(CSE)	Tables and forms JS and DOM Wordpress	Frames , Javascript
OOPS SE(CSE)	<b>Working with Files:</b> Introduction, Classes for file stream operations, Opening and Closing of a File, File Modes, File pointers and their Manipulations, Sequential Input and Output Operations, Error Handling during file operations, Command line arguments.	---
PPL (SY B Tech)	The subject is newly introduced.	
Engg. Graphics (FY B Tech)	Geometrical Construction and Computer added drafting	Machine Parts
M/C drawing (SE Mech)	Development of Surface	Ellipse
EM-III	Fourier Transform	Numerical Methods
EM-IV	Numerical Methods	Fourier Transform
Basic Electrical Engineering	Introduction to Electrical Engineering subject is added in the First year syllabus Dr BATU	

Subject	Topics Added	Topics Removed
The structure of Second year of Dr. B.A.T.U. is revised	<ul style="list-style-type: none"> <li>- The subject "Analog Circuits" is introduced</li> <li>- A new course on Humanities and Social Science including Management Courses is added with the course title " Basic Human Rights"</li> </ul>	<ul style="list-style-type: none"> <li>- This is included in place of "High Speed Analog Devices"</li> <li>- Communication Skills-I is renamed to Soft-Skill Development</li> </ul>
Advanced Concrete Technology(T.E. Civil)	The subject is newly introduced.	

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

1. Highlighting the need for encouraging engineering students and interesting faculties towards training and development and to fulfil most of the objectives, PESCOE has signed agreement with GET Started Consultancy Services and training LLP. PESCOE is engaged in providing support facilities to the company. PESCOE proposes to support, nurture and develop concept stage technology projects by providing with infrastructure facilities and resources. The name given to Incubation Centre as "Nagarjuna Incubation Centre". Inauguration of "Nagarjuna Incubation Centre" is done by the auspicious hands of Shri Sandeep Nagori, Ex Chairman CII,Aurangabad.
2. Mechanical Department have started IIT Mumbai Approved "Remote Centre"

#### Activities of Incubation Centre

Sr No.	Date	Name of the Activity	Class	No. of Students /Staff participated	Outcome of Participation
01	7/02/18	Inauguration of Incubation Centre	FE to BE	40	Created start up eco system at campus.
02	7/02/18	One day workshop on entrepreneurship development	FE to BE	291	Students understood procedure of small scale industries and developed wide vision about the start up.
03	21/02/18	Basic Training (orientation program on Big Data and Hadoop)	BE(CSE)	65	Students got exposure to recent technology used in industry
04	28/02/18	Basic Training (orientation program on Big Data and Hadoop)	Diploma(3 <sup>r</sup> <sub>d</sub> year),TE,B E,ME	40	Students got exposure to Big Data and Hadoop and how to set up cluster for Big data
05	20/03/18	Training on Big Data Administration	-	02 staff members	Training is in progress
06	29/03/18	Software product development	-	04	Software development is in progress
07	17/04/18	Basic Training (orientation program on Big Data and Hadoop)	TE(CSE)	60	Students got exposure to Big Data and Hadoop
08	08/06/2018 To 08/08/2018	In Plant Training	TE(CSE)	08 (04 :PESCOE & 04 :Other Institute)	Training is in progress

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty	Total	Asst. Professors	Associate Professors	Professors	Others
	97	10	14	7	66

2.2 No. of permanent faculty with Ph.D. 10

2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year	Asst. Professors		Associate Professors		Professors		Others		Total	
	R	V	R	V	R	V	R	V	R	V
	10		14		7		1		32	

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

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended Seminars/ Workshops	Nil	19	2
Presented papers	9	1	Nil
Resource Persons	Nil	Nil	3
Symposia	27	Nil	36
Conference Attended	21	1	NIL

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

- Use of smart class room for teaching. Interaction through K-Yan
- Guest lectures & Expert Talks are arranged.
- Industry and Research Lab Visits are arranged.
- Value Added courses& workshops in model making, poster presentation, competition are conducted.
- Innovative final year projects are under taken, IEEE and standard format is followed for standardization of report preparation, and sponsorship is encouraged.
- Texas Innovation Lab is set up and utilized.
- Hands on practice for Assembly and Disassembly of Mechanical Components
- Use of models, charts, analogy, puzzles, storytelling, brain storming in the classroom.
- Group Discussion is carried out.
- Interactive teaching learning approach through quiz activity.
- Sharing of staff notes through ERP/ ICT

\* The details of Value Added, Industry Visit, and Guests Lectures are attached as Annexure III.

2.7 Total No. of actual teaching days 180  
During this academic year

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

- 1) Institute follows the examination rules and regulations framed by Dr. Babasaheb Ambedkar Marathwada University, Aurangabad and Dr. Babasaheb Ambedkar Technological University, Lonere, for examination/ evaluation process is also adopted.
- 2) As per Dr. B.A.M.U. pattern, two class tests are conducted and evaluated. The results of the same are forwarded to the university and informed to the parent by sending the letters .
- 3) Other Test and Exams Plans and Methods of Evaluation suggested and followed.
- 4) On student's request, class test answer sheets are shown to the student so that they know how the answers are checked.
- 5) As per Dr. Babasaheb Ambedkar Technological University, Lonere, Rules Mid term test and End Semester exams are conducted.
- 6) Institute follows the online remedial examination rules and regulations framed by Dr. Babasaheb Ambedkar Technological University, Lonere for B.Tech courses.

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

17

No. of Member's in Syllabus Designing

4

No. of BOS Member's

13

No. of Member's in Curriculum development Workshop's

Sr. No.	Name of Faculty	Department Name	Involvement in Syllabus Designing	BOS Member	Curriculum development Workshop's/Meeting attended by
1	Dr. A. P. Wadekar	Civil		Academic Panning & Monitoring Board at BATU	Yes
2	Dr. S.N.Kakarwal	CSE	BAMU (CSE/IT) & GECA Syllabus Designed	Yes	Yes
3	Prof. V.A.Losarwar	CSE	SECSE-OOPS	No	Yes
4	Prof. M.M.Ambekar	CSE	SECSE-CG	No	Yes
5	Prof. S.D.Pingle	CSE	SECSE-LOS	No	Yes
6	Prof. Y.S.Pagar	CSE	PPL	No	Yes
7	Prof. V.R.Mote	CSE	SECSE-IWP	No	Yes
8	Prof. V.D Jadhav	CSE	Web Designing	No	Yes

Sr. No.	Name of Faculty	Department Name	Involvement in Syllabus Designing	BOS Member	Curriculum development Workshop's/Meeting attended by
9	Prof. D.T.Rathod	CSE	TECSE-CN	No	Yes
10	Prof. S.V.Bhosale	CSE	-	No	Yes at Dr.B.A.T.U.
11	Prof. A.U.Jadhav	CSE	-	No	Yes at Dr.B.A.T.U.
12	Dr. Dhobe M.M.	Mech	Yes		yes
13	Prof. Thete V.V	Mech	Yes	Yes	
14	Prof. Pungle R.G.	Mech	Yes		
15	Dr. B. N. Chaudhari	EEP	Design and Finalise 2 <sup>nd</sup> year's syllabus	Yes	Design and Finalise syllabus of 1. Power System Operation and Control 2. Power System Protection
16	Dr.R.M. Sawant	Civil	yes	yes	
17	Prof. R.L. Pandit	Civil	yes		

2.10 Average percentage of attendance of students

75%

2.11 Course/Programme wise distribution of pass percentage : (Results are awaited)

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
BE MECH						
BE EEP						
BE ETX						
BE CSE						
BE CIVIL						
TOTAL						



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

- At the end of semester teachers feed back is taken from the students and from this feed back staff members are informed to improve their performance.
- Student's attendance is monitored and informed to the parents.
- IQAC checks course file, lab manual, attendance sheet in every semester and report to the Principal
- IQAC encourages staff to use ICT tools(ICT Usages staff:84 & Student:598)

2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	0
UGC – Faculty Improvement Programme	0
HRD programmes	0
Orientation programmes	74
Faculty exchange programme	0
Staff training conducted by the university	7
Staff training conducted by other institutions	9
Summer / Winter schools, Workshops, etc.	44
Others	23

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	59			8
Technical Staff	10			3

Criterion – III

3. Research, Consultancy and Extension

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

1. Seminar was organized on “Effective Writing of Research Proposals” for the faculties of all the departments on 01/03/2018 (No. of participants: 50)
2. CSE department conducted Expert Lecture on “Machine Learning and it's Applications" by Mr. Kedar Dixit ,Technical from Persistent Systems, Pune on 19/8/2017 (No. of participants:60)
3. Project proposal entitled "An IP Trace Back System to Find the Real Source of Attacks using Trace Back-Based Defense against DDos Flooding Attacks" submitted to DST. The said proposal was not screened- in by the committee and returned back to add more future scientific ideas (Date: 31/7/2017)
4. Project proposal entitled "Security Anyalsis of Electronic Payment Protocols Based on Quantum Cryptography" submitted to DST. The said proposal was not screened- in by the committee and returned back to add more future scientific ideas. (Date: 27/2/2018)
5. Development of IOT lab for initiating research on 24/09/17 by CSE Department.
6. Two staff members from Mechanical department were deputed to attend the conference on Research Methodology
7. To publicize Department research activity to industries, the stall was presented in M-TEX Exhibition at Bangalore by Mechanical Department
8. The Institute has organized visits to RedHat India Pvt. Ltd., Infosys Pvt Ltd., Pune, CIPET Aurangabad, IGTR, Aurangabad, ABB, Nashik etc
9. UG and PG students are participating in National/ International Conferences and presenting the research papers
10. The institute is permitting staff in presenting/ publishing the research papers in the Conferences and Journals(Number of Staff permitted is 22)
11. Students have participated in project competition like “Baha” (No. of Participants: 03)
12. The students can access on-line research journals from the Institute’s digital Library
13. Students are doing innovative projects in e-yantra lab and Innovation Lab of the institute.
14. Students participated in Avishkar Competition (Number of Participants : 8)
15. There are 3 research guides from the institute and are guiding to 15 research students

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	---	---	---	---
Outlay in Rs. Lakhs	---	---	---	---

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	---	---	---	---
Outlay in Rs. Lakhs	---	---	---	---

3.4 Details on research publications

	International	National	Others
Peer Review Journals	9	NIL	NIL
Non-Peer Review Journals	2	NIL	NIL
e-Journals	20	2	NIL
Conference proceedings	20	NIL	NIL

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 other organisations

Nature of the Project	Duration Year	Name of the funding Agency	Total grant sanctioned	Received
Major projects	--	--	--	--
Minor Projects	--	--	--	--
Interdisciplinary Projects	--	--	--	--
Industry sponsored	2017-18	1.Red Hat (cse) 2.Cloudlytics(cse) 3.Simmertech(cse) 4.Samay kids(cse) 5. MITU (cse)	Technical support	Technical support
Students research projects (other than compulsory by the University)	--	--	--	--
Any other(Specify)	--	--	--	--
Total	--	5	--	--

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)

Following are the details of the funding received from Dr. Babasaheb Ambedkar Marathwada University

- Received Funding of Rs. 12,000 /- to Conduct workshop on 'Entrepreneurship Development' from Students Welfare Cell of Dr.B.A. M. University, Aurangabad
- Received Funding of Rs. 7,000 /- to Conduct seminar on 'Effective Writing of Research paper and Research proposal' under 'C.V. Raman Vyakhyanmala' from Students Welfare Cell of Dr.B.A. M. University, Aurangabad.
- Received Funding of Rs. 7,000 /- to Conduct 'Dr. Babasaheb Ambedkar Vyakhyanmala' , from Students Welfare Cell of Dr.B.A. M. University, Aurangabad

## 3.10 Revenue generated through consultancy

Rs:- 13,05,423/-

Sr. No	Name of Staff Involved	Department Name	Funding/Consulting Agency	Amount	Project Tile	Duration
1	Prof. S.D.Pingle	CSE	Weshine Tech Pvt. Ltd, Pune	66,000/-	PET Online Test	2 Days
2	Prof. S.D.Pingle	CSE	APTECH	26,000/-	GPAT Online Test	One day
3	Prof. Aves	Mech	Nitin kale, Arun Gaikwad, ganesh tekne, Imran Shaikh	1000/-	To determine calorific value of cow dunk	3 days
4	Prof. Shirsat	Mech	Dr.Rohan Ranveer	2000/-	Comparative evaluation of shear bond strenth	2 days
5	Prof. J.R. Gaikwad & Prof. D.B. Karwar	Civil Engineering Department	Lindinger Inspection Services Pvt. Ltd.	2750	Theodolite Test on GBM Telecom Tower	01 Day
6	Prof. S.S. Razvi	Civil Engineering Department	Sankalp Consultancy Services	3,65,670	C.B.R., Sieve Analysis, PI & Free Swell Index	44 days
7	Prof. J. R. Gaikwad	Civil Engineering Department	Military Engineer Services	9,050	Design mix for semi dense asphaltic concrete	3 days
8	Prof. S.S. Razvi	Civil Engineering Department	Sankalp Consultancy Services	6,31,994	C.B.R., Sieve Analysis, PI & Free Swell Index	30days
9	Prof. D. N. Kakde	Civil Engineering Department	Sankalp Consultancy Services	8,500	IIIrd Party Inspection	2days
10	Prof. J. R. Gaikwad	Civil Engineering Department	Sankalp Consultancy Services	1,11,359	C.B.R., Sieve Analysis, PI & Free Swell Index	10days
11	Prof. J. R. Gaikwad	Civil Engineering Department	Military Engineer Services	14,550	Design mix for semi dense asphaltic concrete	3 days
12	Prof. J. R. Gaikwad	Civil Engineering Department	Mohd. Abdul Mateen	1,300	Slope of drainage line	01day
13	Dr. R.M. Sawant	Civil Engineering Department	Advanced Sports Technologies, C/o NPCC	1,850	Paver Block Compressive Strength	01 day

Sr. No	Name of Staff Involved	Department Name	Funding/Consulting Agency	Amount	Project Title	Duration
14	Prof. J. R. Gaikwad	Civil Engineering Department	M/s K.M. Lalwani	14,550	Semi Dense Ashphaltic Conc. SDAC and BM mix Design	03days
15	Prof. J.R. Gaikwad & Prof. Syed Shoeb	Civil Engineering Department	M/s D.V. Engineers and Contractor	14,550	Semi Dense Ashphaltic Conc. (SDAC) And BM Mix Design	03 days
16	Prof. J.R. Gaikwad & Prof. Syed Shoeb	Civil Engineering Department	M/s D.V. Engineers and Contractor	14,550	Semi Dense Ashphaltic Conc. (SDAC) And BM Mix Design	03 days
17	Prof. J.R. Gaikwad & Prof. Syed Shoeb	Civil Engineering Department	M/s D.V. Engineers and Contractor	14,550	Semi Dense Ashphaltic Conc. (SDAC) And BM Mix Design	03days
18	Prof. M. M. Ambekar	CSE Department	Incubation Centre-Get Started LLP	5,200/-	Training fees	2017-18

3.11 No. of conferences Organized by the Institution

Level	International	National	State	University	College
Number	-	-	-	-	-
Sponsoring agencies	-	-	-	-	-

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

### List of Activities under Linkages

Sr. No	Name of Activity	No. of participant	Date	Outcome
1	SAP Training for Staff (Primus)	85	August 2017	Faculties trained to enhance skill as per industry requirement
2	Seminar for Awareness of Cyber Security(Quickheal)	47	April 2018	Student aware the importance of cyber security
3	Online Test on Cyber Security(Quickheal)	47	April 2018	Knowledge of cyber security was analyzed
4	Corporate sustainability program, increase the awareness of industry connect (Tata Technology Ltd.)	80	21/02/2018	Student aware about industrial culture, new technology and future of industry, skilled engineering & its demand.
5	Energy Conclave 2018	400	16 <sup>th</sup> Feb 2018	Student got knowledge of E-vehicle
6	Campus Recruitment Training for FE to BE students of all branches (Universal Education, Bangalore)	FE to BE	2017-18	CRT
7	FDP at BVB COE, Hubli (Eye-boats)	1	15 <sup>th</sup> to 18 <sup>th</sup> May 2018	To be executed

3.15 Total budget for research for current year in lakhs:

From funding agency  From Management of University/College

Total

3.16 No. of patents received this year

Type of Patent	Number	
National	Applied	2
	Granted	1
International	Applied	Nil
	Granted	Nil
Commercialised	Applied	Nil
	Granted	Nil

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

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

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  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  College forum   
NCC  NSS  Any other

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

1. Tree Plantation (No. of Participant:150)
2. Mahaswachata Drive at Panchakki(No. of Participant:125)
3. Heritage walk & cleanup (No. of Participant:30)
4. Ekata Daud (No. of Participant:25)
5. NSS camp: Tree plantation, Clean Village Rally, Shramdan, Chitrakala Competition and SAVE GIRL Child Movement (No. of Participant:60)
6. Blood Donation camp (No. of Participant:72 staff:02)
7. Health check-up camp(No. of Participant:150)
8. Facilitation Centre and Students' counselling
9. TechFlair: A Natinal level event with various competitions (No. of participants: 977)
10. TecTrix 2018: A National level event (No. of participants: 838)
11. Free MH-CET coaching for 12<sup>th</sup> students of Science (No. of participants:45)
12. A Free Counselling Webinar on "MHT CET 2018 & Opportunities in Engineering, Pharmacy and Agriculture" was arranged on 21/04/2018 for 12<sup>th</sup> pass out Student by State CET cell and Directorate of Technical Education (DTE), Mumbai (Number of Participants: 55)
14. Energy Conclave on "E-Vehicles, Future of Smart Cities and Clean Environment" was arranged on 16/02/2018 at our institute in association with CMIA (Chamber of Marathwada Industries and Agriculture). (No. of participants: 239)
15. 14. Students and teachers took out a peaceful march from the college on 18-4-2018 demanding justice for Kathua, Unnao and Surat rape victims. A memorandum submitted to the President through the divisional commissioner.
16. Participation in Kendriya Yuvak Mahostav (No. of Participants: 16)

Criterion – IV

4. Infrastructure and Learning Resources

4.1 Details of increase in infrastructure facilities:

Facilities	Existing	Newly created (During year 2017-18)	Source of Fund	Total
Campus area	91035 sq.m.(22.5Acres)	Nil	Institute	91035 sq.m.(22.5Acres)
Class rooms	31	Nil	Institute	31
Laboratories	45	Nil	Institute	45
Seminar Halls	4	Nil	Institute	4
No. of important equipments purchased ( $\geq$ 1.0 lakh) during the current year.	549	Nil	Nil	549
Value of the equipment purchased during the year (Rs. in Lakhs)	4,24,47,739/-	53,234/-	Self Finance	4,25,00,973/-
Others	Windows Server, MS-Office	Purchase of Microsoft Software 1,96,621/-	Self Finance	1,96,621/-

4.2 Computerization of administration and library

<p><b>Computerization of Administration:</b>                  *Tally Software for account purpose                  *Paywihz software for salary purpose                  *ERP for student admission, Fees Collection, Notice Management, Result Analysis, etc.</p> <p><b>Computerization of Library:</b>  <u>Name of Software</u> : Lib-Man (Library Management System) legally licensed by MasterSoft ERP Solution Pvt.Ltd-A Company of Master’s Software Group, 1456-A, New Nandanvan, Nagpur-24.  <u>Lib-Man Modules</u> :                  *Acquisition &amp; Cataloguing                  *Serial Controls ( Magazine &amp; Journals)                  *News paper entry &amp; Paper Cutting                  * Circulation                  * MIS Reports ( with Graphical Reports)                  * OPAC On Line Public Access</p> <p><u>Features Of Lib-Man</u> :                  *Multiuser, Fully secured &amp; maintenance free software                  *250+ Reports as per library                  *Barcode, Spine label generation                  *No limitation of book entry                  *No upper limits on number of document(s)/Journal(s)/periodical(s) entry                  *User can print report in A4, Legal 132,80 column reports                  *Reports export facility to MS word, MS Excel, PDF format etc.                  *Statistical with Graphical MIS reports                  *SMS &amp; Email send to students &amp; staff                  *User defined privileges for different user can be given                  *Data conversion possible from any software to Lib-Man</p>
---



#### 4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	32157	9650497	1355	737492	33512	10387989
Reference Books						
e-Books	585		585		585	
Journals	57	161275	57		57	
e-Journals	9040	21500	9040	36500	9040	36500
Digital Database	03	21500	03	36500	03	36500
CD & Video	727				727	
Others (specify)						

#### 4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	535	18	20 mbps + 12 mbps	15	1	ERP	-	-
Added	1 (ERP H/W SERVER)	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Total	536	18	32 mbps	15	1	ERP	-	-

#### RAM Up gradation/On-line UPS

Sr.No	Department	Lab Name	RAM Upgraded	Quantity
1	CSE	LAB-5	4 GB	10
2	CSE	OTL	4 GB	10
3	CSE	LAB-3	2 GB	20
4	EEP	Computer Lab	4 GB	10
5	EEP	Computer Lab	2 GB	10
6	CIVIL	Computer Lab	4 GB	10
7	Incubation Center	Incubation Center	8 GB & On-Line UPS	10
8	CSE	LAB-2	4 GB	4

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

<b>1. Computer Science and Engineering Department</b>	
• Red Hat Certified System Administrator(RHCSA) (No. of participants:24)	
• Red Hat Certified Engineer(RHCE) (No. of participants:14)	
• Spoken Tutorial Workshop on PHP and MySQL (No. of participants:25)	
• Spoken Tutorial Workshop on Linux (No. of participants: 36)	
<b>2. TP Cell</b>	
• TP cell had organized SAP training for 42 Staff of PES and other Institute and 85 students of PES.	

4.6 Amount spent on maintenance in lakhs :

i) ICT	NIL
ii) Campus Infrastructure and facilities	20.88
iii) Equipments	0.85
iv) Others	NIL
1. PC Maintenance	0.058
2. CCTV Maintenance	0.024
3. Server Maintenance	0.055
4. UPS Maintenance	0.0052
<b>Total:</b>	<b>27.55</b>

Criterion – V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

In the IQAC meeting, it was decided to introduce newly admitted students to the support system of the Institute

- Faculty induction programme was arranged to instruct the faculty to participate in this activity
- On the arrival of newly admitted students, a Principal address was arranged. The Principal gave introduction of Dean's, Head's of the various departments and narrated various systems and practices followed by the institute along with an appeal to the student to make the best used of various facilities and support systems.
- Induction programme was arranged in all the departments. A five day program was chalked out which included visits to all the facilities of the college, support system and various services offered to the students.
- Effort was made to guide the students by various activities to enable their transition from higher secondary school/college to Engineering College.
- An effort to bring out the hidden qualities of the new comer was made.

Following Information was provided to the students

- 1) The Academics calendar is displayed on the notice board of each Department.
- 2) The Information about various committees like anti ragging, women's grievance cell etc.
- 3) Each Department is having its own student's Association and Activities are conducted under these Associations.
- 4) By giving awareness regarding ICT.
- 5) Mentor wards scheme is adopted in each department.
- 6) Providing sufficient facilities for PG courses.
- 7) Remedial classes and Value added courses
- 8) Various facilities like Girl's/ Boy's hostel and canteen

5.2 Efforts made by the institution for tracking the progression

- 1) Students result analysis
- 2) Arranging parents meet
- 3) Arranging Alumni meet
- 4) Students feedback
- 5) Employer feedback
- 6) Remedial classes
- 7) Continuous Assessment for practical experiment
- 8) Class test for all classes
- 9) PPT presentation by the students
- 10) Unit wise Assignment
- 11) Placement
- 12) Paper Presentation by students
- 13) Tracking the progress of Alumni

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
1663	37	0	

(b) No. of students outside the state

03

(c) No. of international students

Nil

No	%
1234	72.58

Men

No	%
466	27.41

Women

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC/DNT	Physically Challenged	Total
686	464	13	242	0	1405	845	458	10	386	1	1700

Demand ratio: NA\*

Dropout: 0.01%

\*All Seats are allocated by DTE during centralized admission process.

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

Summary of Competitive Exam Training		
Year	Expert Lectures	Total
2017-18	01	01

Details are as follows:

Sr. No.	Year with date	Guest lecture/ Workshop	Name of resource person	Target audience	No. of students beneficiaries	Remark
1	04-04-2018	Guest Lecture	Mr.Ajinke Kanantri	CSE	58	Motivated

No. of students beneficiaries 58

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

NET	<input type="text"/>	SET/SLET	<input type="text"/>	GATE	3	CAT	<input type="text"/>
IAS/IPS etc	<input type="text"/>	State PSC	03	UPSC	<input type="text"/>	Others	<input type="text"/>

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

##### Student Counseling

##### 1. Teacher Guardian Scheme

- TGS is run very successfully in all the Departments. The objective behind this scheme is to motivate the student for better academic performance, achieve professional excellence, opt for higher studies and research, gain professional employment, participate in extracurricular activity, and solve any problems faced by students.
- One teacher is allotted 13-18 students. Teacher Guardian(TG) maintains all records of the allotted students. He / She takes the continuous follow up regarding attendance of his/her students. In case of poor academic performance, students is improved through counseling. If necessary TG can call the parents on the basis of weekly/monthly academic monitoring. TG counsels about studies and tries to solve the domestic problems of students. Also, in consultation with HOD, TG can give the necessary punishment to student(s) for improvement. TG maintains following Documents /Records of students::
  - Personal Details: Roll No, Name, Class, Batch, Address, Phone number, email id, Parents Name and mob. No.
  - Class /Practical Attendance Record

- Class Test Marks Record
- Academic/ Extra Curricular Activities Achievements Record
- Meeting Attendance/Discussion Record (After every 15 days)
- Medical / any other Certificates
- Students are taught the importance of Social Responsibility, Ecological Awareness and the role of being a good citizen and encouraged to be a part of campaigns that promote such activities.
- Students are encouraged to organise and take active participation in technical and extracurricular events.

## **2. F.Y. Induction Program**

- The induction program was conducted for F.Y students as per the guidelines of BATU, Lonere to make the environment as friendly as possible. Different activities were conducted by the staff and the students of S.E., T.E. and B.E. Volunteer students. Activities like walkthrough the Department, Power Yoga, Aerobics, Fast Mathematical Calculations, Quiz Competition, Teamwork, Project Guidance, Creativity, Innovation, Communication, Career opportunities; FORCES Cultural Activities, etc. were arranged for the F.Y. students.
- Workshop on Get To Know A Mini Workshop on “Get To Know ” was been organized for the students who were Ex and had joined this year as Regular students. The motive was to get the students, who joined with a gap of one or more than one year, acquainted with the department. To make them comfortable in the Department and to work in team with coordination. Basic skills like- English language, Build Confidence, Stage Courage, etc. were revised. This was an innovative session for the students in which Innovation and Brainstorming activity was conducted in Groups so that students got acquainted with each other.

## **3. FitFam**

- A fitness program “FitFam” was organized by FORCES, an association of CSE students to counsel the students about the importance of sound health. Mr. Abhijeet Bodhankar, Dietician, Fitness Trainer and Alumni, CSE, defined various health components of fitness. He also explained the factors involved with development, fitness levels and training strategies. He gave the importance of effect of nutrition, rest and other lifestyle factors that contribute to better health.

## **4. Career Guidance**

### **Campus Recruitment Training**

- Campus Recruitment Training is been given to the students by Universal Education, Bangalore as per the MOU with the Institute. The training is given classwise. All the CSE students have attended the Campus Recruitment Training. The syllabus is designed according to the learning ability of the students. The topics of discussion are basic grammar, cosmic calculation, logical reasoning, verbal and non-verbal communication, career guidelines, letter writing, e-mail writing, personality development, writing ability, personal assessment, quantitative aptitude, group discussion, moc interviews, etc.
- Workshop on Entrepreneurship Development was organized for guiding students regarding start up business. The industrialists Mr. Sandeep Nagori, Director, Komal Enterprises, Mr. Anil Dhasal, Technical Director, Abhiman Components, and Mr. Nitin Bhoiyate, CEO , Nocture Solution, shared different start-up ideas and encouraged the students to choose entrepreneur as their career. The students were advised to analyze the environment set up relating to small industry and business. They were made to understand procedure of small scale industries & develop wide vision about the business. Speakers also guided them to understand rules, process, procedure and regulations for running the enterprise through different real time examples and case studies

No. of students benefited

1783
------

### 5.7 Details of campus placement

<i>On campus</i>			<i>Off Campus</i>
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
20	750	192	27

### 5.8 Details of gender sensitization programmes

Sr. No.	Date	Name of Activity	Speaker	Aims and Objectives of the activities
1	08/03/18	Celebration of International Women's Day (No. of participants: 150)	Dr. Trupti Joshi	Personality development, Health Awareness and Health analysis camp
2	23/02/18	Women's Safety Audit (No. of participants: 350)	-	To raise awareness on Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act, 2013
3	25/01/18	Social Activity (No. of participants: 16)	-	To find happiness on the face of needy little one's, donation offered by ladies staff members of PESCOE to SOS children's villages
4	11/11/2017	Legal Awareness and Self Defense Activity (No. of participants: 45)	Reshma Soudagar (PSI)	To inculcate legal awareness and how to make Self Defense when required

### 5.9 Students Activities

#### 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

Sports : 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	1702	8,33,39,487
Financial support from government		
Financial support from other sources		12,24,577
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

#### TecTrix 2K18 (National Level)

Sr. No	Name of Activity	Number of Participant
1	Robo Race	18
2	Boat race	5
3	CAD WAR	15
4	Rifle Shooting	148
5	Hunt Mania	187
6	Brain Pop Up	56
7	Paper Presentation	74
8	Poster Presentation	124
9	Idea Presentation	36
10	Project Presentation	56
11	Eye To Click	64
12	Virtual Snake & Ladder	157
13	Short Film Making	14
14	NFS Most Wanted	37
15	Tech-Rangoli	16
16	Ludo	156
TOTAL		838

5.12 No. of social initiatives undertaken by the students

5.13 Major grievances of students (if any) redressed: NIL

Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

**VISION**

To create a sound technical manpower with global competitiveness, morality and social sense

**MISSION**

- i. To provide state-of-art technical infrastructure and motivate students to realize their own potential.
- ii. To provide an embellished academic and congenial environment to student for a complete learning experience.
- iii. To Promote intellectual, moral and social democracy to ensure all round development of the student.

6.2 Does the Institution has a management Information System: Yes.

Some updation are done in the existing ERP software and following is its description:

- ME Module is added in which Admission, TC, Roll No. of ME student can be added.
- Correction in Fees module is done
- TC Format is updated
- Expenditure format is updated
- Bonafide certificate is updated
- Dress Code Certificate added
- Migrated from Low end server to High end server
- Fees Balance can be seen by category wise
- Contact details can be seen by category wise

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

6.3.1 Curriculum Development

- 1) Faculty is participating in syllabus design of Dr. Babasaheb Ambedkar Marathwada University and Dr. B. A. T. University, Lonere.
- 2) At the time of faculty orientation program suggestions are given.
- 3) Suggestions are taken from all the stake holders and appropriate suggestions are communicated to the BOS chairman for necessary amendments in the syllabus.

Various works shops are conducted to bridge the gap between industry & Syllabus.

1. Training on Red hat Certification (No of Participant:38)
3. Training on Spoken Tutorial (No of Participant:61)
4. Software Value Added Courses for Students Auto Cad, Creo, Robotics Training through e-yantra (No of Participant: 30)



### 6.3.2 Teaching and Learning

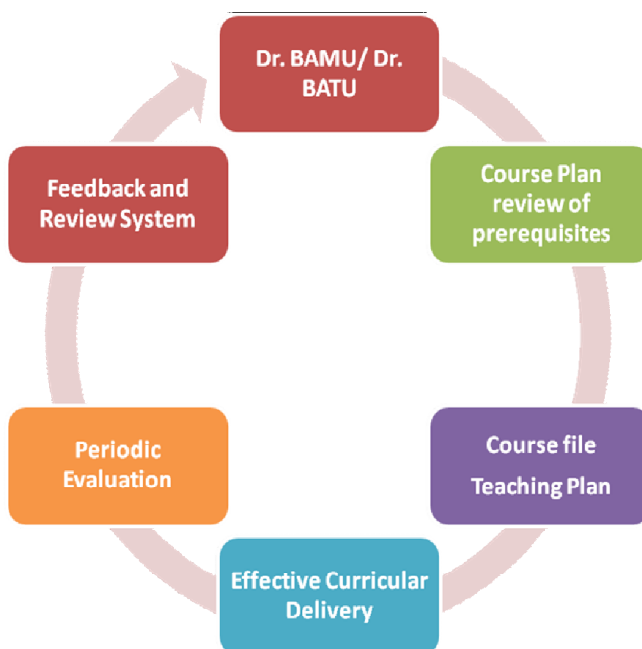


Fig 1: Implementation of Curriculum

- 1) Digital class rooms
- 2) Bridging the gap in Institute and Industry by conducting Seminar/ workshop.
- 3) Providing more than one Elective.
- 4) Adopting Innovative teaching and learning methods
- 5) Internal Assessment during the practicals.
- 6) Remedial Classes for failure students.
- 7) Provision of E-learning Resources in the department and central Library
- 8) Organizing Campus Recruitment Training programme

### 6.3.3 Examination and Evaluation

- 1) As per Dr. Babasaheb Ambedkar Technological University, Lonere, Rules Mid term test and End Semester exams are conducted.
- 2) Tests are conducted as per the academic calendar. The question papers are framed as per the weightage and the application of the subject.
- 3) Prelim exams are conducted for giving a pre-exam practice to the students. This has resulted into improvement in results of higher classes.
- 4) Online subject tests and aptitude test are conducted.
- 5) Continuous assessment is carried out by conducting assessment activities. The result are declared periodically and steps taken for improvement
- 6) The end-semester university exams are conducted by the university

### 6.3.4 Research and Development

- 15 candidates have been registered under research guides of various department.
- 25 (Civil), 06(EEP) and 11(CSE) Candidates have completed M.E. from PG section. (Starting of PG in Civil 2012 and EEP, CSE in 2014)
- Research and Innovation labs is setup: IoT of CSE
- Some staff have filed the Patents and one patent is granted of Mechanical department.
- Project proposal entitled "An IP Trace Back System to Find the Real Source of Attacks using Trace Back-Based Defence against DDos Flooding Attacks" submitted to DST. The said proposal was not screened- in by the committee and returned back to add more future scientific ideas(Date: 31/7/2017)
- Project proposal entitled "Security Analysis of Electronic Payment Protocols Based on Quantum Cryptography" submitted to DST. The said proposal was not screened- in by the committee and returned back to add more future scientific ideas. (Date: 27/2/2018)
- Department of Mechanical, CSE and Civil are generating revenue through consultancy. (Amount: Rs:-13,05,423/-)
- One Staff of our institute have completed PhD from Civil Research Centre.

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

- Hard copies of Journals: 57
- Book bank scheme is implemented in the library (No. of beneficiaries: 877)
- Subscription Through DELNET

Sr.No.	Delnet Database	No.of Record
1	Union Catalogue of Books	25190300
2	Union list of Current Periodicals	37847
3	Union Catalogue of Periodicals	20235
4	Database of Periodical Articles	984809
5	CD-ROM Database	58831
6	Union list of Video recording	6000
7	Union list of Sound recording	1025
8	Database of theses and dissertation	102096
9	Database of E-books	1613

- National Digital Library

Sr.No.	NDL Database	No. of. Record
1	Books	700000
2	Article	300000
3	Thesis	95000
4	Audio lecture	262
5	Video lectures	98000

Book bank scheme:

No. of beneficiaries: Open Book bank:-

No. of beneficiaries: Open Book bank : 327

Category book bank: 550

Grant received from social welfare department: Nil

### 6.3.6 Human Resource Management

- 1) The orientation program and faculty development programmes are conducted periodically to improve the quality of the staff.
- 2) The staff members are encouraged to conduct/attend FDPs/ Short term courses/workshops/Seminars/Conferences etc. to update their skills and knowledge.
- 3) Assessment is done regularly by the society central committee.

### 6.3.7 Faculty and Staff recruitment

As per norms of our society the Recruitment process in Peoples Education Society's PES College of Engineering is transparent and fair.

The very first step in recruitment process is, depending upon requirement the management approves the vacancy. Institute is bind to maintain the Roaster for approved vacancies

Secondly, Institute floats advertisement in the News papers and applications of eligible candidates are invited in stipulated date and time.

At last, received application is sorted according to requirement and eligibility criteria. After these Institute conducts Interview in effective manner which consist following steps:

- General and Technical online aptitude test
- Demo of respective candidate who qualified Aptitude test
- Technical and Personal Interview in front of Expert Committee
- Evaluate performance of faculty and display the Merit List

### 6.3.8 Industry Interaction / Collaboration

1. Industry Institute interaction is done by means of Industry Visit, arranging guest lecture of technical experts from Industry and sending students for the Internship programme.

2. Interaction was done by CSE department. Faculty interacted with the Director of MODI INNOVATION PVT. LTD., Aurangabad on 28/03/18 and industry expectations were communicated to the TE(CSE) students. Faculty guided to the students to how to fulfil these expectations.

3. A seminar on "Cyber Security Awareness " was arranged in association with Quick Heal Pvt. Ltd., Pune by CSE Department on 03/04/2018 (No. of participants:45)

4. Faculty Interaction was done by CSE department with Enrich Web Technologies Private Limited, Software Park Aurangabad on :- 9/04/18 to understand the importance of PHP scripting language as per the industry requirement. This importance was communicated to SE(CSE) students.

5. Mechanical department have signed MoUs with Industries Tata technologies, Pune and industrial organisations i.e. MASSIA, CMIA, CII for expert guest lectures as well as industrial visits and campus drives, training etc.

6. Electronics department had signed MoU with EYE-BOATS

### 6.3.9 Admission of Students

- As P.E.S. College of Engineering is approved by DTE Maharashtra, Institute follows the centralized admission process of Government of Maharashtra which is adopted by Admission Regularity Authority DTE Mumbai.
- For remaining Institute level admission, Institute floats Advertisement regarding admission in the Newspaper as well as in Local digital Media.
- Institute floats Advertisement regarding admission in the Higher Education Directory 2018.
- Institute also executes the advertisement in Local FM Radio channels as well as by posting hording in main localities of city, road junctions, taluka places. Institute ensures that its advertisement should reach to all stakeholders' of urban and rural area of region.

6.4 Welfare schemes for

Teaching/Non Teaching	1) EPF 2) Gratuity 3) Group Insurance Scheme 4) Medical Leave 5) Maternity Leave 6) Institute provide uniform to class-IV Staff 7) Adoption Leave
Students	1) Group Insurance policy 2) Book Bank policy 3) Sponsoring the project competition/paper presentation

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	Experts from other institute.	Yes	IQAC Members.
Administrative	No		No	

6.8 Does the University/ Autonomous College declare 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?

NA

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

NA

6.11 Activities and support from the Alumni Association

1) Guest lectures, Placements, Career Guidance.  
2) Guiding and sponsoring the project

### List of Activities by Alumni

Sr. No.	Name of Alumni	Name of Activity	No. of participants	Outcomes
1	Mr Abhijeet Bodhankar	Fitness Program	76	Health Awareness
2	Vijay Bholwani, Rajesh Udmale, Ashwin Rajore & Krushna Rode	Student Alumni Interaction (Motivational speech and career Guidance)	45	Alumni had spread awareness regarding opportunities in industries.

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

In each Semester Parents Meet is taken by the each department, suggestions by parents are taken into account and corrective measures are done accordingly.

#### 6.13 Development programmes for support staff

- A Meeting of support staff was conducted on 07/10/2017 by principal to give some instructions by guiding them regarding maintaining cleanliness in the departments, class rooms, hostels, library and office. 32 staff's were present for the meetings.
- Fitness program was organized for non-teaching ladies staff members on 24/02/2018
- Health awareness and health analysis camp on 08/03/2018

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

- 1) Paper, plastic waste disposal segregation system is implemented to control the harm to nature.
- 2) Rain water harvesting is done
- 3) Waste management is done
- 4) LED lamps have been installed. Awareness of low energy consumption of electricity has been published on important places.
- 5) Tree Plantation is done.

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.

- Major thrust areas are covered by organizing technical events and outcome based projects
- Industry interaction has impacted positively
- Project competition was arranged by Electronics department for the First year students
- ICT based Teaching-learning process
- Innovative competitions were arranged by committee of TecTrix-2018

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

- In the beginning of the semester planning of Academics, Technical and Non Technical activities is circulated to all teaching staff and students.
- Institute follows objective based Education system. It is mandatory to all staff to prepare teaching plan, lesson plan and lab plan for allotted respective subject as per course outcomes.
- Institute also adopts best practice known as Guardian Faculty Member in which each faculty is assigned 20 students for Mentoring and Nurture the future of student.
- Student feedback is collected and staff is informed to improve the performance if his performance is assessed below satisfactory level.

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

- Smart classrooms in each department and its utilization
- Training Impartment for Enhancement of Employability Quotient

*\* The details are in Annexure-IV*

7.4 Contribution to environmental awareness / protection

- 1) Tree Plantation Program
- 2) Promoting of solar technology to reduce the carbon footprints by facilitation solar base OBE projects and workshops
- 3) Proposal to install solar park within the premises of the institute so as to be self sufficient, attain grid parity and contribute towards de-carbonization of the environment.

7.5 Whether environmental audit was conducted? Yes  No

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

**Strengths:**

- Staff retention ratio is good
- Good staff-student ratio
- Adequate infrastructure
- Supportive management, dedicated faculty and motivated students

**Weaknesses:**

- Limited academic flexibility
- Less percentage of faculty with PhD qualification
- R and D activities need to be increased

**Opportunities:**

- Improve R & D through interaction with Higher Learning Institutes/Industries
- Strengthen consultancy through IIP cell
- Explore Publications through projects and research
- Obtain autonomous status

**Challenges:**

- Placement for all the eligible students
- Recruiting highly qualified faculty members from reputed institutes and retaining them.
- Convincing industries to collaborate for transfer of Technology.

8. Plans of institution for next year

- MoU will be signed with Global STAR Certification.
- Applying for Diploma in vocational courses for various branches of MSBTE.
- Maintain excellent teaching-learning environment to achieve Good Results with University rankers.
- Initiate research culture in Institute by arranging workshop, technical events at state, national and international levels.
- Obtain AICTE /DST/UGC grants from Government sources for minor/major Research projects.
- Arrange GATE and competitive exam Coaching.
- Offer lab. facilities, projects and product development for other institutes and industry
- Offer consultancies services in all the Departments.
- Applying for Research Centre in the various programmes.
- Organizing Conference at International Level for all departments in May-2019.
- Organizing quality related Seminar/ workshops.
- Academic Planner for the academic year 2018-19 is attached in Annexure –V


Name: Dr.S.N. Kakarwal

Name: Dr.A.P.Wadekar

Signature of the Coordinator, IQAC

Signature of the Chairperson, IQAC

Annexure I

	<p><b>P.E.S. College of Engineering, Aurangabad</b> Nagsenvan, Besides Panchakki, Aurangabad.</p>
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**Academic Calendar 2017-2018 (Semester I)**    BAMU  BATU

<b>3 July,2017</b>	<b>Commencement of First Session S.E to B.E. (Dr.B.A.M.U.)</b> * <u>Admission of S.E. to B.E. must be taken within 10 days after declaration of results.</u>
08 July	People's Education Society Foundation Day
31 July	Academic review meeting and display of first defaulters list, and communication to non reporting students, department wise.
<b>01 August 2017</b>	<b>Commencement of F.Y. B.Tech &amp; M.Tech . classes (BATU)</b>
15 August	Independence day
<b>18&amp;19 August</b>	<b>Class Test I SE to BE</b>
23 August	Dr.B.A.M.U. Foundation Day.
<b>26 August</b>	<b>Parents meet at all departments from F.E. to B.E</b>
05 September	Teacher's day..Department programmes.
<b>11 to 16 Sept.</b>	<b>Internal Academic Monitoring F.Y.B.Tech. .&amp; M.Tech . (BATU)</b>
15 September	Engineer's Day. Inauguration of Student's Council ( If formed by this date).
17 September:	Marathwada Mukti Sangram Din.
<b>22 &amp; 23 Sept</b>	<b>Class test II SE to BE</b>
29 September	Academic review meeting and display of second defaulters list, department wise.
30 September	Dhamma Chakra Prvartan Din, Vijaya Dashami.
<b>03 to 05 October</b>	<b>Mid Term Exam for F.Y.B.Tech. .&amp; M.Tech . (BATU) marks to be submitted by 15<sup>th</sup> October.</b>
<b>04 October</b>	<b>Last date of submission of Semester I Exam forms. F.Y.B.Tech.&amp; M.Tech .(BATU)</b>
<b>06 to 09 October</b>	<b>Submission. SE to BE. ( Subject-wise schedule be planned by Departments)</b>
<b>09 to 13 October</b>	<b>External Academic Monitoring F.Y.B.Tech.&amp; M.Tech ..(BATU)</b>
10 October	Provisional Detention Meeting. SE to BE
11 to 14 October	Additional Tests and Prelims for SE to BE to be planned by the Department.
<b>14 October</b>	<b>Term End for S.E. to B.E. (Dr.B.A.M.U.). Final Detention meeting.</b>
19,20,21 October	Deepawali
<b>30 Oct to 9 Nov</b>	<b>Dr.B.A.M.U..Practical exams for SE to BE</b>
<b>13 Nov. to 2 Dec.</b>	<b>Dr.B.A.M.U..Theory Exams for FE and ME Backlog, &amp; S.E. to B.E.</b>
<b>30 November</b>	<b>End of Classes and Last date of submitting Assessment Marks..(BATU)</b>
<b>2 to 8 December</b>	<b>Practical exam F.Y.B.Tech.&amp; M.Tech(BATU)</b>
06 December	Dr. Babasaheb Ambedkar Mahaparinirwan Din.
<b>11to22December.</b>	<b>Semester End Exam F.Y.B.Tech.&amp; M.Tech(BATU)</b>
	*Vacations as per directives and sanction by the Principal. STTP / FDP/Workshop/Conference to be arranged by the Departments in vacations.





**P.E.S. College of Engineering, Aurangabad**  
Nagsenvan, Besides Panchakki,  
Aurangabad.

**Academic Calendar 2017-2018 (Semester II)**  BAMU  BATU

<b>18 December,17</b>	<b>Commencement of Session-II Classes for S.E. to B.E. (Dr.B.A.M.U.)</b>
<b>26 December,17</b>	<b>Comencement of Session II Classes of F.Y. B.Tech &amp; M.Tech(D.B.A.T.U.)</b>
14 January,2018.	Dr. B.A.M.U. Namvistar Din .
26 January	Republic Day.
31 January	SE to BE Academic review meeting and display of first defaulters list, and communication to non reporting students, department wise.
<b>02 &amp;3 February</b>	<b>Class Test I for SE to BE.</b>
<b>05 -09 February</b>	<b>Internal Academic Monitoring.</b>
<b>06 February</b>	<b>Declaration of F.Y.B.Tech.&amp; M.Tech(BATU) result.</b>
<b>17 February</b>	<b>Parents meet at all departments from F.E. to B.E.</b>
<b>21 to 23 Feb</b>	<b>Annual Social Gathering.</b>
28 February	SE to BE Academic review meeting and display of second defaulters list, department wise.
<b>01-05 March</b>	<b>Mid semester exam for F.Y.B.Tech classes (BATU)Marks to be submitted by 13 March</b>
<b>06-13 March</b>	<b>Remedial exam F.Y.B.Tech.&amp; M.Tech(BATU)</b>
<b>9&amp;10 March</b>	<b>Class test II For SE to BE.</b>
<b>17 March</b>	<b>Last date of submission of Semester I Exam forms F.Y.B.Tech./M.Tech. (BATU)</b>
<b>19-23 March</b>	<b>External Academic monitoring classes F.Y.B.Tech.&amp; M.Tech(BATU)</b>
<b>23 to 26 March</b>	<b>SE to BE Submissions for all classes. ( Subject-wise schedule by Depts)</b>
27 March	SE to BE Provisional Detention Meeting.
28 to 31 March	Additional Tests and Prelims to be planned by the Department. SE to BE
<b>31 March:</b>	<b>Term End for SE to BE . Final Detention Meeting.</b>
<b>02 to 12 April</b>	<b>Dr.B.A.M.U. Practical exams for F.E and M.E. Backlog &amp; SE to BE.</b>
<b>13 April</b>	<b>Term End of Classes and Last date of submitting Assessment Marks.(BATU)</b>
<b>16-21April</b>	<b>Practical exam F.Y.B.Tech.&amp; M.Tech(BATU)</b>
<b>16 April- 5 May</b>	<b>Dr.B.A.M.U. Theory Exams for ALL</b>
14 April	Dr. Ambedkar Jayanti.
<b>23 April-19 May</b>	<b>Semester Exam F.Y.B.Tech.&amp; M.Tech(BATU)</b>
30 April	Buddha Purnima.
01 May	May Day.
05 May onwards	*Training for the faculty to be planned department wise. STTP / Workshop / Conference to be arranged in this period with mutual consent for convenient dates.

## Annexure II

### **Stakeholder's Feedback Analysis**

Through the feedback from the stakeholders, following are the inferences:

**a. Feedback from alumni**

1. Alumni found that progress of the institute is satisfactory.
2. According to the present scenario in the industry, syllabus needs to be upgraded. Suggestions regarding the same have been given and these suggestions were submitted to the BOS for discussion and approval.
3. The placement activity will be supported by alumni who are well placed.
4. The alumni are conducting guest lecture and guiding the upcoming students.
5. They have agreed to sponsor innovative projects.

**b. Feedback from Parents**

The parents have expressed satisfaction in the performance of their ward after completing the curriculum. They have given following suggestions:

1. More emphasis is needed to be given on communication skills
2. Training placement needs to be enhanced

**c. Feedback from Students**

Following feed back was collected from the students in both the semesters:

1. Regarding faculty
2. Regarding Infrastructure
3. Regarding Overall Atmospheres & Facilities
4. Student requested that more Practical knowledge should be given, based on these feed back hands-on work shops were conducted by the industrial experts.

**Quantitative details about the feedback**

Sr. No	Name of the Department	Student (no. of Respondent)	Parents (no. of respondent)	Alumni (no. of Respondent)
1	Mechanical	420	10	08
2	Electronics and Tele Communication	57	24	42
3	Computer Science and Engineering	170	82	50
4	Civil Engg	68	13	80
5	Electrical & Electronics Power	306	78	13

Annexure –III

**1. List of Guest Lectures**

Sr. No.	Name of faculty	Organization	No. of participant	Title of Guest lecture	Outcome
1	Mr.Kedar Dixit	Technical at Persistent	61(CSE)	Machine learning and its application	Understanding the concept of machine learning
2	Mr.Sanjay Padghamol	GIOTECH Institute Abad	60(CSE)	GIS	Knowing job opportunity in GIS
3	Cad Cam Guru mantra	PESCOE		Shrikant Bidwi	Student take knowledge of Autocad and understand its future scope
4	Industrial Need and Important Skill Of Training Program	PESCOE		Bharat Gangakhdedkar	Students learnt and understand various skills and courses and training which need for industry.
5	Scope of SAP	PESCOE		Manoj Nazare	Student understand SAP Importance.
6	Industrial Requirement and Roll of Engineer in Society	PESCOE		V.M. Kulkarni	Students learnt and understand various skills and courses and training which need for industry.
7	Importance of pathway of Research Methodology	PESCOE	15	S.T.Dhande	All Participant learnt how to go for research and what step it includes.
8	SAE BAJA virtual 2017 competitive presentation	PESCOE		Azaz Khan & Team Member	Student learnt to design model frame of car , its analysis .
9	V P Gosavi	Galaxy Consultancy	32	Design of efficient Illumination System	
10	Mr. Vishal Kulkarni		27	Optical Fire	
11	Prof.C.V.Nandanwar	Govt.Polytechnic,A'bad	33	Optimization in design	Awareness with new design concept
12	Prof.Satish Taji	Sanjivni college of engineering. kopergao	31	GIS	Knowledge of new technology in survey and geology
13	Mr. Survase.S	C.R.V corporation	50	RCC construction	Field knowledge of construction

## 2. List of students Involved BAJA/Avishkar project competition

Sr. No	Name of Students	Class /Branch	Title of project	Project competitions	Outcome
1	Azaz Khan, Krushna Yadav, Gaurav Ghodake	B.E. Mechanical	Manufacturing Car frame	SAE BAJA Competition	Participation
2	Akshaya Jain	CSE	Parental Control Software	Avishkar	Participation
3	Inurupa Shukla	EEP	Design & Development of Liquid Flow Meter	Avishkar	Participation
4	Indrajeet Ghawalkar	MECH	Automatic Rain operated Wiper	Avishkar	Participation
5	Shital Jadhav	CSE/IT	Smart Car Parking IOC based	Avishkar	Participation
6	Nikhil Dahat	MECH	Fabrication of Moisture Removal Equipment Using Cellulose Based Material	Avishkar	Participation
7	Md. Masood	EEP	Design Water Tower Energy Storage using AMC Tank	Avishkar	Participation
8	Syed shujauddin	CSE	Home Automatic System using MQTT Protocol	Avishkar	Participation
9	Naresh Nipanikar	CSE	NAAC Next Level Automation For Accident Control	Avishkar	Participation

### 3. List of Value Added courses

Sr. No	Title of Course	No. of Students	Outcome
1	Red Hat Certified System Administrator (RHCSA)	24	Certified students are now eligible to do Internship in RedHat India Pvt Ltd & also they are ready to work on various open source technology platform.
2	Red Hat Certified Engineer(RHCE)	14	
3	Spoken Tutorial Workshop on PHP and MySQL	25	Better Job Opportunity
4	Spoken Tutorial Workshop on Linux	36	
5	Demonstration of Elements of Mechanical Engineering	40	Student Dissemble and Assemble
6	Hands on Practise on Auto Cad	16	Students learnt various commands of Auto Cad And Software use. Also Learnt 2D and 3 D Drawing.
7	Civil engineering awareness program	30	Brief Knowledge of Civil Engineering
8	Software based future for civil	23	Awareness of Civil Software
9	Manufacturing and Strength of Steel	45	Study of Steel Manufacturing
10	Career guidance & job opportunities through GATE/IES/PSU	50	To Prepare Students for Competitive Exams
11	Awareness of Tekla structures	100	Awareness of Steel Structures Software
12	Career in GIS and Remote sensing	89	To know the revolution in Surveying
13	SEBI (investment)	86	Positive investment of capital amount
14	Knowledge of Interior Design	72	To enhance the internal beauty of various structures

#### 4. List of Industry Visits

Sr. No.	Name of faculty	Industry/ Organization	No. of participant	Date	Outcome
1	Prof.V.B.kamble,Prof. G.R.Guad,Prof.A.S.Gaddekar,Prof.N.R.Khatri, Prof.S.M.Salve	RedHat India Pvt Ltd Pune	47	12/1/2018	To familiarize the student with server side programming and to improve technical skills of the students
2	Dr.S.N.Karkarwal, Prof.V.B.Kamble ,Prof.B.N.Jha, Prof.S.V.Bhosale	Infosys Pvt. Ltd., Pune	45	20/1/2018	To introduce student with corporate culture, importance of communication skill and industry environment
3	Prof.N.D.Dudhmal	Aurangabad Foundries	78	6/10/2017	Student Learnt About foundry and metal processes
4	Prof.A.A.Gawali	CIPET, Aurangabad.	78	6/10/2017	Students Aware About Plastic Engineering Working and environment.
5	Prof.H.R.Ghan & A.A.Gawali	Laxmi Metal Pvt ltd A.Bad	124	18/03/2017	Student Learnt About foundry and metal processes
6	Prof.R.L.Shirstah & N.D.Dudhamal	IGTR Aurangabad	60	15/02/2018	Learn About Automation and Automobile Spare part Manufacturing.
7	Y.S.Sable & S.S.Shinde	Sanjeev Auto	130	13/10/2017	Aware About Automobile Component and Manufacturing.
11	B. N. Chaudhari, AMP, PPF, IRK, ASP	ABB, Nashik	37	80/03/2018	
12	Ganesh Kalane	MSETCL, Aurangabad	100	12/03/2018	
13	Amit Paikrao	Sanjeev Electroplast	12	10/09/2018	
14	Amit Paikrao	Metarolls 500, Jalna Midc, Jalna	10		
15	Mrs. M.R. Rajput, Mrs. V.R. Kshirsagar	NIMRA Products, MIDC, Railway Station, A'bad	18	06/02/2018	Practical exposure to Microcontroller and Embedded Design
16	Mrs. M.R. Rajput, Mrs. V.R. Kshirsagar	HPCL LPG Gas Plant, MIDC Chikalthana	23	10/02/2018	Exposure to the working details in the fields of Instrumentation
17	P.C. Wahewal, S.S.Fatima, D.B.Karwar	WTP at Farola	65	29-02-2018	Study regarding Water Treatment.
18	P.C. Wahewal, D.B.Karwar	SMS CETP Waluj	32	21-09-2017	Interaction with industries
19	P.C. Wahewal, P.D.Alte, D.B.Karwar	Manmad	57	12-03-2018	Knowledge of Railways and Steel Structures

### 5. List of students who have done In-plant training

Sr. No.	Name of the Student	Class	Name of industry	Date	Outcome
1	Shubham Manoj Shirsath	BE Mech	Manodeep Industry	22/06/2018	Learnt Ethics of Industry, production Processes.
2	70 students from TE Civil & ETC	TE-Civil & ETC	Airport Authority, Vikas Developers, Tupe Patil Construction, Bharuka Construction, R.R. Infrastructure, Nayak Arch, Hitech Infrastructure, Abad, S.K Construction Pvt Ltd, Nanded	2017-18	Terminal Building Modernization. Air Traffic Control Process Training, For getting the practical knowledge and exposure to the construction world.

### 6. List of Students participated in Kendriya Yuvak Mohastav from 29<sup>th</sup> Oct 2017 to 01<sup>st</sup> Nov 2017

Sr. No	Name of Student
1	Wadmare Rekha
2	Akaskar Chandrashekhar
3	Jadhav Yogesh
4	Magare Rani
5	Korade Kalyani
6	Sonar Jayashri
7	Kather Prajka
8	Suryawashi Digambar
9	Dinde Gayatri
10	Kshirsagar Shivani
11	Bachake Akshay
12	Dhepale Ajinath
13	Shaikh Mujim
14	Paikrao Chandrashekhar
15	Narawade Akshay
16	Jadhav Arvind

## Annexure -IV

### **Best Practices**

#### **1. Smart Class room in each Department and its utilization**

The institute has Smart Class Rooms in every department. The institute has taken up the innovative step by linking the bio-metric attendance of the students and staff to the ERP and the lot of reports and decision making is done based on the system. We have adopted biometric attendance in the class for staff and students. It resulted in punctuality for staff and students. This has been linked with ERP to have a central record. K-yan and Wi-fi facility is provided in the class room for innovative teaching and learning.

#### **2. Training Impartment for Enhancement of Employability Quotient**

P.E.S. College of Engineering is committed to enhance the Employability Quotient of its students which will lead them to become Employable Graduates. This is in lines with our vision of creating a sound Technical Manpower with Global Competitiveness, Morality and Social Senses. Over a period of four years, the students are trained on different aspects of Employability. The institute has incepted Campus Recruitment Training right from First Year to Final Year. Corporate Trainers from industry trains the students on Communication skills, Soft Skills, Aptitude Training, Resume building and Interview Technique. All these efforts helps the students kick start their career in Corporate World.





## P.E.S. College of Engineering, Aurangabad

Nagsenvan, Besides Panchakki,

Aurangabad.

### Academic Calendar 2018-2019 DBATU (Semester I)

<b>29<sup>th</sup> July, 2018</b>	<b><u>Commencement of First Session S.Y.B.Tech..</u></b> * Admission of S.E. to B.E. must be taken within 10 days after declaration of results.
<b>23<sup>rd</sup> July</b>	<b>Remedial Examination.</b> (Dates likely to change)
<b>1<sup>st</sup> August, 2018</b>	<b><u>Commencement of F.Y. B.Tech. classes</u></b>
<b>1-21 April</b>	<b>Induction Programme for F.Y.B.Tech.</b>
<b>15 August</b>	<b>Independence day</b>
<b>16 August</b>	<b><u>Commencement of M.Tech . classes</u></b>
<b>13-16th August</b>	<b>First Periodic Test S.Y.B.Tech</b>
<b>03-08 September</b>	<b>Mid Semester Examination for S.Y.B.Tech.</b>
<b>5<sup>th</sup> September</b>	Teacher's day. Department programmes.
<b>10 to 17 Sept.</b>	<b>Internal Academic Monitoring F.Y.B.Tech., S.Y.B.Tech &amp; M.Tech .</b>
<b>15 September</b>	Engineer's Day. Inauguration of Student's Council (If formed by this date).
<b>17 September:</b>	<b>Marathwada Mukti Sangram Din.</b>
<b>22<sup>nd</sup> September</b>	<b>Parents meet at all departments from F.E. to B.E</b>
<b>8 to 13 October</b>	<b>Mid Semester Exam for F.Y.B.Tech. , &amp; M.Tech.</b>
<b>18<sup>th</sup> October</b>	<b>Vijaya Dashami. Dhamma Chakra Prvartan Din,</b>
<b>23<sup>rd</sup> October</b>	<b>Last date for submission of Mid Semester Exam marks.</b>
<b><u>23to27 October</u></b>	<b><u>External Academic Monitoring.</u></b>
<b>20 October</b>	Provisional Detention Meeting. S.Y.B.Tech.
<b><u>26October</u></b>	<b>End of Classes S.Y.B.Tech.&amp; M.Tech. and Last date of submitting Assessment Marks.</b>
<b>7,8,9 November</b>	<b>Deepawali</b>
<b>29 Oct -3 Nov</b>	<b>Dr.B.A.T.U..Practical exams for S.Y.B.Tech. &amp; M.Tech.</b>
<b>12 Nov to 14 Dec.</b>	<b>Dr.B.A.T.U..Theory Exams for S.Y.B.Tech.</b>
<b><u>30 November</u></b>	<b>End of Classes and Last date of submitting Assessment Marks of F.Y.B.Tech</b>
<b>3 to 8 December</b>	<b>Practical exam F.Y.B.Tech.&amp; M.Tech</b>
<b>06 December</b>	<b>Dr. Babasaheb Ambedkar Mahaparinirwan Din.</b>
<b>10to22December.</b>	<b>Semester End Exam F.Y.B.Tech.</b>
	*Vacations as per directives and sanction by the Principal. STTP / FDP/Workshop/Conference to be arranged by the Departments in vacations.

- Last Date of submission of Exam forms: S.Y.B.Tech.& M.Tech. - 29 September & F.Y.B.Tech. -13 October.
- Dates may change as per the schedules of DTE and DBATU.