Academic and Administrative Audit

2018-19

NARAYANA ENGINEERING COLLEGE: NELLORE

29/06/2019

INSTITUTIONAL INFORMATION

1. **Name and Address of the College:**

   Name   : **NARAYANA ENGINEERING COLLEGE**

   Address   : Narayana Avenue, A K Nagar (Post), Muthukur Road

   City   : Nellore

   State   : Andhra Pradesh

   Website   : http://www.necn.ac.in

   PRINCIPAL

   Dr. G Srinivasulu

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   E-mail   : principal@necn.ac.in

   IQAC COORDINATOR

   Mr.Nareshbabu U

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2. (a) Affiliation   : Permanently affiliated to JNTUA, Ananthapuramu

   (b) Approved by   : AICTE, New Delhi

   (c) Accreditation   : NAAC with 'A+' Grade

3. (a) Year of establishment   : 1998

   (b) Certification   : ISO 9001:2015 Certified Institution

4. Type of Institution:

    a. By Gender   : Men and Women
    b. By Shift   : Day
    c. Source of funding   : Self-financing
    d. Minority institution : No

5. Facilities on the campus

Auditorium	:Yes
Play ground	:Yes
Gymnasium	:Yes
Staff Quarters	: No
Hostel : • Boys' hostels • Girls' hostels	 :No :YES
Cafeteria	:Yes
Dispensary	:Yes
Other facilities	:Water Purification Plant :Transportation

6. Details of programmes offered by the institution (2018-19):

Programs offered	Intake
Civil Engineering	60
Electrical and Electronics Engineering	120
Mechanical Engineering	60
Electronics and Communication Engineering	120
Computer Science and Engineering	120
Electronics and Instrumentation Engineering	60
M.C.A	60
M.B.A	180
M.Tech – Electrical Power Systems	24
M.Tech – VLSI	18
M.Tech – Computer Science and Engineering	18

7. Year of establishment of   : 2015
    (IQAC)

1. **ACADEMIC CALENDAR:** The College is affiliated to Jawaharlal Nehru Technological University Anantapur (JNTUA), Ananthapuramu. Each department prepares its own academic, event calendar per semester in accordance to JNTUA schedules and is following strictly.

2. **CERTIFICATE COURSES:** To enhance the technical skills of the students and avail suitable jobs, the college has made ample provision for students in participating certificate courses. The list of certificate courses conducted department wise is tabulated below.

S.No.	Program Name	Certificate Course Title	No. of students enrolled	Date(s)
1	B.TE CH-CE	Certificate Course On AUTOCADD	70	06/08/18 - 10/08/18
2	B.TECH-CE	Certificate Course On SOLID EDGE	114	11/03/19 - 16/03/19
3	B.TECH-CE	Certificate Course On Building Sketch up	53	04/02/19 - 08/02/19
4	B.TECH-EEE	Electrical Design & Installation	112	08/10/18 – 13/10/18
5	B.TECH-EEE	Electrical Estimation & Costing	121	05/03/19 – 09/03/19
6	B.TECH-EEE	Distribution controllers & Automation	108	01/04/19 – 05/04/19
7	B.TECH-ME	Certificate course on LS DYNA-HYPERMESH	47	29/09/18 – 04/10/18
8	B.TECH-ME	Siemens Certificate Programme on NC programming	60	18/03/19 - 23/03/19
9	B.TECH-ME	Siemens Certificate Programme on ROBO CAD	50	18/03/19 - 23/03/19
10	B.TECH-ECE	Embedded Systems Using Arm-Mbed	71	11/03/19 - 14/03/19
11	B.TECH-ECE	PCB Design and Fabrication	85	20/02/19 - 23/02/19
12	B.TECH-ECE	NI LAB VIEW	83	29/10/18 - 01/11/18
13	B.TECH-ECE	EMBEDDED SYSTEMS	78	09/09/18 - 12/09/18
14	B.TECH-CSE	Programming In C	74	12/07/18 – 10/11/18
15	B.TECH-CSE	Programming In CPP	23	12/07/18 – 10/11/18

S.No.	Program Name	Certificate Course Title	No. of students enrolled	Date(s)
16	B.TECH-CSE	Programming In C	89	12/07/18 – 10/11/18
17	B.TECH-CSE	Programming In CPP	50	12/07/18 – 10/11/18
18	B.TECH-CSE	Programming In Java	49	12/07/18 – 10/11/18
19	B.TECH-CSE	Programming In CPP	111	12/07/18 – 10/11/18
20	B.TECH-CSE	Fundamentals of python	80	19/02/19 – 23/02/19
21	B.TECH-CSE	Web Design Using PHP	50	04/02/19 – 08/02/19
22	B.TECH-EIE	PCB Design and Fabrication	89	24/09/18 - 27/09/18
23	B.TECH-EIE	IOT	82	11/02/19 - 14/02/19
24	MCA	Machine Learning	44	04/02/19 – 08/02/19
25	MCA	Full Stack Developer	48	09/07/18 – 13/07/18
26	MCA	R-Programming	27	08/10/18 – 12/10/18
27	MBA	Certificate Course on Fundamental Analysis	77	25/08/18 – 31/08/18
28	MBA	Certificate Course on Total Quality Management	165	04/02/19 – 09/02/19
29	MBA	Certificate Course on Financial Technologies	220	25/03/19 – 30/03/19

3. VALUE – ADDED COURSES: To make students better prepared to meet the industry needs and as well as to develop their own interests and aptitudes, the institute offers a wide variety of short term courses. These courses are conducted during the semester by professionals and industry experts. The list of value-added courses organized by the college is:

S.No.	Program Name	Title of the Value added Course	No. of students benefited	Date(s)
1	B.Tech-CE	3DS MAX	52	15/02/19 - 18/02/19

S.No.	Program Name	Title of the Value added Course	No. of students benefited	Date(s)
2	B.Tech-CE	REVIT	54	11/02/19 - 15/02/19
3	B.Tech-CE	Soft skills -1	47	02/07/18 -02/11/18
4	B.Tech-EEE	MATLAB and its Applications in Electrical Engineering	101	14/08/18 - 19/08/18
5	B.Tech-EEE	PLC & SCADA	110	20/08/18 - 24/08/18
6	B.Tech-EEE	Electrical Designing	72	21/02/19 – 24/02/19
7	B.Tech-EEE	Advanced Electrical drives & Automation	97	25/03/19 - 29/03/19
8	B.Tech-EEE	Soft skills -2	91	02/07/18 -02/11/18
9	B.Tech-ME	Value added course on NDT	45	30/07/18 – 02/08/18
10	B.Tech-ME	Value added course on "CFD TOOLS"	70	18/02/19 – 22/02/19
11	B.Tech-ME	Soft skills -3	54	02/07/18 -02/11/18
12	B.Tech-ECE	Java	67	04/07/18 -12/09/18
13	B.Tech-ECE	Soft Skills – Seventh Sense	115	09/07/18 -13/07/18
14	B.Tech-ECE	Embedded System Design Using Arduino Board	49	21/01/19 - 25/01/19
15	B.Tech-ECE	Wireless Mobile Network	43	08/04/19 - 12/04/19
16	B.Tech-ECE	Soft skills -4	120	02/07/18 -02/11/18
17	B.Tech-CSE	CORE JAVA & ADVANCED JAVA	47	17/12/18 - 22/12/18
18	B.Tech-CSE	Hive Query Language - Big Data	57	07/01/19 - 10/01/19
19	B.Tech-CSE	Advanced Java Programming	45	28/01/19 - 31/01/19
20	B.Tech-CSE	Visual Data Mining Techniques	49	08/04/19 - 10/04/19
21	B.Tech-CSE	Deep Learning Python	45	24/10/18 - 27/10/19

S.No.	Program Name	Title of the Value added Course	No. of students benefited	Date(s)
22	B.Tech-CSE	Soft skills -5	120	02/07/18 -02/11/18
23	B.Tech-EIE	Embedded C	67	21/01/19 - 25/01/19
24	B.Tech-EIE	Raspberry Pi	67	27/08/18 – 31/08/18
25	B.Tech-EIE	Soft skills -10	25	02/07/18 -02/11/18
26	MCA	Data Engineering	112	12/03/19 -16/03/19
27	MCA	Sequel Server	105	01/08/18 – 04/08/18
28	MCA	Angular JS	92	01/04/19 – 04/04/19
29	MBA	Skill Development	88	02/01/19 – 09/01/19
30	MBA	Digital Marketing	90	10/09/18 – 15/09/18
31	MBA	Stress Management	88	12/11/18 – 17/11/18
32	MBA	Digital Marketing	90	10/09/18 – 15/09/18

4. GUEST LECTURES: Each Department had arranged the guest lectures to update the students in the latest technological developments in their field of study. The team noticed the following details in the departments.

S.NO	NAME OF THE DEPARTMENT	NO OF GUEST LECTURES
1	Civil Engineering	02
2	Electrical & Electronics Engineering	04
3	Mechanical Engineering	12
4	Electronics & Communication Engineering	08
5	Computer Science and Engineering	03
6	Master of Business Administration	05
7	Master of Computer Applications	05

5. BRIDGE COURSES : Bridge course are conducted at the beginning of every semester for specific subjects. It is found that the college strongly believes that the bridge course helps the students for the better understanding and learning of new subjects. The observations are as follows.

S.NO	NAME OF THE DEPARTMENT	NO. OF BRIDGE COURSES	
		SEM - I	SEM-II
1	Civil Engineering	03	04
2	Electrical & Electronics Engineering	06	04
3	Mechanical Engineering	04	04
4	Electronics & Communication Engineering	03	02
5	Computer Science and Engineering	04	02
6	Electronics & Instrumentation Engineering	02	07
7	Master of Business Administration	03	02
8	Master of Computer Applications	02	02
9	Freshmen Engineering Department	00	08

6. TUTORIAL CLASSES: As per the JNTUA curriculum the tutorial classes were conducted and separate evaluation registers were maintained to know the progress of the students. On average 10 tutorial classes per subject in a semester were conducted by each department.

7. REMEDIAL CLASSES/REMEDIAL COACHING: The students are classified into slow learners and advanced learners based on their performance in university end examination and midterm examination. Remedial classes were conducted to slow leaners in identified subjects. Remedial coaching was offered to the students with backlogs in the previous university end examination.

S.NO	NAME OF THE DEPARTMENT	NO. OF SUBJECTS PROVIDED	
		SEM - I	SEM-II

1	Civil Engineering	04	03
2	Electrical & Electronics Engineering	04	05
3	Mechanical Engineering	03	04
4	Electronics & Communication Engineering	03	04
5	Computer Science and Engineering	06	06
6	Electronics & Instrumentation Engineering	02	05
7	Master of Business Administration	03	03
8	Master of Computer Applications	03	04

8. **COUNSELLING/MENTORING:** The institute follows mentorship programme in which each of the faculty member counsels 15 or 20 students for every 15 days, in the aspects viz attendance, mid marks, co-curricular, extra-curricular, personality development and other issues students may face from time to time.

9. **INDUSTRIAL VISITS:** To invoke the interest and recognizing the importance of practical applications of acquired technical knowledge, this institute provided opportunity of Industrial/Technical visits like APGENCO, APPDCL, APTRANSCO, BHEL, SHAR, Nippo, SDSC etc.

S .NO	NAME OF THE INDUSTRY	DATE
	ELECTRICAL AND ELECTRONICS ENGINEERING	
1.	33/11kv Substation, Nellore For III EEE	06/10/2018
2.	Indo National Limited (Nippo) For II EEE	06/10/2018
3.	33/11kv Substation, Nellore For II EEE	24/04/2019
	ELECTRONICS AND INSTRUMENTATION ENGINEERING	
1.	Indo National Limited, Tada	25/08/2019
	MECHANICAL ENGINEERING	

1.	Integral Coach Factory, Perambur, Chennai	31/07/2018
2.	Vijaya Dairy, Nellore	13/10/2018
3.	Tata Motors, Nellore	13/10/2018
4.	Amara Raja Batteries, Tirupathi	22/02/2019
5.	ARS Steels & Alloy International Pvt Ltd, Gummidipoondi, TN	23/02/2019
6.	Pushpit Steels Pvt. Ltd, Srikalahasti, A.P	23/02/2019
COMPUTER SCIENCE AND ENGINEERING		
1.	InfoCepts, TIDEL Park Ltd.,Module No-1207/12th Floor, "D" Block North Side 4, Rajiv Gandhi Salai, Taramani, Chennai – 600113	27/07/2018
2.	UX Business Solutions, Chennai.	09/10/2018
3.	Satish Dhawan Space Centre SHAR , Sriharikota, Nellore Dt.524121	25/02/2019
CIVIL ENGINEERING		
1.	Industrial Visit to Kanigiri Reservoir	06/10/2018
2.	Industrial ?Visit to Gururagavendra Ready mix plant	18/08/2018
3.	Industrial Visit to Somasilla dam	27/10/2018
4.	Industrial Visit to Somasilla dam	22/02/2019
ELECTRONICS & COMMUNICATION ENGINEERING		
1.	Nippo Batteries, Tada	16/03/2019
2.	APGENCO, Nelatur	06/10/2018
3.	UX Business Solutions, Chennai	09/10/2018
4.	Nippo Batteries, Tada	13/10/2018
5.	SDSC SHAR, Sriharikota	24/10/2018
6.	NARL, Gadanki, Chittoor	28/09/2018

MANAGEMENT STUDIES		
1.	Nippo batteries co ltd, Nellore dist, Tada, Andhra Pradesh 524401	04/05/2019
2.	NELCAST LIMITED, No 34 industrial estate, Gudur, Andhra Pradesh 524101	18/10/2018
MASTER OF COMPUTER APPLICATIONS		
1.	Shiash Info Solutions, Chennai	02/03/2019

10. **STUDENTS' SEMINARS :** To improve the presentation and communication skills of students', seminars on various advanced topics were conducted during laboratory hours and as part of curriculum for final years.

11. **LECTURE SCHEDULE VERIFICATION:** Lecture schedules and teaching notes are verified once in 15 days to ensure that faculty adheres to the academic calendar and syllabus given by the university.

12. **LAB RECORDS/MANUALS :**

It is observed that both hard and soft copies of lab manuals made available to the students and lab records are maintained. Electrical Circuit Simulation (EEE) needs to provide soft-copies of lab manuals.

13. **LABORATORY MAINTENANCE :**

Observations:

- A Few Measuring Equipment in Electrical Machines Laboratory needs to be repaired / replaced.
- A few Consumables need to be purchased in Electronics and Communication Engineering Department.
- One Experimental Kits to be replaced in Strength of materials Laboratory.
- Two Kits need to be replaced/ repaired in Instrumentation Laboratory.

14. CONTINUOUS EVALUATION FOR PRACTICAL COURSES:
Students' progress in practical courses is evaluated in a systematic manner where each faculty is responsible to conduct and evaluate experiments for a batch of 15 to 20 students. Further it is observed that each practical course has its own evolution book in which each experiment details and student progression is recorded.

15. MOODLE : Teaching and Learning resources like course plans, Learning resources, Activities / Assessment and evaluations are made available on moodle for quick reference and easy access to all faculty and students. Effective use of moodle at the institute is appreciated.

16. STUDENTS' ASSOCIATION ACTIVITIES : Departmental student associations have organized considerable number of activities during the year. embers of the committee observed the following associations under departments.

S.NO	PROGRAM	ASSOCIATION
1	Civil Engineering	SRISHTI
2	Electrical and Electronics Engineering	SAKALA
3	Mechanical Engineering	MIGHTY YANTRIK
4	Electronics and Communication Engineering	AKHIYANA
5	Computer Sciences and Engineering	ACE
6	Electronics and Instrumentation Engineering	ASESHA
7	Master of Business Administration	PRANAVA
8	Master of Computer Applications	TECHCROMA

List of Association activities organized:

DEPARTMENT	NO OF ACTIVITIES
Civil Engineering	03
Electrical and Electronics Engineering	12
Mechanical Engineering	26
Electronics and Communication Engineering	12
Computer Sciences and Engineering	16
Electronics and Instrumentation Engineering	04
Master of Business Administration	30
Master of Computer Applications	09

17. **PROFESSIONAL SOCIETY ACTIVITIES:** The members observed that every department in the college has professional society chapters. A few activities were organized under these bodies and recommended to improve the participation. The professional society bodies are as follows:

DEPARTMENT	PROFESSIONAL SOCIETY CHAPTER	No. of ACTIVITIES
Civil Engineering	Indian Concrete Institute (ICI)	02
Electrical and Electronics Engineering	Institution of Engineers(I)	03
Mechanical Engineering	Institution of Engineers(I)	02
Electronics and Communication Engineering	IETE	07
Computer Sciences and Engineering	Computer Society of India (CSI)	06
Master of Computer Applications	Computer Society of India (CSI)	03

18. **STUDENTS' EXTERNAL PARTICIPATION :** Institute encourages students' to participate in external activities/events. Students from each department have participated in different events like Hackthon, Tech-Fest,

Technical-Quiz, Web Scratch, NTSEE, Industrial training and presented technical Papers. Students grabbed around 68 prizes.

DEPARTMENT	No. of STUDENTS
Civil Engineering	29
Electrical and Electronics Engineering	79
Mechanical Engineering	64
Electronics and Communication Engineering	94
Computer Sciences and Engineering	97
Electronics and Instrumentation Engineering	36
Master of Business Administration	57
Master of Computer Applications	30

19. TRAINING AND PLACEMENT: Students are undergoing placement training from II year onwards. Institute has arranged for on campus and off campus placement drives for all eligible students. The details observed by the members are as follows:

No. of Companies Visited	54
No. of Students Placed	467

DEPARTMENT	No. of STUDENTS PLACED
Civil Engineering	12
Electrical and Electronics Engineering	82
Mechanical Engineering	33

Electronics and Communication Engineering	128
Computer Sciences and Engineering	110
Electronics and Instrumentation Engineering	29
Master of Business Administration	19
Master of Computer Applications	54

20. COLLABORATIONS : MoUs: Institute has **45** MoU's through industry interaction. Details of the collaborations and MoU noticed are:

SLNO	DEPARTMENT	No. of Collaborations
1	Civil Engineering	04
2	Electrical and Electronics Engineering	06
3	Mechanical Engineering	06
4	Electronics and Communication Engineering	05
5	Computer Sciences and Engineering	06
6	Electronics and Instrumentation Engineering	04
7	Master of Business Administration	06
8	Master of Computer Applications	04
9	Central level	04

21. TEACHING STAFF: During the academic year 2018-19, there is **135** full-time and well qualified teaching staff in the college. The observed details are as follows:

SLNO	DEPARTMENT	No. of Staff
1	Civil Engineering	09
2	Electrical and Electronics Engineering	22
3	Mechanical Engineering	09
4	Electronics and Communication Engineering	21
5	Computer Sciences and Engineering	21

6	Electronics and Instrumentation Engineering	05
7	Master of Business Administration	15
8	Master of Computer Applications	09
9	Freshman Engineering Department	24

22. FACULTY PARTICIPATION : 200 faculty members has participated in various internal/external activities like seminars, conferences, workshops, FDPs etc .Further departments maintain participation / presentation certificates of faculty members. Appreciations to the departments for encouraging the faculty members by reimbursing expenses like registration fee, travelling allowance etc.

23. COURSE FILES : The departments maintain well designed course files. Notices the following item in course files (i) syllabus, (ii) course plan, (iii) course objectives, (iv) subject material, (v) previous year question papers, (vi) question bank etc.

24. CAREER COUNSELING/GUIDANCE : The institution conducted various career counselling programs from invited industrial experts and academicians. Around 1024 students got benefited through career counseling sessions arranged by the institution.

25. WORKSHOPS/SEMINARS/CONFERENCES/FDPS CONDUCTED:
The following events observed for the year 2018-19.

SLNO	EVENT	NO. OF PROGRAMS
1	Workshops	09
2	Seminars	23
3	Conference	01
4	Technical Talks	14
5	FDP's	22

26. **FEED-BACK ON CURRICULUM :** Feedback on curriculum has collected from stockholders and the prepared summary reports for the same was sent to JNTUA. Members appreciated the institution for its effective feed-back mechanism and its actions initiated.

27. **COMPUTING EQUIPMEN T:** The team found Institution has **530** computer systems across all the departments in its verification. The quantitative summary of the details are as follows:

SLNO	Configuration	No. of Computing Equipment
1	I 3 Processor	460
2	I 5 Processor	140
3	Dual core	91
	Total	**691**

28. **STUDENTS' GRIEVANCE REDRESSAL :** Students' Grievance Redressal Cell (SGRC) is active and operating effectively in the institute. Members noticed that during the year 2018-19, one grievance received from students and its actions taken/initiated for the same.

29. **PROFESSIONAL DEVELOPMENT PROGRAM S:** 32 (Thirty Two) professional development programs were conducted across all the departments during the academic the year for both teaching and non-teaching staff. Files related to the programs like circulars, Reports and other details are maintaining.

30. **E- LEARNING RESOURCES:** Innovative teaching practices are implemented through e- learning resources available like MOODLE, digital library, e-journals, NPTL etc.

31. **MEETINGS(FACULTY, CELLS, COMMITTEES, STUDEN T BODIES):** Institute prepares meetings calendar at the beginning of the semester for various cell/committees and departments, which is monitored by IQAC. Audit committee

members observed that departments and cell/committees are regularly conducting meetings as per the meetings calendar and there are **36** cells /committees constituted in the institute.

32. **WEBSITE UPDATES:** Except for a very few events, all the activities , achievements of all departments are updated in the college official website on a regular basis.

33. **RESEARCH & DEVELOPMENT (R&D):** **175** research papers were published from all the departments, in various national and international journals and a few project proposals were prepared and submitted for securing grants. It is suggested to publish research papers in UGC journals and some other high impact peer reviewed journals.

34. **GENERAL MAINTENANCE:** Better maintenance is suggested in the area of sanitation and building infrastructure.

35. **EXTENSION ACTIVITIES:** Under NSS unit **48** programs were organized to solve issues identified in near located villages/areas. Around **2921** students have actively participated and team verified documents related to the following activities:

List of Extension Activities
Academic Year-2018-19

S.No.	Name of the Activity	Date
1.	Awareness Program On Sun Stroke Remedies	12-05-2019
2.	Chalivendhram	04-05-2019
3.	Awareness Program On Child Education	27-04-2019
4.	Awareness Rally On Sun Stroke Remedies	22-04-2019
5.	Eamcet Mock Test	17-04-2019
6.	Career Oppourtunities At Power Plant	15-04-2019
7.	World Health Day	07-04-2019
8.	Voter Awarness Rally	03-04-2019
9.	Age Friendly Environment Program	30-03-2019
10.	World Tb Day	24-03-2019
11.	World Tb Day	24-03-2019
12.	Nutrition Awareness Campaign	16-03-2019
13.	Smart Farming Using Iot	07-03-2019
14.	Awareness Program On Solid Waste Management	13-02-2019
15.	Awareness Program On Road Safety & Traffic Rules	07-02-2019
16.	World Cancer Day	04-02-2019
17.	National Voters Day	25-01-2019
18.	Government Policies In Rural Areas	09-01-2019
19.	Self Toilets In Rural Areas	19-11-2018
20.	Program On Women Hygiene	03-11-2018
21.	Medical Camp	02-11-2018
22.	Rastriya Ekta Diwas	31-10-2018
23.	Blood Donation Camp	21-10-2018
24.	Candle Rally	21-10-2018
25.	National Solidarity Day	20-10-2018
26.	World Mental Health Day	10-10-2018
27.	Medical Camp In Rural Area	09-10-2018
28.	Awareness Rally On Swachh 1bharat	08-10-2018
29.	International Day For The Elderly	01-10-2018
30.	Swachh Bharat	01-10-2018
31.	Swachh Bharat Pakhwada Rally At Adopted Village	29-09-2018
32.	Awareness Program On Fire Accidents'	28-09-2018
33.	Disaster Management	26-09-2018
34.	World Heart Day	24-09-2018
35.	Safety During Cyclones For Fishermen	22-9-2018
36.	World First Aid Day	14-09-2018
37.	Awareness Program On Clay Ganesh	12-09-2018
38.	World Suicide Prevention Day	10-09-2018
39.	Road Safety At Simhapuri Hospital Junction	24-08-2018
40.	Kerala Fund Raising Program	21-08-2018 to25-08-2018
41.	World Senior Citizen Day	21-08-2018
42.	E-Learning In Zp Schools	20-08-2018
43.	E- Learning	17-08-2018
44.	Awareness About Dengue Fever	14-08-2018
45.	Organ Donation Day	13-08-2018
46.	Llr Mela	20-07-2018
47.	Vanamahotsav	07-07-2018
48.	Plastic Free Campaign	03-07-2018

36. SOFTWARE PACKAGES:

Observations:

SLNO	DEPARTMENT	SOFTWARE PACKAGES
1	Civil Engineering	STADD-PRO
2	Electrical and Electronics Engineering	MATLAB, P-SPICE, SIM Power System
3	Mechanical Engineering	Ansys, CRE-O, CADD
4	Electronics and Communication Engineering	MATLAB, LABVIEW
5	Computer Sciences and Engineering	Turbo C, ORACLE, WEKA, APACHE, Eclipse, Load Runner, Grid Sim, IBM Rational Rose
6	Electronics and Instrumentation Engineering	LABVIEW

37. **ALUMNI:** it is found that in the institution, alumni meets are arranged regularly. During the year **02** alumni association meetings were conducted and **215** alumni are enrolled for the same.

38. **ICT IN TEACHING–LEARNING:** Departments are equipped with ICT facilities and faculty members use ICT tools like You-tube links, power point presentations etc for delivery of lectures.

39. **ATTENDANCE:** Every department adopts an effective systematic approach for student attendance calculation and follow up actions for attendance shortages like phone calling, intimation to parents, counselling students. Team appreciated the departments for effective maintenance of student attendance.

40. **OUTCOME BASED EDUCATION:** Outcome-based methods have been adopted as the institute believes OBE is more of a philosophy than a uniform set of practices. The process of adopting vision, mission, PEO's and PSO's was well defined and transparent to all the stakeholders.

41. **IQAC:** As a step towards quality improvement, the college has established Internal Quality Assurance Cell in AY 2015-16. IQAC is active and 7 (Seven) quality initiative programs were taken up. It is observed that regular reviews were conducted by IQAC and timely suggestions were given to various committees/faculty for improvement. The involvement of IQAC in various academic and Administrative activities of the college is appreciated.

Executive Summary

The Institution is taking measures towards quality improvement to achieve overall development of the institution. The team appreciates the institution to the initiations and follow-up actions taken on its previous AAA recommendations which are suggested on 14th, Jun, 2018. Still the team recommends improving in the area of faculty research and publications in reputed journals to accomplish.
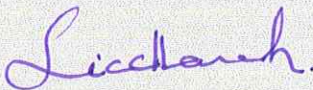
Strengths

- Various Certificate Courses are conducted to enhance the technical skills of the students
- Counseling, yoga and meditation programs are offered to the students to enhance the power of concentration, overcome stress and to ensure mental maturity.
- To provide valued education institution has organized programs on human values and ethics.
- The faculty members prepare course dairy, course plan and course material for the subjects taught by them and the same made available in MOODLE.
- Institution has a systematic approach to identify advanced learners and slow learners. Also various activities were conducted for both slow and advanced learners.
- The Institution is implementing student centre learning methods regularly.
- MOODLE is adopted as a system for faculty and student interaction.
- Faculty Development Programs and initiatives are organized regularly to update the skills of the faculty members.
- The faculty members are encouraged for external participation by reimbursing registration-fee, travelling charges etc.
- All the classrooms are ICT enabled.

Suggestions for the AAA: 2018-19

- All the faculty members are advised to publish the papers in SCI or SCOPUS indexed.
- Apply for funding projects to strengthen the R & D Cell.
- Strengthen Professional Chapters in the Institution.
- Conduct International programs/events every year.
- Provide training for GATE examination from II years onwards.

At the outset committee appreciated the management, administration, teaching and non-teaching staff for acquiring "A+" grade with 3.41 CGPA by National Assessment and Accreditation Council (NAAC) and suggested to go for Autonomous status.

S.NO.	Details of External Members	Signature
1	Dr. P. Siddaiah Principal, College of Engineering & Technology, Acharya Nagarjuna University, Nagarjuna Nagar, Andhra Pradesh.	
2	Dr. J Somlal Professor, Department of Electrical & Electronics Engineering, KL Deemed to be University, Vaddeswaram, Vijayawada, Andhra Pradesh.	
3	Dr. G V K Murthy, Professor & HOD, Department of Electrical & Electronics Engineering, PACE Institute of Technology & Science(Autonomous), Valluru, Ongole, Andhra Pradesh.	