



# YEARLY STATUS REPORT - 2021-2022

## Part A

### Data of the Institution

<b>1.Name of the Institution</b>	<b>Narasaraopeta Engineering College</b>
• Name of the Head of the institution	<b>Dr. M. Sreenivasa Kumar</b>
• Designation	<b>Principal</b>
• Does the institution function from its own campus?	<b>Yes</b>
• Phone No. of the Principal	<b>08647239903</b>
• Alternate phone No.	<b>08647239905</b>
• Mobile No. (Principal)	<b>9440757039</b>
• Registered e-mail ID (Principal)	<b>principal@nrtec.ac.in</b>
• Address	<b>kotappakonda road, yallamnda post</b>
• City/Town	<b>Narasaraopet</b>
• State/UT	<b>Andhra Pradesh</b>
• Pin Code	<b>522601</b>
<b>2.Institutional status</b>	
• Autonomous Status (Provide the date of conferment of Autonomy)	<b>19/04/2016</b>
• Type of Institution	<b>Co-education</b>
• Location	<b>Rural</b>

- Financial Status **Self-financing**
- Name of the IQAC Co-ordinator/Director **Dr. B Venkata Siva**
- Phone No. **08647239923**
- Mobile No: **9692464540**
- IQAC e-mail ID **iqac@nrtec.in**

**3. Website address (Web link of the AQAR (Previous Academic Year))** <https://www.nrtec.in/wp-content/uploads/2022/06/NAAC-AQAR-2020-21.pdf>

**4. Was the Academic Calendar prepared for that year?** **Yes**

- if yes, whether it is uploaded in the Institutional website Web link: <https://www.nrtec.in/academic-calendar/>

### 5. Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
<b>Cycle 1</b>	<b>A</b>	<b>3.05</b>	<b>2015</b>	<b>03/03/2015</b>	<b>31/12/2021</b>
<b>Cycle 2</b>	<b>A+</b>	<b>3.29</b>	<b>2022</b>	<b>12/07/2022</b>	<b>11/07/2027</b>

**6. Date of Establishment of IQAC** **20/12/2012**

**7. Provide the list of Special Status conferred by Central and/or State Government on the Institution/Department/Faculty/School (UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC, etc.)?**

Institution/ Department/Faculty/School	Scheme	Funding Agency	Year of Award with Duration	Amount
<b>nil</b>	<b>nil</b>	<b>nil</b>	<b>Nil</b>	<b>nil</b>

**8. Provide details regarding the composition of the IQAC:**

- Upload the latest notification regarding the composition of the IQAC by the HEI [View File](#)

**9. No. of IQAC meetings held during the year** **4**

- Were the minutes of IQAC meeting(s) and compliance to the decisions taken uploaded on the institutional website? **Yes**

- If No, please upload the minutes of the meeting(s) and Action Taken Report **No File Uploaded**

**10. Did IQAC receive funding from any funding agency to support its activities during the year?** **No**

- If yes, mention the amount

**11. Significant contributions made by IQAC during the current year (maximum five bullets)**

Programs/Seminars conducted on OBE and NAAC for quality improvement in academics and administration

Focused on improving the quality in education by conducting periodical Academic Audit by internal and external experts

Conducted 70+ seminars / workshops, FDPs, Guest Lectures, training / certification programs

Received NBA (Tier-I) for CSE and ECE

Received NAAC A+ and NIRF Rank (251-300 Band)

**12. Plan of action chalked out by IQAC at the beginning of the academic year towards quality enhancement and the outcome achieved by the end of the academic year:**

Plan of Action	Achievements/Outcomes
It is proposed to participate in Times of India Survey 2021	Chairperson IQAC informed that, Narasaraopeta Engineering College ranked 4th among Top 10 private Engineering in AP
It is proposed to apply for various project funding agencies.	IQAC chairman informed that AICTE has sanctioned Rs. 10,313,73 for "MODROB - VLSI Lab" to ECE department.
It is proposed to have MOUs with reputed organizations and industries.	Chairperson IQAC announced that NEC has done 14 MoUs with Industries and academic institutions such as LDR Survey Pvt Ltd, Falcon IT Training & Educational Services LLP, Axis Global Institute of Industrial Training, Vectra Techno soft Pvt Ltd, SASI Engineering College, Indian Metal Works.
It is proposed to conduct Alumni meet in the month of July 2021.	IQAC coordinator informed that virtual Alumni meet was successfully conducted on 11-7-2021.
It is proposed to conduct International Conference by department during the month of July and August 2021.	IQAC coordinator informed that the departments have conducted International Conference in the months of July and August 2021.
It proposed to conduct online webinar on IPR & IT's role in Research and innovation and Startup, legal and Ethical steps	1. IQAC coordinator informed that IQAC & IIC has organized Webinar on How to plan for Startup, legal and Ethical steps on 25-8-2021. 2. IQAC coordinator informed that IQAC & IIC has organized Webinar on IPR & IT's role in Research and innovation on 24-9-2021.
It is proposed to apply for various project funding agencies.	IQAC chairman informed that Sri Venkateswara Equipment Co, Hyderabad has sanctioned Rs. 1, 50,000 for Developing Experiments for Microstrip

	Communication Trainer, Satellite Communication Trainer and Mobile Handset Trainer to ECE department.
Chairperson IQAC proposed to conduct R20 BOS meeting for all branches in the upcoming months.	IQAC coordinator informed that R20 2nd BOS meeting is conducted for civil department on 30-9-2021, R20 2nd BOS meeting for CSE and IT departments are conducted on 4-10-2021 and R20 2nd BOS meeting for AI department is conducted on 21-10-2021.
Chairperson IQAC informed that all senior faculty need to publish book for first year students, HODs to coordinate.	Chairperson IQAC informed that 30 books were published by faculty members and appreciated them for their contribution.
IQAC chairman informed that NIRF notification was released and instructed NIRF coordinator to start preparations for applying of NIRF ranking, HODs to cooperate in this regarding.	Received NIRF Rank (251-300 Band)

**13. Was the AQAR placed before the statutory body?** Yes

- Name of the statutory body

Name of the statutory body	Date of meeting(s)
Governing Body	25/03/2023

**14. Was the institutional data submitted to AISHE ?** Yes

- Year

**Part A****Data of the Institution**

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<ul style="list-style-type: none"> <li>Name of the statutory body</li> </ul>	
Name of the statutory body	Date of meeting(s)
<b>Governing Body</b>	<b>25/03/2023</b>
<b>14. Was the institutional data submitted to AISHE ?</b>	<b>Yes</b>
<ul style="list-style-type: none"> <li>Year</li> </ul>	
Year	Date of Submission
<b>2022</b>	<b>29/12/2022</b>

**15. Multidisciplinary / interdisciplinary**

The Vision of National Education Policy, to provide high quality education to develop human resources in our nation as global citizens, is well taken by Narasaraopeta Engineering College (NEC). A discussion among the faculty members were initiated on the key principles of NEP such as diversity for all curriculum and pedagogy with technological innovations in teaching and learning, encouraging logical decision making and innovation, critical thinking and creativity. In view of the NEP, NEC has initiated new interdisciplinary centres integrating different departments in addition to the existing inter/multidisciplinary research and academics. Academic programmes are redesigned to include Multidisciplinary / Interdisciplinary courses as electives. All programmes are designed in such a way that students get maximum flexibility to choose elective courses offered by other Departments. It can be said that the NEC is proactively working towards implementation of the suggestions given in the NEP. The fundamental aim of the National Educational Policy (NEP-2020) for higher education is to stop higher education fragmentation by transforming these institutions into massive interdisciplinary universities, colleges, and higher education institutions as Knowledge Hubs. The purpose of NEC, according to NEP standards, is to be accredited by the National Assessment Accreditation Board (NAAC) with a satisfactory grade and to strive for autonomy. In addition, the college's curriculum can contain multidisciplinary programmes. Our Institution, as part of its commitment to holistic and multidisciplinary education, has launched a value based course on Ethics for B.Tech, MBA, and MCA students, as well as life-skills and yoga sessions for all students on campus. Additionally, our students participate in community outreach initiatives such as organising health clinics, blood donation camp, and counselling, among other things. Leadership and effective governance and Leadership for Higher Education Institution: A) NEC is a self-finance private HEI affiliated to JNTUK, Kakinada and it aims to become independent self governing Institution pursuing innovation and excellence through accreditation and autonomy. B) NEC has a strategic Institutional development plan which is in alignment with the vision of NEP.

**16. Academic bank of credits (ABC):**

Academic bank credits are a key component of the NEP-2020 that academic institutions must implement. Integrating Higher Educational Institutions in a globalised space is critical and urgent as we move forward. We have already implemented for our

students to take online courses through National schemes like SWAYAM, NPTEL, Coursera, UdeMy etc, and is considering for credits earned against elective courses.

### **17.Skill development:**

In comparison to other nations, the outcome of the 12th five-year plan predicted that just 5% of Indian workers in the 19-24 age bracket got formal vocational education. The extension of vocational education in India is critical for hastening skill development. The NEP 2020 foreshadows a possibly explosive increase in skill development in the country through vocational education. All Higher Educational / Educational Institutions were expected to provide vocational education as part of their curriculum. Over the next few years, vocational education will be gradually integrated into schools and universities. NEC would walk on with an aim to ensure young students empowerment and cater to the engineering demands, NEC has a specific plan to follow: 1. In R20 regulation five skill courses are introduced in all branches of engineering, with focus on social inclusion and inclusive education 2. In R19 regulation also skill course is introduced in all branches of engineering 3. To develop workplace-related skills and attitudes through internship and on-the job training 4. To focus on inclusion of good practices and innovations in teaching-learning 5. Facilitating horizontal mobility of vocational students 6. To collaborate with industries for imparting practical skills and hands-on experience and design industry-relevant courses 7. To introduce new learning methods and digital tools, like Massive Open Online Courses (MOOC) and flipped classroom for training and empowering teachers 8. Developing and implementing a holistic assessment and evaluation system. 9. To measure the achievements of learning outcomes through various tools and methods as defined by outcome-based education system for 360-degree assessment and evaluation of students. NEC believes in giving equal dignity of people pursuing vocational courses and contribute in developing the workforce of a country..

### **18.Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course)**

The promotion of Indian arts and culture is beneficial not only to the country but also to individuals. Because engineering is a professional course, using English as a medium of communication and conducting course work in all engineering programmes is required. The institution, on the other hand, commemorates significant dates and hosts activities in regional languages to

instil a sense of regional pride. Republic Day and Independence Day are two examples of celebrations where students are addressed in their native languages. Engineers' Day and Teacher's Day are two of the most important days of the year. Women's Day is prominent day that are commemorated with cultural events. Sankranthi Sambaralu -Rangoli competition, Vinayaka Chavithi - Vinayaka idols preparation are the festivals that promote awareness of Indian National and Regional languages, as well as the culture associated with them. National commemorative days, such as Constitution Day and Yoga Day are also observed.

#### **19.Focus on Outcome based education (OBE):Focus on Outcome based education (OBE):**

Narasaraopeta Engineering College has adopted outcome-based education in accordance with the standards of the National Board of Accreditation with clearly stated Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs). All courses are designed with outcomes centred on cognitive abilities namely Remembering, Understanding, Applying, Analysing, Evaluating and Creating. Apart from the domain specific skills, learning outcomes at all levels ensure social responsiveness and ethics, as well as entrepreneurial skills so that student contribute proactively to economic, environmental and social well-being of the nation. The Course Outcomes (COs) are also aligned to the PO-PSO philosophy. All course syllabus have been designed with due consideration to macro-economic and social needs at large so as to apply the spirit of NEP. B.Tech. programmes of NEC was accredited by NBA in the year 2009, 2013, 2017, 2022 and is implementing OBE (URL:1.<https://www.nrtec.in/outcome-basededucation-obe/> 2.<https://www.nrtec.in/department-ofece-co-po-attainment/>). Students are assessed as per OBE attainment model. Community participation and service, environmental education, and value-based education are all part of an innovative curriculum that includes credit-based courses and projects. Lab exercises and mini projects with a focus on community engagement are included in the curriculum. Professional Ethics & Human Values is a value-based education course that is introduced at the I B.Tech I Semester level. Environmental Sciences is a course that looks at all areas of environmental sustainability. Thus, NEC has various community outreach initiatives such as Student Club, National Service Scheme (NSS)which caters extension activity to community.

#### **20.Distance education/online education:**

Due to Covid -19 pandemic, educational institutions in the country has increasingly involved in using the digital platforms

for engaging classes, conducting conferences and meetings. Keeping aside the negative impact of lack of face to face learning, online education has broken the geographical barriers creating interaction of experts and students from distant geographies. Opening up of the economy including that of educational institutions has paved the way of adopting hybrid mode of education combining online and offline resources. This can be considered as the new normal, which is envisaged in New Education Policy as well. Due to the experience gained during the closure period of Covid-19, access to online resources by educators and students will not be a constraint anymore. Students are encouraged to do MOOC courses at NEC which promotes online education. NEC has successfully imparted all its course content delivery in online mode during the Covid-19 pandemic with tools such as Zoom, MS Teams and Google class room etc.

### Extended Profile

#### 1.Programme

1.1 16

Number of programmes offered during the year:

File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>

#### 2.Student

2.1 944

Total number of students during the year:

File Description	Documents
Institutional data in Prescribed format	<a href="#">View File</a>

2.2 848

Number of outgoing / final year students during the year:

File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>

2.3 3554

Number of students who appeared for the examinations

conducted by the institution during the year:		
File Description	Documents	
Institutional Data in Prescribed Format	<a href="#">View File</a>	
<b>3.Academic</b>		
3.1	782	
Number of courses in all programmes during the year:		
File Description	Documents	
Institutional Data in Prescribed Format	<a href="#">View File</a>	
3.2	263	
Number of full-time teachers during the year:		
File Description	Documents	
Institutional Data in Prescribed Format	<a href="#">View File</a>	
3.3	263	
Number of sanctioned posts for the year:		
<b>4.Institution</b>		
4.1	696	
Number of seats earmarked for reserved categories as per GOI/State Government during the year:		
4.2	73	
Total number of Classrooms and Seminar halls		
4.3	1156	
Total number of computers on campus for academic purposes		
4.4	581.49	
Total expenditure, excluding salary, during the year (INR in Lakhs):		
<b>Part B</b>		

## CURRICULAR ASPECTS

### 1.1 - Curriculum Design and Development

1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which are reflected in Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the various Programmes offered by the Institution.

#### Factors for Curriculum Design:

Model curriculum prescribed by AICTE and APSCHE

Syllabi of various reputed Universities

POs and PEOs and PSOs of the concerned departments

Suggestions from industry experts and alumni,

Syllabi of various competitive exams such as GATE, IES

Implementation of Outcome Based Education (OBE) in the Curriculum:

Course Outcomes (COs) re-written as per the Bloom's Taxonomy and mapped against Program Outcomes (POs) and Program Specific Outcomes (PSOs). Outcome Based Education (OBE) assures that the graduating engineers possess all of the 12 POs, to compete on a worldwide scale and possessing the expected global qualities. Program Educational Objectives (PEOs) for each programme, which are evaluated based on alumni performance.

The Institute pays close attention to the attainment of PEO's, PO's, and PSO's for their respective programmes,

#### Process for Curriculum Design:

The suggested curriculum is then presented to the BOS (Board of Studies), which includes experts from industry, academia, alumni, and senior faculty members. Regulation R20 introduced Minor, and Honors programmes to allow students to become masters in their respective branches.

The institute introduced a CBCS and self learning courses using MOOC's platform through SWAYAM NPTEL, etc. Students are participating in an internship and value-added courses, which allows them to broaden their expertise in a variety of sectors.



File Description	Documents
Upload additional information, if any	<a href="#">View File</a>
Link for additional information	<a href="https://www.nrtec.in/wp-content/uploads/2022/11/1.1.1.pdf">https://www.nrtec.in/wp-content/uploads/2022/11/1.1.1.pdf</a>

**1.1.2 - Number of Programmes where syllabus revision was carried out during the year**

16

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	<a href="#">View File</a>
Details of syllabus revision during the year	<a href="#">View File</a>
Any additional information	No File Uploaded

**1.1.3 - Number of courses focusing on employability/entrepreneurship/ skill development offered by the Institution during the year**

278

File Description	Documents
Curriculum / Syllabus of such courses	<a href="#">View File</a>
Minutes of the Boards of Studies/ Academic Council meetings with approval for these courses	<a href="#">View File</a>
MoUs with relevant organizations for these courses, if any	No File Uploaded
Any additional information	<a href="#">View File</a>

**1.2 - Academic Flexibility****1.2.1 - Number of new courses introduced across all programmes offered during the year**

278

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
Institutional data in prescribed format (Data Template)	<a href="#">View File</a>

### 1.2.2 - Number of Programmes offered through Choice Based Credit System (CBCS)/Elective Course System

16

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
List of Add on /Certificate programs (Data Template)	<a href="#">View File</a>

### 1.3 - Curriculum Enrichment

1.3.1 - Institution integrates cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability, and Human Values into the curriculum

The curriculum is established, developed, and enhanced with the aim of integrating ardent issues with national and global implications for the long-term sustainability of future generations. Along with the Standard learning plan, the curriculum is enriched by including courses relevant to the environment sustainability, gender, Human Values, Professional Ethics and the constitution of India.

Environmental and sustainability courses like Non-Conventional Energy resource, Waste Water Management, Solid Waste Disposal are incorporated into the curriculum.

Special programs such as international Women's day, World cancer day, World AIDS day for girl students to achieve woman empowerment and gender sensitization

For a better society, engineering graduates should have strong human values and strong professional ethics. Values serve as individual supervisory notions and are an important component of self-concept. In the course, students must take an obligatory

course called "Human Values and Professional Ethics" in order to become altruistic and conscientious professionals. The constitution of India is incorporated into the curriculum with the goal of teaching students that the constitution embodies the ideals that India celebrates every day. Constitution day is celebrated every year to give awareness about constitution of India.

File Description	Documents
Upload the list and description of the courses which address issues related to Gender, Environment and Sustainability, Human Values and Professional Ethics in the curriculum	<a href="#">View File</a>
Any additional information	No File Uploaded

### 1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year

18

File Description	Documents
List of value-added courses	<a href="#">View File</a>
Brochure or any other document relating to value-added courses	<a href="#">View File</a>
Any additional information	No File Uploaded

### 1.3.3 - Number of students enrolled in the courses under 1.3.2 above

1797

File Description	Documents
List of students enrolled	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

### 1.3.4 - Number of students undertaking field work/projects/ internships / student projects

2825

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
<b>1.4 - Feedback System</b>	
<b>1.4.1 - Structured feedback and review of the syllabus (semester-wise / year-wise) is obtained from 1) Students 2) Teachers 3) Employers and 4) Alumni</b>	<b>A. All 4 of the above</b>
File Description	Documents
Provide the URL for stakeholders' feedback report	<a href="https://www.nrtec.in/student-feedback-analysis-atr/">https://www.nrtec.in/student-feedback-analysis-atr/</a>
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	<a href="#">View File</a>
Any additional information	<b>No File Uploaded</b>
<b>1.4.2 - The feedback system of the Institution comprises the following</b>	<b>A. Feedback collected, analysed and action taken made available on the website</b>
File Description	Documents
Provide URL for stakeholders' feedback report	<a href="https://www.nrtec.in/student-feedback-analysis-atr/">https://www.nrtec.in/student-feedback-analysis-atr/</a>
Any additional information	<a href="#">View File</a>
<b>TEACHING-LEARNING AND EVALUATION</b>	
<b>2.1 - Student Enrollment and Profile</b>	
<b>2.1.1 - Enrolment of Students</b>	
<b>2.1.1.1 - Number of students admitted (year-wise) during the year</b>	
<b>944</b>	

File Description	Documents
Any additional information	<a href="#">View File</a>
Institutional data in prescribed format	<a href="#">View File</a>

### 2.1.2 - Number of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.) as per the reservation policy during the year (exclusive of supernumerary seats)

539

File Description	Documents
Any additional information	<a href="#">View File</a>
Number of seats filled against seats reserved (Data Template)	<a href="#">View File</a>

## 2.2 - Catering to Student Diversity

2.2.1 - The institution assesses students' learning levels and organises special programmes for both slow and advanced learners.

Narasaraopeta Engineering College (NEC) provides quality education with a structured curriculum, as well as a solid foundation for the students' nourishment and overall development by strengthening their physical and intellectual abilities.

### Induction/Orientation programme:

As a part of introducing the institute and the teaching staff, the Management will arrange an induction programme for the newly joined 1st year students of Engineering. This orientation programme is intended to assist students in becoming acclimated to academic life in a higher education institution. Detailed orientation classes are conducted to bridge the gap between intermediate education and the foundation required for professional education.

### Slow Learners

The students are classified into two group's i.e., slow learners and Advanced learners. Students are classified as Advanced or Slow learners based on their Intermediate marks, and EAMCET rankings. Students' learning abilities are assessed in subsequent semesters through midterm exams, assignments, classroom interactions, and mentoring. Students are classified as advanced or slow learners

based on their performance in all of these areas.

### Advanced Learners

The students who distinguish themselves in academics by securing more than 70% marks come under the group of the Advanced Learners. They are also encouraged to register for certain courses for their academic and professional exposure.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

### 2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
28/10/2022	3717	263

File Description	Documents
Upload any additional information	<a href="#">View File</a>

### 2.3 - Teaching- Learning Process

2.3.1 - Student-centric methods such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences:

The teaching-learning process is the main objective and strength of the institute. Modern methods of teaching are adopted which ensure student-centric and rewarding experience. Experiential learning, participatory learning and problem-solving methodologies are well adopted to ensure the overall development of students.

#### 1) Pedagogical initiatives

Pedagogical initiatives are adopted to improve the quality of the teaching-learning process. The following teaching-learning methods are used in addition to 'CHALK and TALK' and 'PPT' presentations.

- **Experiential Learning**

- Problem based learning
- Learning Management System (Moodle)
- Project based Learning

## 2. E-Learning

E-learning is a structured course or learning experience that is delivered electronically and can include performance support content. The purpose of e-learning is to enable people to learn for personal fulfilment or to obtain a professional degree.

- Moodle and self-learning

## 3. Collaborative learning

- The college has several student chapters, including IEEE, IETE Student's Forum (ISF), IE, ISTE and CSI. All the departments frequently arrange guest lectures by experts from industry, academia, and research institutions.
- Industrial visits are arranged for the students to learn through interaction and observation of working methods and employment practices.
- In every semester workshops/seminars/guest lectures are arranged for the students.

Programs are conducted in collaboration with reputed organizations.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Link for additional Information	Nil

### 2.3.2 - Teachers use ICT-enabled tools including online resources for effective teaching and learning

Narasaraopeta Engineering College (NEC) being a technical campus, encourages intensive use of ICT-enabled tools including online resources for effective teaching and learning process.

The following ICT tools are used by the Institute

1. Projectors- Projectors are available in Classrooms
2. Desktop and Laptops are used for teaching
3. The laboratories, Seminar Halls, Auditorium, the conference Room and other rooms are well equipped with ICT facilities
4. Virtual labs are also used to conduct labs through simulations.
5. Learning abilities of students are enhanced with NPTEL, Guest Lectures, and Webinars.
6. Digital library resources include DELNET, NPTEL and IEEE.

Use of ICT by Faculty:

- Online quiz examinations are conducted through Moodle Software.
- Some faculty have developed e-tutorials for specific topics which helped in making the students understand the concepts very clearly. These are YouTube based which enable the students to replay as and when required.
- The blended Teaching Learning Process has enabled students learning effectively beyond class hours facilitating them in the improvement of academic performance and pass percentage.
- The overall use of ICT tools has greatly improved the teaching learning process resulting in improved academic performance of all the students.

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	Nil
Upload any additional information	<a href="#">View File</a>

### 2.3.3 - Ratio of students to mentor for academic and other related issues

#### 2.3.3.1 - Number of mentors

228



File Description	Documents
Upload year-wise number of students enrolled and full-time teachers on roll	<a href="#">View File</a>
Circulars with regard to assigning mentors to mentees	<a href="#">View File</a>

#### 2.3.4 - Preparation and adherence to Academic Calendar and Teaching Plans by the institution

##### Academic Calendar

The academic calendar is prepared by the Academic Cell and IQAC in consultation with the Controller of Examinations and in consonance with the norms of JNTUK, Kakinada, Andhra Pradesh State Council of Higher Education (APSCHE), under the close supervision of the Principal

Based on the academic calendar, each department prepares a plan at the department level, which includes the above and co-curricular activities such as workshops, conferences, seminars, online courses, projects, and guest lectures by experts from both industry and academia. Extra-curricular activities such as various literary and cultural clubs are also part of the plan. This academic calendar is strictly adhered to, by the college.

The Calendar contains a number of working days duly considering the national and public holidays, festivals, summer vacations, training, and placement activities. In the calendar, the duration of classwork, mid examinations, and end exam details are included.

##### Teaching Plan/Course Information Sheet (CIS)

The teaching plan is prepared for each course in consideration with a number of teaching hours keeping view of academic calendars. Heads of the departments conduct meeting with their respective faculty before the commencement of the semester and allocate the subjects. A unit-wise Course Information Sheet (CIS) is prepared by faculty members. The syllabus coverage is monitored by the concerned HODs.

File Description	Documents
Upload the Academic Calendar and Teaching Plans during the year	<a href="#">View File</a>

<b>2.4 - Teacher Profile and Quality</b>	
<b>2.4.1 - Number of full-time teachers against sanctioned posts during the year</b>	
263	
<b>File Description</b>	<b>Documents</b>
Year-wise full-time teachers and sanctioned posts for the year	<a href="#">View File</a>
List of the faculty members authenticated by the Head of HEI	<a href="#">View File</a>
Any additional information	No File Uploaded
<b>2.4.2 - Number of full-time teachers with PhD/ D.M. / M.Ch. / D.N.B Super-Specialty / DSc / DLitt during the year</b>	
62	
<b>File Description</b>	<b>Documents</b>
List of number of full-time teachers with PhD./ D.M. / M.Ch. / D.N.B Super-Specialty / D.Sc. / D.Litt. and number of full-time teachers for 5 years	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
<b>2.4.3 - Total teaching experience of full-time teachers in the same institution: (Full-time teachers' total teaching experience in the current institution)</b>	
5	
<b>File Description</b>	<b>Documents</b>
List of teachers including their PAN, designation, Department and details of their experience	<a href="#">View File</a>
Any additional information	No File Uploaded
<b>2.5 - Evaluation Process and Reforms</b>	
<b>2.5.1 - Number of days from the date of last semester-end/ year- end examination till the declaration of results during the year</b>	
15	

File Description	Documents
List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

### 2.5.2 - Number of students' complaints/grievances against evaluation against the total number who appeared in the examinations during the year

25

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	<a href="#">View File</a>
Upload any additional information	No File Uploaded

### 2.5.3 - IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA) have brought in considerable improvement in the Examination Management System (EMS) of the Institution

Examination reforms by the institution keeps its examination system open for modifications to strengthen it from time to time, to make the system fool proof. It also, address the grievances of students, if any. The institutional reforms activities keep the examination system at par with the examination reforms by AICTE.

The marks obtained by the students are posted in ERP and it is made visible to both students and parents. All the permissible pre-examination and post-examination tasks have been integrated with Examination Management System using BET tool of BEES/CAMU software

The college has been involving electronic processes in publishing the examination schedules in the college website, preparing database of eligible candidates, conducting examinations on pre-printed bar-coded and OMR answer booklets, and postexamination task- declaration of results, and issue of grade cards.

The question paper for the Semester End Examinations (SEE) is also set by external members from premier institution. Enough care is taken to ensure the questions are standard, and from the syllabus with appropriate Bloom's Taxonomy.

Special squad team comprises of internal faculty to take prompt actions by against malpractices, if any. Theexamination schedules are determined by following the Institute Academic Calendar.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	Nil

## 2.6 - Student Performance and Learning Outcomes

2.6.1 - Programme Outcomes and Course Outcomes for all Programmes offered by the institution are stated and displayed on the website and communicated to teachers and students

Outcome-Based Education (OBE) is an important demonstration tool for student-centered instruction that focuses on measuring student performance through outcomes. Quality assurance and improvement processes are about determining whether the set educational objectives meet a general standard of quality. Course Outcomes are the statements indicating knowledge and skills that the student is expected to acquire at the end of a course. Program outcomes represent the knowledge, skills, and attitudes the students should have at the end of the program.

In compliance with the objectives of Outcome-Based Education (OBE), the Program Outcomes (POs), Program Specific Outcomes (PSOs), and Course Outcomes (COs) are framed by the department offering the concerned program after consultation with all faculty and the stakeholders. The Course outcomes framed for each course are displayed through various means as given below.

- College Website
- Syllabus books
- Classrooms
- Laboratories and laboratory manual
- Meetings/ Interactions with employers
- Parent meet
- Faculty meetings
- Alumni meetings
- Professional Body meetings
- Library

While addressing the student's HODs create awareness on POs, PSOs, and COs. The faculty members also inform the students and create awareness on the attainment of the same. The POs/PSOs and COs of

the programme are also published through the college website.

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	<a href="#">View File</a>
Upload any additional information	No File Uploaded
Link for additional Information	Nil

#### 2.6.2 - Attainment of Programme Outcomes and Course Outcomes as evaluated by the institution

The process of attainment of COs, POs, and PSOs starts from writing appropriate COs for each course of the program from the first year to the fourth year in a four-year engineering degree program.

The course outcomes are written by the respective faculty member using action verbs of learning levels suggested by Bloom and Anderson. Then, a correlation is established between COs and POs on a scale of 1 to 3, 1 being the slight (low), 2 being moderate (medium) and 3 being substantial (high). A mapping matrix is prepared in this regard for every course in the program including the elective subjects.

The CO statements are defined by considering the course content covered in each module of a course. For every course, there are maybe 5 or 6 COs. The keywords used to define COs are based on Bloom's Taxonomy

Direct attainment displays the student's knowledge and skills from their performance. It can be determined from the performance of the students in all the relevant assessment instruments like internal assessments, assignments, quizzes, and final examinations.

Indirect methods access opinions or thoughts about the graduate's knowledge or skills. Indirect measures can provide information about graduates' perception of their learning and how this learning is valued by different stakeholders.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	Nil

### 2.6.3 - Pass Percentage of students

#### 2.6.3.1 - Total number of final year students who passed in the examinations conducted by Institution

931

File Description	Documents
Upload list of Programmes and number of students appear for and passed in the final year examinations	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Paste link for the annual report	Nil

### 2.7 - Student Satisfaction Survey

#### 2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire). Results and details need to be provided as a weblink

<https://www.nrtec.in/wp-content/uploads/2022/11/2.7.1.pdf>

### RESEARCH, INNOVATIONS AND EXTENSION

#### 3.1 - Promotion of Research and Facilities

3.1.1 - The institution's research facilities are frequently updated and there is a well-defined policy for promotion of research which is uploaded on the institutional website and implemented

#### PROMOTION OF RESEARCH AND FACILITIES

NEC aspires to cultivate and encourage a research culture among its faculty, staff, and students in order to foster a scientific mindset and research abilities. It contributes to the college vision and purposes, as well as national growth, by establishing an institutional fund and strategy to facilitate their participation in research and associated activities, as well as

providing the necessary resources and facilities.

It also attempts to ensure that the college research operations adhere to all applicable rules and regulations, as well as established standards and norms for doing research in a safe and ethical manner.

Three research centers of our institution are recognized by affiliated university JNTUK, Kakinada to facilitate research and guide the Ph.D scholars during the period 2016-17 & 2017-18. The following research facilities are available in our college.

- CADENCE VLSI Research Laboratory
- Microwave & Optical Communications lab
- e-YANTRA Embedded systems & Robotics lab in association with IIT Bombay.
- 3-D Printing laboratory.
- Dassault Systems lab in association with APSSDC.
- ARC (Applied Robotic Control) lab in association with European Centre for Mechatronics (EMC).

Encourage and support a research culture by providing research facilities such as laboratory equipment, research journals, and research incentives as necessary by the faculty.

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	<a href="#">View File</a>
Provide URL of policy document on promotion of research uploaded on the website	Nil
Any additional information	<a href="#">View File</a>

### 3.1.2 - The institution provides seed money to its teachers for research

#### 3.1.2.1 - Seed money provided by the institution to its teachers for research during the year (INR in lakhs)

4.77

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	<a href="#">View File</a>
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	<a href="#">View File</a>
List of teachers receiving grant and details of grant received	<a href="#">View File</a>
Any additional information	No File Uploaded

### 3.1.3 - Number of teachers who were awarded national / international fellowship(s) for advanced studies/research during the year

00

File Description	Documents
e-copies of the award letters of the teachers	No File Uploaded
List of teachers and details of their international fellowship(s)	<a href="#">View File</a>
Any additional information	No File Uploaded

### 3.2 - Resource Mobilization for Research

#### 3.2.1 - Grants received from Government and Non-Governmental agencies for research projects, endowments, Chairs during the year (INR in Lakhs)

10.3

File Description	Documents
e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations	<a href="#">View File</a>
List of projects and grant details	<a href="#">View File</a>
Any additional information	No File Uploaded

#### 3.2.2 - Number of teachers having research projects during the year

01



File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	Nil
List of research projects during the year	<a href="#">View File</a>

### 3.2.3 - Number of teachers recognised as research guides

41

File Description	Documents
Upload copies of the letter of the university recognizing teachers as research guides	<a href="#">View File</a>
Institutional data in Prescribed format	<a href="#">View File</a>

### 3.2.4 - Number of departments having research projects funded by Government and Non-Government agencies during the year

01

File Description	Documents
Supporting document from Funding Agencies	<a href="#">View File</a>
Paste link to funding agencies' website	Nil
Any additional information	<a href="#">View File</a>

## 3.3 - Innovation Ecosystem

3.3.1 - Institution has created an ecosystem for innovations and creation and transfer of knowledge supported by dedicated centres for research, entrepreneurship, community orientation, incubation, etc.

NEC has an Institution's Innovation Council (IIC) that works under the 'MoE's Innovation Cell (MIC)' to create a vibrant local innovation ecosystem, a start-up supporting mechanism, a function ecosystem for scouting ideas and pre-incubation of ideas, and to improve technology students' cognitive abilities.

The Entrepreneurship Development Cell (EDC) at NEC works to promote entrepreneurship among students by hosting events such as entrepreneurship awareness camps, entrepreneurship development programmes, faculty development programmes, skill development training programmes, and entrepreneurship challenges in starting a social enterprise.

The Innovation and incubation centre provides a platform for business incubation and innovation, including incubation spaces, business management counselling, and technical solutions, interaction with industry and peers, and provision of relevant solutions.

IPR cell established in the college in the year 2018 to provide a platform to share and discuss practical exposure and to assist faculty members for patent filing process.

Three departments at NEC are recognized as research centers and faculty are encouraged to carryout innovative research projects. Further college administration is also providing facility and financial support for select innovative projects proposed by faculty and students. The students are also encouraged to participate project model exhibition, workshops and symposiums to present their innovative ideas.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

### 3.3.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year

26

File Description	Documents
Report of the events	<a href="#">View File</a>
List of workshops/seminars conducted during the year	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

### 3.4 - Research Publications and Awards

<b>3.4.1 - The Institution ensures implementation of its Code of Ethics for Research uploaded in the website through the following: Research Advisory Committee Ethics Committee Inclusion of Research Ethics in the research methodology course work Plagiarism check through authenticated software</b>	<b>A. All of the above</b>
---	----------------------------

File Description	Documents
Code of Ethics for Research, Research Advisory Committee and Ethics Committee constitution and list of members of these committees, software used for plagiarism check	<a href="#">View File</a>
Any additional information	<b>No File Uploaded</b>

**3.4.2 - Number of PhD candidates registered per teacher (as per the data given with regard to recognized PhD guides/ supervisors provided in Metric No. 3.2.3) during the year**

**3.4.2.1 - Number of PhD students registered during the year**

**03**

File Description	Documents
URL to the research page on HEI website	<b>Nil</b>
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

**3.4.3 - Number of research papers per teacher in CARE Journals notified on UGC website during the year**

**42**

File Description	Documents
List of research papers by title, author, department, and year of publication	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

**3.4.4 - Number of books and chapters in edited volumes / books published per teacher during the year****188**

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://www.nrtec.in/wp-content/uploads/2022/12/3.4.4.pdf">https://www.nrtec.in/wp-content/uploads/2022/12/3.4.4.pdf</a>

**3.4.5 - Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed****3.4.5.1 - Total number of Citations in Scopus during the year****48**

File Description	Documents
Any additional information	<b>No File Uploaded</b>
Bibliometrics of the publications during the year	<a href="#">View File</a>

**3.4.6 - Bibliometrics of the publications during the year based on Scopus/ Web of Science – h-Index of the University****3.4.6.1 - h-index of Scopus during the year****34**

File Description	Documents
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	<a href="#">View File</a>
Any additional information	<b>No File Uploaded</b>

**3.5 - Consultancy****3.5.1 - Revenue generated from consultancy and corporate training during the year (INR in lakhs)****12.73**

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	<a href="#">View File</a>
List of consultants and revenue generated by them	<a href="#">View File</a>
Any additional information	No File Uploaded

### 3.5.2 - Total amount spent on developing facilities, training teachers and clerical/project staff for undertaking consultancy during the year

1,41,000

File Description	Documents
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	<a href="#">View File</a>
List of training programmes, teachers and staff trained for undertaking consultancy	<a href="#">View File</a>
List of facilities and staff available for undertaking consultancy	No File Uploaded
Any additional information	No File Uploaded

### 3.6 - Extension Activities

3.6.1 - Extension activities carried out in the neighbourhood sensitising students to social issues for their holistic development, and the impact thereof during the year

Extension activities are carried out in the neighbourhood community, sensitising students to social issues, for their holistic development, and impact thereof during the last five years.

(Describe the impact of extension activities in sensitising students to social issues and holistic development within a maximum of 500)

Narasaraopeta Engineering College was allotted a National Service Scheme (NSS) Unit in 2002 by Jawaharlal Nehru Technological

University, Kakinada with 100 students enrolled as NSS Volunteers. The motto of NSS is 'Not Me But You' as stated by Swami Vivekananda. Trusting in this, the institute carries out a number of extension activities in the neighbourhood community.

Our NSS unit focuses on the welfare of the neighbourhood community and sensitizes their social problems and takes necessary steps for the betterment of the society. These social outreach programmes brought a great impact on the holistic development of the students as they come across different categories of the people and their living standards. Every year during Independence Day and Republic day, the NSS volunteers coordinate with the other clubs of the institute to demonstrate on a current social problems through parades and rallies.

Extension activities in the neighbourhood community:

Free Covid-19 Test and Vaccination Programs, Clean and Green Programs like Swatch Bharath was conducted at Yallamanda, Guravayapalem and Kesanupalli the nearby villages and our NSS volunteers explained the importance of cleanliness and its impact on health particularly in the pandemic situation to the villagers.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

### 3.6.2 - Number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government-recognised bodies during the year

3

File Description	Documents
Number of awards for extension activities in during the year	<a href="#">View File</a>
e-copy of the award letters	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

### 3.6.3 - Number of extension and outreach programmes conducted by the institution through NSS/NCC/Red Cross/YRC, etc. during the year (including Government-initiated programmes such as Swachh Bharat, AIDS Awareness, and Gender Sensitization and those

**organised in collaboration with industry, community and NGOs)****15**

File Description	Documents
Reports of the events organized	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

**3.6.4 - Number of students participating in extension activities listed in 3.6.3 during the year****2649**

File Description	Documents
Reports of the events	<a href="#">View File</a>
Any additional information	No File Uploaded

**3.7 - Collaboration****3.7.1 - Number of collaborative activities during the year for research/ faculty exchange/ student exchange/ internship/ on-the-job training/ project work****43**

File Description	Documents
Copies of documents highlighting collaboration	<a href="#">View File</a>
Any additional information	No File Uploaded

**3.7.2 - Number of functional MoUs with institutions of national and/or international importance, other universities, industries, corporate houses, etc. during the year (only functional MoUs with ongoing activities to be considered)****11**

File Description	Documents
e-copies of the MoUs with institution/ industry/ corporate house	<a href="#">View File</a>
Details of functional MoUs with institutions of national, international importance, other institutions etc. during the year	<a href="#">View File</a>
Any additional information	No File Uploaded

## INFRASTRUCTURE AND LEARNING RESOURCES

### 4.1 - Physical Facilities

4.1.1 - The Institution has adequate infrastructure and physical facilities for teaching-learning, viz., classrooms, laboratories, computing equipments, etc.

The institution has a total Built-uparea of 31,362 square metres. Laboratories, e-learning centers are well-established and equipped with cutting-edge technology. The central library has national and international journal subscriptions, as well as a large number of book volumes. Separate Boys and Girls hostels are maintaining. The institution has research centers to caterthe needs of research scholars.

BEES ERP software is implemented and the activities done by BET tool of BEES ERP. From this year onwards CAMU software is implemented for student attendance, marks and other related activities. Learning management system (MOODLE) software is used for conducting online exams and for uploading teaching learning material.

The institution has provided 1156 computers for 3717students and maintaining all academic activities. The campus has free Wi-Fi. Many of the class rooms and seminar halls have LCDs and Wi-Fi as ICT facilities. For uninterrupted power supply, a generator and 17 UPS are available.

The institute has established several cells to create an eco-system of quality improvement, research, and innovation, among others. The Training & Placement Cell provides students with campus recruitment training as well as organizing campus drives.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

4.1.2 - The institution has adequate facilities for cultural activities, yoga, sports and games (indoor and outdoor) including gymnasium, yoga centre, auditorium etc.)

College has provided a number of facilitiesto support extracurricular activities. For conductingliterary and cultural



events, one AC seminar hall with a seating capacity of 300 was established. By providing financial assistance, the college will encourage students to compete at the college, state, and national levels. Some of our students competed in and won major events at various levels.

The college organizes events through various clubs. Every year the institute organizes JUBILATION (National level technical, cultural and sports fest), a Student-Parent meet, Fresher's Day celebrations, and Annual Day celebrations.

NEC has adequate facilities for sports and games (indoor and outdoor), as well as a Gymnasium. To train and monitor all sports and games activities, a well-qualified Physical Director and female Physical Directors were appointed.

Yoga master is available for Yoga training. International Yoga day is celebrated every year with major participation of students and Faculty.

Under the supervision of the Physical Director, all courts, sports, and games equipment are maintained on a regular basis.

The college teams in cricket, volleyball, and other sports won the majority of the tournaments. Many of our students have competed in JNTUK Interuniversity Tournaments and brought laurels to the Institute.

File Description	Documents
Geotagged pictures	<a href="#">View File</a>
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

#### 4.1.3 - Number of classrooms and seminar halls with ICT-enabled facilities

59

File Description	Documents
Upload any additional information	No File Uploaded
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	<a href="#">View File</a>

#### 4.1.4 - Expenditure for infrastructure augmentation, excluding salary, during the year (INR in Lakhs)

84.62

File Description	Documents
Upload audited utilization statements	<a href="#">View File</a>
Details of Expenditure, excluding salary, during the years	<a href="#">View File</a>
Any additional information	No File Uploaded

#### 4.2 - Library as a Learning Resource

##### 4.2.1 - Library is automated using Integrated Library Management System (ILMS)

NEC Central Library has built up area 1200 sqm with seating capacity of 250 members. It has 66097 volumes with 7937 titles of books and about 250 back volumes of scientific and technical periodicals. The library has subscription for 89 national journals, 12 magazines, 205 international journals and more than 5000 e-journals and e books in IEEE, DELNET, and N-List. KOHA software (20.5) is used which includes all aspects of the library management system. Barcode Technology is used in transactions. Library books can be accessed through the OPAC (Online Public Access Catalogue). Central Library supports departmental libraries in all departments. It has an air-conditioned Digital Library with 40 systems is available on LAN and two discussion rooms . The Library Resource centre has registered member ship with N-LIST, NDLI, DELNET to extend its services by providing e-resources to staff and students. Library has maintaining Biometric login of users to analyse the daily physical footfalls. Previous years question papers, NPTEL videos, e-books, GATE Papers and e-journal articles are made available in the digital library for easy

access.

The Library works from 08:00 AM to 08:00 PM on all working days and from 09:00 AM to 01:00 PM on the holidays.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

**4.2.2 - Institution has access to the following:  
e-journals e-ShodhSindhu Shodhganga  
Membership e-books Databases Remote  
access to e-resources**

A. Any 4 or more of the above

File Description	Documents
Details of subscriptions like e-journals, e-books, e-ShodhSindhu, Shodhganga membership	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

**4.2.3 - Expenditure on purchase of books/ e-books and subscription to journals/e-journals during the year (INR in lakhs)**

8.83

File Description	Documents
Audited statements of accounts	<a href="#">View File</a>
Any additional information	No File Uploaded
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	<a href="#">View File</a>

**4.2.4 - Usage of library by teachers and students (footfalls and login data for online access)**

**4.2.4.1 - Number of teachers and students using the library per day during the year**

446

File Description	Documents
Upload details of library usage by teachers and students	<a href="#">View File</a>
Any additional information	No File Uploaded

### 4.3 - IT Infrastructure

4.3.1 - Institution has an IT policy covering Wi-Fi, cyber security, etc. and has allocated budget for updating its IT facilities

The institute has IT policy with clearly stating the procedures to be adopted for all IT facilities that are made available in the campus. The institution's IT infrastructure, including Wi-Fi, is updated on a regular basis. There are 1156 computers, 72 projectors and 37 printers are available. The campus has Wi-Fi access to meet the needs of academic and research. The campus has a 400 Mbps dedicated line internet facility through AIRTEL and a 40 Mbps bundled bandwidth through BSNL, Sonic Fire Wall (SGS600) worth Rs.1200000/- that protect the NEC networks from hackers.

AP CM's Skill Excellence Centre, ARC, DASSAULT 3D was established in the institution association with APSSDC and IoT labs were also established.

The institute has an intranet with a 1Gbps fibre optic backbone network and three DIGISOL manageable switches, as well as Wi-Fi support from 41 access points that is available 24/7. There are 96 surveillance cameras on campus.

The institute has Microsoft Volume License and is being renewed every year since 2011. In Sep 2021, it is updated to Microsoft Azure campus license. This license facilitates regular updating of 9 system software and 27 application software including Office365 and MS Teams for all students and faculty.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

### 4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
<b>3717</b>	<b>1156</b>

File Description	Documents
Upload any additional information	<a href="#">View File</a>

<b>4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus</b>	<b>A. ?50 Mbps</b>
---	--------------------

File Description	Documents
Details of bandwidth available in the Institution	<a href="#">View File</a>
Upload any additional information	<b>No File Uploaded</b>

<b>4.3.4 - Institution has facilities for e-content development: Facilities available for e-content development Media Centre Audio-Visual Centre Lecture Capturing System (LCS) Mixing equipments and software for editing</b>	<b>A. All four of the above</b>
--	---------------------------------

File Description	Documents
Upload any additional information	<b>No File Uploaded</b>
Paste link for additional information	<a href="https://www.nrtec.in/wp-content/uploads/2022/11/4.3.42.pdf">https://www.nrtec.in/wp-content/uploads/2022/11/4.3.42.pdf</a>
List of facilities for e-content development (Data Template)	<a href="#">View File</a>

#### **4.4 - Maintenance of Campus Infrastructure**

**4.4.1 - Expenditure incurred on maintenance of physical and academic support facilities, excluding salary component, during the year (INR in lakhs)**

**86.5**

File Description	Documents
Audited statements of accounts	<a href="#">View File</a>
Upload any additional information	No File Uploaded

4.4.2 - There are established systems and procedures for maintaining and utilizing physical, academic and support facilities – classrooms, laboratory, library, sports complex, computers, etc.

The institution has well defined policy to ensure optimal usage and maintenance of physical, academic and support facilities. Laboratory Maintenance is look after by lab in-charge who maintains the stock register and for the repair of the equipment. The requirement of books for the upcoming academic year is received from the concerned departments through HODs at the end of every academic year and forwarded to the principal for approval A team of faculty members along with library staff will be deputed to conduct stock verification every year. The sports committee conducts meetings periodically to discuss the budget proposal, conduct of collegiate tournaments for each academic year and forwarded to the principal for approval. Regular maintenance of computer laboratory equipment is done by Laboratory assistants along with Laboratory attendant and they are headed by the faculty in-charge. The campus has a power house which takes responsibility of supplying uninterrupted power Maintenance of all facilities and cleanliness of environment in Boys and Girls hostels is maintained through Hostel committee.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

## STUDENT SUPPORT AND PROGRESSION

### 5.1 - Student Support

#### 5.1.1 - Number of students benefitted by scholarships and freeships provided by the Government during the year

2534

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

### 5.1.2 - Number of students benefitted by scholarships and freeships provided by the institution and non-government agencies during the year

00

File Description	Documents
Upload any additional information	No File Uploaded
Institutional data in prescribed format	<a href="#">View File</a>

**5.1.3 - The following Capacity Development and Skill Enhancement activities are organised for improving students' capabilities Soft Skills Language and Communication Skills Life Skills (Yoga, Physical fitness, Health and Hygiene) Awareness of Trends in Technology**

A. All of the above

File Description	Documents
Link to Institutional website	<a href="https://www.nrtec.in/wp-content/uploads/2022/11/Capability-Enhancement-Program2021-2022-1.pdf">https://www.nrtec.in/wp-content/uploads/2022/11/Capability-Enhancement-Program2021-2022-1.pdf</a>
Details of capability development and schemes	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

### 5.1.4 - Number of students benefitted from guidance/coaching for competitive examinations and career counselling offered by the institution during the year

934

File Description	Documents
Any additional information	<a href="#">View File</a>
Number of students benefited by guidance for competitive examinations and career counseling during the year (Data Template)	<a href="#">View File</a>

**5.1.5 - The institution adopts the following mechanism for redressal of students' grievances, including sexual harassment and ragging: Implementation of guidelines of statutory/regulatory bodies Creating awareness and implementation of policies with zero tolerance Mechanism for submission of online/offline students' grievances Timely redressal of grievances through appropriate committees**

**A. All of the above**

File Description	Documents
Minutes of the meetings of students' grievance redressal committee, prevention of sexual harassment committee and Anti-ragging committee	<a href="#">View File</a>
Details of student grievances including sexual harassment and ragging cases	<b>No File Uploaded</b>
Upload any additional information	<b>No File Uploaded</b>

## 5.2 - Student Progression

### 5.2.1 - Number of outgoing students who got placement during the year

**456**

File Description	Documents
Self-attested list of students placed	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

### 5.2.2 - Number of outgoing students progressing to higher education



42

File Description	Documents
Upload supporting data for students/alumni	<a href="#">View File</a>
Details of students who went for higher education	<a href="#">View File</a>
Any additional information	No File Uploaded

### 5.2.3 - Number of students qualifying in state/ national/ international level examinations during the year

#### 5.2.3.1 - Number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET/SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State government examinations) during the year

53

File Description	Documents
Upload supporting data for students/alumni	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

### 5.3 - Student Participation and Activities

#### 5.3.1 - Number of awards/medals for outstanding performance in sports and/or cultural activities at inter-university / state /national / international events (award for a team event should be counted as one) during the year

07

File Description	Documents
e-copies of award letters and certificates	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

#### 5.3.2 - Presence of an active Student Council and representation of students in academic and administrative bodies/committees of the institution

NARASARAOPETA ENGINEERING COLLEGE (NEC) provides a platform for students to actively participate in various Committees like

1. Internal Quality Assurance Cell (IQAC)
2. Class Review committee

3. Alumni Committee
4. Canteen Committee
5. Transport Committee
6. Extracurricular activities Committee
7. library Committee
8. Women Empowerment Committee
9. National Service Scheme(NSS) Committee
10. National Cadet Corps (NCC) Committee
11. Entrepreneurship and Development Committee (EDC)
12. Placement Cell Committee
13. Sexual Harassment Prevention Committee (SHPC)
14. College hostel Committee
15. SC/ST Committee
16. Sports Committee

IQAC Committee sets benchmarks for various academic and administrative activities of NEC. The college has an efficient anti-ragging committee to create awareness in the students on the 'evil effects' of ragging. EDC motivates students to develop their own start-ups. The Library committee considers policy matters regarding Central Library/Departmental libraries including the policy for procurement of books and journals.

NSS Committee makes education more relevant to the present situation by bringing them face to face with rural situation. The SHPC prevents discrimination and sexual harassment against women. Transport Committee provides transport facilities for students and staff.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

### 5.3.3 - Number of sports and cultural events / competitions organised by the institution

19

File Description	Documents
Report of the event	<a href="#">View File</a>
List of sports and cultural events / competitions organised per year	<a href="#">View File</a>
Upload any additional information	No File Uploaded

#### 5.4 - Alumni Engagement

5.4.1 - The Alumni Association and its Chapters (registered and functional) contribute significantly to the development of the institution through financial and other support services

The college has constituted Alumni Association with a view to establish and strengthen close relation of its alumni with the college. The association enables the alumni to continue their association in a variety of ways such as enabling them to be the stake holders in revising the vision and mission of the college and to participate in various activities such as graduation ceremonies, technical fests, exhibitions. The college has a registered Alumni Association with the name NARASARAOPETA ENGINEERING COLLEGE ALUMNI ASSOCIATION (NAA) with Registration number 275 of 2021, REGISTRAR OF SOCIETIES AT NARASARAOPET. Our Alumni are placed in reputed companies like TCS, Infosys, Accenture, Tech Mahindra, etc.

##### Objectives

- To promote a lifelong relation and to act as a forum for the exchange of information among its members.
- To provide guidance to the present students in their endeavour for better employment and higher studies.
- To arrange teaching and training classes to the students studying in the college and also to the members to upgrade technical and general skills.
- To get the valuable advices of the Alumni in the overall development of the college
- To promote the campus placements through the old students working in reputed industries in India and abroad.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	<a href="https://www.nrtec.in/wp-content/uploads/2022/11/5.4.1.pdf">https://www.nrtec.in/wp-content/uploads/2022/11/5.4.1.pdf</a>

#### 5.4.2 - Alumni's financial contribution during the year

D. 2 Lakhs - 5 Lakhs

File Description	Documents
Upload any additional information	<a href="#">View File</a>

### GOVERNANCE, LEADERSHIP AND MANAGEMENT

#### 6.1 - Institutional Vision and Leadership

6.1.1 - The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the Institution

- The institutional faculty met several times to develop and cultivate a strong and meaningful vision and mission. The following components were also used to finalize the mission.

Quality Education

Professional career

Higher Education

◦

Creativity

Life- long learning

Our dedication and commitment are to achieve long-term and unrivalled excellence in Technical Education. To that end, we are pursuing continuous infrastructure development and upgrading state-of-the-art equipment in order to provide our students with a technologically advanced and intellectually stimulating environment for learning, research, creativity, innovation, and professional activity, as well as instil ethical and moral values

in them.

**Vision:**

To emerge as a centre of excellence in technical education with a blend of effective student centric teaching learning practices as well as research for the transformation of lives and community.

**Mission:**

- Provide the best class infrastructure to explore the field of engineering and research
- Build a passionate and a determined team of faculty with student centric teaching imbining experimental innovative skills.
- Imbibe lifelong learning skills entrepreneurial skills and ethical values in students for addressing societal problems.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	Nil

6.1.2 - Effective leadership is reflected in various institutional practices such as decentralization and participative management

- Provides a frame work for effectiveness and sense of direction

- Outlines the goals and measurable targets
- Is useful for guiding day-to-day actions
- Helps in evaluating progress and changing approaches when moving forward

The plan is developed to establish deep roots that provide firm foundation for the constant Up-gradation of the institution, as well as to energize the drive of experimentation and innovation, keeping the focus on Institution vision and mission. The strategic plan sets out a frame work of priorities for the Institution.

Departments play a pivotal for the institution; hence each department worked out on their vision, mission and short, mid & long-term goals. The implementation plan for the departments also reflected all details such as budget, resources needed as well as leader responsible with time lines. HODs form the core team for implementing departmental goals under the guidance of Deans/Principal.

The final draft document was discussed with GB and after its detailed review; the suggestions were incorporated towards its effective implementation. This comprehensive plan forms the guiding plan for the years 2018-2023.

File Description	Documents
Upload strategic plan and deployment documents on the website	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	Nil

## 6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ Perspective plan has been clearly articulated and implemented

The institution has a solid strategic plan with well-defined goals.

1. Effective teaching and learning process.
2. Student and faculty development and participation

3. Accreditation from statutory bodies.
4. Internal Quality Assurance System
5. Research and Development Work.
6. Social engagement and Community service.
7. Industrial and Alumni Interaction.
8. Physical infrastructure and facility.
9. Placement and Training.
10. Entrepreneurship.
11. Incubation Centers and Start-Ups.

The Strategic Plan ensures that the targets are accomplished through an accountability process that includes review, evaluation, reporting, and re-planning.

A strategic plan is an important tool for a college to effectively manage itself because it

- Provides a frame work for effectiveness and sense of direction
- Outlines the goals and measurable targets
- Is useful for guiding day-to-day actions
- Helps in evaluating progress and changing approaches when moving forward

As illustrated in below Figure, it is an iterative process at both stages, namely when framing and when implementing.

File Description	Documents
Strategic Plan and deployment documents on the website	<a href="#">View File</a>
Paste link for additional information	Nil
Upload any additional information	<a href="#">View File</a>

6.2.2 - The functioning of the various institutional bodies is effective and efficient as visible from the policies, administrative set-up, appointment and service rules, procedures, etc.

The institute has a clearly defined organizational hierarchy and structure to support clear and consistent decision-making processes that support effective decision making. Through the involvement of stakeholders on various Boards (Governing Body, Academic council, Board of Studies and Finance Committee's), the organizational structure lends itself to the maintenance of institutional capacity and educational effectiveness.

The organization has a well-organized administrative structure, with the Governing Body serving as the highest decision-making body, as well as other functional bodies and committees.

**Service rules, Procedures, Recruitment and Promotional Policies:**

Narasaraopeta Engineering College has defined policies that were developed with the participation of various stakeholders such as the Principal, members of Management, and members of the Governing Body. The policy has been revised, and new policy amendments have been introduced for the benefit of stakeholders.

To raise awareness among employees and students, the documents are published and made available in the institute library as well as in all departments.

The detailed information on the above policies and procedures is available in the Service Rules and Regulations & Administrative Manual, which is linked to for more information.



File Description	Documents
Paste link to Organogram on the institution webpage	Nil
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	Nil

### 6.2.3 - Implementation of e-governance in areas of operation: Administration Finance and Accounts Student Admission and Support Examination

A. All of the above

File Description	Documents
ERP (Enterprise Resource Planning) Documen	<a href="#">View File</a>
Screen shots of user interfaces	<a href="#">View File</a>
Details of implementation of e-governance in areas of operation	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

## 6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has effective welfare measures for teaching and non-teaching staff and avenues for their career development/ progression

The Institution provides effective welfare measures to both teaching and non-teaching staff. To the satisfaction of the employees, various monetary and non-monetary measures toward personal and professional growth are being implemented to fosters a friendly environment and improves work efficiency.

The list of existing welfare measures for teaching and non-teaching staff:

1. The 6th Pay Commission recommendations are implemented.
2. General Insurance covers all teaching and non-teaching staff.
3. Non-teaching employees are covered by EPF & ESI.
4. All teaching and non-teaching staff are granted maternity and medical leaves.
5. Providing 12 casual, 12 earned leaves and 12 vacation leaves to all teaching and non-teaching staff for one academic

year.

6. The availability of free transportation for all employees.
7. Financial incentives for all employees who publish papers in reputable journals and obtain patents, to attend conferences/workshops and professional body memberships.
8. Providing uniforms and Festival bonus for all non-teaching staff in class IV.
9. The institute introduces new laboratory equipment and software to improve practical skills and allow students to advance in their professional careers.
10. The institution has signed Memorandums of Understanding (MOUs) with a number of organisations to improve staff technical skills.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://www.nrtec.in/wp-content/uploads/2022/12/6.3.1-1.pdf">https://www.nrtec.in/wp-content/uploads/2022/12/6.3.1-1.pdf</a>

### 6.3.2 - Number of teachers provided with financial support to attend conferences / workshops and towards payment of membership fee of professional bodies during the year

93

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	<a href="#">View File</a>

### 6.3.3 - Number of professional development / administrative training programmes organized by the Institution for its teaching and non-teaching staff during the year

21

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

#### **6.3.4 - Number of teachers who have undergone online/ face-to-face Faculty Development Programmes during the year: (Professional Development Programmes, Orientation / Induction Programmes, Refresher Courses, Short-Term Course, etc.)**

74

File Description	Documents
Summary of the IQAC report	<a href="#">View File</a>
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

#### **6.4 - Financial Management and Resource Mobilization**

##### 6.4.1 - Institution conducts internal and external financial audits regularly

Finance is the lifeblood of any organization. Regular auditing of financial transactions will ensure effective financial management. Every fiscal year, NEC has a system of both internal and external audits for all financial transactions carried out in the institute. Financial planning and review are done on a regular basis by the Finance Committee, which is chaired by the principal and includes members from administration and accounting. The Finance Committee meets twice a year to review the income expenditure statements and make recommendations for future action. Management examines income and expenditure patterns through the Governing Body, and pragmatic recommendations are made.

.Financial rules are in place at the Institute, and the "No-Cash" Transaction System is used to the greatest extent possible. Internal audits are carried out on an annual basis by the internal audit committee, which is chaired by the Principal. Internal audits are performed on a sampling basis to ensure the accuracy of the Institution's financial transactions and statement affairs. Chartered accountants conduct statutory external audits on a

yearly basis. External Audit: With all statutory obligations met, there were no major audit objections until the most recent audit.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

#### 6.4.2 - Funds / Grants received from non-government bodies, individuals, and philanthropists during the year (not covered in Criterion III and V) (INR in lakhs)

0

File Description	Documents
Annual statements of accounts	No File Uploaded
Details of funds / grants received from non-government bodies, individuals, philanthropists during the year	<a href="#">View File</a>
Any additional information	No File Uploaded

#### 6.4.3 - Institutional strategies for mobilisation of funds and the optimal utilisation of resources

##### Mobilization of Funds:

The primary goal of the institution is to improve its quality and reputation. The annual fee collected from students is the college's primary source of revenue. The fee is collected in accordance with the fee and guidelines established by the AP State fee regulatory authority. Funds are also mobilized through sponsored projects from National funding Agencies such as UGC, AICTE and DST. Funds are also raised through consulting and philanthropic donations.

**RESOURCE MOBILISATION** The following are the different ways of mobilizing the funds in the Institution:

**Tuition fees:** Tuition fees collected from students are the primary source of revenue generation. The Fee Regulatory Authority of the Government determines the appropriate fee in accordance with the rules.

**RESOURCE MANAGEMENT**

According to the approved budget, the resources are used for the following purposes:

- Employee Salaries and benefits are a major component of expenditure
- Furniture, Laboratory Equipment, Consumables, etc.
- R & D and Incentives
- Training & Placement
- Software procurement, Wi-Fi, Internet & Networking
- Student Services- NCC, NSS, Sports
- Travel and conveyance
- Repair, Replacements, and Maintenance
- Taxes and licenses
- Sanitation- housekeeping
- Gardening and security charges

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	Nil

**6.5 - Internal Quality Assurance System**

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing quality assurance strategies and processes visible in terms of incremental improvements made during the preceding year with regard to quality (in case of the First Cycle): Incremental improvements made during the preceding year with regard to quality and post-accreditation quality initiatives (Second and subsequent cycles)

The IQAC initiated Academic Audit and Administrative Audit (AAA) for the purpose to ensure the implementation of OBE in all programmes of institutions as well as to identify the resources required for effective implementation of OBE. It includes assessment policies, strategies, and functions of various administrative departments.

The action was taken for continuous improvement and examine qualitative report will submit to IQAC cell which in turn provide suggestions to the respective departments. The external audit team conducts a comprehensive audit covering all aspects of the institution. The suggestions given by the external audit team are discussed with the principal and action taken is prepared

### Incremental Initiatives

- Conduct of Faculty development programmes
- Promoting research by faculty
- Financial support is extended partially for attending workshops /conferences/ FDPs out side the college.
- Organizing workshops/seminars/conferences/FDPs by the institution.
- Dedicated training programs for improvement in terms of Soft Skills, Programming Skills, and Technical Skills have been arranged for students resulting in better placements.
- Establishment of Industry Institution Interaction Cell and Advanced labs, English Communication Skills lab, Centre for Innovation, Incubation, and Entrepreneurship have been strengthened.
- All classrooms, laboratories, and Seminar halls are ICT enabled.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

6.5.2 - The institution reviews its teaching-learning process, structures and methodologies of operation and learning outcomes at periodic intervals through its IQAC as per norms

**IQAC deployed standard structures and methodologies for the review of the teaching-learning process and learning outcomes at periodic intervals. Regarding the review of the teaching-learning process, the IQAC has set up the following practices at our institution.**

#### Internal Academic Audit:

In a semester, every department is audited thrice every semester by two auditors from other departments nominated by the Chairperson of IQAC (Principal). The auditors will verify the following parameters and submit the compliance to IQAC.

- Course Objectives and Course Outcomes (COs).
- Course articulation matrix (Mapping of COs, POs, and PSOs).
- Lesson Plan Schedules.
- Syllabus coverage as per the schedule

- I-Mid, II-Mid, and End Semester Question Papers and Scheme of valuation.

#### Initiatives implemented

- Autonomous -OBE Curriculum for holistic education.
- Effective mentoring system for the all-round development of students.
- Green Campus, Innovative Best Practices like Bodhana, Sadhana, Nipuna, and Ekalavya
- More than 30 MOU's industrial and academic.
- With industry support, AP CM's Excellence Centre, Collaboration with ICT academy, advanced laboratories like Advanced Robot Control lab, Dassault 3D experience lab, and IOT labs are established.
- IPR cell was established and motivated faculty towards IPR activities. As a result, 35 books and more than 25 patents are published.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

**6.5.3 - Quality assurance initiatives of the institution include Regular meeting of the IQAC Feedback collected, analysed and used for improvement of the institution Collaborative quality initiatives with other institution(s) Participation in NIRF Any other quality audit recognized by state, national or international agencies (such as ISO Certification)**

**A. Any 4 or all of the above**

File Description	Documents
Paste the web link of annual reports of the Institution	Nil
Upload e-copies of accreditations and certification	<a href="#">View File</a>
Upload details of quality assurance initiatives of the institution	<a href="#">View File</a>
Upload any additional information	No File Uploaded

## INSTITUTIONAL VALUES AND BEST PRACTICES

### 7.1 - Institutional Values and Social Responsibilities

#### 7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

Gender equality is one of the key challenges facing society today. Gender sensitivity is an inherent value in the cultural ethos of the institute, as is evident by the following facilities,

#### A. Safety & Security:

The Institution has a special cell called Student Grievances Redressal Cell which addresses students' grievances related to academic and non-academic problems.

#### B. Hi-Tech Surveillance system:

E- Surveillance with cameras 24X7 to track the activity of every student thus ensuring their safety inside the campus.

#### C. Hostels:

Students are monitored under well-defined rules and guidelines of wardens. A Wi-Fi-enabled reading room is available in the women's hostel.

#### D. Medical Facilities:

A health center with a qualified doctor and nurse is available on campus to provide medical care. Specialists are also invited to visit the campus if necessary.

#### E. Girls Rest Room:



In each block of the campus, the girl's waiting room is available with all facilities, like first-aid boxes, chairs, etc.

#### F. Counselling:

NEC has consistently strived to address contemporary issues like gender sensitization, women's concerns, teasing, ragging, safety, security, etc. We counsel through various seminars, and awareness programs. The anti-ragging committee and the HoDs are vigilant and always available for students to counsel them amicably.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	Nil

**7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation: Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power-efficient equipment**

A. Any 4 or All of the above

File Description	Documents
Geotagged Photographs	<a href="#">View File</a>
Any other relevant information	No File Uploaded

7.1.3 - Describe the facilities in the institution for the management of the following types of degradable and non-degradable waste (within a maximum of 200 words)

**Facilities in the Institution for the management of the following types of degradable and non-degradable waste**

- Solid waste management
- Liquid waste management
- E-wastemanagement
- Chemical Waste

The importance of waste management and methods of waste disposal mechanism is taught to students through courses such as Environmental Studies, Solid waste Management etc. in NEC.

**Solid Waste Management**

Dustbins are positioned in each classroom, laboratory, rest room, canteen, and at different places in the campus. Sweepers are allotted to manage all of the waste generated in the campus. All waste/garbage from college and hostel is segregated at source and disposed of in a proper manner. The collected food waste is deposited in the biogas plants.

#### Liquid waste Management

The college has a proper drainage facility to drain off the excess liquid waste and R.O. plant waste water is utilised for gardening purpose.

#### E-Waste Management

E-waste generated in the campus is collected via the maintenance team and is appropriately disposed of through vendors.

#### Chemical Waste

Indiscriminate use of chemical compounds is discouraged all through practical training and laboratory liquid chemical wastes are effectively disposed of. Inorganic wastes which include concentrated acidic or alkaline solutions are neutralized before disposal.

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	<a href="#">View File</a>
Geotagged photographs of the facilities	<a href="#">View File</a>
Any other relevant information	No File Uploaded

**7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus**

A. Any 4 or all of the above

File Description	Documents
Geotagged photographs / videos of the facilities	<a href="#">View File</a>
Any other relevant information	No File Uploaded

### 7.1.5 - Green campus initiatives include

**7.1.5.1 - The institutional initiatives for greening the campus are as follows:**

- 1. Restricted entry of automobiles**
- 2. Use of bicycles/ Battery-powered vehicles**
- 3. Pedestrian-friendly pathways**
- 4. Ban on use of plastic**
- 5. Landscaping**

**A. Any 4 or All of the above**

File Description	Documents
Geotagged photos / videos of the facilities	<a href="#">View File</a>
Various policy documents / decisions circulated for implementation	No File Uploaded
Any other relevant documents	No File Uploaded

### 7.1.6 - Quality audits on environment and energy undertaken by the institution

**7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following:**

- 1. Green audit**
- 2. Energy audit**
- 3. Environment audit**
- 4. Clean and green campus recognitions/awards**
- 5. Beyond the campus environmental promotional activities**

**A. Any 4 or all of the above**

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	<a href="#">View File</a>
Certification by the auditing agency	<a href="#">View File</a>
Certificates of the awards received	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

<p><b>7.1.7 - The Institution has a disabled-friendly and barrier-free environment: Ramps/lifts for easy access to classrooms and centres Disabled-friendly washrooms Signage including tactile path lights, display boards and signposts Assistive technology and facilities for persons with disabilities: accessible website, screen-reading software, mechanized equipment, etc. Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading materials, screen reading, etc.</b></p>	<p><b>A. Any 4 or all of the above</b></p>
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File Description	Documents
Geotagged photographs / videos of facilities	<a href="#">View File</a>
Policy documents and brochures on the support to be provided	<a href="#">View File</a>
Details of the software procured for providing assistance	No File Uploaded
Any other relevant information	No File Uploaded

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e. tolerance and harmony towards cultural, regional, linguistic, communal, socio-economic and other diversities (within a maximum of 200 words).

Narasaraopeta Engineering College remains exemplary in executing cultural and social activities by providing an inclusive environment for the students. Everyone has the freedom to express his/her own opinions and is given equal opportunity to participate in teaching, learning, work and social activities.

The Institute affirms pristine transparency by meritorious admissions indeed unbiased and keeps chances equally open to all students irrespective of cast, creed, region, and religion. The institute has an active student council and NSS wing to imbibe discipline, harmony and unity at ease.

Anti-ragging cell exerts themselves to keep up harmony, and tolerance and are ready to take any measures. The renowned institute maintains a sense of respect towards all cultural and technical activities such as Jubilation, Flash Mob and Radio FM.

Our Institution commemorates Sri Mokshagundam Visvesvarayya's birth anniversary, honoring teachers on Teachers Day by reminding the great guru Dr.Sarvepalli Radhakrishnan and awareness programs, Blood denotation camps, planting trees in nearby villages to safeguard the environment take place in the institution.

Besides the curriculum, additional communication and soft skills classes along with team bonding activities are conducted to communicate professionally with technical jargon. Pongal celebrations are celebrated with great ease and enthusiasm. This built unity and reliance among students.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	<a href="#">View File</a>

7.1.9 - Sensitization of students and employees of the institution to constitutional obligations: values, rights, duties and responsibilities of citizens:

Narasaraopeta Engineering College (NEC) sensitizes students and employees to the constitutional obligations of the values, rights, duties, and responsibilities of citizens. The students at NEC are sheltered under the teacher's guidance and motivation. They are nurtured in self-learning and pave way for creative thinking and entrepreneurship.

Students in an autonomous community can make aware through curriculum and extra-curricular activities. In this regard, students focus on various concepts related to Artificial Intelligence, Cyber Security, and the Indian IT act serves as the electives. Celebration of National Festivals and the commemoration of Birth and Death Anniversaries of great Indian Personalities

take place every year in the Institute with enthusiasm.

The college has conducted different activities like International Women's Day on the 8th of March is observed every year and a Lady Police officer is invited as Chief Guest to address the female students on self-defense and encouraged how the importance of the Disha App and threw light on the installation of the App.

The students are inspired by participating in various programs on culture, traditions, values, duties, and responsibilities by inviting eminent people.

Guest lectures and workshops are arranged by eminent personalities to deliver lectures on ethics, values, duties, and responsibilities and on saving the environment.

File Description	Documents
Details of activities that inculcate values necessary to transform students into responsible citizens	<a href="#">View File</a>
Any other relevant information	No File Uploaded

**7.1.10 - The institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic sensitization programmes in this regard: The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff Annual awareness programmes on the Code of Conduct are organized**

A. All of the above

File Description	Documents
Code of Ethics - policy document	<a href="#">View File</a>
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programmes, etc. in support of the claims	No File Uploaded
Any other relevant information	<a href="#">View File</a>

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

NEC as an institute of certain pristine principles and objectives guided by the faculty, management and some important wings which are inclined to conduct some national festivals, birth anniversaries of national leaders and create awareness on nationalism, Independence Day and republic day are celebrated every year.

The institution remembers the birth/death anniversaries of great Indian personalities like Mahatma Gandhi, Dr.A.P.JAbdul Kalam, Dr.Babasaheb Ambedkar. etc on these auspicious day eminent guests are invited as spokesperson to share views and throw light on their sacrifices laid for the wellbeing of the nation.

The institute conducts technical fest and engineers day annually where students exhibits their hidden talents by involving in different technical activities such as poster presentation, Group discussion and Seminars.

Short films and photography are encouraged to impart confidence amid them. NSS unit organizes many awareness events and welcomes students in blood donation campaigns etc., NSS unit takes the responsibility to address the prevailing social issues.

National education day is conducted on the birth anniversary of Dr .APJ Kalam. In this regard the institute conducts various competitions like essay writing and elocution. All national festivals are celebrated with reverence to build unity, among people of different racial and cultural backgrounds.

File Description	Documents
Annual report of the celebrations and commemorative events for during the year	<a href="#">View File</a>
Geotagged photographs of some of the events	No File Uploaded
Any other relevant information	No File Uploaded

## 7.2 - Best Practices

7.2.1 - Provide the weblink on the Institutional website regarding the Best practices as per the prescribed format of NAAC

### Title of the Practice:

**Bodana-Sadhana-Nipuna-Programme (BSNP)**

The NEC hosts idea-churning sessions with industry professionals and alumni entrepreneurs. By developing ideas into prototypes and then further shaping them into commercial models, students are aiming to become entrepreneurs. Students learn to use their knowledge and talents to identify societal and industrial problems and are oriented to provide feasible solutions for them. Community service project is made as credit course to promote BSNP activities.

### Title of the Practice:

**Ekalavya Programme (Encouraging students for self- learning)**

NEC believes in giving its students every opportunity to advance beyond traditional curriculum, enhancing their learning experiences and expanding their career options. As a result, the institution strives to live up to its ultimate aim of "Promoting Self-Learning." In this connection students are motivated to do online certification courses offered by NPTEL and other MOOCs. The efforts to promote additional certification courses have proven to be highly fruitful. NPTEL courses benefited and expanded the knowledge of 460+ students and faculty and 827 students completed other MOOCs certifications. credit transfer for MOOCs certification also provided to encourage students towards online learning.



File Description	Documents
Best practices in the Institutional website	<a href="https://www.nrtec.in/wp-content/uploads/2022/11/7.2.1.pdf">https://www.nrtec.in/wp-content/uploads/2022/11/7.2.1.pdf</a>
Any other relevant information	Nil

### 7.3 - Institutional Distinctiveness

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 200 words)

The Institute has a distinction by establishing several Centres of Excellence (CoE) and Industry Collaborative Laboratories.

#### CENTERS OF EXCELLENCE (CoE):

Andhra Pradesh State Skill Development Corporation (APSSDC), Government of Andhra Pradesh sanctioned a "CM's Skill Excellence Centre" to bridge the skill gap between the academic and the industry requirement.

Dassault Systems and ARC Labs were established in ME department stands which was supported by APSSDC to offer training in various technologies on CATIA, SIMULIA, DELMIA, useful for 3D design, analysis & simulation of various objects. An Indo-European skilling Centre for Mechatronics & Industrial Robotics lab was also established by APSSDC in collaboration with GC German Centre for Engineering & Management studies, Germany & ECM APS GmbH Aachen to establish a framework for initiating innovation models.

#### ICT ACADEMY:

ICT Academy is an initiative of the Government of India in collaboration with the state Governments and Industries, which provides a consultancy and training through industry experts.

#### E-YANTRA / EMBEDDED SYSTEMS AND ROBOTICS LAB:

The college takes relevant measures to improve research culture among the students and faculty in the field of Robotics. This lab

is established in association with IIT Bombay.

#### DOCTORITE APP:

Through this app students can connect and share their feelings anonymously and useful to know the mental health of the students for further counselling.

File Description	Documents
Appropriate link in the institutional website	Nil
Any other relevant information	<a href="#">View File</a>

#### 7.3.2 - Plan of action for the next academic year

- To increase external funding from various organizations and industries
- To have more functional MOUs with reputed institutions and industries.
- To increase publications in SCI/Scopus indexed journals
- To start new courses in emerging areas
- To Enhance employment Potential by introducing innovative courses
- To increase the number participation in online certification courses such as SWAYAM NPTEL, MOOCs etc.,
- To Organize Campus Recruitment Training with reputed organizations to enhance employability skills of the students
- To increase internships and industry related projects
- To have industry supported laboratories to bridge the gap between academia and industry
- Strengthening Placement cell by establishing TECH-HUB centre
- Initiatives to be taken for implementation of NEP 2020.