

PACE INSTITUTE OF TECHNOLOGY AND SCIENCES

**Report on
Performance of Institution for the Academic Year 2019-2020
by External Peer Team of IQAC**

Submitted to



ज्ञान-विज्ञान विमुक्तये

University Grants Commission (UGC)
Bahadur Shah Zafar Marg,
New Delhi – 110002

PACE Institute of Technology and Sciences

(Autonomous)
Ongole – 523272, Andhra Pradesh

IQAC-EXTERNAL PEER TEAM REPORT ON
PERFORMANCE OF THE INSTITUTION - ACADEMIC YEAR 2019 -20

Members of External Peer Team: Dr A Bhaskar

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Dr G Suresh

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| 1. Name of the College | : PACE Institute of Technology & Sciences,
NH-16, Ongole – 523272 |
| 2. Name of the Principal | : Dr M. Sreenivasan |
| 3. Mobile/ Email | : 9703020577

principal@pace.ac.in

www.pace.ac.in |
| 4. Year of Establishment | : 2008 |
| 5. Whether private or government or University maintained | : Private / Self Financing |

6. Autonomous Status

: UGC granted Autonomous Status in the year 2018

7. Name of the Affiliating University: Jawaharlal Nehru Technological University Kakinada, Kakinada

8. Courses Offered

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UG Courses: B.Tech

S. No	Program Name	Sanctioned Intake
1	Civil Engineering	180
2	Electrical & Electronics Engineering	120
3	Mechanical Engineering	120
4	Electronics & Communication Engineering	180
5	Computer Science & Engineering	180
6	Information Technology	60
7	Automobile Engineering	60
8	CSIT	60

PG Courses: M.Tech, MBA

S. No	Program Name	Sanctioned Intake
1	Structural Engineering	18
2	Power Electronics & Control	18
3	Machine Design	18
4	VLSI and Embedded Systems Design	18
5	Computer Science & Engineering	18
6	MBA	180

9. Students on Rolls:

Year of study	B.Tech	M.Tech	M.B.A.	Total
1 st Year	960	75	168	1203
2 nd Year	955	73	127	1155
3 rd Year	758	-	-	758
4 th Year	768	-	-	768
Total	3441	148	295	3884

10. Faculty Strength:

Department	Professor	Associate Professor	Assistant Professor	Total
CIVIL	0	1	32	33
EEE	1	4	10	15
MECH	3	7	18	28
ECE	1	7	25	33
CSE	1	5	19	25
IT	1	2	8	11
AME	0	0	10	10
H&S	3	3	35	41
MBA	1	2	18	21
Total	11	31	175	217

11. Examination Results

Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final semester/year examination	Pass Percentage
B.Tech	Civil Engineering	182	101	55.49
B.Tech	Electrical & Electronics Engineering	63	32	50.79
B.Tech	Mechanical Engineering	114	32	28.07
B.Tech	Electronics &	188	126	67.02

	Communication Engineering			
B.Tech	Computer Science & Engineering	107	67	62.61
B.Tech	Information Technology	52	22	42.30
B.Tech	Automobile Engineering	54	13	24.07
M.Tech	-	73	37	50.68
MBA	-	120	106	88.33

PACE Institute of Technology & Sciences, Ongole, Andhra Pradesh was established in the year of 2008 sponsored by Srinivasa Educational Society. The college is recognized by AICTE and affiliated to JNTUK, Kakinada. UGC granted autonomous status to the college in the year 2018 and extended up to 2028.

PACE ITS has a well-defined Management Information System (MIS) are implemented for monitor the academic and nonacademic activities like academic performance, attendance of students and staffs are recorded and also effectively used e-communication and information system between staffs, students stakeholders for continues improvements of Teaching Learning Process (TLP) and follow-up action. The Academic Performance of students is monitored and measured periodically through Attendance, Assignments, tutorials and internal assessments through e-Cap as a part of the MIS. The performance of academically weaker students is monitored and given guidance and remedial action them improve their performance. The other part of the MIS is e-Asset mainly focused to assess the total assets and status of laboratory Equipment/machinery /Furniture /Computers extra.

The involvement of leadership is achieved through well defined organizational structure consistent with UGC and AICTE norms. Faculty

plays a proactive role in the academic and administrative activities of the institution.

The Internal Quality Assurance Cell (IQAC) of PACE Institute of Technology & Sciences was established on 10th June, 2016. From the date of inception, the IQAC is making continuous efforts to maintain quality education as well as taken up various quality initiatives for the overall development of the institution. Some of the key parameters with respect to the performance of the institution under various heads for the academic year 2019 – 2020 are as follows:

CURRICULAR ASPECTS:

- Syllabus revision was made in all Engineering UG programs during the academic year 2019-20
- Various courses are introduced during 2019 – 20 in all UG programmes for the benefit of students with respect to employability / entrepreneurship / skill development.
- Various value-added courses imparting transferable and life skills are conducted for the benefit of students.
- The institutional data was submitted to AISHE (All India Survey on Higher Education), Department of Higher Education, Ministry of Education, Government of India for the academic year 2019 – 2020.
- About 920 students are sent for the Field projects/Internships for hands on experience during the academic year 2019-2020.
- One new programme (Computer Science and Information Technology) was introduced under UG programme during the academic year 2019-2020.
- All the departments of institute collecting feedback on curriculum aspects from students, teachers, employers, alumni and parents through course end survey, student exit survey and is being analyzed and utilized for the overall development of the institution.

TEACHING – LEARNING AND EVALUATION:

- 1203 students are admitted against a sanctioned intake of 1344 during the year. The institution is presently having 72 ICT classrooms and 8 Smart Classrooms for the benefit of students.
- The institution strictly follows the academic and activity calendar prepared at the beginning of the academic year without any deviation. Program outcomes, program specific outcomes and course outcomes for all the programs offered by the institution are stated and displayed in website of the institution.
- Student Satisfaction Survey (SSS) on overall institutional performance displayed in website of the institution.

Engagement of students during COVID-19 lockdown:

- The Pending syllabus for all semesters of UG & PG for the academic year 2019-20 was completed by online platforms during lock down. While midterm examinations & Projects for the above programs were conducted through Moodle LMS platform as per the guidelines of the UGC, AICTE & JNTUK. While the Semester end examinations for the academic year 2019-20 were conducted offline.
- The institution utilized the lockdown period effectively in engaging both the faculty and students for their value addition through “Coursera” online platform.

RESEARCH, INNOVATIONS AND EXTENSION:

- R&D projects were sanctioned by nongovernment agencies to various departments of the institution.
- Established CISCO Network Academy, Codetantra, Autodesk COE on Design, Spoken Tutorial Resource Centre by IITB and Texas Instruments funded IOT Lab.
- NAAC extended accreditation till 2023, AICTE extended approval for 5 Years (till A.Y: 2023-2024).
- National Level 3rd Place in CISCO Learnathon Championship.

- One team received the innovation title under the innovative project category.
- Sri K Naresh, Assistant Professor, Department of EEE received award from Institute of scholars as a Best teacher award.
- Smt T. Maryjones, Associated Professor, Department of MBA received best paper award from IASET in Finance.
- Institution Innovation Council (IIC) is established under the aegis of MHRD and the institution achieved 3.5 star rating for the activities conducted regarding to the innovations, IPRs, Startups and Entrepreneurship.
- 16 Patents are filed and published during the year 2019-2020.
- An amount of Rs. 5,13,000/- was generated through Consultancy during the year 2019-2020.
- Institution had MoUs signed with Industries, Corporate houses during the year 2019-2020.

INFRASTRUCTURE AND LEARNING RESOURCES:

- An amount of Rs. 277.54 Lakhs was utilized for infrastructure development during the year.
- An amount of Rs.61.52 Lakhs was utilized for maintenance of academic facilities and an amount of Rs.402.32 Lakhs was utilized for maintenance of physical facilities during the year.
- The institution library is fully automated with upgraded LMS software "ECAP" during the year 2019-2020.
- Bandwidth of Internet connection available in the institution is enhanced to 215 MBPS/GBPS.

STUDENT SUPPORT AND PROGRESSION:

- Institution organizes various capability enhancement and development schemes for the benefit of students as given below.

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Skill Development Training on Aptitude Skills	14/08/2019	70	Training Dept. of PACEITS
PLM	08/12/2019	18	APSSDC
How to Improve Leadership Skills	08/08/2019	198	Mr.V.S. Bharadwaja, PDP Trainer JCI
Mentoring Activity	10/07/2019	190	Mentors of CSE Department
Crt Training	17/02/2020	67	Training Dept. of PACEITS
How to Improve Communication Skills	08/08/2019	210	Mr. Vemula Chandrasekhar CA PDP Trainer JCI
Study Skills & Critical thinking	17/09/2019	186	Mrs. Suvarna Sarma
Two days IELTS Training	27/11/2019 28/11/2019	112	Mr. P.Job Jawahar
Enhancing Communication skills	25/02/2020 26/02/2020	134	Sri R.O.L.Sarma Sri Ramakrishna Math
Google Android Development	03/09/2020	60	APSSDC
Sales Force ADX201	12/02/2019	70	APSSDC
Training on Meditation	19/01/2020	350	Aravinda ashramam
Enhancing Communication skills	25/02/2020	134	Sri R.O.L.Sarma Sri Ramakrishna Math
Regular Student Counseling	Every day	346	Mrs. T.Sravanthi Psychologist and career counsellor
Study Skills & Critical thinking	17/09/2019	186	Mrs. Suvarna Sarma, Social Entrepreneur
Two days IELTS Training	27/11/2019	112	Mr. P.Job Jawahar

Mentoring Activity	10/06/2019	163	Mentors of PACE ITS AME Dept. all faculties
Remedial coaching	21/10/2019	26	Subject Faculties of PACE ITS AME Dept.
Remedial Coaching	10/03/2019	40	Subject Faculties Of PACE ITS
Web Application Development	20/11/2019	50	Training Dept. of PACEITS
Skill Development Training on Aptitude Skills	29/10/2019	75	Training Dept. of PACEITS
Infyqt Training	27/01/2020	40	Training Dept. of PACEITS
Mentoring Activity	10/06/2019	355	Mentors of PACE ITS MECH Dept. all faculties
Remedial coaching	21/10/2019	70	Subject Faculties of PACE ITS MECH Dept.
Soft Skill Development	29/08/2019	422	Placement Cell, Pace ITs
Language Lab	Continuous	960	English Department, Pace ITs
Bridge Course	01/08/2019	150	Math's Department
Personal Counseling	Continuous	50	Career Guidance Cell, Pace ITs
Mentoring	Continuous	960	Class Teachers
Mentoring Activity	10/07/2019	170	Mentors of IT Department

- 14 students are passed in the competitive examinations and 322 students are placed.
- 122 students are benefitted with an amount of Rs 24,40,000 through the AICTE Pragathi scholarships.
- 94 students are benefitted with an amount of Rs 45,12,000 through the ONGC scholarships, 1 student is benefitted with an amount of Rs 50,000 through the Marubeni scholarship, 2 student are benefitted with an amount of Rs 40,000 through the Sitaram

Jindal scholarship, 1 student is benefitted with an amount of Rs 20,000 through the Prathibha award, 1 student is benefitted with an amount of Rs 26,500 through the National minority scholarship and 1 student is benefitted with an amount of Rs 35,000 through the STFC scholarship.

- N V Subramanyam, 3rd Year CSE received gold medal in University level power lifting (83 kgs) and participated in All India Inter University power lifting championship.
- G Saikrishna, 1st Year MBA received gold medal in University level power lifting (105 kgs) and participated in All India Inter University power lifting championship.
- SK Neelima, 2nd year B.Tech, EEE received gold medal for shotput & discus throw in Andhra Pradesh Athletic Association and participated in All India Inter University (Men & Women Tournament).
- G. Deepika, 1st Year, B.Tech, EEE participated in JNTUK Taekwondo selection trails and selected all India inter university Taekwondo championship.
- K Ramesh, 1st Year, B.Tech, Mechanical participated in JNTUK Hockey selection trails and selected all India inter university Hockey tournament.
- D Prasanthi, 2nd Year, B.Tech, CSE participated in JNTUK Volleyball selection trails and selected all India inter university Volleyball women tournament.

GOVERNANCE, LEADERSHIP AND MANAGEMENT:

- The institution was adopted quality improvement strategies
 - Industry interaction/Collaboration
 - Admission of students
 - Examination and Evolution
 - Research & Development
 - Human resource management
 - Library, ICT and Physical infrastructure/Instrumentation

- Curriculum Development
- Teaching and Learning
- The institution is effectively implementing e-governance in various areas of operations as follows:
 - Planning and Development
 - Administration
 - Finance and Accounts
 - Student Admission and Support
 - Examinations
- With respect to the faculty empowerment strategies, teachers are provided financial support to attend the conferences/workshops and faculty attended various faculty development programmes.
- In order to maintain and maintain the internal quality, Academic and Administrative Audit has been carried out by internal and external teams regularly.

INSTITUTIONAL VALUES AND BEST PRACTICES:

The following initiatives are taken by the institution to make the campus eco-friendly.

- Solid waste management
- Rainwater harvesting
- Plastic free campus
- Increase in plantation and greenery area
- Replacing the conventional electrical energy in to solar energy

BEST PRACTICES OF THE INSTITUTION:

- The academic audit committee is being constituted with two members headed by the Head of the department and supported by one senior faculty from the department. Once the committee is constituted, the date and time of the academic audit will be informed to the respective departments well in advance. Each faculty is expected to get ready with the following documents and display them before the Academic Audit Committee. The members

of academic audit interact with each member of faculty with regards to subject matter; various concepts of the courses taught and go through all their records and credentials. At the end, the committee calculates the whole departments' academic performance. A report is prepared with the significant contribution of the members of faculty as well as the department. Hard copies of the reports duly signed are being sent to the IQAC. IQAC after due verification sends the report to the principal.

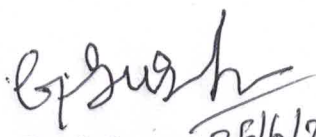
- Mentorship program involves problem solving, doubt clearing and topic teaching. Each section consists of two groups with two mentors having equal number of students in each group. Every week two hours are being provided for counseling, doubt clearing and motivating students.
- An international conference on "Future generation functional materials a research-2020 (ICFMR-2020)" is held wherein many stalwarts from various domains share their knowledge through research papers or through their interaction with the participants. The participants throughout India participate in the conference by presenting and publishing their research papers in the double blind peer reviewed conference proceedings on Elsevier "Materials Today: Proceedings".

Significant contributions made by IQAC during the current year:

1. Preventive measurements/Precautions has been taken in the campus against COVID-19 unlock was initiated.
2. Initiated and completed the pending syllabus in the even semester of academic year 2019-20 and conduct of internal examinations online mode to handle the pandemic situation.
3. Various activities conducted under Unnat Bharat Abhiyan.
4. Provision of free access to COURSERA online course platform for students and faculty to upgrade their skills during the lockdown period was initiated and succeeded in getting fruitful results.

Concluding Remarks:

- It is observed that PACE Institute of Technology and Sciences has been maintaining good academic standards in Curriculum, Teaching-Learning and Evolution, Declaration of results, Research and Development etc.
- There is considerable improvement in all the key performance indicators measured by the national bodies.


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