

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

**2016-2017**

**Submitted to**



**National Assessment and Accreditation Council  
(NAAC)**



**PACE INSTITUTE OF TECHNOLOGY & SCIENCES**

(Approved by AICTE, NEW DELHI & Govt. of Andhra Pradesh, Affiliated to JNTU., Kakinada)

College Address: NH-5, Near Valluramma Temple, Ongole, Prakasam Dist., Pin - 523272, A.P.

# AQAR for the Academic Year: 2016-2017

## Part – A

### I. Details of the Institution

1.1 Name of the Institution	PACE Institute of Technology & Sciences
1.2 Address Line 1	NH-5, Near Valluramma Temple
Address Line 2	Ongole, Andhra Pradesh - 523272
City/Town	Ongole
State	Andhra Pradesh
Pin Code	523272
Institution e-mail address	<a href="mailto:principal@pace.ac.in">principal@pace.ac.in</a>
Contact Nos.	+91-9703020577
Name of the Head of the Institution:	Dr. M. Sreenivasan
Tel. No. with STD Code:	08592 278314
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Name of the IQAC Co-Ordinator:	Dr. Kaizar Hossain

Mobile:

+91-7997992722

IQAC e-mail address:

[director.iqac@pace.ac.in](mailto:director.iqac@pace.ac.in)

1.3 NAAC Track ID (For ex. MHCOGN 18879):      APCOGN23502

1.4 Website Address:

[www.pace.ac.in](http://www.pace.ac.in)

Web-link of the AQAR:

<http://pace.ac.in/iqac.php>

For ex. <http://www.ladykeanecollege.edu.in/AQAR201213.doc>

#### 1.5 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 <sup>st</sup> Cycle	A	3.05	2016	2021
2	2 <sup>nd</sup> Cycle				
3	3 <sup>rd</sup> Cycle				
4	4 <sup>th</sup> Cycle				

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

10-06-2016

1.7 AQAR for the year (*for example 2010-11*)

2016-17

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

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

1.9 Institutional Status

Affiliated College  Yes

Regulatory Agency Approved Institution  Yes

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

Type of Institution Co-education

Rural

Financial Status Grant-in-aid  UGC 2(f)  UGC 12B

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

1.10 Type of Faculty/Programme

Arts  Science  Commerce  Law  PEI (Phys Edu)

TEI (Edu)  Engineering  Health Science  Management

Others (Specify)

1.11 Name of the Affiliating University (for the Colleges)

1.12 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	15
2.2 No. of Administrative/Technical staff	10
2.3 No. of Students	00
2.4 No. of Management Representatives	01
2.5 No. of Alumni	01
2.6 No. of any other stake holder and Community representatives	00
2.7 No. of Employers/ Industrialists	1
2.8 No. of other External Experts	00
2.9 Total No. of Members	28
2.10 No. of IQAC meetings held	4

2.11 No. of meetings with various stakeholders:	No.	4	Faculty	4
	Non-Teaching Staff	4	Students	4
	Alumni	4	Others	--

2.12 Has IQAC received any funding from UGC during the year? 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

TotalNos.  International  National  State  Institution Level

(ii) Themes

Awareness program on quality education

## 2.14 Significant Activities and Contributions made by IQAC

The IQAC conducted academic audit for all the departments and submitted the report to the Principal for taking suitable measures for the improvement. The IQAC also conducted seminars and brain storming sessions in the subject domain with the subject experts from premier research and academic institutes. IQAC encourages the research based work culture and recommends student centric core procedures.

## 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
1. Conduct Academic Audit for various departments of the Institute.	1. Head of the Institute (Principal) reviewed the audit reports and rewarded the staff.
2. Encouraging the faculty for the extensive use of online course material.	2. Most of the faculty used the online course material during the delivery of the course. Some of the faculty got certified these agencies for few courses.
3. Remedial classes conducted	3. Several students were benefited
4. Upgrade teachers knowledge based on advanced Research	4. Teachers used modern strategies for teaching i.e. Power Point Presentation. Some of the faculty members have submitted research proposal to DST.

\* Attach the Academic Calendar of the year as Annexure. (see Annexure i)

2.15 Whether the AQAR was placed in Statutory Body      Yes  No

Management       Syndicate       Any other body

Provide the details of the action taken

The AQAR was placed before Governing Body & IQAC advisory meetings for the approval. The Board has appreciated the efforts made by the IQAC.

## Part – B

### Criterion – I

#### I. 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	06	--	06	--
UG	07	--	07	--
PG Diploma	--	--	--	--
Advanced Diploma	--	--	--	--
Diploma	--	--	--	--
Certificate	--	--	--	--
Others	--	--	--	--
<b>Total</b>	13	--	13	--
Interdisciplinary	--	--	--	--
Innovative	---	--	--	--

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

(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	08
Trimester	00
Annual	00

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

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

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

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.  No

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	Asst. Professors	Associate Professors	Professors	Others
254	204	41	9	--

2.2 No. of permanent faculty with Ph.D.

14
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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
0	0	0	0	0	0	0	0	0	0

2.4 No. of Guest and Visiting faculty and Temporary faculty

00	00	00
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2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	07	09	00
Presented Papers	18	15	00
Resource Persons	00	03	00

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

- Induction programs for the freshers have to acclimatize them to the institute culture.
- FDP for the faculty to accustom them to various processes.
- Extensive use of online course material like: NPTEL etc., by faculty.
- Commencement of Research forum- a platform for researchers to brain storm on the contemporary issues.

2.7 Total No. of actual teaching days

during this academic year

178
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2.8 Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions)

Single valuation system – Evaluation outside campus
-----------------------------------------------------

2.9 No. of faculty members involved in Curriculum Restructuring / Revision/Syllabus Development as member of Board of Study/Faculty/Curriculum Development workshop

00	00	00
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2.10 Average percentage of attendance of students

85.04
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2.11 Course/Programme wise distribution of pass percentage:

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
B.Tech- Civil	137	56	30	00	00	62.77
B.Tech- EEE	60	22	17	00	00	65.00
B.Tech- ME	123	21	33	00	00	43.90
B.Tech- ECE	123	43	26	00	00	56.10
B.Tech- CSE	118	36	23	00	00	50.00
B.Tech- IT	33	12	09	00	00	63.64
B.Tech- AME	50	01	07	00	00	16.00
M.Tech- Structural Engg.	17	09	00	00	00	52.94
M.Tech- Power Electronic	12	01	03	00	00	33.33
M.Tech- Machine Design	07	00	00	00	00	00
M.Tech- VLSI & ES	12	03	01	00	00	33.33
M.Tech- CSE	18	02	01	00	00	16.67
MBA	125	25	19	00	00	35.77

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

Extensive effort has been put up by IQAC to ensure an environment to achieve excellence in all aspects of teaching and learning and also focused on improving the quality of education and evaluation. The IQAC academic audit is carried out by the Principal. This was done in various stages.

a). All the teaching staff members submitted semester plan for the conducting of theory and practical classes to their respective head of the departments.

b). Monthly reports are collected from the teaching staff where in teachers give information regarding coverage of syllabus during that particular month. In case where syllabus was not covered as per schedule, the teachers were accordingly advised.

c). At the end of the semester (during the internal audit) the internal auditors submit the monitoring sheets to the Principal who examines whether the entire syllabus has been completed as per the initial planning and appropriate steps are initiated to communicate the syllabus within the scheduled time.

d) And also the IQAC continuously monitors the quality of teaching learning process by way of conducting Academic staff Appraisal Process at the end of every academic year. The periodic reports submitted by the IQAC to the Institutional Heads and the review meetings conducted regularly helped the institute significantly to monitor the progress and to initiate the kind of measures that can be taken to improve the quality of teaching and learning process.

e) An online feedback mechanism is developed to collect the student feedback on faculty.

#### 2.13 Initiatives undertaken towards faculty development 11

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	00
UGC – Faculty Improvement Programme	00
HRD Programmes	00
Orientation Programmes	00
Faculty exchange Programme	00
Staff Training conducted by the University	00
Staff Training conducted by other Institutions	00
Summer / Winter schools, Workshops, etc.	06
Others	05

#### 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	25	00	25	00
Technical Staff	38	00	38	00

## Criterion – III

### 3. Research, Consultancy and Extension

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

- Sensitization programmes by experts for the benefit of researchers on the importance of impact factor and citation index.
- Orientation programme on writing technical papers/articles in journals.
- Provision of analytics of the publications from various databases to the Heads of the Institutes.
- FDP on research methodologies
- Research forum is organized on every fourth Saturday to reinforce the Research Culture.

#### 3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	NIL	04	NIL	NIL
Outlay in Rs. Lakhs	NIL	91,75,400	NIL	NIL

#### 3.3 Details regarding minor projects: No minor projects

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

#### 3.4 Details on research publications

	International	National	Others
Peer Review Journals	04	01	05
Non-Peer Review Journals	15	08	06
e-Journals	12	02	--
Conference proceedings	05	02	--

#### 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	2016	DST	63,29,800	15,50,000
Minor Projects				
Interdisciplinary Projects	2016	DST	28,45,600	15,82,000
Industry sponsored				
Projects sponsored by the University/ College	2016	PACE	56,800	56,800
Students research projects <i>(other than compulsory by the University)</i>	2016	PACE	1,25,000	1,25,000
Any other(Specify)				
Total			93,57,200	

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

ii) Without ISBN No.

3.8 No. of University Departments receiving funds from

UGC-SAP  CAS  DST-FIST   
DPE  DBT Scheme/funds

3.9 For colleges Autonomy  CPE  DBT Star Scheme   
INSPIRE  CE  Any Other (specify)

3.10 Revenue generated through consultancy

3.11 No. of conferences organized by the Institution

Level	International	National	State	University	College
Number	01	03	A.P.	--	PACE
Sponsoring agencies	--	IETE & SES	A.P.	--	PACE

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

3.13 No. of collaborations International  National  Any other

3.14 No. of linkages created during this year

3.15 Total budget for research for current year in lakhs :

From Funding agency  From Management of University/College   
 Total

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	00
	Granted	00
International	Applied	00
	Granted	00
Commercialized	Applied	00
	Granted	00

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
00	00	00	00	00	00	00

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

S.No	Date	Name Of The Event	No. Of Students Participated
1.	21-06-2016	Yoga Day Celebrations	150
2.	01/07/2016	National Doctor's Day	50
3.	23-07-2016	Blood Donation Camp	100
4.	29-07-2016	Vanam –Manam	150
5.	05/08/2016	Make In India Programme	150
6.	15/08/2016	Independence Day	500
7.	04/10/2016	Awareness Programme On Law And Order	200
8.	22/10/2016	Awareness Programme On Vanam –Manam	150
9.	28/10/2016	Awareness Programme On Breast Cancer	100
10.	1/12/2016	Awareness Programme On AIDS	100
11.	5/12/2016	Awareness Programme On Anti-Corruption	90
12.	11/12/2016	Awareness Programme On Disaster Management	90
13.	28/12/2016	Debate Competition On Demonetisation	60
14.	21/01/2017	Traffic Rules	60
15.	15/12/2016	Red Cross Society	200
16.	26/01/2017	Republic Day Celebration	500
17.	04/02/2017	Awareness Programme On Cancer Day Rally	150
18.	03/02/2017	Mega Blood Donation Camp	150

## 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	10.17 Cents	--	Srinivasa Edu. Society's	10.17 Cents
Class rooms	No. 63	--		63
Laboratories	No. 25	--		25
Seminar Halls	No. 01	--		01
No. of important equipments purchased ( $\geq$ 1-0 lakh) during the current year.	--	5,11,206	PACE	5,11,206
Value of the equipment purchased during the year (Rs. in Lakhs)	--	5,65,521		5,65,521
Others	--	5,30,000		5,30,000

#### 4.2 Computerization of administration and library

Library automated system

Institute with bar coding system

#### 4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	24542	6700000			24542	6700000
Reference Books	2974	900000			2974	900000
e-Books	800	**			800	**
Journals	58	200000			58	200000
e-Journals	700	26000			700	26000
Digital Database	11	16000			11	16000
CD & Videos	500	**			500	**
Others (specify)	**	**	**	**	**	**

Report as on 19.4.17

#### 4.4 Technology up gradation (overall)

	<b>Total Computers</b>	<b>Computer Labs</b>	<b>Internet</b>	<b>Browsing Centres</b>	<b>Computer Centres</b>	<b>Office</b>	<b>Departments</b>	<b>Others</b>
Existing	872	11	65mbps	1	1	2	2	2
Added	35	--	--	--	---	--	--	
Total	907	11	65mbps	1	1	2	2	2

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

##### Students Training: APSSDC

1. Mobile App development phase -III, from 2 /5/2017 to 21/5/2017. 35 students registered. (12 Apps, out of that 8 Mobile)
2. Web Development on IOT with Python from 8/5/2017 to 26/5/2017

##### Teachers Training: APSCHE

1. Teaching Training program by APSCHE- collaboration with British Council

Phase- I from 19 /6/2017 to 23/6/2017

Phase- II from 04/7/2017 to 08/7/2017

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

i) ICT	10, 60,025
ii) Campus Infrastructure and Facilities	2, 55,720
iii) Equipments	5, 65,521
iv) Others	5, 30,000
<b>Total:</b>	<b>24, 11,266</b>

## **Criterion – V**

### **5. Student Support and Progression**

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

- a) IQAC organized and delivered lectures from time to time to make the students aware of the changing global scenario.
- b) Students were given supporting assistance in seeking jobs opportunities not only local but also globally.
- c) IQAC has been encouraging the students to develop skills, competencies and values among students.
- d) At the beginning of an academic year, IQAC provides a format to the Heads of the Departments to collect the information regarding the support required to the students, to be undertaken throughout the year. This will help IQAC to know the working of each Department and will help to prepare an Action Plan of the Institution. Monitoring of the working of the Departments is being done through meeting of the IQAC which directs the future course of action.
- e) IQAC has been developing better internal communication between student and their respective departments.
- f) Encouraging eco-consciousness among students.
- g) Grievance Redressal Cell is working for students' support.

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

- Frequent observation
- Regular meetings and Monitoring
- Faculty involvement through Counselling System
- Regular feedback from students

The institutional heads track the progression of the students in academics throughout the year. The same is conveyed to the heads of departments in regular meetings for the follow up action. Head of the departments also identify the slow learners and design remedial classes to be conducted after the class hours by the faculty. Apart from these classes, expert lectures are regularly organized. The Counsellors periodically analyze the progress of the students in academic and extracurricular activities.

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
3053	397	00	00

(b) No. of students outside the state

39

(c) No. of international students

00

No	%
2267	65.7

Men

No	%
1183	34.29

Women

	Last Year						This Year					
	General	SC	ST	OB C	Physically Challenged	Total	General	SC	ST	OB C	Physically Challenged	Total
<b>UG</b>	1230	580	36	820	-	2666	1344	712	39	961	-	3053
<b>PG</b>	205	124	10	131	--	470	185	106	6	100	--	397

Demand ratio

Dropout %: - 0.65 (20 No)

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

a. The College regularly conducts Awareness programs such as GATE, MAT, CAT, IELTS, TOEFL, and GRE for the students by the clairvoyant personalities.

b. The College has set up an exclusive Career Guidance Cell to give guidance and notifying the students about Competitive exams & Entrance exams.

c. Conducting coaching classes for the aspirants of Civil Services through Centre for Gandhian Studies.

No. of students beneficiaries

05

5.5 No. of students qualified in these examinations

NET

00

SET/SLET

00

GATE

05

CAT

00

IAS/IPS etc

00

State PSC

00

UPSC

00

Others

00

5.6 Details of student counseling and career guidance

Chief Coordinator took care of counseling students

Mode - Telephonic and Personal Meeting

Area - Motivation for better performance

- ✓ Encouragement – Encouraging students and helping them to reach their next level goals.

No. of students benefitted

122
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#### 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
22	580	453	06

#### 5.8 Details of gender sensitization programmes:

- a) Arranged some internal awareness programmes by committee co-coordinators of respective Departments on Gender sensitization dated on 22/07/2016.
- b) Organized an external awareness program on “Gender Equality” by inviting the Resource Person Ms. N.Sudhamaruthi, Dist. Women Welfare & Development Officer dated on 22/08/016.
- c) Organized an External awareness program on “Women as Entrepreneur” by inviting the Resource Person Sri K.Ramesh , SBI Manager, Ongole, dated on 09/09/2016.
- d) Our students Participated in National Women’s Parliament conducted by Andhra Pradesh Legislative Assembly dated from 10<sup>th</sup> to 12<sup>th</sup> February, 2017.
- e) Organized programmes on “Women Motivation and Achievement”, ”Unleash your Potential”, ”Be Bold for a Change”, ”Importance of Girls’ Education” by inviting the distant Resource Persons.
- f) Dr.V.Nagalakshmi, ChairWomen-IWN , Andhra Pradesh, Dr. D.Hima Bindu, C.E.O of Anjani Super Speciality Hospital, Ongole, Ms. B. Leela Padmalatha, National Content Team member and Ms. K.Rama Rayudu, Vice ChairWoman-IWN Andhra Pradesh dated on 8/03/2017.

## 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

	<b>Number of students</b>	<b>Amount</b>
Financial support from institution	00	00
Financial support from government	00	00
Financial support from other sources	00	00
Number of students who received International/ National recognitions	00	00

### 5.11 Student organised / initiatives

Fairs : State/ University level  National level  International level

Exhibition: State/ University level  National level  International level

5.12 No. of social initiatives undertaken by the students

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

## **Criterion – VI**

### **6. Governance, Leadership and Management**

6.1 State the Vision and Mission of the Institution

**Vision:**

Our vision is to impart futuristic technical education transforming the students technically superior, ethically strong, self disciplined to serve the nation as a valuable resource.

**Mission:**

Our mission is to impart quality education by providing outstanding technical resources, cutting edge technologies, professional skills and special training by experts from leading industry and institution and encourage the students to participate in the conferences, seminars, workshops and social activities through NSS, IETE, etc. The institute is committed to encourage creativity, critical thinking, and exposure to industry and to create self discipline, sensitivity towards society and respect for the environment.

6.2 Does the Institution have a management Information System?

Yes. The Institute has used IMS software in-house to cater to the needs of the institute in conducting various activities.

The main components of the IMS Software consist of:

- a.) Faculty Information
- b.) Student Information
- c.) Department Information
- d.) Assets Information, etc.

All the departments have an IQAC representative responsible for data updating.

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

6.3.1 Curriculum Development:

- a. Senior faculty has been deputed for training on various aspects of curriculum design and development and their expertise has been used in the design and development of the curriculum.

- b. The Department Advisory Committee (DAC) is constituted with members from industry, faculty and from University (JNTU-K).
- c. Regular interaction meetings are arranged by inviting eminent academicians from various institutes for the enrichment of the curriculum.

#### 6.3.2 Teaching and Learning

- a. Academic Monitoring committees to improve the quality of Teaching.
- b. Use of e-learning resources in teaching/learning

#### 6.3.3 Examination and Evaluation

All components in any programme of study are evaluated continuously through internal evaluation and an external evaluation. Internal evaluation is done throughout semester/year in the form of mid examinations and assignments. External evaluation is done at the end of semester/ year in the form of end examination by the University JNTU-K.

#### 6.3.4 Research and Development

- a. Motivating the faculty to apply both for major and minor research projects by sensitizing them regularly.
- b. Organizing lectures from various experts on the contemporary subjects.
- c. Set up a separate Research and Development to encourage inter disciplinary work.

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

- 1) Creation of Video Conferencing facility to provide access to the experts.
- 2) Strengthened the in-house Computer Service Centre for providing quick services to the users.
- 3) The campus is Wi-Fi enabled. All the buildings are under the electronic surveillance.
- 4) The Institute facilitated mobile SIM for administrative communication among various departments over the internet backbone.

### 6.3.6 Human Resource Management

The faculties are sponsored to attend various workshops/ conferences/ seminars to enhance their knowledge and skills. The institute regularly organizes Conferences, Workshops and Seminars by inviting eminent personalities from academia and industry on various fields. The Institute gives various awards viz., Best Teacher Award and Best Research Award with financial benefit to motivate the faculty.

### 6.3.7 Faculty and Staff Recruitment

The Institute regularly recruits faculty and staff after a thorough review of the requirement for both teaching and non-teaching positions. The Institute follows the guidelines issued by AICTE from time to time for specifying the minimum qualifications, constitution of selection committees, etc. The faculties are selected strictly on the basis of merit.

### 6.3.8 Industry Interaction / Collaboration

The Institute is having collaboration with many leading industries in and around Andhra Pradesh. It has signed nearly 22 MOUs with various research organizations and industrial establishments. The Institute has several interdisciplinary and multi-disciplinary research projects. The directorate of IIR and collaboration liaisons with the industry/corporate to identify their needs and connects the faculty for offering solutions.

### 6.3.9 Admission of Students

The Institute has an open policy on admission process as per EAMCET for B.Tech. and PGECET for MBA. Admissions to all the programmes offered by the University (JNTU-K) are made on the basis of merit obtained in the entrance examination. For admission to management programmes, however, Group Discussion and personal interview are also given weightage in assessing the merit and deciding the rank. A separate wing viz., Directorate of Admissions has been set up for conducting various entrance tests for different programmes and organizing the counselling process smoothly. The entire admission process ensures transparency. Rule of Reservation is followed in admissions for SC, ST & physically challenged students as per the Government of Andhra Pradesh.

6.4 Welfare schemes for

Teaching	00
Non teaching	00
Students	00

6.5 Total corpus fund generated

1, 50,000

6.6 Whether annual financial audit has been done: **Yes**

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	No	No	Yes	IQAC
Administrative	No	No	Yes	Principal

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?

Not Applicable

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

The Institute regularly organizes Alumni meets department wise during November/December and Alumni students with their families meet together to share their experiences and ideas for the growth of the institution.

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

The Institute regularly organizes parent -teacher meet to know the requirements of the students and to address their grievances. Parents share their views for the growth of the Institute in the form of suggestions.

#### 6.13 Development programmes for support staff

The Institute deutes the supporting staff to skill development programmes organized by the experts. Every year the Institute honours the Best Supporting Staff by giving them an award and cash prize.

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

PACE Institute is well known for its ambient environment with flourishing green lawns and trees. Green audit is conducted every year to take suitable measures to maintain the campus in an eco-friendly manner.

The Institute has a separate centre for Bio-Energy (CBE) which deals to produce Bio-diesel.

## 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.

***Incubation Centre:*** The Institute has set up an Incubation Centre to foster entrepreneurial skills among students. The Centres extend support by providing necessary facilities, mentorship, investment support, and a platform to interact with experts from industry. Around **5** start-ups in the areas of manufacturing, web-designing, mobile apps, etc., had their origin in these incubation centres.

***Research Forum:*** The Institute has set up a Research Forum to provide a platform for all the researchers to get exposed to the research work carried out in the Institute. The Forum provides an opportunity to learn the skills and methodologies of applied and/or basic research while exploring an area of personal interest. It helps to create Research Proposals, conduct Research, prepare Professional Research Papers, and present their findings.

7.2 At the beginning of the year IQAC planned the objectives for the current year (2016-17). It provides the Action Taken Report (ATR) based on the plan of action decided upon and then the progress was monitored through Action Taken Report monthly from all concerned persons. In its' meeting these Action Taken Reports were discussed and remedial measures were taken appropriately whenever required.

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

**Best Practice: -i**

Title of the practice:

Online certification course for faculty and Students to improve the quality of teaching learning process

**Best Practice: -ii**

Title of the practice:

Outcome Based Education (OBE) System in Engineering Studies.

**Details in annexure- ii &iii**

**7.4 Contribution to environmental awareness / protection**

- Plantation/Greening
- Energy Conservation
- Use of Renewable Energy
- Water Harvesting
- Efforts for Carbon Neutrality
- Hazardous Waste Management and e-Waste Management

**Plantation/Greening**

Institute has taken several measures for plantation inside the college campus and 60% of the open place is covered with greenery. The NSS team planted many saplings around the campus and conducted awareness programs on plantation.

**Energy conservation**

- Students and Staff are instructed to switch off the fans and lights when ever not required.
- Providing good ventilation and sun light System in to the class by placing large windows.
- Using LED lamps and bulbs in hostels to save electricity.

**Use of Renewable Energy**

- To save electrical power we use solar panels for steam cooking in the hostels.
- Solar panels are used inside the campus for producing steam for cooking and for hot water in hostels.

### **Water Harvesting**

- To increase the ground water level, the rain water is led into the pond located in the campus and to improve water level.

### **Efforts for Carbon Neutrality**

- Other vehicles into the campus are restricted to reduce the Carbon content.
- Conducting awareness programs on Waste Management.
- Staff and students park their vehicles in the allotted parking place at the college gate.

### **Hazardous Waste Management and e-Waste Management**

- The computer accessories are disposed through outside agencies.
- Awareness programmes are initiated on Waste Management.
- Maintaining garbage bins at the prominent places for wastage.

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**

- Well qualified and experienced faculty.
- Fully equipped Laboratories and workshops
- State-of-the-Art Computing facilities
- Well equipped Computer Centre with CLOUD as well as BIGDATA servers
- Healthy student- teacher ratio (STR)
- Air-Conditioned seminar Halls, fully equipped with state-of-the-art Audio-Visual Devices.
- High speed Internet facility for students and staffs.
- Vibrant Research Environment and Proactive Management

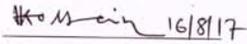
## Weaknesses

- Professional skills need to be further improved among students.
- Communication Skills among rural students need improvement.
- Need to Strengthen Research and Development

### 8. Plans of institution for next year

- Module based evaluation Test (MCQ)
- Rubric based assessment of learning outcomes/ graduate attributes
- Competence mapping and skill enhancement initiatives
- Mentoring to be strengthened through use of appropriate tools
- Impart social entrepreneurial skills to social work students
- To take up faculty development programme
- Continuous employability enhancement programme (Modular)

Name : Dr. Kaizar Hossain

 16/8/17

Signature of the Coordinator, IQAC

Name: Dr. M. Sreenivasan

 16/8/17

Signature of the Chairperson, IQAC



\*\*\*

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**Directorate of Academics & Planning**  
**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA**  
**KAKINADA-533003, Andhra Pradesh, INDIA**

Lr. No. JNTUK/DAP/Aca.Cal/B.Tech/I Year/2016-17

Date: 12-05-2016

**Prof. K. Padma Raju**  
B.Tech, M.Tech, Ph.D.  
Professor of Electronics and Communication Engineering &  
Director, Academics & Planning

To  
The Principals of Affiliated Colleges,  
JNTUK, Kakinada

**ACADEMIC CALENDAR FOR B.TECH 2016 BATCH**

<b>B.TECH I YEAR I Semester</b>			
Description	From	To	Weeks
Commencement of Class Work	27-06-2016	02-07-2016	Orientation
I Unit of Instructions	04-07-2016	27-08-2016	8W
I Mid Examinations	29-08-2016	03-09-2016	1W
II Unit of Instruction	05-09-2016	29-10-2016	8W
II Mid Examinations	31-10-2016	05-11-2016	1W
Preparation & Practicals	07-11-2016	12-11-2016	1W
End Examinations	14-11-2016	26-11-2016	2W
Commencement of Class Work	12-12-2016		
<b>B.TECH I YEAR II Semester</b>			
Commencement of Class Work	12-12-2016		
I Unit of Instructions	12-12-2016	04-02-2017	8W
I Mid Examinations	06-02-2017	11-02-2017	1W
II Unit of Instruction	13-02-2017	08-04-2017	8W
II Mid Examinations	10-04-2017	15-04-2017	1W
Preparation & Practicals	17-04-2017	22-04-2017	1W
End Examinations	24-04-2017	06-05-2017	2W
Commence of Class work	12-06-2017		

  
Director Academics and Planning  
JNTUK Kakinada

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**ACADEMIC CALENDAR FOR B.TECH 2015 BATCH**

<b>B.TECH II YEAR I Semester</b>			
<b>Description</b>	<b>From</b>	<b>To</b>	<b>Weeks</b>
<b>Commencement of Class Work</b>	<b>13-06-2016</b>		
I Unit of Instructions	13-06-2016	06-08-2016	8W
I Mid Examinations	08-08-2016	13-08-2016	1W
II Unit of Instruction	16-08-2016	08-10-2016	8W
II Mid Examinations	10-10-2016	15-10-2016	1W
Preparation & Practicals	17-10-2016	22-10-2016	1W
End Examinations	24-10-2016	05-11-2016	2W
<b>Commencement of Class Work</b>	<b>21-11-2016</b>		
<b>B.TECH II YEAR II Semester</b>			
<b>Commencement of Class Work</b>	<b>21-11-2016</b>		
I Unit of Instructions	21-11-2016	14-01-2017	8W
I Mid Examinations	16-01-2017	21-01-2017	1W
II Unit of Instruction	23-01-2017	18-03-2017	8W
II Mid Examinations	20-03-2017	25-03-2017	1W
Preparation & Practicals	27-03-2017	01-04-2017	1W
End Examinations	03-04-2017	15-04-2017	2W
<b>Commencement of Class Work</b>	<b>12-06-2017</b>		

  
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**ACADEMIC CALENDAR FOR B.TECH 2014 BATCH**

<b>B.TECH III YEAR I Semester</b>			
Description	From	To	Weeks
Commencement of Class Work	13-06-2016		
I Unit of Instructions	13-06-2016	06-08-2016	8W
I Mid Examinations	08-08-2016	13-08-2016	1W
II Unit of Instruction	16-08-2016	08-10-2016	8W
II Mid Examinations	10-10-2016	15-10-2016	1W
Preparation & Practicals	17-10-2016	22-10-2016	1W
End Examinations	24-10-2016	05-11-2016	2W
Commencement of Class Work	21-11-2016		
<b>B.TECH III YEAR II Semester</b>			
Commencement of Class Work	21-11-2016		
I Unit of Instructions	21-11-2016	14-01-2017	8W
I Mid Examinations	16-01-2017	21-01-2017	1W
II Unit of Instruction	23-01-2017	18-03-2017	8W
II Mid Examinations	20-03-2017	25-03-2017	1W
Preparation & Practicals	27-03-2017	01-04-2017	1W
End Examinations	03-04-2017	15-04-2017	2W
Commencement of Class Work	19-06-2017		

  
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Date. 12-05-2016

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**ACADEMIC CALENDAR FOR B.TECH 2013 BATCH**

<b>B.TECH IV YEAR I Semester</b>			
Description	From	To	Weeks
<b>Commencement of Class Work</b>	<b>27-06-2016</b>		
I Unit of Instructions	27-06-2016	20-08-2016	8W
I Mid Examinations	22-08-2016	27-08-2016	1W
II Unit of Instruction	29-08-2016	22-10-2016	8W
II Mid Examinations	24-10-2016	29-10-2016	1W
Preparation & Practicals	31-10-2016	05-11-2016	1W
End Examinations	07-11-2016	19-11-2016	2W
<b>Commencement of Class Work</b>	<b>05-12-2016</b>		
<b>B.TECH IV YEAR II Semester</b>			
<b>Commencement of Class Work</b>	<b>05-12-2016</b>		
I Unit of Instructions	05-12-2016	28-01-2017	8W
I Mid Examinations	30-01-2017	04-02-2017	1W
II Unit of Instruction	06-02-2017	01-04-2017	8W
II Mid Examinations	03-04-2017	08-04-2017	1W
Preparation & Practicals	10-04-2017	15-04-2017	1W
End Examinations	17-04-2017	29-04-2017	2W

  
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**Best Practice: -1**

**1. Title of the Practice:**

**Online certification course for Faculty and Students to improve the quality of Teaching Learning Process.**

**2. The context that required the initiation of the practice (100 – 120 words)**

Massive Open Online Course (MOOC) is essentially a process of Teaching Pre-recorded Lectures, Resource Video Materials, Lecture Notes, Assignments and Quizzes.

They are usually online and provide the user for Self-Assessment at regular intervals during learning process. The learning involves the simultaneous participation of teachers and a large number of students.

It is similar to a classroom with wide use of the Internet. This methodology is well suited to the current generation users of Mobile-Twitter-Facebook-YouTube etc.

**3. Objectives of the practice (50 – 60 words)**

The primary objectives of this practice are:

- a) Make high quality learning material available to students, through which they can improve their employability.
- b) NPTEL (National Programme on Technology Enhanced Learning – A joint venture of IITs and IISC) Web Courses and Video Courses are being used by staff and students to enhance Teaching Learning Process.
- c) To provide an opportunity to students and faculty to get Certificate from IITs.

#### **4. The Practice (250 – 300 words)**

NPTEL Local Chapter is established in the college. Through the local chapter we encourage the students and faculty to enroll for the NPTEL Online Courses every semester. Mentoring system is in practice for guiding the students in enrollment, course access, and timely submission of assignments to end exam. The local chapter supports the students to avail 50% exam fee waiver as scholarship from IIT Madras.

#### **5. Obstacles faced if any and strategies adopted to overcome them (150 – 200 words)**

Time Management and Self-Motivation are the difficult tasks for e-Learners.

The mentors motivate the students to follow the new educational trends and also help them to meet the deadlines of the courses.

#### **6. Impact of the practice (100 – 120 words)**

Faculty members are using these contents as part of their lesson plan to teach University Curriculum to students. They are using NPTEL not only to prepare for technical jobs and competitive exams, but also as a platform for constant learning and updating knowledge for the ever-changing environment and market realities.

#### **7. Resources required**

Desktop / Laptop / Smart Phone with headsets

Internet facility

#### **8. About the Institution:**

PACE Institute of Technology & Sciences, Ongole has been established with a vision and a mission to develop it as an incubator of innovation and knowledge creation in the field of Science and Technology. PACE was established under Srinivasa Educational Society's in 2007 at Valluru Village, Ongole, in the academic year 2008-09.

PACE is a premiere Technology Campus that has over 8 years of glorious history in motivating the students to develop questing minds and creative envisioning and chase their aspirations, with a sense of purpose in life. Part of multi-million dollar PACE group, our college addresses a broad range of interests and industries. We attract a diverse group of exceptionally talented young students from across the nation and around the world to educate them from scholarship to leadership. Considered as an Ivy league Institute in Andhra Pradesh, India, we focus on Education, Exploration, Entrepreneurship and Employment. These 4Es form the foundation pillars of all our activities. PACE students excel not only in education but also in many research exploration activities. We have created an environment that ignites curiosity and provide students with tools for Research. PACE is famous for providing means for every aspiration.

**Best Practice: -2**

**1. Title of the practice:**

**Outcome Based Education (OBE) system in Engineering Studies**

**2. The context that required the initiation of the practice (100 – 120 words):**

Global demand for qualified and qualitative engineering human resource is increasing day by day and the learning process has become dynamic in the current century. A technically strong Knowledge based society is very much needed for a fast developing nation like India. To meet the challenges and demand for the present and future it is the need of the hour to groom the engineering students to meet the demand and expectation of the country and world. Keeping this in mind and following the norms of the NBA our institution is practicing the best teaching and learning methods in the campus such that the outgoing student from the institute is a global asset and proven professional to contribute his/her best for the National building by availing all the facilities and infrastructure for his/her capacity building.

**3. Objectives of the practice (50 – 60 words):**

- Imparting best and qualitative engineering education to the rural students who are under privileged to have all the learning facilities of their urban peers.
- To prepare the Engineering Graduates to meet the global demands in technology implementation and innovation through Research.
- Imparting skill set to the Engineering Graduates to enhance their employment skills.
- Improve the Communication Skills to have a strong role in the Knowledge Society.

**4. The Practice (250 – 300 words):**

The institute is having well qualified faculty and state-of-the-art workshops and Engineering laboratories to impart the best teaching. The faculties are trained to carry

out Outcome Based Education (OBE) based on teaching methodology where teaching learning practices are implemented. The lectures are designed to provide more interactive session of learning with 50% Black Board Teaching, 25% PPTs, 15% student interaction and 10% assignments. All the faculty members are encouraged to appear for Online Certification Courses in their respective teaching subjects conducted by NPTEL and Pedagogy Principles in OBE based education system. Institute is one among the best NPTEL local chapters in the state (Ranked as 5th best centre in A.P. with AA grade and 44<sup>th</sup> all India rank). Apart from subject teaching students are encouraged to do certification courses through NPTEL on various topics which provide knowledge and information beyond the content of the syllabus. A separate R&D Cell is provided in the college to encourage students and faculty to carryout Research work and Publish papers in various Journals. The institute has a strong link with the industry in and around the institute and in neighboring States to send students for necessary Industry Interaction Internship. Our institute is approaching various Foreign Universities to have student exchange program. To this a separate Career Guidance Cell (CGC) is established in the college to motivate the students in this direction. CGC Cell also provides GATE/GRE/GMAT etc., coaching information to the students. As the institute is established to provide higher education facilities to rural students a separate Training Cell is established in the college to provide Communication Skills in English and Soft Skills to the students. All the 21st century Modern Teaching Methods and ICT innovative teaching learning practices are followed to make a rural student to grow as a responsible technical Human Resource for the nation with holistic growth.

**5. Obstacles faced if any and strategies adopted to overcome them (150 – 200 words):**

As the students are admitted with the rural back ground and completed their Intermediate Education in local medium of instruction, there is a large resistance is expressed by the students to speak in English and understand the English Medium of Instruction. Separate LSRW Training classes are organized to remove the fear from the students to speak, understand and communicate in English.

As the institute is in the rural area, eminent teachers from various institutions and industrialists especially from software industry have not shown much interest to visit the institute to participate in Seminars and Guest Lectures. We have provided exclusive transport facility and other facilities for their visits to our college to share their knowledge and expertise with the students.

Digital communications like Internet facilities were not available in the early stages. Hence, Management has taken a separate 65MB leased Internet connectivity exclusively for the campus to have World connectivity through internet which will be available to all the members of the Institutions.

### **Gap in the Technical updates:**

To have technical connectivity in the area of Technology and Management our Institution has become a institutional member for various professional bodies like IE, ISTE, CII, IEWB, ISLE, IETE and Student Chapters are also established to have Industry-Institute visits to our campus by the experts to share their experience and their addressing on real time world problems in the area of technology.

### **6. Impact of the practice (100 – 120 words):**

By implementing the above mentioned teaching-learning practices and strictly adhering to the Vision and Mission of the institution and identifying the gaps in implementation level and minimizing the gaps the institution has grown to the level of obtaining the Grade of “A” by NAAC with a period of 8 years from the date of establishment. Due to this grading, the confidence in the stake holders has improved enormously and the student confidence level has also grown and the same is reflected in the University Examinations to increase in the pass percentage. The number of Placements has also increased as more and more employers are visiting the campus to recruit our students.

### **7. Resources required:**

- Funds for purchasing Modern Laboratory Equipment to carryout Advanced Research in various branches of Engineering.
- Funds to upgrade the Digital Systems to have well equipped digital class rooms.

- Increase in the allocation of funds for the faculty and students to conduct and participate in various International and National academic events.

## **8. About the Institution:**

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