# ANNUAL QUALITY ASSURANCE REPORT

# 2015-2016

# National Assessment and Accreditation Council Bangalore-560 072

# Submitted by



# NARASARAOPETA ENGINEERING COLLEGE, NARASARAOPET

(Autonomous)

(Approved by AICTE, Affiliated to JNTUK, Kakinada, Accredited by NBA&NAAC, ISO 9001: 2008 Certified Institution)

Kotappakonda Road, Yellamanda (Post), Narasaraopet – 522601, Guntur district, Andhra Pradesh

Phone No.: 08647-239923, 9441895535, Fax No.: 08647-239902

# **INDEX**

| DESCRIPTION    | PAGE NOS. |
|----------------|-----------|
| Part-A         | 3-8       |
|                | Part-B    |
| Criterion-I    | 9,10      |
| Criterion-II   | 11-13     |
| Criterion-III  | 14-18     |
| Criterion-IV   | 19,20     |
| Criterion-V    | 21-24     |
| Criterion-VI   | 25-31     |
| Criterion-VII  | 32-35     |
| Criterion-VIII | 36        |

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

All NAAC accredited institutions will submit an annual self-reviewed progress report to NAAC, through its IQAC. The report is to detail the tangible results achieved in key areas, specifically identified by the institutional IQAC at the beginning of the academic year. The AQAR will detail the results of the perspective plan worked out by the IQAC. (*Note: The AQAR period would be the Academic Year. For example, July 1, 2012 to June 30, 2013*)

# Part - A

| 1. Details of the Institution  |                                   |  |  |  |
|--------------------------------|-----------------------------------|--|--|--|
| 1.1 Name of the Institution    | Narasaraopeta Engineering College |  |  |  |
|                                |                                   |  |  |  |
| 1.2 Address Line 1             | Kotappakonda Road                 |  |  |  |
|                                |                                   |  |  |  |
| Address Line 2                 | Yellamanda Post                   |  |  |  |
|                                |                                   |  |  |  |
| City/Town                      | Narasaraopet                      |  |  |  |
|                                |                                   |  |  |  |
| State                          | Andra Pradesh                     |  |  |  |
|                                |                                   |  |  |  |
| Pin Code                       | 522601                            |  |  |  |
|                                |                                   |  |  |  |
| Institution e-mail address     | principal@nrtec.ac.in             |  |  |  |
|                                |                                   |  |  |  |
| Contact Nos.                   | 9441895535                        |  |  |  |
|                                |                                   |  |  |  |
| Name of the Head of the Instit | ution: Dr.M. Sreenivasa Kumar     |  |  |  |
|                                |                                   |  |  |  |
| Tel. No. with STD Code:        | 08647-239904                      |  |  |  |

| Mobile:  | 9440757039   |  |  |  |  |
|--|--|--|--|--|--|
| Name of the IQAC Co-ordinate   | Dr.S.B.Venkata Siva  |  |  |  |  |
| Mobile:  | 9692464540   |  |  |  |  |
| IQAC e-mail address:   | neciqac@gmail.com  |  |  |  |  |
| 1.3 NAAC Track ID (For ex. MHCOGN 18879) APCOGN20000, dated 22.1.2014  1.4 NAAC Executive Committee No. & Date: (For Example EC/32/A&A/143 dated 3-5-2004. This EC no. is available in the right corner- bottom of your institution's Accreditation Certificate) |  |  |  |  |  |
| 1.5 Website address:   | www.nrtec.ac.in  |  |  |  |  |
| Web-link of the AQAR:  | http://www.nrtec.ac.in/wp-content/uploads/2018/08/AQAR-15-16.pdf |  |  |  |  |
| -  | www.ladykeanecollege.edu.in/AQAR2012-13.doc                      |  |  |  |  |
| 1.6 Accreditation Details  | Vear of Validity   |  |  |  |  |

| Sl. No. | Cycle                 | Grade | CGPA | Year of Accreditation | Validity<br>Period |
|---------|-----------------------|-------|------|-----------------------|--------------------|
| 1       | 1 <sup>st</sup> Cycle | A     | 3.05 | 3-3-2015              | 2-3-2020           |
| 2       | 2 <sup>nd</sup> Cycle |       |      |                       |                    |
| 3       | 3 <sup>rd</sup> Cycle |       |      |                       |                    |
| 4       | 4 <sup>th</sup> Cycle |       |      |                       |                    |

1.7 Date of Establishment of IQAC : DD/MM/YYYY 20/12/2012

| 1.8 AQAR for the year (for example 2010-11)   | 2015-16                      |
|---|------------------------------|
| 1.9 Details of the previous year's AQAR submitted to Accreditation by NAAC ((for example AQAR 2010- |                              |
| i. <u>NA</u>  |                              |
| 1.10 Institutional Status   |                              |
| University State √ Centr  | ral Deemed Private           |
| Affiliated College Yes V  |                              |
| Constituent College Yes   | No                           |
| Autonomous college of UGC Yes No  |                              |
| Regulatory Agency approved Institution Yes  | √ No                         |
| (eg. AICTE, BCI, MCI, PCI, NCI)   |                              |
| Type of Institution Co-education √ Men  | Women                        |
| Urban Rur   | al √ Tribal                  |
| Financial Status Grant-in-aid UGO   | C 2(f)                       |
| Grant-in-aid + Self Financing   | g ☐ Totally Self-financing ✓ |
| 1.11 Type of Faculty/Programme  |                              |
| Arts Science Commerce   | Law PEI (Phys Edu)           |
| TEI (Edu) ☐ Engineering ✓ Health S  | cience                       |
| Others (Specify) . MCA  |                              |
| 1.12 Name of the Affiliating University (for the Coli   | JNTU Kakinada                |

# 1.13 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc Autonomy by State/Central Govt. / University University & UGC **UGC-CPE** University with Potential for Excellence **DST Star Scheme UGC-CE DST-FIST UGC-Special Assistance Programme** Any other (Specify) UGC-Innovative PG programmes **UGC-COP Programmes** 2. IQAC Composition and Activities 9 2.1 No. of Teachers 1 2.2 No. of Administrative/Technical staff 2 2.3 No. of students 2.4 No. of Management representatives 1 2 2.5 No. of Alumni 2. 6 No. of any other stakeholder and 1 Community representatives 2.7 No. of Employers/ Industrialists 2.8 No. of other External Experts

2

17

2.9 Total No. of members

2.10 No. of IQAC meetings held

| 2.11 No. of meetings with various stakeholders: No. 4 Faculty 1  |
|--|
| Non-Teaching Staff Students - Alumni 1 Others 1(parents)   |
| 2.12 Has IQAC received any funding from UGC during the year? Yes ☐ No ✓  If yes, mention the amount ☐  |
| 2.13 Seminars and Conferences (only quality related)   |
| (i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC  Total Nos. International National State Institution Level   |
| (ii) Themes  NBA-SAR Report preparation Outcome based education CRT Classes on Soft skills CRT Classes on Career Empowerment Entrepreneurship awareness program Workshops on Learning Process and Learning Styles  2.14 Significant Activities and contributions made by IQAC  |
| <ul> <li>Quality parameters developed for various academic / administrative activities of the institute.</li> <li>Assessing the quality parameters and providing required suggestions for the improvement.</li> <li>Arranging FDP'S for newly joined faculty</li> <li>Conducting seminars / workshops, FDPs, Guest Lectures, training / certification programmes on quality related issues</li> <li>Implementation of Outcomes Measurement for the courses in the Programme</li> <li>Evaluation of existing teaching learning systems and related documents</li> </ul> |

# 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  |
|--|---|
| To Monitor Teaching Learning process   | Academic Audit is done at the end of every semester.  |
| To Encourage R&D and Consultancy, Establishing advanced / research labs / centres, setting up new experiments on latest technologies.  Conducting Faculty Development Programs on Emerging technologies. | <ul> <li>Mechanical Engineering, Electronics and Communication Engineering, Computer Science Engineering departments have applied for research centers to JNTUK, Kakinada</li> <li>Consultancy services provided by all Engineering departments.</li> <li>03 Faculty development Programs are organized.</li> </ul> |
| Communication with Parents   | <ul> <li>Letters with particulars of Percentage of attendance,         Mid- exam marks, SGPA and Backlogs have been         sent.</li> <li>Percentage of student attendance is improved</li> </ul>  |
| Online Certification courses   | • Students Participated in C Programming Certification • Students Participated in MTA Certification by Microsoft  |
| To improve technical activities  | <ul> <li>National Level Techfest "JUBILATION-2K16" was organized in January 2016.</li> <li>Project Expo was organized in the institute in the month of March 2016</li> <li>International conferences are organized the departments of ECE and CSE.</li> </ul>   |
| To send SMS alert to the parents about progress  | <ul> <li>Alerts of Attendance and performance of students are sent to the parents.</li> <li>Communication with Parents is done through SMS.</li> </ul>  |

| 2.15 Wheth                              | er the AQAR was placed in statutory body Yes   No   No |  |  |  |
|---|--|--|--|--|
| ]                                       | Management   ✓ Syndicate Any other body                |  |  |  |
| Provide the details of the action taken |  |  |  |  |
|   | Placed in Governing Body meeting held on 18-06-2016    |  |  |  |

# Part - B

# Criterion - I

# 1. Curricular Aspects

# 1.1 Details about Academic Programmes

| Level of the<br>Programme | Number of existing Programmes | Number of programmes added during the year | Number of self-financing programmes | Number of value<br>added / Career<br>Oriented<br>programmes |
|---------------------------|-------------------------------|--|-------------------------------------|---|
| PhD                       | -                             | -  |                                     | -   |
| PG                        | 10                            |  | 10                                  | -   |
|                           | M.Tech-8                      |  |                                     |   |
|                           | MBA, MCA                      |  |                                     |   |
| UG                        | 5 (B.Tech)                    | -  | 5                                   | 9   |
| PG Diploma                | -                             | -  | -                                   | -   |
| Advanced                  | -                             | -  | -                                   | -   |
| Diploma                   |                               |  |                                     |   |
| Diploma                   | 4                             | -  | 4                                   | -   |
| Certificate               | -                             | -  | -                                   | -   |
| Others                    | -                             | -  | -                                   | -   |
| Total                     | 19                            |  | 19                                  |   |

| Interdisciplinary |  |  |
|-------------------|--|--|
| Innovative        |  |  |

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

Being an affiliated college to JNTU Kakinada, there is a flexibility of electives and core subjects.

# (ii) Pattern of programmes:

| Pattern   | Number of programmes  |
|-----------|-----------------------|
| Semester  | UG-5, PG10, Diploma-4 |
| Trimester |                       |
| Annual    |                       |

| 1.3 Feedback from stakeholders* Alumn (On all aspects) | i √ | Parents | √        | Employers       | <b>√</b> ; | Students  | √ |  |
|--|-----|---------|----------|-----------------|------------|-----------|---|--|
| Mode of feedback: Online    √                          | Man | ual     | <b>V</b> | Co-operating sc | hools      | (for PEI) |   |  |

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

- Departments take feedback from the students during the course work and also at the time of exit.
- Alumni /Employers feedback also collected.
- Feedback is taken from the parents during Parents meet and during the study period of their children.
- Alumni cell will collect the feedback from the alumni during the Alumni Meets.
- 1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.

The syllabi was not revised by the university and it is proposed to be revised in academic year 2016-17

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

Embedded systems and Robotics lab is established under E-Yantra program by IIT Bombay

# Criterion – II

# 2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

| Total | Asst.Professors | Associate  | Professors | Others |
|-------|-----------------|------------|------------|--------|
|       |                 | Professors |            |        |
| 327   | 261             | 38         | 28         |        |

2.2 No. of permanent faculty with Ph.D.

| 31 |  |
|----|--|
|----|--|

2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year

| Asst.  |       | Associ  |      | Profes | ssors | Other | S | Total |   |
|--------|-------|---------|------|--------|-------|-------|---|-------|---|
| Profes | ssors | Profess | sors |        |       |       |   |       |   |
| R      | V     | R       | V    | R      | V     | R     | V | R     | V |
|        |       |         |      |        |       |       |   |       |   |
| 149    |       | 9       |      | 10     |       |       |   | 168   |   |

2.4 No. of Guest and Visiting faculty and Temporary faculty

| - | 7 | - |
|---|---|---|
|   |   |   |

2.5 Faculty participation in conferences and symposia:

| No. of Faculty   | International level | National level | State level |
|------------------|---------------------|----------------|-------------|
| Attended         | 120                 | 16             | 4           |
| Presented papers | 120                 | 16             | -           |
| Resource Persons | 1                   | 1              | 1           |

- 2.6 Innovative processes adopted by the institution in Teaching and Learning:
  - NPTEL lectures are made available in digital library to encourage self learning
  - Display of detailed teaching plans with Course outcomes and evaluation mechanism is encouraged
  - Use of ICT and modern pedagogical techniques.
  - E-Journals are subscribed for enhancement of knowledge and latest information.
  - Special arrangement of classes on Aptitude and communication skills.
  - A good number of video lessons (NPTEL & MOOCS) are available and they are being used for the better understanding of the subjects.
  - Adopted Outcome based approach.

| 2.7 | Total No. of actual teaching days | 184 |
|-----|-----------------------------------|-----|
|     | during this academic year         |     |

2.8 Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions) Continuous evaluation on day to day basis is adopted. Assignments, online tests, mini projects are introduced.

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

2.10 Average percentage of attendance of students 83

2.11 Course/Programme wise distribution of pass percentage:

| Title of the Programme | Total no. of students | Division |       |      |       |        |  |
|------------------------|-----------------------|----------|-------|------|-------|--------|--|
| 11081                  | appeared              |          | I %   | II % | III % | Pass % |  |
| B.Tech                 | 161                   | 27.9     | 34.16 | -    | -     | 62     |  |
| Mechanical             |                       |          |       |      |       |        |  |
| B.Tech ECE             | 222                   | 45.49    | 23.8  | -    | -     | 69.3   |  |
| B.Tech CSE             | 177                   | 40.67    | 36.72 | 8.47 | -     | 85.87  |  |
| B.Tech EEE             | 119                   | 36.13    | 33.61 | -    | -     | 69.74  |  |
| B.Tech Civil           | 58                    | 53.44    | 41.37 | 1.72 | 1.72  | 98.28  |  |
| MCA                    | 42                    | 80.95    | 16.66 | -    | -     | 97.6   |  |
| MBA                    | 108                   | 66.67    | 0.92  | 0.92 | -     | 68.52  |  |
| M.Tech DECS            | 13                    | 53.84    | 7.69  | -    | -     | 61.53  |  |
| M.Tech DSCE            | 9                     | 55.55    | 22.22 | -    | -     | 77.77  |  |
| M.Tech P&ID            | 13                    | 84.61    | 7.69  | -    | -     | 92.30  |  |
| M.Tech PEED            | 10                    | 100      | -     | -    | -     | 100    |  |
| M.Tech                 | 5                     | 80       | -     | -    | -     | 80     |  |
| CAD/CAM                |                       |          |       |      |       |        |  |
| M.Tech TE              | 7                     | -        | -     | -    | -     | -      |  |
| M.Tech CSE             | 15                    | 86.67    | -     | -    | -     | 86.67  |  |
| M.Tech                 | 10                    | 57.1     | 12.9  | -    | -     | 70     |  |
| Structural             |                       |          |       |      |       |        |  |

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

- Monitors and evaluates the Teaching and learning processes by way of conducting the periodical meetings with HoDs etc.
- Collects the project reports randomly from the departments and evaluates the quality of reports and same will be submitted for the discussion at IQAC meetings
- Collects course files randomly and assesses the process followed and the attainment of Course Outcomes
- Identifies the new methods of teaching adopted by the faculty and shares the same among the faculty
- Conducts workshops on the teaching-learning process
- Prepares action Report and the Principal takes necessary steps to implement them

# 2.13 Initiatives undertaken towards faculty development

| Faculty / Staff Development Programmes         | Number of faculty<br>benefitted |
|--|---------------------------------|
| Refresher courses                              | 0                               |
| UGC – Faculty Improvement Programme            | 0                               |
| HRD programmes                                 | 0                               |
| Orientation programmes                         | 0                               |
| Faculty exchange programme                     | 0                               |
| Staff training conducted by the university     | 0                               |
| Staff training conducted by other institutions | 8                               |
| Summer / Winter schools, Workshops, etc.       | 34                              |
| Others   | 6                               |

## 2.14 Details of Administrative and Technical staff

| Category             | Number of<br>Permanent<br>Employees | Number of<br>Vacant<br>Positions | Number of permanent positions filled during the Year | Number of positions filled temporarily |
|----------------------|-------------------------------------|----------------------------------|--|--|
| Administrative Staff | 48                                  |                                  |  |  |
| Technical Staff      | 36                                  |                                  |  |  |

## Criterion – III

# 3. Research, Consultancy and Extension

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

The goal is to involve the entire faculties on research activities and motivate them for further improvement in research career. Encouraging young faculty to register for their doctoral degree. As a result around 30 faculties are pursuing their Ph.D program in different universities. The institute is providing good infrastructure, equipment's, journals, guest lectures by eminent Professors, seminars, workshops, digital library with required internet facility etc, to meet the needs of research work. It is commendable that the college provides seed money for the deserving candidates to carry research. We are also providing financial assistance to the researchers where ever required such as conference registration, workshops and contingency. All these activities are monitored by our strong research advisory committee.

The College has taken several steps to promote research culture among both the faculty and students. The project work is organized for the students in the curriculum of PG and UG courses which helps the students to absorb research aptitude and broaden their perspective on their subjects. Students are encouraged to present their research papers in different symposia/conferences organized by the college as well as outside. As a result our UG students have presented around 75 papers and won many prizes. Our PG students have presented their research papers in international conferences.

Our broad area of research includes, data mining, network security, mobile computing, global positioning system, embedded systems, VLSI, image and signal processing, power systems and power electronics, composite materials, biofuels, Geo polymers, Waste material utilization in concrete etc.

- Each department has a Department research committee, which convene periodical meetings to review project reports and other research papers presented by PG/UG students.
- Encouraging the faculty to pursue higher education.
- Encouraging faculty to publish quality research papers in referred journals and conferences etc.
- Categorization of the projects undertaken by the final year students into three categories: Industry based, Research based and Automation based.
- QEEE(Quality Enhancement in Engineering Education)
   Lectures delivered in the institute in almost all the branches of UG

# 3.2 Details regarding major projects

|                     | Completed | Ongoing | Sanctioned | Submitted |
|---------------------|-----------|---------|------------|-----------|
| Number              | 1         | -       | -          | -         |
| Outlay in Rs. Lakhs | 6         | -       | -          | -         |

# 3.3 Details regarding minor projects

|                     | Completed | Ongoing | Sanctioned | Submitted |
|---------------------|-----------|---------|------------|-----------|
| Number              | 3         | -       | -          | -         |
| Outlay in Rs. Lakhs | 1.40      | -       | -          | -         |

# 3.4 Details on research publications

|                          | International | National | Others |
|--------------------------|---------------|----------|--------|
| Peer Review Journals     | 76            | 9        | -      |
| Non-Peer Review Journals | -             | -        | -      |
| e-Journals               | -             | -        | -      |
| Conference proceedings   | 120           | 16       | -      |

| 3.5 | <b>Details</b> | on Im | pact fact | or of p    | ublications: |
|-----|----------------|-------|-----------|------------|--------------|
| ••• |                | U     | p         | 0 <u> </u> |              |

|       |         |         |    | _       |   |                |   |
|-------|---------|---------|----|---------|---|----------------|---|
| Range | 0.1-1.5 | Average | .8 | h-index | 5 | Nos. in SCOPUS | 3 |

3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations

| Noting of the Project      | Duration | Name of the    | Total grant | Received |  |  |  |  |  |  |
|----------------------------|----------|----------------|-------------|----------|--|--|--|--|--|--|
| Nature of the Project      | Year     | funding Agency | sanctioned  |          |  |  |  |  |  |  |
|                            | Majo     | or projects    |             |          |  |  |  |  |  |  |
| Big Data Analytics         | 1        | AICTE          | 600000      | 600000   |  |  |  |  |  |  |
| Minor Projects             |          |                |             |          |  |  |  |  |  |  |
| Interdisciplinary Projects |          |                |             |          |  |  |  |  |  |  |
| Industry sponsored         |          |                |             |          |  |  |  |  |  |  |
|                            | _        |                | T           | 1        |  |  |  |  |  |  |
| School Website             | 1        | Private sector | 40000       | 40000    |  |  |  |  |  |  |
| SMS Software               | 1        | Private sector | 50000       | 50000    |  |  |  |  |  |  |
| SMS Software               | 1        | Private sector | 50000       | 50000    |  |  |  |  |  |  |
| Projects sponsored by the  |          |                |             |          |  |  |  |  |  |  |
| University/ College        |          |                |             |          |  |  |  |  |  |  |
| Students research projects |          |                |             |          |  |  |  |  |  |  |
| (other than compulsory by  |          |                |             |          |  |  |  |  |  |  |
| the University)            |          |                |             |          |  |  |  |  |  |  |
| Any other(Specify)         |          |                |             |          |  |  |  |  |  |  |
| Total                      |          |                |             |          |  |  |  |  |  |  |

| 3.7 No. of books published i) With ISBN No. Chapters in Edited Books |   |                     |                 |                 |          |            |         |  |  |
|--|---|---------------------|-----------------|-----------------|----------|------------|---------|--|--|
| 3.8 No. of University Do   | ii) Without ISBN No. 3.8 No. of University Departments receiving funds from |                     |                 |                 |          |            |         |  |  |
|  | UGC-S   | AP                  | CAS             | D               | ST-FIS   | Γ          |         |  |  |
| DPE DBT Scheme/funds   |   |                     |                 |                 |          |            |         |  |  |
| 3.9 For colleges Autonor CPE DBT Star Scheme                         |   |                     |                 |                 |          |            |         |  |  |
| - INSPIF CE Any other (specify)                                      |   |                     |                 |                 |          |            |         |  |  |
| 3.10 Revenue generated through consultancy 12,88,250/-               |   |                     |                 |                 |          |            |         |  |  |
| 3.11 No. of conferences<br>Organized by the instit                   |   | Level<br>Number     | International 3 | National -      | State -  | University | College |  |  |
| Organized by the first   | uuon  | Sponsoring agencies | college         |                 |          |            |         |  |  |
| 3.12 No. of faculty serve  | ed as exp   | perts, chairpe      | ersons or resou | irce persoi     | ns 6     |            |         |  |  |
| 3.13 No. of collaboratio   | ns  | Internationa        | al - Nat        | tional -        |          | Any other  | -       |  |  |
| 3.14 No. of linkages cre   | ated dur  | ing this year       | -               |                 |          |            |         |  |  |
| 3.15 Total budget for re-  | search fo   | or current year     | ar in lakhs: 17 | .40             |          |            |         |  |  |
| From funding agency  | 7.4 Lak   | h From M            | Management o    | f Universi      | ty/Colle | ge 10.0    | 0 lakh  |  |  |
| Total  | 17.4 La   | kh                  |                 |                 |          |            |         |  |  |
| 3.16 No. of patents rece   | ived this   | Toma                | of Dotont       |                 | Nive     |            |         |  |  |
| Year   |   | Nation              | 91              | Applied         | INUI     | mber       |         |  |  |
|  |   | Interna             | tional          | Granted Applied |          |            |         |  |  |
|  |   |                     | ercialised A    | Granted Applied |          |            |         |  |  |
| Granted  |   |                     |                 |                 |          |            |         |  |  |

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

| Total | International | National | State | University | Dist | College |
|-------|---------------|----------|-------|------------|------|---------|
| -     | -             | -        | -     | -          | _    | -       |

| 3.18 No. of faculty from the Institution Who are Ph. D. Guides and students registered under them  11 |
|---|
| 3.19 No. of Ph.D. awarded by faculty from the Institution 2   |
| 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 15 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 8 Any other   |

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

- Special camp at Yellamanda, Narasaropeta mandal from 02-01-2016 to 08-01-2016 for motivating the youth.
- Awareness To Villagers On Cashless Transactions.
- Organizing Medical Check-up camps and Blood Donation Camps.
- Awareness Program On Digital Financial Literacy Campaign. Third International Yoga Day was celebrated on 21<sup>st</sup> June, 2016 and Yoga.
- Voters day program to create awareness on power of vote among the young students.

# Criterion - IV

# 4. Infrastructure and Learning Resources

## 4.1 Details of increase in infrastructure facilities:

| Facilities   | Existing | Newly      | Source of | Total |
|--|----------|------------|-----------|-------|
|  |          | created    | Fund      |       |
| Campus area  | 12.04    | -          | -         | 12.04 |
|  | Acres    |            |           | Acres |
| Class rooms  | 62       | 1          | Self      | 63    |
|  |          |            | Financing |       |
| Laboratories                                       | 62       | 2          | Self      | 64    |
|  |          |            | Financing |       |
| Seminar Halls                                      | 7        | -          | Self      | 7     |
|  |          |            | Financing |       |
| No. of important equipments purchased              |          | 2          | Self      | 7     |
| $(\geq 1-0 \text{ lakh})$ during the current year. |          |            | Financing |       |
| Value of the equipment purchased during            |          | 7.17 lakhs | Self      | 7.17  |
| the year (Rs. in Lakhs)                            |          |            | Financing | lakhs |
| Others   |          |            |           |       |

# 4.2 Computerization of administration and library

- All the computers in the office have internet facility both wired and Wi-Fi.
- All library process is automated by using LIBSYS Software
- All the accounts are computerized by using EZ software
- Digital Library for E-Journals
- Wi-Fi facility for the Library.

# 4.3 Library services:

|                 | Exis  | sting   | Newly | added  | Total |         |  |
|-----------------|-------|---------|-------|--------|-------|---------|--|
|                 | No.   | Value   | No.   | Value  | No.   | Value   |  |
| Text Books      | 41112 | 8222400 | 1161  | 348300 | 42273 | 8570700 |  |
| Reference Books | 5776  | 1155200 | 666   | 171700 | 6442  | 1326900 |  |
| e-Books         | 500   | 11500   | 100   | -      | 600   | 11500   |  |
| Journals        | 102   | 182100  | 12    | 22000  | 114   | 204100  |  |

| e-Journals       | 250+    | 728676 | 28  | 188417 | 278  | 917093 |
|------------------|---------|--------|-----|--------|------|--------|
| Digital Database | DELNET  | 11500  | -   | -      |      | 11500  |
| CD & Video       | 1000    | -      | 500 |        | 1500 | -      |
| Others (specify) | NPTEL   |        |     |        |      |        |
|                  | 8TB     |        |     |        |      |        |
|                  | audio   |        |     |        |      |        |
|                  | Lessons |        |     |        |      |        |

4.4 Technology up gradation (overall)

|          | Total<br>Computers | Computer<br>Labs | Internet | Browsing<br>Centres | Computer<br>Centres | Office | Depart<br>-ments | Other<br>s |
|----------|--------------------|------------------|----------|---------------------|---------------------|--------|------------------|------------|
| Existing | 1054               | 22               | 64Mbps   | 4                   | 2                   | Yes    | All              | -          |
| Added    | -                  | -                | -        | -                   | -                   | -      | -                | -          |
| Total    | 1054               | 22               | 64Mbps   | 4                   | 2                   | Yes    | All              | -          |

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

- Internet access is provided to all faculty and students with 64 Mbps connectivity with Wi-Fi facility.
- Students are encouraged to use internet for their project work.
- We have EZ School Software in the Institution for e-Governance of students, faculty and staff.

4.6 Amount spent on maintenance in lakhs:

i) ICT 24, 30, 000

ii) Campus Infrastructure and facilities 47,61, 384

iii) Equipments 74,52,072

iv) Others 3,09,08,525

**Total:** 4, 55, 51,981

# Criterion - V

# 5. Student Support and Progression

- 5.1 Contribution of IQAC in enhancing awareness about Student Support Services
  - Training programs are conducted periodically to create the awareness and to enhance the entrepreneurial skills
  - Publishing college/Department Newsletter to encourage the new trends and events happened in the institute level.
  - Microsoft innovation center is established in the campus.
  - CRT Programmes were conducted to enhance the skill develop in the students.

#### Canteen

- Clean Hygienic cafeteria is available for both students and faculty providing nutritious food for supporting day scholar students.
- A computer lab with internet facility is provided in girls hostel inside the campus.
- More number of bus services provided from different areas in addition to existing services.

#### **Stationary Shop**

Stationary Shop is available in campus. The basic requirements like stationeries, lab books are kept for sales in college premises.

#### Others

Repographic facilities are enhanced in addition to existing facilitiy.

- 5.2 Efforts made by the institution for tracking the progression
  - Day to day attendance in theory & lab classes and intimation to the parents
  - Each Faculty member is appointed as a mentor for twenty students.
  - The mentor maintains the complete record of the student.
  - All the student counselors are involved in both academic and personal counseling for a group of 20 students.
  - A separate counseling period was allocated.
  - Suggestions and feedback are the index to understand the progression of students.
  - Result analysis after each mid and semester examinations.
  - Conducting carrier guidance programs.

| 5.3 (a) Total Number of stu | dents    | UG  | PO   | J :       | Ph. D.    | . ( | )thers | , |
|-----------------------------|----------|-----|------|-----------|-----------|-----|--------|---|
|                             |          | 855 | 5 29 | 5         |           |     |        |   |
| (b) No. of students outsi   | -        |     |      |           |           |     |        |   |
| (c) No. of international    | students |     | -    |           |           |     |        |   |
| Men No %<br>817 71.05       | Wome     | en  |      | No<br>333 | %<br>28.9 | 5   |        |   |
| Last Year                   |          |     |      |           |           |     |        |   |
| - 1                         |          | _   | _    | _         |           |     | ~      | Г |

|         | Last Year |    |     |                          |     |         | This Year |    |     |                          |       |
|---------|-----------|----|-----|--------------------------|-----|---------|-----------|----|-----|--------------------------|-------|
| General | SC        | ST |     | Physically<br>Challenged |     | General | SC        | ST | OBC | Physically<br>Challenged | Total |
| 503     | 41        | 8  | 202 |                          | 758 | 657     | 80        | 8  | 415 | 1                        | 1150  |

Demand ratio Dropout %

- 5.4 Details of student support mechanism for coaching for competitive examinations (If any)
  - Personality development courses and student practice courses are part of the curriculum.
  - In-house GATE coaching classes were conducting by internal and external subject experts.
  - Eminent resource persons were invited to train in communication skills.
  - Study material for competitive examinations is made available in library.

| No. of students beneficiaries |          |                 | 424       |        |   |        |    |
|-------------------------------|----------|-----------------|-----------|--------|---|--------|----|
| 5.5 No. of stude              | ents qua | alified in thes | se examin | ations |   |        |    |
| NET                           |          | SET/SLET        |           | GATE   | 9 | CAT    |    |
| IAS/IPS etc                   |          | State PSC       |           | UPSC   |   | Others | 23 |
|                               |          | •               |           |        |   |        |    |

# 5.6 Details of student counselling and career guidance

- Student counseling and career guidance is done.
- Awareness programs on opportunities of higher education in India and abroad by In house team and by external professional agencies.
- Personality development programs are organized.
- Student counselling process has successfully resulted in improved student performance.
- Training and Placement Cell conducted CRT classes for better Employment of students.
- Students are motivated to participate in various competitions conducted by different Universities and colleges.
- Counselling by psychologist and psychiatrist on personal problems.
- Counselling is provided to the new comers for choosing a better branch during their admission.

# 5.7 Details of campus placement

|                                       | On campus                             |                              | Off Campus                   |
|---------------------------------------|---------------------------------------|------------------------------|------------------------------|
| Number of<br>Organizations<br>Visited | Number of<br>Students<br>Participated | Number of<br>Students Placed | Number of Students<br>Placed |
| 24                                    | 683                                   | 414                          | 108                          |

# 5.8 Details of gender sensitization programmes

- Women empowerment and grievances cell was formed in the college
- International Women's day was conducted on 08-03-2016
- Student competitions on women empowerment was conducted.

# 5.9 Students Activities

| 5.9.1 No. of students participated in Sports, Games and other e | vents |
|---|-------|
|---|-------|

| State/ University level 53                      | National level 56 | nternational 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 3 National level 6 International level                        |   |                    |             |  |
| Cultural: State/ University level National level International level                  |   |                    |             |  |
| 5.10 Scho   | larships and Financial Support  |                    |             |  |
|   |   | Number of students | Amount      |  |
|   | Financial support from institution                                      |                    |             |  |
|   | Financial support from government                                       | 2721               | 9,37,09,000 |  |
|   | Financial support from other sources                                    |                    |             |  |
|   | Number of students who received<br>International/ National recognitions |                    |             |  |
| 5.11 Student organised / initiatives Fairs:   |   |                    |             |  |
| State/ University level National level 1 International level                          |   |                    |             |  |
| Exhibition: State/ University level 1 National level International level              |   |                    |             |  |
| 5.12 No. of social initiatives undertaken by the students 6                           |   |                    |             |  |
| 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 of the Institute:**

• To Groom Narasaraopeta Engineering College, the first Engineering college in Palnadu region of Andhra Pradesh, as a Technological Hub and Gateway of knowledge with Indian values and Universal standards.

#### Mission of the institute:

- To employ faculty and staff with performance of Excellence and Dedication.
- To develop advanced state-of-the-art Technological Laboratories with latest equipment and infrastructure.
- To establish huge and world class Library with International and National Journals and Books.
- To have Advanced R&D through interaction with highly reputed industries and academically premier institutes.
- To start more post graduate programs in thrust areas and finally go to the Deemed University status.
- 6.2 Does the Institution has a management Information System

Yes.

- 6.3 Quality improvement strategies adopted by the institution for each of the following:
- 6.3.1 Curriculum Development
  - Training the faculty to adopt the new OBE system for fine tuning the university curriculum with PEO's, PO's and CO's
  - Tracking the achievement levels of CO's
  - Feed backs are obtained from all stake holders on existing JNTU Kakinada curriculum to take necessary steps to fill the gaps and to submit recommendations to university for upgradation of curriculum during the next revision.

# 6.3.2 Teaching and Learning

- Encouraging practical assignments and project based learning
- Increasing self-learning component
- Remedial classes for slow learners
- Involving fast learners in research activities
- Promoting the usage of ICT.
- Implementing OBE
- NPTEL Lectures were arranged to create wide exposure.
- Arranging training on pedagogy and assessing its impact on teaching-learning.
- Arranging Guest Lectures or Workshop to fill curriculum gaps and content beyond syllabus.
- Encouraging Faculty and students towards online certification course.

#### 6.3.3 Examination and Evaluation

- Continuous internal evaluation
- Teacher specific methods for internal evaluation
- Continuous internal evaluation
- Display of internal answer sheets to the students.
- Display of consolidated internal marks to the students in respective department notice board.
- Phase wise evaluation of project work.

## 6.3.4 Research and Development

- 85 journal publications in peer-reviewed journals.
- Incentives for publications
- Study leaves for research programmers,
- Digital library with E-Journals and internet facility
- Upgraded the labs by providing additional equipment and software.
- R&D Cell with convener was established to give support in applying for funding agencies.
- Encouraging faculty to register for Ph.D
- Providing incentives to faculty for presentation of research papers, attending conferences, workshops, etc.
- Conducting various awareness programs by experts.

# 6.3.5 Library, ICT and physical infrastructure / instrumentation

# Library

- Journals and digital databases are subscribed through IEL online, DELNET, INFLIBNET, ASME, ASCE.
- OPAC Software for library management
- NPTEL web courses and video courses are being used by staff and students to enhance their skills
- Digital Library with 30 systems was established

#### **Infrastructure**

- Established E- class rooms in all departments.
- Providing required computational facilities with sufficient number of computer and peripherals.
- Wi-Fi connectivity is provided in the campus
- Providing the various amenities such as canteen, indoor and outdoor game facilities, Gym centre, medical centre, hostels and transport.
- CCTV cameras have been installed within and around the campus for security purposes

## 6.3.6 Human Resource Management

- Decentralisation of Powers
- Faculty are being deputed for Management capacity enhancement programmes
- Faculty are encouraged to improve their qualifications.
- Faculty development programs are organised to enhance their knowledge and skilss.
- Many of the faculty are involved in academic, administrative and social responsible Activities

# 6.3.7 Faculty and Staff recruitment

- To maintain the faculty as per the approved SFR Whenever there are vacancies notifications are given through newspapers and the recruitment is done by the Management through college staff selection committee as per the rules and regulations.
- Well qualified and experienced faculties are recruited as per the norms of AICTE.
- The appointment of faculty will be ratified by the university through a duly constituted selection committees.

# 6.3.8 Industry Interaction / Collaboration

- Experts from Industry are invited for interaction with faculty and students.
- Guest lectures are arranged from industries and academicians
- MOUs are signed with local industries for mutual benefit
- Students are encouraged to undergo internships
- Industrial visits are arranged.
- Microsoft innovation centre collaboration agremnet

## 6.3.9 Admission of Students

- 70% of the admissions are done by Govt. of Andhra Pradesh through web counseling.
- Vacancies if any will be filled through spot admissions.
- Remaining 30% of the seats are filled by the Management based on the guidelines given by Govt. of Andhra Pradesh

#### 6.4 Welfare schemes for

6.5 Total corpus fund generated

| Teaching     | <ul> <li>Free transport facilities for local faculty</li> <li>Concession for Hostel &amp; Transport facility for outstation faculty</li> <li>Maternity Leave will be provided for female faculty</li> <li>Laptops are provided for HOD's</li> <li>Special CL for Research study</li> <li>Group Insurance Scheme is provided to teaching staff</li> </ul>  |
|--------------|---|
| Non-teaching | <ul> <li>Free transport, Medical leaves etc.,</li> <li>Employee provident Fund (EPF) and ESI will be provided for Nonteaching staff</li> <li>Maternity Leave will be provided for female Non-teaching staff</li> </ul>  |
| Students     | <ul> <li>Concessional bus transport and scholarships</li> <li>Offering financial support from college management for poor &amp; deserving students</li> <li>Gold medals and Cash prizes will be given to student for Academic toppers.</li> <li>Sponsoring the students to participate in co-curricular and extracurricular activities.</li> <li>Canteen facility with subsidized rates.</li> </ul> |

| NEC   | NAR | ASAR | AOI | PFT |
|-------|-----|------|-----|-----|
| INEC. |     | лэли | ли  |     |

| 6.6 Whether annual financial audit has been done | Yes | <b>√</b> | No |  |  |
|--|-----|----------|----|--|--|
|--|-----|----------|----|--|--|

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

| Audit Type     | External |                        | Internal |           |
|----------------|----------|------------------------|----------|-----------|
|                | Yes/No   | Agency                 | Yes/No   | Authority |
| Academic       | Yes      | A two member committee | Yes      | IQAC      |
| Administrative | Yes      | A two member committee | Yes      | IQAC      |

| 6.8 Does the University/ Autonomous College de | clares results within 30 days?             |
|--|--|
| For UG Programmes                              | Yes   No                                   |
| For PG Programmes                              | Yes   No                                   |
| 6.0 What afforts are made by the University/   | Autonomous College for Examination Reforms |

- 6.9 What efforts are made by the University/ Autonomous College for Examination Reforms?
  - Indigenous software tool for Examination system
  - Revaluation facility is provided
  - Bar coding
  - Paper setting and Valuation is done by External Faculty
  - Encrypted question papers will be provided by the university which will be decrypted before one hour of the schedule time of the examinations.
- 6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?
  - Recommended the application of college to UGC for grant of autonomous status from the academic year 2016-17
  - University representatives visiting the institution periodically
  - Motivating research activities by granting Research Centres.
  - Encouraging innovations in teaching, learning and research activities
  - The affiliating University, JNTUK nominates its representatives and subject experts for academic council and Board of studies to design the curriculum and provide the suggestions to improve the quality of education in the college the eminent personalities for the college and to promote the autonomy.

# 6.11 Activities and support from the Alumni Association

- Active registered alumni association is present.
- Alumni interactions through website and when they visit the campus.
- Guest lectures are conducted by Alumni
- Extending technical help to students
- Alumni meets are conducted periodically to get feedback and to improve the number of placements

# 6.12 Activities and support from the Parent – Teacher Association

- Parent Teacher interactions at department level are conducted
- Feedback from parents is collected.
- Parent teacher meet is conducted every year with principal, staff and management members, where the discussion is open on any academic and administrative matters.
- Feedback is taken from parent and analyzed for further improvement
- Parents meet the respective counsellors and HOD's regularly and made necessary suggestions

## 6.13 Development programmes for support staff

- Staff are deputed for domain related hands on training programmes
- ICT training and encouraging for Higher studies.
- Supporting staff are encouraged to go for training takes

# **Energy Conservation**

- Awareness among the students and staff on energy conservation is created by displays at appropriate places.
- Switching off all the electrical utilities whenever and wherever they are not required.
- All the departments are equipped with appliances and equipment that consume low power.
- The buildings are fitted with glass windows for maximum utilization of natural light.
- The college has widespread arrangements for power distribution with a Control panel and Power room.

## Use of Renewable Energy

• Steps are being taken for the utilization of solar power in the college campus.

#### Water Harvesting

• To minimize the wastage of water resources and to improve the water table, the rain water is led into the pond located in the campus.

# Efforts for Carbon neutrality

 Care is taken to restrict vehicle entry into the campus and specific parking area is allotted for faculty and students. Green campus

# Plantation/Greening Drives

- Dedicated horticulturist to develop adequate greenery on the campus.
- 40% green covers on campus.
- Plantation programme has been taken up by the NSS unit for increasing the Green Cover in the college and nearby villages.
- The NSS unit regularly conducts awareness programmes on plastic free environment in and around the village.

## Hazardous Waste Management and e-Waste Management

- The condemned batteries are disposed through outside agencies
- Awareness programmes are initiated on waste management.

# 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.
  - Performance appraisal for faculty
  - Financial Incentives for research publications
  - Increased students participations in workshops and Conferences
  - Involvement of students in various committees has been increased.
  - Practice of conducting Guest lectures, Industrial visits and Industrial training has been enhanced.
  - Value addition by certification programs as well as technology training is focused by various departments.
  - More Practical orientation is supported through Mini-projects, Technical seminars.
  - Industry Internship is encouraged for all students
  - Continuous inputs from all stakeholders like Alumni, Academicians and Industry experts are taken to identify the curriculum gaps on regular basis and take necessary actions.
  - Additional Training on communication skills and soft skills is further increased.
  - Research aptitude among the students is inculcated through project implementations.
  - Improved Membership in various professional bodies.
  - Improved class room facilities with ICT tools.

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

| Plain of Action   | Action Taken  |
|---|---|
| Nominating academic coordinators for each year at UG level to look after the progress of students and their class attendance along with the class teachers. | Academic coordinators at the level of Professors / Associate Professors were nominated for I, II, III & IV B.Tech in every department. Students attendance and progress record was closely monitored every fortnight by the Academic Coordinator. |
| Grouping the faculty members in to three or four based on specialization in each department.  | In every department faculty members were grouped into three or four depending on their specialization. Each group was headed by a Senior Faculty.  The course files, assignments, etc. prepared   |

|   | by the junior faculty members were           |
|---|--|
|   | verified and suitable guidance for           |
|   | improvement was provided by the              |
|   | Group leaders.                               |
| Allocating the Course coordinators for    | Course coordinators are allocated for        |
| Courses of multi section program.         | courses of multi section program.            |
| Organizing subject based seminars and     | Subject based seminars and subject based     |
| subject based workshops.                  | workshops are organized by the departments.  |
| Involving students in various committees. | Involved students in various committees for  |
|   | better Improvement in the system.            |
|   | Exposed students to various industrial       |
| Exposing students to various industrial   | processes through Guest lectures, Industrial |
| processes.                                | visits and Internship.                       |

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

#### **Need based curriculum**

- Courses beyond curriculum are offered to filled the curricular gaps for
- Enhancing student skills by active learning tools

## **Mentoring program**

• Mentoring program is effectively implemented to encourage student for regular interactions with the faculty to provide solutions for their academic and non-academic problems

# 7.4 Contribution to environmental awareness / protection

- Observance of world population day programme was organized by NSS on 11-7-15
- Adult literacy drive was conducted at adopted village
- Observance of world human rights day is conducted on 10-12-15
- Rotary club conducted a rally on AIDS day during 1-12-15
- Environmental Awareness Programme are organised for students as well as faculty from time to time.
- Separate cell i.e. Ground & Gardening exists for protection of environment and keep the trees alive and green and to feed them with manure.
- E-waste is followed as per Govt. policy.
- Solar system is in place in the form of street lights etc.
- Dustbins have been kept at all prominent places to keep environment eco-friendly.
- Water harvesting system is in process.
- No vehicles are allowed to enter in academic area.

| 7.5 Whether environmental audit was conducted?     | Yes          | No √         |           |           |
|--|--------------|--------------|-----------|-----------|
| 7.6 Any other relevant information the institution | wishes to ac | dd. (For exa | mple SWOT | Analysis) |

# **Strengths:**

- Well qualified faculty
- One of the most preferred, engineering colleges situated in a serene rural place of Palnadu region of Andhra Pradesh.
- Learned, pro-active and visionary management readily responding to the needs and aspirations of all stake holders towards quality education, placements and good governance.
- A highly decentralized administration, governed by a well-defined and transparent quality policy. Managed by different committees formulated satisfying the requirements of statutory bodies with Governing Body (GB) as the highest policy making body.
- College was accorded permanent affiliation by JNTUK, Kakinada in 2014
- 50% of the young faculty members have undergone pedagogical training programs on various subjects.
- National Board of Accreditation (NBA) accorded the status of Accreditation twice to the eligible UG B.Tech programs in 2009 and and 2013.
- Good financial discipline through appropriate budgeting and allocation.
- Aesthetically designed, spacious and fully computerized library.
- Feedback taken periodically from students, parents, alumni and other stake holders is given due weightage for taking corrective measures to strengthen the teaching learning process.
- Semester scheme with continuous assessment.
- Effective Teaching-learning process with use of ICT.
- Good ambience through infrastructure facilities.
- Ed-Vantage platinum partner of Microsoft and established an innovation centre
- MOUs with Industries.

#### Weaknesses:

- Lack of international exposure to compete at global level
- Lack of Industry- Institute interaction in a purposeful manner as college located in rural area.
- Inadequate research activities such as sponsored research projects

# **Opportunities:**

- Introduction of new P.G programmes in thrust areas
- Enhanced Industry Institute interaction
- Library enhancement to access international knowledge resources.
- Inculcating the culture of entrepreneurship to rural youth through technology transfer.
- Enhanced support from Alumni in institutional development and placement opportunities.
- Situated very near to state capital of newly divided Andhra Pradesh by establishment of more industries.

#### **Threats:**

- Competition from other educational institutions
- Financial management because of fees reimbursement scheme under A.P state government
- Escalation of cost of education prohibiting the underprivileged section (rural students) of the society to opt for the technical education
- Merit of incoming students is getting affected due to opening of many new engineering colleges in the region.
- Bright students not opting teaching as profession thus making difficult in replacing the retired teacher with an equally intelligent new entrant, thus declining the supply of quality faculty

# 8. Plans of institution for next year

| Renewal of NBA accreditation  Establishment of research centres  Establishment of incubation centre to promote startups.  Undertaking funded R&D major projects and consultancy Increasing the number of journal and conference publication.  Strengthens alumni association.  Planning to introduce certificate courses, workshops, and Enhancing the student's communication skills.  Planning to increase the number participation in online ce such as NPTEL Etc.  Improving the security and discipline in the campus.  Adapting innovative delivery methods  Improving the faculty student ratio  Organizing Campus Recruitment Training programs to Ento enhance their employability skills | short term courses.  |
|--|--|
| Establishment of incubation centre to promote startups.      Undertaking funded R&D major projects and consultancy Increasing the number of journal and conference publication.      Strengthens alumni association.      Planning to introduce certificate courses, workshops, and Enhancing the student's communication skills.      Planning to increase the number participation in online ce such as NPTEL Etc.      Improving the security and discipline in the campus.      Adapting innovative delivery methods     Improving the faculty student ratio      Organizing Campus Recruitment Training programs to En  | short term courses.  |
| <ul> <li>Undertaking funded R&amp;D major projects and consultancy</li> <li>Increasing the number of journal and conference publication</li> <li>Strengthens alumni association.</li> <li>Planning to introduce certificate courses, workshops, and</li> <li>Enhancing the student's communication skills.</li> <li>Planning to increase the number participation in online ce such as NPTEL Etc.</li> <li>Improving the security and discipline in the campus.</li> <li>Adapting innovative delivery methods</li> <li>Improving the faculty student ratio</li> <li>Organizing Campus Recruitment Training programs to En</li> </ul>   | short term courses.  |
| <ul> <li>Increasing the number of journal and conference publication.</li> <li>Strengthens alumni association.</li> <li>Planning to introduce certificate courses, workshops, and</li> <li>Enhancing the student's communication skills.</li> <li>Planning to increase the number participation in online ce such as NPTEL Etc.</li> <li>Improving the security and discipline in the campus.</li> <li>Adapting innovative delivery methods</li> <li>Improving the faculty student ratio</li> <li>Organizing Campus Recruitment Training programs to En</li> </ul>   | short term courses.  |
| Strengthens alumni association.     Planning to introduce certificate courses, workshops, and Enhancing the student's communication skills.     Planning to increase the number participation in online ce such as NPTEL Etc.     Improving the security and discipline in the campus.     Adapting innovative delivery methods     Improving the faculty student ratio     Organizing Campus Recruitment Training programs to En  | short term courses.  |
| <ul> <li>Planning to introduce certificate courses, workshops, and</li> <li>Enhancing the student's communication skills.</li> <li>Planning to increase the number participation in online ce such as NPTEL Etc.</li> <li>Improving the security and discipline in the campus.</li> <li>Adapting innovative delivery methods</li> <li>Improving the faculty student ratio</li> <li>Organizing Campus Recruitment Training programs to En</li> </ul>  |  |
| <ul> <li>Enhancing the student's communication skills.</li> <li>Planning to increase the number participation in online ce such as NPTEL Etc.</li> <li>Improving the security and discipline in the campus.</li> <li>Adapting innovative delivery methods</li> <li>Improving the faculty student ratio</li> <li>Organizing Campus Recruitment Training programs to En</li> </ul>   |  |
| such as NPTEL Etc.  Improving the security and discipline in the campus.  Adapting innovative delivery methods  Improving the faculty student ratio  Organizing Campus Recruitment Training programs to Et   | rtification courses  |
| <ul> <li>Improving the security and discipline in the campus.</li> <li>Adapting innovative delivery methods</li> <li>Improving the faculty student ratio</li> <li>Organizing Campus Recruitment Training programs to Er</li> </ul>   |  |
| Improving the faculty student ratio     Organizing Campus Recruitment Training programs to En  |  |
| <ul> <li>Organizing Campus Recruitment Training programs to Er</li> </ul>  |  |
| to enhance their employability skills  | advanta at danta   |
|  | igineering students  |
| Name Dr. S. B. Venkata Siva Name : Dr. M.  | Sreenivasa Kumar   |
| Vental Siva  | Me   |
|  | THE  |
| Signature of the Coordinator, IQAC Signature of the C  | Champer Spic Vene PRINTERING COLLY ARAOPETA ENGINEERING COLLY (AUTONOMOUS) (AUTONOMOUS)  |
|  | PRINCIPLERING COLL   |
| ODETA EN CALLED  | ARAOPETA ENGINEETING (AUTONOMOUS) (AUTONOMOUS) (AUTONOMOUS) (AUTONOMOUS) (ARASARAOPET - 522 60) ARASARAOPET, A.P. Guntur (Dist.), A.P. |
| William Van  | ARASARAOPET - SEP.<br>Guntur (Dist.), A.P.   |
| (Autonomous)   | ARASMur (Dist.)  |
|  | O.   |

\*\*\*