Yearly Status Report - 2019-2020

Part A	
Data of the Institution	
1. Name of the Institution	**NARAYANA ENGINEERING COLLEGE**
Name of the head of the Institution	**Ch.V.S.Parameswara Rao**
Designation	**Principal**
Does the Institution function from own campus	**Yes**
Phone no/Alternate Phone no.	**08624-252611**
Mobile no.	**9912355502**
Registered Email	**necgudur@necg.ac.in**
Alternate Email	**principal_g@necg.ac.in**
Address	**DURJATI NAGAR, GUDUR**
City/Town	**Gudur**
State/UT	**Andhra Pradesh**
Pincode	**524101**

2. Institutional Status

Affiliated / Constituent	**Affiliated**
Type of Institution	**Co-education**
Location	**Rural**
Financial Status	**Self financed**
Name of the IQAC co-ordinator/Director	**Dr.V.Sucharita**
Phone no/Alternate Phone no.	**08624252611**
Mobile no.	**9491923801**
Registered Email	**iqac@necg.ac.in**
Alternate Email	**necgudur@necg.ac.in**

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	http://www.necg.ac.in/IQAC/pdf/aqar-report-2018-19.pdf

4. Whether Academic Calendar prepared during the year	**Yes**
if yes,whether it is uploaded in the institutional website: Weblink :	http://necg.ac.in/pdf/MCA-VI-sem-Academic-Calendar-for-AY-2019-20.pdf

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	**A**	**3.10**	**2019**	**20-May-2019**	**19-May-2024**

6. Date of Establishment of IQAC	**21-Dec-2015**

7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
FDP on Professional Development & Capacity Building in Engineering	**13-Jul-2019** **1**	**44**

Education		
Seminar on Revised Assessment and Accreditation	07-Sep-2019 1	85
Workshop on Innovative Teaching methods in Engineering paradigm	11-Oct-2019 1	80
Two programme on quality improvement strategies for supporting staff	28-Feb-2020 2	78
A Webinar on Overview for Projects, R&D, Innovation and patenting	04-Jun-2020 1	300
one day seminar on research avenues an outlook	16-Dec-2019 1	68
Seminar on An Insight into NBA Parameters	16-Nov-2019 1	70
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8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
NIL	NA	NIL	2020 0	0
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9. Whether composition of IQAC as per latest NAAC guidelines:	**Yes**
Upload latest notification of formation of IQAC	[View File](#)
10. Number of IQAC meetings held during the year :	**2**
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	**Yes**
Upload the minutes of meeting and action taken report	[View File](#)
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	**No**
12. Significant contributions made by IQAC during the current year(maximum five bullets)	

Preparation for Autonomous. Outcome Based Education and Enhancements to existing practices. Reforms in the existing methodology to review and evaluate the teaching learning practices. Faculty are motivated to file the patents and publish the research work in SCI/SCOPUS and UGC approved journals.

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13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year

Plan of Action	Achivements/Outcomes
ISO Surveillance audit certification coordination	Coordinated and obtained ISO 9001:2015 Surveillance certification
Faculty Development Programs on Emerging technologies.	12 Faculty development Programs have been organised various departments.
Research	135 Research papers in International Journals and 6 books have been published
College Academic calendar	Each Department prepares detailed academic and event calendar for each semester in accordance with JNTUA schedule and implements as per the schedule. "
International/National Conferences/National level technical fest organized	National conference on Advances in Engineering and Technology.
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14. Whether AQAR was placed before statutory body ?	Yes

Name of Statutory Body	Meeting Date
Governing body	29-Nov-2019

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	Yes
Date of Visit	17-May-2019
16. Whether institutional data submitted to AISHE:	No
17. Does the Institution have Management Information System ?	Yes
If yes, give a brief descripiton and a list of modules	Planning and Development Administration

currently operational (maximum 500 words)

Finance and Accounts Student Admission and Support Examination Details: College has provided POS machines for fee payments. Payment and receivables are automated. Payroll module used for employee salaries. Strict Bio Authentication entry for college staff through MIS.

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Planning and Implementation

1.1.1 – Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

The curriculum overview is adopted as per the university. The effective implementation of the curriculum is done in the following sequence of action plan. One month prior to commencement of the academic year/semester HoDs conduct staff meeting and allot subjects based on their preference. During this one month, the staff prepares the course file which includes course notes, Question Banks, E-Learning materials etc, in advance. After the commencement of the academic year the college academic committee(CAC) meeting is conducted to prepare College academic calendar based on the academic schedule published by JNTUA considering the Teaching hours, Assessment, Curricular and co-curricular activities, Holidays and no of working days in first spell and second spell available for course delivery. College Academic Calendar is prepared as per the University academic schedule and action plan is prepared for the semester taking in to consideration the requirements at the department level like bridge courses, remedial classes, Guest lectures, tutorials, seminars, workshops etc. HODs conduct the meeting for the staff to explain the prepared and approved academic calendar. Then the same is circulated to the faculty and students. The faculty prepares and circulates the course plan which includes lecture schedule based on working hours, course outcomes, CO-PO mapping, reference books, ELearning resources etc meeting the Vision and Mission of the Department which match with the Institutional Vision and Mission. Program Educational Objectives (PEO) and Program Outcomes (PO) are developed for each program. Adopted the approach of Outcome Based Education for the effective delivery of the curriculum to facilitate the assessment and attainment of the course outcomes for different courses The Course delivery and syllabus completion status is monitored through formal and informal means. Seminars, Industrial visits, Guest lectures, workshops and Internships are conducted to enrich the curriculum. To Bridge the gap between the industry and Institute, certificate courses and Value added programmes are also conducted. Slow learners and advanced learners are identified based on the performance in the examinations. Slow learners are given special attention by conducting Remedial classes, extra classes, assignments, peer learning etc for each subject. Advanced learners are motivated to take up innovative projects, publishing research papers, participating in symposiums, workshops and conferences. Extra classes are also conducted to teach topics beyond syllabus for advanced learners. Tutorial classes are conducted in tutorial hours. Well-equipped library, E-resources and computer facilities like NPTEL video lecture enables the teachers to deliver the curriculum effectively in the classroom

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entrepre ne	Skill Development

		urship			
PCB Design and Fabrication	NIL	16/08/2019	5	NA	Skill development
"InfyTQ" training on "Python Language"	NIL	02/01/2020	5	NA	Skill development
PCB Design ingFabrication	NIL	16/09/2020	6	Employability	NA
Electrical Design Installation	NIL	10/02/2020	6	Employability	NA
Java Programming	NIL	21/10/2019	5	Employability	NA
Cyber security and Ethical hacking	NIL	16/10/2019	6	Employability	NA
Android app development	NIL	02/03/2020	5	Employability	NA
STAAD PRO	NIL	15/07/2019	7	NA	Skill development
NC Programming	NIL	16/09/2019	6	NA	Skill development
Auto CAD	NIL	19/08/2019	6	NA	Skill development
Tally	NIL	06/09/2019	6	NA	Skill development

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
Nill	NIL	Nill
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
Nill	NIL	Nill

1.2.3 – Students enrolled in Certificate/ Diploma Courses introduced during the year

	Certificate	Diploma Course
Number of Students	894	Nil

1.3 – Curriculum Enrichment

1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
Total Station	09/03/2020	49
ROBOT STUDIO	16/09/2019	50
Python Programming on Image Processing	21/10/2019	87
Hardware Implementation using Xilinx Vivado	28/10/2019	108
LabVIEW	18/02/2020	113
Object Oriented Concepts through JAVA	21/10/2019	57
Advanced Electrical Drives Automation	01/06/2020	44
App Mania	24/10/2019	95
Selenium	01/10/2019	117
Python programming	17/02/2020	92
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BTech	Electronics and communication Engineering	26
BTech	Computer Science and Engineering	21
BTech	Electrical and Electronics Engineering	19
BTech	Civil Engineering	23
BTech	Mechanical Engineering	15
MBA	Master of Business Administration	42
MCA	Master of Computer Applications	60
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

Feedback Obtained
The feedback process of the Institution for curriculum improvement is mentioned

below: A.FEEDBACK COLLECTION B.FEEDBACK ANALYSIS C. ACTION TAKEN REPORTS A.FEEDBACK COLLECTION Feedback for curriculum improvement has been taken from various stake holders like Student, Faculty, Parent, Alumni and Employer. The institution has established a system of collecting feedback on curriculum from the students in all courses twice in a semester generally at the end of every semester. Principal releases a circular to HODs desiring to collect the feedback from the stake holders on curriculum for the period ending of odd and even semester from the stake holder. The HODs collects the feedbacks from students, Parents, faculty members, alumni and employers for the completed semester. The feedback has been collected through the survey forms given to them where students can respond towards the structured questionnaire regardingthe key elements like sequence of courses, size syllabus, usefulness, relevance of textbooks and so on. B.FEEDBACK ANALYSIS: After the Structured feedbackreceived for Design and Review of syllabus Semester wise from: 1) Students 2) Teachers 3) Alumni 4) Parents and 5) Employers A Committee comprising of faculty members is constituted by HOD to analyse the feedback collected fromstake holders. Committee analyses the feedback so collected and submits aconsolidated report biasing on the feedback. As our college is a affiliated college therefore the curriculum prescribed by the university is followed. But to provide the latest knowledge to our students the curriculum gap has identified by collecting the feedback from our stakeholders in structured feedback form. Under this some of the questions were asked mainly to stakeholders like Overall opinion about content of syllabus. The analysis of odd and Even semesters will be done. C.ACTION TAKEN : After the feedback/suggestions collected from different stakeholders action has been taken in two different ways: i)The consolidated feedback reports are sent to University by Principal. ii)To fulfill the curriculum gap college has conducted various programmes

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
Mtech	Computer Science	18	Nill	Nill
Mtech	Power Electronics	18	2	2
Mtech	DECS	18	Nill	Nill
MCA	Master of Computer Applications	60	7	7
MBA	Master of Business Administration	120	40	40
BTech	Computer Science and Engineering	120	127	127
BTech	Electronics and Communication Engineering	120	79	79
BTech	Mechanical	60	15	15

	Engineering			
BTech	Electrical and Electronics Engineering	60	4	4
BTech	Civil Engineering	60	9	9
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2.2 – Catering to Student Diversity

2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	1317	206	81	37	5

2.3 – Teaching - Learning Process

2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Numberof smart classrooms	E-resources and techniques used
123	99	12	37	Nill	10
View File of ICT Tools and resources					
View File of E-resources and techniques used					

2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

To resolve day to day problems of the students, mentors are appointed for a batch of 20 students, and they will counsel the respective students twice in a month to solve the problems come across during their course of study Objectives of mentoring are: To monitor the students regularity discipline To enable the parents to know about the performance regularity of their wards. Counselling students for solving their problems and provide confidence to improve their quality of life. Guiding students to choose right career path for job, higher studies, Entrepreneurship, etc. Outcomes of the system : The attendance percentage of the students has increased to a greater extent. The number in detention of students has decreased consistently. In course of direct communication between mentor and the student there was a good improvement in the teacher-student relationship. The above resulted in attaining a better academic performance

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1523	123	1:12

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
123	123	Nill	23	20

2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Dr.P.Venkateswarao	Professor	Uttam Acharya Puraskar
2019	Dr.V.Sucharita	Professor	Leading Education of India Award
2019	Dr.V.Sucharita	Professor	Bharat Excellence Award
2019	Dr.V.Raviprasad	Professor	Best Teacher award
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2.5 – Evaluation Process and Reforms

2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BTech	01	IV Year II Sem	09/04/2020	23/12/2020
BTech	01	I Year II Sem	16/05/2020	25/02/2020
BTech	01	IV Year I Sem	08/11/2019	30/01/2020
BTech	01	III Year I Sem	08/11/2019	11/02/2020
BTech	01	II year I Sem	08/11/2019	24/02/2020
BTech	01	I year I sem	19/12/2019	20/05/2020
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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

The evaluation process adopted by the institution focuses on testing the skills and knowledge acquired by students during the completion of course. The process of internal evaluation adopted is focused around students. Continuous evaluation is practiced through tools like MCQs, assignments, practical, Mid – I and Mid – II examinations. The institution is engaged continuously in maintaining and improving the evaluation quality through several reforms. Being an affiliated institution to JNTUA, university's academic regulations and evaluation norms are followed. During the course of study in each semester, students are evaluated based on Internal Examinations (IEs) and End Examinations (EE) which are for 30marks and 70 marks, respectively. IE is for 30 marks that contains objective paper for 10 marks and subjective paper for 20 marks. For laboratory courses the IE is for 30 marks and is based on the regular performance of the student in the laboratory. For Project, the IE is for 60 marks and is based on assessment of student in different phases of the project. The reforms adopted by the institution in the evaluation process apart from university academic regulations are as follows: • The question bank is provided by the respective faculty to the Exam Center at the beginning of the semester. This ensures that course plans are kept ready prior to the commencement of the semester. • The Question Papers for the mid exams are set by the staff members from the question bank following a common pattern basing

on OBE system of education which includes COs and BT levels, which ensures that students study all the topics. • The answer books are shown to the students for discussion after the evaluation of internal exams helping to identify mistakes like: Totaling mistakes, answers not evaluated or impartial evaluation and in identifying their own mistakes. • The process of showing answer books to the students assures that evaluations are done without any partiality or favoritism. • Results are intimated to the students immediately after the completion of evaluation by displaying them on the notice boards and in the Moodle server. The same is communicated to their parents through SMS. Continuous assessment in Laboratories: Marks in the Labs continuous internal evaluation are awarded based on the observation, effective completion of experiment, record and viva voce on each experiment. The final internal marks for practical courses are allotted considering the aggregate marks allotted to all the experiments. Continuous assessment in projects: For the internal assessment of projects done in the IV year, a Project Review Committee (PRC) is formed for every department consisting of HOD, Project In charge and one senior faculty member. Regular seminars and reviews are conducted in different phases of the project and the performance of the students is recorded. The aggregate of all the marks obtained in all the reviews is considered to allot the final internal marks of each student. This ensures that each and every student compulsorily participates in all phases of the project.

2.5.3 – Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

The institute has a well-defined standard operating procedure to develop the academic teaching plans and followed through a well-defined academic calendars' given by JNTUA Ananthapuramu. The CIEs are scheduled and conducted as per the academic calendar. The schedule of CIE is announced to the students by each faculty on the first day of semester and is also displayed on the notice boards at the department and exam center. The external exams are conducted as per the schedule given by the Exam Center of university. The academic calendar shows the start and end of each semester stating various activities to be conducted, the internal examinations schedule and the tentative schedule of external examinations. Once received the academic calendar from University, the academics the respective head of the departments prepares the academic calendarwhich includes all the technical events, expert talks', co - curricular andextra co-curricular activities of their department and approves it by the Principal and Director. The academic calendar is circulated to all the faculty and students. It is displayed and uploaded on college website forfurther reference. We have strong IQAC cell for effective implementation and measure of teaching learning process in the coming future.

2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

http://necg.ac.in/CSE/po.php

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
05	BTech	Computer Science and Engineering	94	86	91.49

04	BTech	electronics and Communication Engineering	94	80	85.11
03	BTech	Mechanical Engineering	40	33	82.5
02	BTech	Electrical and electronics Engineering	48	45	93.75
01	BTech	Civil Engineering	31	27	87.10
E0	MBA	MBA	42	36	85.71
F0	MCA	MCA	59	59	100
D38	Mtech	DECS	2	Nill	00
D43	Mtech	PE	Nill	Nill	00
D05	Mtech	CS	Nill	Nill	00

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2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

http://www.necg.ac.in/IQAC/pdf/SSS-2019-20.pdf

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Resource Mobilization for Research

3.1.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Nill	0	NA	0	0

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3.2 – Innovation Ecosystem

3.2.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
Seminar on Challenges on machinelearning	CSE	22/01/2020
Technical Talk (Kalpataru Globel Alloys,Pvt. Ltd. Kadivedu)	CE	27/07/2019
Guest Lecture by Dr.Yella Rathaiah, Scientist(Rtd),	CE	03/08/2019
Guest Lecture on Additive Manufacturing.	MEC	26/09/2019
Seminar on Sustainable Manufacturing.	MEC	04/01/2020

Guest Lecture on Carriers in Tool Manufacturing and Product Design.	MEC	20/02/2020
Guest lecture on Power Electronics Applications in Power Systems.	EEE	27/09/2019
Expert Talk on Recent Advancements in Power systems	EEE	09/03/2020
Technical Talkon Computational Intelligence in Wireless Sensor Networks	ECE	11/01/2020
Seminar on High Throughput Satellite Systems	ECE	05/10/2019
Technical Talk on Energy efficient techniques in 5G Wireless Communication Systems	ECE	20/09/2020
Workshop on Importance of Programming using C Language under IIIC	CSE	06/09/2019
Seminar on on Recent Advances in Cloud Computing	CSE	30/08/2019
Seminar on Machine Learning	CSE	16/09/2019
Seminar on Wireless Sensor Networks Enabled Internet of Things	CSE	16/09/2019
Seminar on Challenges opportunities of machine learning in current scenario's	CSE	26/12/2019
Seminar on Patent Protection for Software released Inventions	IPR cell	20/02/2020
Guest Lecture on It is all within you' Personality Development	MBA	27/07/2019
Guest Lecture on Problems and Prospects of Entrepreneurship	MBA	27/09/2019
Guest Lecture on Goods Services Tax	MBA	27/12/2020
Skill Development program On Campus to Corporate	MBA	03/02/2020
Technical Talkon Optical fiber cables in 4G Technology	ECE	03/02/2020

3.2.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year				
Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Nil	NIL	NIL	Nill	NIL
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3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
1	Innovation and Incubation Cell	Narayana Engineering College Gudur	Nil	Nil	15/03/2019
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3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
0	3	3

3.3.2 – Ph. Ds awarded during the year (applicable for PG College, Research Center)

Name of the Department	Number of PhD's Awarded
NIL	Nill

3.3.3 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
National	Electronics Communications Engineering	25	00
National	Computer Science Engineering	33	00
National	Mechanical Engineering	12	00
National	Electrical and Electronics Engineering	5	00
National	Civil Engineering	8	00
International	Freshmen Engineering Department	1	00
National	Master of Business Administration	Nill	00
National	Master of Computer Applications	59	00
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3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Master of computer applications	1
Mechanical Engineering	12
Civil Engineering	3
Electronics and Electronics Engineering	7
Computer Science and Engineering	24
Electronics and communication Engineering	6
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3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Particle filtering based opticle flow computation model for crowd anomaly detection using gaussian mixture model	V.Sucharita	International Journal of Recent Technology and Engineering, 2019, 7(6), pp. 583–591	2019	1	Narayana Engineering college Gudur	1
A framework to automate cloud based service attacks detection and prevention	V.Sucharita	International Journal of Advanced Computer Science and Applications, 2019, 10(2), pp. 241–250	2019	4	Narayana Engineering college Gudur	Nill
Implementing frequent itemset mining by advanced distributed approach using matrix-based pruning	V.Sucharita	International Journal of Engineering and Advanced Technology, 2019, 8(5), pp. 2491–2493	2019	0	Narayana Engineering college Gudur	3

Wi-Fi Combined Visible Light Communication for Intelligent Transportation System	P.Rajasekar	International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-9 Issue-3, January 2020	2019	0	narayana engineering college gudur	Nill
Implementation of Low Power Null Conventional Logic Function for Configuration Logic Block	P.Rajasekar	Wireless Personal Communications, Volume 107, Number 04, August 2019, ISN 0929-6212	2019	0	narayana engineering college gudur	Nill
Design and implementation of power and area optimized AES architecture on FPGA for IoT application	P.Rajasekar	Circuit World, ISSN 0305-6120	2019	0	narayana engineering college gudur	Nill
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3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Design and implementation of power and area optimized AES architecture on FPGA for IoT application	Dr.P.Rajasekhar	Circuit World, 2020, 47(2), pp. 153–163	2019	Nill	Nill	Narayana Engineering College Gudur

Implementation of Low Power Null Conventional Logic Function for Configuration Logic Block	Dr.P.Rajasekhar	Wireless Personal Communications, 2019, 107(4), pp. 2231–2245	2019	Nill	Nill	Narayana Engineering College Gudur
Research on machine learning techniques for POS tagging in NLP	Dr.V.Sucharita	International Journal of Recent Technology and Engineering, 2019, 8(1 Special Issue 4), pp. 897–900	2019	Nill	3	Narayana Engineering College Gudur
Implementing frequent itemset mining by advanced distributed approach using matrix-based pruning	Dr.V.Sucharita	International Journal of Engineering and Advanced Technology, 2019, 8(5), pp. 2491–2493	2019	Nill	Nill	Narayana Engineering College Gudur
Implementing frequent item set mining by overcoming over-scan problems	Dr.V.Sucharita	International Journal of Engineering and Advanced Technology, 2019, 8(4), pp. 816–819	2019	Nill	Nill	Narayana Engineering College Gudur
Particle filtering based opticle flow computation model for crowd anomaly detection using gaussian	Dr.V.Sucharita	International Journal of Recent Technology and Engineering, 2019, 7(6), pp. 583–591	2019	Nill	1	Narayana Engineering College Gudur

mixture model							
A framework to automate cloud based service attacks detection and prevention	Dr.V.Sucharita	International Journal of Advanced Computer Science and Applications, 2019, 10(2), pp. 241-250	2019	Nill	Nill	Narayana Engineering College Gudur

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3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	2	207	Nill	10
Presented papers	8	29	Nill	Nill
Resource persons	Nill	4	5	2

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3.4 – Extension Activities

3.4.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
World First Aid Day	Govt.Hospital , Gudur	11	36
Vanam-Manam	Police Department ,Gudur	15	28
Helping Hands	Ome Sai Ram Charities,Gudur	10	64
Organ Donation Day	DYWO/SETNEL,Nellore	11	84
One Student and One Plant	AICTE	5	18
World Mosquito Day	Indian RedCross Society,Gudur	8	43
Kardaata e-sahyog Abhiyan	Income Tax, Department, Gudur	23	46
Walkathon for creating awareness on using " Eco friendly Ganesha"	Nestam Foundation, Nellore.	14	47
Blood Donation Camp	Indian Red Cross, Blood Bank, Gudur	10	38

Helping Hands Programme	Abhayakshtram, Renigunta	12	89
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3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
Helping Hands	Appreciation	Ome Sai Ram Charities,Gudur	64
World Mosquito Day	Appreciation	Indian RedCross Society,Gudur	43
Awareness Rally on Use of Clay Ganesh Idols	Appreciation	Nestam Foundation, Nellore.	47
Blood Donation Camp	Appreciation	Indian Red Cross, Blood Bank, Gudur	38
Helping Hands Programme	Appreciation	Abhayakshtram, Renigunta	89
Awareness Rally on Pollution Free Diwali	Appreciation	Rotary Club,Gudur	43
Pink Walk(Awareness Rally on Breast Cancer)	Award	Bhargav Health Foundation,Nellore	122
Distribution of Blankets	Appreciation	Geethamayi old age home, Nellore	58
Health Checkup Camp	Appreciation	Narayana Medical College, Nellore	140
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3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activites	Number of students participated in such activites
NSS	Rotary Club, Nellore	Financial Assistance to Breast Cancer Patient	10	34
NSS	Bhargav Health Foundation,Nellore	Pink Walk(Awareness Rally on Breast Cancer)	10	122
NSS	Rotary Club, Gudur	Awareness Rally on Pollution Free Diwali	5	43
NSS	Police Department,	Blood Donation Camp	10	38

	Gudur and Indian Redcross Society			
NSS	Abhayakshtram, Renigunta	Helping Hands Programme	12	89
NSS	Indian Red Cross, Blood Bank, Gudur	Blood Donation Camp	15	92
NSS	Nestam Foundation, Nellore.	Walkathon for creating awareness on using " Eco friendly Ganesha"	14	47
NSS	Indian RedCross Society,Gudur	World Mosquito Day	8	43
NSS	AICTE	One Student and One Plant	5	18
NSS	Police Department ,GudPolice Department ,Gudurur	Vanam-Manam	15	28
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3.5 – Collaborations

3.5.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
Workshop on Electronic Equipment Servicing	108	Narayana Engineering College Gudur	3
Certificate Course on PCB Design and Fabrication	110	Narayana Engineering College Gudur	40
FDP	69	Narayana Engineering College Gudur	40
Seminar	87	Narayana Engineering College Gudur	4
Seminar	79	Narayana Engineering College Gudur	4
Seminar	81	Narayana Engineering College Gudur	4
Workshop	95	Narayana Engineering College	8

Internship		5	Narayana Engineering College Gudur	10
Workshop		107	Narayana Engineering College Gudur	8
Seminar		65	Narayana Engineering College Gudur	4
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3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Internship	Industrial Linkage	Sathish Dhawan Space Centre-SHAR, Sriharikota	20/06/2019	16/07/2019	2
Internship	Industrial Linkage	MSME- Tool Room, central Institute of Tool Design, Hyderabad	19/06/2019	18/07/2019	2
Internship	Industrial Linkage	Vizag Steel Plant, Visakapatnam	01/07/2019	13/07/2019	1
Industrial visit	Industrial Linkage	NARL,Gadanki	16/08/2020	16/08/2020	53
Internship	Industrial Linkage	Star Techn ologies, Chennai	17/12/2019	31/12/2019	2
Internship	Industrial Linkage	EDGate Technologies Pvt.,Ltd, Bangalore	25/11/2019	11/12/2019	2
Internship	Industrial Linkage	Wine Yard Technologies , Hyderabad.	23/12/2019	04/01/2020	2
Industrial visit	Industrial Linkage	Integral coach Factor y(ICF), Chennai.	04/02/2020	04/02/2020	53
Industrial visit	Industrial Linkage	NIPPO Batteries,	29/02/2020	29/02/2020	65

Internship	Industrial Linkage	PANTECH Solutions, Chennai. Tada.	04/05/2020	23/05/2020	2

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3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
SVEC	22/10/2019	workshops on NBA	50

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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
350	572

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Classrooms with Wi-Fi OR LAN	Existing
Video Centre	Existing
Seminar halls with ICT facilities	Existing
Classrooms with LCD facilities	Existing
Seminar Halls	Existing
Class rooms	Existing
Laboratories	Existing
Campus Area	Existing

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4.2 – Library as a Learning Resource

4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
LibraryManagement System	Fully	2	2007

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	19082	2862300	377	139918	19459	3002218

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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional

(Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Dr.P.Penchalaiah	Java	Power Point Presentation-LMS	27/11/2019
G.Praveen Kumar	software testing	Power Point Presentation-LMS	27/11/2019
N.Koteswara Rao	Linux	Power Point Presentation-LMS	22/11/2019
Ch.Manjusha	Analog communication systems	Power Point Presentation-LMS	27/11/2019
R.Prashanthi	Mat lab programming	Power Point Presentation-LMS	20/11/2019
N.Kesava Rao	FLAT	Power Point Presentation-LMS	24/11/2020
P.K.VLal	DBMS	Power Point Presentation-LMSSoftw	25/11/2020
Dr.P.Venkateswara Rao	Mobile application development	Power Point Presentation-LMS	13/11/2019
Dr.V.Sucharita	Design thinking	Power Point Presentation-LMS	20/11/2019
Dr.P.Srinivasulu	RF Integrated circuits	Power Point Presentation-LMS	28/11/2019

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4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/ GBPS)	Others
Existing	646	6	90	1	6	1	7	90	0
Added	0	0	0	0	0	0	0	0	0
Total	646	6	90	1	6	1	7	90	0

4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

500 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
NIL	NIL

4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurredon maintenance of physical facilites
35	30.86	90	79.63

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

Physical Facilities Maintenance: The Administrative Officer (AO) assists Principal to maintain physical facilities such as laboratory, library, sports complex, computers, classrooms and hostel etc. in an efficient and effective manner. We adopt both Periodic maintenance and Breakdown maintenance to ensure Hygienic physical facilities. The details are given below: Maintenance of Computers: The technical staff viz., systems administrator and network administrator attached to the respective computer centers to service the computers in normal working days through periodical checking. When they become non serviceable, they report the matter to the faculty in-charge of the computer center and he/she in turn refers the same to the HOD, who arranges to get them repaired. Maintenance of Laboratories: Calibration of various equipment and instruments is left to the faculty in-charge of the respective laboratories, to decide when the meters are to be calibrated and instruments serviced. Calibration of one meter in a particular group is outsourced to a Standard Organization or its authorized agents. Using this calibrated meter as the standard, the other meters are calibrated by the technicians in the laboratory. The equipment is serviced annually by the local technical staff and if it is beyond their capacity, they refer it to the HOD, who arranges for repairing them. Library: The faculty, after requisite research and interaction with their colleagues and research counter parts, submit their suggestions for the required books to their HODs. This is discussed in the departmental faculty meeting and after a consensus indicated to the Library committee, which recommends the list to the Principal who in turn directs the librarian for procurement within the assigned the budget. Sports Games: The College gives preannouncements of conducting the sports and games to the students and by displaying them in the notice boards and by sending the circular to all the departments and class rooms. The responsibilities and due duties are distributed among the faculty members and PD for promoting and conducting the programs. The Institution also allows students to participate in sports and game regularly based on their time table Academic Facilities Maintenance: The Vice Principal (VP) assists Principal to efficiently run Academics by utilizing support of all the staff such as laboratory, library, computers and classrooms etc. Our Academics include Curricular, Co- curricular and Extra-curricular activities. Supporting Facilities Maintenance: The Administrative Officer (AO) assists Principal to maintain efficient and effective supporting facilities such as public address systems, CCTVs, Internet, RO Plant, DG Set, campus Security, hostels, Air Conditioning, kitchen and transport etc.Our Supporting Facilities include Need based assistance, Operational assistance, and 24 hours/day assistance. Maintenance of Power:Water supply is from one 5m diameter and one 10m diameter shallow wells. Water is pumped to the over-head reservoir and the outflow to the campus is by gravity. The drinking water is through 2 Nos. of 250 liters RO plants for the hostels canteen and 6 Nos. of 50 liters per hour RO plants for the academic blocks, providing drinking water supply to the campus 24x7 at various service points.

http://www.necg.ac.in/IQAC/pdf/Procedures.pdf

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Scholarship for the merit and economically backward students	333	5102300
Financial Support from Other Sources			
a) National	00	Nill	0
b)International	00	Nill	0
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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Softskill Development	17/09/2019	150	Instacks, Vijayawada
Softskill Development	01/07/2019	180	TCS ION External Training Center, Vijayawada
Yoga and Meditation	13/09/2019	65	Mrs.P. Padmavathi, District Secretary for Yoga MithraMandali, Nellore.
Yoga and Meditation	21/06/2019	92	Mrs.P. Padmavathi, District Secretary for Yoga MithraMandali, Nellore.
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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passedin the comp. exam	Number of studentsp placed
2019	Awareness on SSC exam	180	Nill	Nill	Nill
2019	Awareness program on Vario Competitive exams	132	Nill	11	Nill
2019	GATE-2020	108	Nill	3	Nill

2019	Awareness on Various Job Opportunities in Software Industry	Nill	95	Nill	80
2019	Career awareness on Higher Education	Nill	115	2	Nill
2019	Career awareness on Banking Sector	Nill	87	Nill	9
2019	"Career awareness on Opportunities in Civil Engineering"	Nill	35	Nill	1
2019	"Career awareness on job opportunities in core industry"	Nill	48	Nill	51
2019	Awareness on careers in investment banking	Nill	121	Nill	14
2019	"Awareness Program on Overseas Education and Opportunities"	Nill	112	2	Nill

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5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
11	11	3

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Nameof organizations visited	Number of students participated	Number of stduents placed	Nameof organizations visited	Number of students participated	Number of stduents placed
22 (FSS,AP TROID,CTRLS etc.)	1752	187	9 (TCS,CTS ,WIPRO etc)	483	45

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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2019	1	B.Tech	Electronics and Communicaton Engineering	WRIGHT State University, USA	MS, Computer Science
2019	1	B.Tech	Electronics and Communicaton Engineering	Narayana Engineering College, Gudur	M.Tech
2019	1	B.Tech	Civil Engineering	Annamacharya Institute of Technology and Sciences	M.Tech
2019	1	B.Tech	Electronics and Communicaton Engineering	George Mason University	MS, Data Analytics
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5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
Any Other	1
GATE	1
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5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Fairs and Festival conducted by Hobby Club.	College	135
Singing Competition conducted by Swara Club	College	29
College Hostel Day Celebrations	College	102
Cultural events in Fresher's Day celebrations	College	210
Cultural programs on Independence Day Celebrations	College	176
Utti Mahostav –	College	57

celebrations		
Narayana Engineering Cricket Championship (NECC) for boys	Inter College	96
Selection trials for JNTUA Intercollegiate Athletic Meet	InterCollege	173
Games conducted on the eve of National Sports Day	College	168
Indoor Games such as Chess, Caroms and Table Tennis on Independence day.	College	172
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5.3 – Student Participation and Activities

5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	Silver	National	1	Nill	15F11A0473	P.V.Kiran Kumar Reddy
2019	Silver	National	1	Nill	16F11A0420	D. Santhan Kumar
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5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

NECG Student Council representatives actively participate in various activities. They help in coordinating all the events related to academics, cocurricular Extra-curricular activities, with the guidance of teaching faculty. They perform lot of academic / administrative work with the help of other students. They also motivate other students to take part in the activities conducted in the Institute. They work as a medium between Principal, faculty and students. Principal being the Chairman of the Student Council, President, Vice - President, General Secretary and Joint Secretary positions are represented by students. All class representatives of UG and PG programs are the members of Student Council. Apart from the Student Council, the institute has various committees with adequate student participation / representation. Institute encourages participation of student representatives in various academic and administrative committees. Such participation enables them in developing better academic and administrative capabilities. There are 38 cells and committees involving student representation

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

The Institution has formed and registered an Alumni Association named "Alumni Association of Narayana Engineering College Gudur" under the Andhra Pradesh Societies Registration Act 2001 on 7th Nov 2015. If is functional with Executive members. • All the go out understudies of the college are dynamic individuals from the Alumni Association. The Alumni individuals have spread around the India and somebody in abroad are strengthen the college in different exercises. • Alumni interaction with the existing students of the college about their experience in their field of job. • The association helps in working up the system of the graduated class and aides in being in contact with the corporate world and aides in arranging asset people for courses, workshops, seminars, career guidance's, arranging field visits or trips in their organizations and aides in the arrangement procedure for the current understudies. The alumni (graduated class) participate through feedback on competencies gained during their student life and provide information to improve curriculum on a continuous basis. The graduated class assumes a crucial part in the position of the active graduates. Our graduated class bunches regularly encourage new graduated class and gives a gathering to frame new kinship or relationship and friendliness with individuals of comparable foundation.

5.4.2 – No. of enrolled Alumni:

152

5.4.3 – Alumni contribution during the year (in Rupees) :

145800

5.4.4 – Meetings/activities organized by Alumni Association :

Alumni Meeting was organized on 12-01-2020 and nearly 90 non financial benefits derived from Alumni. The alumni meet with a large participation was held in the college in the month of January 2020. Every year a grand event of passed out batches is being celebrated in the second week of january

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

For the proper functioning of the college and promotion of participative management, the college runs on a decentralized management operative process, wherein different committees have been framed by the Principal in the governance of the college. Such decentralized and participative management leads to a situation of harmony and congenial atmosphere in the college for the development of the students. A number of committees have been constituted by the Principal to run the college properly and smoothly. Senior members of different faculties head the respective committees. Principal, along with the faculty and the staff are being involved in the process of decision-making and its implementation. Principal and HODs always welcomes the suggestion and proposals of the faulty-members and committees and transforms them to applicative practices in the college. The In-Charges of different committees including extra-curricular student-centered and student-supporting activities as well as co-curricular activities have operational autonomy. The college has an Internal Quality Assurance Cell, which includes members from other institutes and senior teachers from the college. IQAC meets at regular intervals and plays a crucial role in the implementation of its plans and policies.

6.1.2 – Does the institution have a Management Information System (MIS)?

	Yes

6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Curriculum Development	Institute follows CBCS system in which students can opt for courses of their choice from the available options provided under elective courses category. The institute has its welldefined process to plan and execute activities for effective implementation of the curriculum delivery. Objectives and outcomes are defined for every course of every program and it is ensured that they are fulfilled at the end of every course.
Teaching and Learning	The learning environment motivates active engagement of students in the development of personal skills and competencies. Interactive instructional techniques that engage students in innovative thinking and critical assessment, through the use of interviews, focused group discussions, debates, projects, presentations, internship and application of ICT resources, are actively implemented. Considering the advancements in technology and need of implementing innovative teaching practices, teachers are encouraged to attend different training programs which add more value to their technical expertise and teaching practices/ methodologies. The institution also conducts remedial classes, bridge courses, communication skills development programs, preplacement training, group discussions etc., for the holistic development of students. Institute takes initiatives to assess learning levels of the students through induction program, survey and performance in various examinations. Based on this evaluation special need based activities are undertaken.
Examination and Evaluation	1. Setting of IE question paper: The Question Papers for the mid exams and unit tests are set by the committee appointed in the exam center. The Questions are chosen from the question bank provided by the faculty at the beginning of the semester. This ensures that the course plans are ready prior to the commence of the semester and

	promote students to prepare on all topics. 2. Unit Tests: Unit tests are conducted to students for formative assessment purposes. This helped faculty to identify slow/weak learners and take necessary actions. Two such Unit tests are conducted in a semester. 3. Multiple Choice Questions (MCQs)/Objective Tests: The college has introduced Objective tests during the mid exams.
Research and Development	Our institute has its own code of ethics to ensure quality and legitimate practices in research which are been published on the institute Website. Research papers are published every year by faculty members in reputed Journals including UGC recognized Journals.
Library, ICT and Physical Infrastructure / Instrumentation	The library of the institution is equipped with Library Management System services which is automated through a software program, designed and developed by our own team. ILMS Software Package is an Integrated Library management System (ILMS) with Barcode Scanner that supports all inhouse operations of the library. Library web OPAC link is provided on college website http://45.123.0.154/Itouchnecng to students and faculty for searching library materials. Institute library is also using institutional repository where Journals/Articles) Question Papers/Paper presentations/EBooks/ Thesis Dissertations are made available.
Human Resource Management	Online Bio-metric system Automated Payroll system Grievance system
Industry Interaction / Collaboration	Enabling students to aware of realworld phenomena, we encourage field visits, internships and invited guest lecturers from industry.
Admission of Students	Student Admission is done Through web counselling.counseling. LMS: MOODLE : A userfriendly Learning Management System (LMS) is used by the faculty andstudents that supports learning and training needs

6.2.2 – Implementation of e-governance in areas of operations:

E-governace area	Details
Planning and Development	EMPLOYEE PROFILE EMPLOYEE ATTENDANCE DETAILS EMPLOYEE LEAVE REQUEST

Administration	INVENTORY MANAGEMENT DEPARTMENT REQUISITION ITEM STOCK REPORT GENERAL MAINTENANCE AND STATIONARY DEPARTMENT MATERIAL ISSUES
Finance and Accounts	STUDENT INFORMATION SYSTEM STUDENTS SCHOLARSHIPS HOSTEL STUDENTS PAYMENTS RECEIPTS ONLINE FEE PAYMENT STUDENT DETAILS FOR ONLINE FEE PAYMENT
Student Admission and Support	STUDENT DETAILS ENTRY STUDENT ADMISSIONS REPORTS STUDENTS HALLTICKET NO. ENTRY SUBJECT WISE ATTENDANCE REPORTS SMS REPORTS LIBRARY INFORMATION.SYSTEM BOOKS TRANSACTION HISTORY BOOKS ISSUE ENTRY BOOKS RETURN ENTRY
Examination	STUDENT MARKS ENTRY UNIVERSITY EXAMS MARKS UPDATION UNIVERSITY MARKS ANALYSIS REPORT STUDENT PROGRESS REPORT STUDENT PROMOTION – COURSE COMPLETION

6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	Dr. P Venkateswara Rao	National Conference on Brain Stroming in Computer Science (BSTORCS-2020).	NA	3000
2019	Dr. V Sucharita	National Conference on Brain Stroming in Computer Science (BSTORCS-2020).	NA	3000
2019	SK Khadar Basha	One Week Faculty Development Program on Digital Marketing Personal Branding.	NA	1300
2019	M Muralikrishna Reddy	One Week Faculty Development Program on Digital Marketing Personal	NA	1300

2019	HariKumar	One Week Faculty Development Program on Digital Marketing Personal Branding.	NA	1300
2019	Dr. B V Krishnaiah	International Conference on Thermo-Fluids and Energy Systems.	NA	4000
2019	Dr. V Sucharita	International Conference on Computational and Bio Engineering.	NA	2000
2019	Dr. P Venkateswara Rao	International Conference on Computational and Bio Engineering.	NA	2000
2019	K Rahul	Faculty Development Programme on Research Methodology.	NA	500
2019	Dr. V Srinivas Viswanath	Faculty Development Programme on Research Methodology.	NA	500
		[View File](#)		

6.3.2 – Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2019	FDP on Advanced Wavelet Transforms for Signal and Image Processing Applications	NA	16/12/2019	21/12/2019	36	Nill

2019	Webinar on Latest Methodologies Trends in Software Testing.	NA	20/06/2020	20/06/2020	159	Nill
2019	Webinar on CMOS Integrated Full-Duplex Radios.	NA	10/06/2020	10/06/2020	272	Nill
2019	Webinar Series on "EEED WEBINAR SERIES".	NA	08/06/2020	13/06/2020	299	Nill
2019	Webinar on Impact of COVID-19 on Indian Economy Insights From Data Analytics	NA	08/06/2020	08/06/2020	175	Nill
2019	Webinar on Overview for Projects RD Innovation and Patenting.	NA	04/06/2020	04/06/2020	445	Nill
2019	Webinar on Adaptive Signal Processing and its Applications.	NA	03/06/2020	03/06/2020	453	Nill
2019	Webinar on INDUSTRY 5.0: Next-Gen Technologies.	NA	27/05/2020	27/05/2020	219	Nill
2019	Webinar on Machine Learning for Beginners	NA	23/05/2020	23/05/2020	500	Nill

| 2019 | NA | Training Program on Office Administrative Works | 26/12/2019 | 26/12/2019 | Nill | 9 |

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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Training on System Design using Xilinix Vivado Tool, Matrusri Engineering College, Saidabad.	1	10/08/2020	12/08/2020	3
Webinar on NAAC Revised Accreditation Guidelines Role of IQAC in Post COVID-19 Era, St. Vincent Pallotti College of Engineering Technology, Nagapur.	1	06/08/2020	06/08/2020	1
Workshop on "ROBOTICS", KUPPAM ENGINEERING COLLEGE, KUPPAM.	1	31/07/2020	02/08/2020	3
Webinar on "Revised Assessment and Accreditation (AA) Framework of NAAC: IIQA, DVV and SSS", Paschim Guwahati Mahavidyalaya, Guwahati.	1	30/07/2020	30/07/2020	1
Webinar on Outcome Based Education (OBE) - Competency Profile Mapping	1	30/07/2020	30/07/2020	1

with Courses and Course Outcomes (Cos), Sri Eshwar College of Engineering, Coimbatore.				
Webinar on Cloud Computing, Dr. C.V. Raman University, Kota Bilaspur.	1	29/07/2020	29/07/2020	1
Workshop on R-Programming, Malla Reddy Institute of Technology and Science, Ibrhimpatanam.	3	28/07/2020	30/07/2020	3
Faculty Development Program on MSP430, MATLAB Tools Its Applications, KSRM College of Engineering, Kadapa.	1	28/07/2020	30/07/2020	3
Webinar on MEMS NEMS – Sensors and Actuators, PSNA College of Engineering and Technology, Dindigul.	1	28/07/2020	28/07/2020	1
STTP (Short Term Training Program) on "FUNDAMENTALS of RADAR SIGNAL PROCESSING-1", RISE Krishna Sai Prakasam Group of Institutions, Ongole.	1	27/07/2020	11/08/2020	14
[View File](#)				

6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
123	123	106	106

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
provident fund ,ESI,Group Mediclaim Policy	Fee concession for the children of non-teaching staff members,provident fund ,ESI,Group Mediclaim Policy	Gymnasium Facilities, Mentoring Program

6.4 – Financial Management and Resource Mobilization

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

Narayana Engineering college (a unit of Narayana Educational Society) ensure that both internal and external audits are conducted on all the aspects of financial functioning of the institute to make sure that the same are carried in a systematic and in an orderly manner, without any deviation from the laid down financial policies and procedures. To carry out internal audit duties, the institute has a dedicated internal audit team consisting of well qualified and experienced staff members. Internal audit team conducts auditing of the Institute's functioning to assure that the set of functions of the institution are carried out in a proper manner. Audit focuses on financial and other related matters, which are included in the manuals. Internal audit after thorough verification of various functions of different aspects, prepare their initial report indicating inaccuracies and deviations in the implementation of the financial policies and procedures of the institution. In doing so, they can find out irregularities in the maintenance of records to bring the same to the notice of the concerned officials. Initial report prepared will be discussed with the chief finance manager to arrive at the final audit report. Final report will be submitted to the Governing body for its approval and ratification, Apart from the internal audit, the institute engages a reputed firm/agency for conducting external audit in the institute. Such firm or agency conducts its audit normally once in a financial / academic year. External audit conducts detailed audit on all the financial dealing carried in the institute. These both audits' aim and objective is to ensure that all the financial functions are carried in a very systematic manner in line with the policy and procedures laid down by the institute, without any deviation and are supported by vouchers, duly approved by the authorized official. This way the audits ensure that all the functions are carried out in the strict interest of the institute and are directed towards the prosperity and development of the institute. Copy of the final audit report is brought to the knowledge of the concerned officials to rectify the inaccuracies and inconsistencies occurred in their working. This report also is directed to caution them in not repeating the same or similar mistakes in future.

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
RAMAVENKATASATHYANARAYANA	7500	FUNDED FOR PROJECTS
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6.4.3 – Total corpus fund generated

00

6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	KLU,SPMVV	Yes	College appointed Committee and IQAC
Administrative	Yes	KLU,SPMVV	Yes	College appointed Committee and IQAC

6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

Involvement of parents is done in various ways. They contribute in giving valuable suggestions for feedback on curriculum. They give suggestions for improving the facilities of the organization in parents meet. There will be frequent interaction between faculty coordinators and parents which helps to provide timely support and encouragement to students in times of need.

6.5.3 – Development programmes for support staff (at least three)

Training Program on Office Administrative Works. Workshop on Computer Hardware Assembling. Expertise on Spectrum Analyzer, Analog and Digital IC Tester. Workshop on Substation Design. PDP on Keil Software.

6.5.4 – Post Accreditation initiative(s) (mention at least three)

Post accreditation the following efforts were made to increase quality: Encouraged faculty to acquire higher qualification through research, Encouraged the faculty to participate in webinars, orientation, training programs, FDPs, conferences. Faculty are encourages to publish research papers in scopus/web of science/SCI No of training programmes have been organized for students like increasing practical exposure by arranging industrial visits. Submitted a proposal to UGC for the grant of Autonomous status.

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	No
b)Participation in NIRF	No
c)ISO certification	Yes
d)NBA or any other quality audit	No

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	A Webinar on Overview for Projects, RD, Innovation and Patenting	04/06/2020	04/06/2020	04/06/2020	300
2019	Two Day Program on	28/02/2020	28/02/2020	28/02/2020	78

	Quality improvement strategies for Supporting Staff				
2019	A One Day Seminar on Research Avenues- An Outlook	16/12/2019	16/12/2019	16/12/2019	68
2019	Seminar on An Insight into NBA Parameters	16/11/2019	16/11/2019	16/11/2019	70
2019	Workshop on Innovative Teaching methods in Engineering Paradigm	11/10/2019	11/10/2019	11/10/2020	80
2019	Seminar on Revised Assessment and Accreditation Framework of NAAC	07/09/2019	07/09/2019	07/09/2019	85
2019	Seminar on Professional Development Capacity Building in Engineering Education	13/07/2019	13/07/2019	13/07/2020	44
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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Awareness Program On Breast Cancer	29/10/2019	29/10/2019	292	Nill
Just A Minute Program on "Gender Parity Vs Gender Equality"	29/09/2019	29/09/2019	34	Nill

Guest Talk on "Women in Engineering & Related fields"	23/09/2019	23/09/2019	71	Nill
Awareness Program On "Women Entrepre neurship"	19/02/2019	19/02/2019	35	Nill
Awareness Program On "Psychological Well Being"	13/09/2019	13/09/2019	53	Nill
Mother Teresa Birthday Celebrations	26/08/2019	26/08/2019	82	Nill
Sensitization Workshop On Eve Teasing	06/08/2019	06/08/2019	148	Nill
"International Women's Day 2020"	07/03/2020	07/03/2020	117	Nill
"Women Empowerment programmes /Schemes"	25/02/2020	25/02/2020	51	Nill
Women rights and legal awareness	19/02/2020	19/02/2020	70	Nill
An Awareness Program on "Women security"	15/02/2020	15/02/2020	120	Nill
World Cancer Day 2020	04/02/2020	04/02/2020	65	Nill
National Girl Child Day	24/01/2020	24/01/2020	75	Nill

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources

The annual energy demand for the academic year 2019-20 (i.e from Jun-2019 to May-2020) drawn from APSPDCL is KWH S.No. Month Consumed Energy (Kwh) 1 Jun-2019 17756 2 Jul-2019 23628 3 Aug-2019 14960 4 Sep-2019 16924 5 Oct-2019 16506 6 Nov-2019 17444 7 Dec-2019 16974 8 Jan-2020 12480 9 Feb-2020 11870 10 Mar-2020 15896 11 Apr-2020 11542 12 May-2020 4712 Total Annual Energy 180692 The annual energy demand met by the Institution from the installed renewable energy source (i.e., Solar) S.No. Month Energy Supplied by the Solar Plant (Kwh) Energy exported to the Grid (Kwh) Energy utilized by the college (Kwh) 1 Jun-2019 36988 8620 28368 2 Jul-2019 31509 16980 14529 3 Aug-2019 27503 9230 18273 4 Sep-2019 32206 13598 18608 5 Oct-2019 31607 11792 19815 6 Nov-2019 31480 14960 16520 7 Dec-2019 30961 14460 16501 8 Jan-2020 28715 16748 11967 9 Feb-2020 37448 22640 14808 10 Mar-2020 40421 22570 17851 11 Apr-2020 46528 29272 17256 12 May-2020 41247 35576 5671 Total Energy 416613 216446 200167 From

Solar Power Plant Total Annual Energy utilized by the college Energy consumed by the SPDCLEnergy consumed from the Solar Plant 180692200167 380859 Kwh Annual Renewable energy generated and used 416613 Kwh Annual Energy supplied to the Grid 216446 Kwh Therefore,Percentage of annual power requirement of the institution met by the renewable source annual energy requirement met by renewable source /annual energy requirement100 216446 Kwh /380859 Kwh 100 56.83

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	Nill
Provision for lift	Yes	Nill
Ramp/Rails	Yes	Nill
Braille Software/facilities	Yes	Nill
Rest Rooms	Yes	Nill
Scribes for examination	Yes	Nill
Special skill development for differently abled students	Yes	Nill
Any other similar facility	Yes	Nill

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2020	1	Nill	30/01/2020	1	Awareness Program on Dengue Fever	The stagnant water because of unexpected rains in some of the areas nearby our college increased the mosquito breeding rate	68
2020	1	Nill	05/02/2020	1	Usage of Drones in Paddy Fields	To modernize the agricultural a	50

						ctivities, to reduce labour and to improve crop care	
2020	1	Nill	11/02/2020	1	Education-Awareness to School Dropouts	In villages children are dropping their studies	47
2020	1	Nill	10/03/2020	1	Awareness Programme on Accident Prone Zones	10 to 15 members met with road accidents in the his high ways near college	48
2020	Nill	1	06/02/2020	1	Medical Camp	o provide free and high-quality medical services	54
2020	Nill	1	13/03/2020	1	Nutrition Awareness Campaign	To have an awareness of food hygiene regulations and to be able to put them into practice, we have conducted an Awareness Rally on Nutrition.	38
2020	Nill	1	17/03/2020	1	Onlibe EAMCET Mock Test	To enable the EAMCET Aspirants to get familiarize	110

| 2020 | Nill | 1 | 24/03/2020 | 1 | Awareness Program On Tb | To protect people from dangers of tobacco smoking and creating completely smoke-free in public places, workplaces and public in transport | 48 |

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7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Code of Conduct -HR Policies	01/01/2019	HR Policies and Handbook

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Non-Violence-Independence Day	15/08/2019	15/08/2019	160
Need of human values in higher education and society	21/09/2019	21/09/2019	100
Communal Hormony-Gandhi Jayanthi	02/10/2019	02/10/2019	40
Unity in Diversity-National Unity Day	31/10/2019	31/10/2019	70
Social Service-Visited Old Age Home	23/11/2019	23/11/2019	30

National Integrat ion-National Constitution Day	26/11/2019	26/11/2019	40
Peace and Unity in Diversity- Republic Day	26/01/2020	26/01/2020	175
Role of students in society.	07/02/2020	07/02/2020	90

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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

Institute has conducted various programmes like Vanam Manam, one student one plant, Awareness rally on the use of clay ganesh idols, Awareness rally on pollution free diwali, Plastic free society campaign. To support and build healthy environment it becomes necessary to adopt green practices. Being a leading institution of Technical Education, Institute initiated various Green Campus activity which will support sustainable environmental development. 'The Green Campus' practice actively promoted the various programs for the environment protection and sustainability such as, plastic free campus, paperless office, green landscaping with tree and plants. To avoid use of plastic staff and students use non-plastic items in the institute campus like institute canteen, store, office etc. Our College took an initiation to reduce the plastic bags usage in the campus in this process college has prevented usage of plastic bags in college canteen and in college.premises. Plastic is banned on campus and the same is prominently displayed on all notice boards and corridors. Awareness posters and pamphlets are displayed in prime locations of the campus. College discourages use of plastic by conducting awareness programs to staff and students Institution has organized clay Ganesh campaign to educate all the students, staff and community aware of using eco-friendly Ganesh for the Ganesh Chathruthi festival. College announced that they will not allow selling bottled water in the campus. Every year each department celebrates fests. During the fests, in the last four years we have popularized green practices by encouraging use of eco-friendly alternatives.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best Practice- I 1. Title of the Practice: Students' Academic Excellence in teaching learning process 2. Objective: Departments in the college are actively involved in improving the overall results and academic excellence of students. Apart from regular classes remedial classes/coaching for slow learners and various other academic related programmes for advanced learners, are being conducted for achieving academic excellence. 3. The Context: As our college is located in rural area and due to socio-economic disparity, students of the college come from various backgrounds and with different abilities of learning. To improve the performance of the weak students, extra classes are conducted where ever necessary. Though some of the students have good knowledge and good understanding levels they are not in a position to avail the opportunities of learning latest technologies due to lack of exposure to career opportunities and training. 4. The Practice: To improve the performance of students the following programmes were initiated: Slow learners: • Apart from regular classes Remedial classes are arranged for slow learners for improving their performance. • Remedial Coaching is also given to those underperformed in end semester exams of the university. Remedial coaching is conducted during extra hours to clear the backlogs. • Tutorial classes are conducted in every subject to understand the subject better. Based on the student's requirements topics are taught in tutorials. • Teachers take extra classes to revise the difficult

concepts for better understanding. • The parents of slow learners are given information about their wards performance periodically. • Peer learning and group interaction is encouraged involving meritorious students. • Question bank with key is provided CDF Program (Concepts, Definitions and Formulae) is conducted for Engineering Mathematics, Physics and Chemistry. • Self learning sessions are arranged. Advanced Learners: • Soft skills training Programme, coding skills development, entrepreneurship awareness programmes are organized are arranged for advanced learners. • Special placement training to excel in placements is given by reputed organizations. • Gate coaching is given by Eminent and well known faculty from reputed institutes on Saturdays and Sundays. Students who underwent these courses have performed better in competitive exams. • Certificate Courses are also conducted for advanced learners. • Extra books are provided in the library. • Additional Assignments. • They are encouraged to refer NPTEL videos, e-books etc • Encouraged advanced learners to participate in workshops, conferences and symposia. 5. Evidence of Success: • Increase in the pass percentage clearly indicates the success of remedial coaching and remedial classes. • Because of remedial coaching the success rate in the university supplementary examination has improved. Because of the remedial classes the overall pass percentage in the university end exams has increased. • The guidance given to the advanced learners has helped them to excel in their participation in various activities like conferences and symposia. • The number of students pursuing higher studies in institutions and universities of academic excellence is good. • The training programmes for students have given them new academic and communication skills equipping them to face campus interviews and in 300 students getting jobs through campus interviews. Overall these support programmes have helped in improving the quality of teaching learning process. 6. Problems Encountered and Resources Required: Due to the hectic schedules given by the university we are encountering challenges to find time slots for conducting remedial classes. In spite of this difficulty we are somehow able to conduct the remedial classes. Some of the students are finding it difficult to attend remedial coaching before supplementary exams Best Practice -II 1. Title of the Practice: Community Reach through NSS 2. Objective The main objective of this initiative by the staff and students of the college is to reach out to the necessities of the society at large and to give back to the community. Creating awareness in the public on several issues they face in their day to day life, helping economically backward people, orphans and old age persons etc. are some of the initiatives taken up to contribute to the society. 3. The Context: There is a growing tendency in present academia to reach out to the society at large and contribute to the wellbeing and betterment of living conditions prevailing in society. Some of the Students and staff of the college are voluntarily coming forward to contribute to remove disparity in different areas. The most important arenas in which contribution is made are giving financially aid, bringing awareness on several issues etc. NSS unit of Narayana Engineering College Gudur is thus a collective initiative of students and staff of the college to understand social problems troubling immediate local community in and around Gudur to integrate these issues with academic study. 4. The Practice: To inculcate qualities of charity, brotherhood and kindness to fellow human beings, college initiated various programmes meant specifically for the uplifting of community in Nellore district. Blood donation programmes organized by the students and staff for Blood Bank, Medical Association, Nellore is an exemplary social service practice. Awareness programmes on dengue fever, Right to information act, Anti ragging, legal literacy and cashless transactions. Blood donation camps in association with Red Cross, Rotary and Medical college, medical camps, dental camps and awareness on child education, plantation of trees, repairing roads are also taken up in the adopted villages like, Bhudhanam, Eruru and Vindooru. Financial helps to the needy people, orphanages, and oldage homes. Visiting old age homes and homes of physically challenged

individuals is another activity carried out for students under the guidance of teachers. During every Semester, students and staff of the college visit old age homes, observe and understand their living conditions and help them to lead a better life. Our teachers and students are familiar to the inmates of Mother Theresa old age Home, and abayakshetram in Renegunta etc as they regularly go there and interact with the inmates. Activities initiated by the NSS unit are Tree plantation, repairing of roads, Clean and green activity, awareness programs on clay Ganesh, pollution free diwali celebrated every year for Poor students. Mainly through the initiative of NSS unit, college observes all important national and international days of social importance like First- Aid-Day, Human Rights Day, International Women's Day, Mental health day, global hand washing day, national unity day, voters day, International yoga day etc in the campus and at times extended to beyond the campus. The various programmes associated with these days are like rallies, camps, distribution of medicines, conducting seminars are organized in order to develop awareness on social issues to students and the general public. Programmes on Swatch Bharat, Road safety, Nutrition week are also organized. 5. Evidence of Success: The various programmes under NSS unit initiative have been successful in educating humanity and charity in the students. These programmes are highly successful in bringing awareness in students and public on community living. College and students are given number of awards for various outreach activities. Patients and poor people who are benefitted from various outreach programmes themselves are testimony to the success of those programmes. The observance of various national and international important days is instrumental in spreading basic awareness in the students. The awesome response from the society and those who received help from the College is an important factor that encourages the students to continue their activities. 6. Problems Encountered and Resources Required: Usually general public has a tendency to look down upon the awareness programmes conducted by the students. So was a challenge in the beginning to involve general public to these activities. Students are finding it difficult to balance academic schedules and extension activities, simultaneously. Financial constraints also have restricted the activity to areas in and around the college, Lack of interest in some students, Funds mobilization etc have created some problems in providing extension activities.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

http://www.necg.ac.in/IQAC/pdf/best%20practices.pdf

7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

The vision of Narayana Engineering College, Gudur, is to be one among the premier institutions of the country in producing ethically strong and Technically sound Engineers and Managers to serve the nation. Based on the vision, priority and thrust, the institute consistently provides the best learning experience, to the most productive learning community and in the most creative learning environment in engineering education and to produce socially responsible engineers and managers. In line with the institute's mission statement and to accomplish the vision and translate it into a reality, the institution has been using the best teaching learning methodologies like participative learning, experiential learning etc. These learning methodologies can be obtained through industry interactions.The industrial collaboration is strengthened to imbibe professional qualities in students for making them conversant with industrial practices. Interaction between institutes and industry is the need of the hour. For students it is important because they get exposure to industry and in getting subsequent placement in various

disciplines. Industries are also in need of good students who are well versed with industry standards and capable of achieving those standards. Therefore, there is every need for interaction of industry and academics where academic institutes can prepare students for jobs in multinational companies and industry will also be benefited with the possibility of getting well-trained students. Hence bridging the gap between industry and the institute is a must, to achieve this objective an Industry Institute Interaction Cell (IIIC) was established in 2013 in the institution. The objective of the industry interaction cell is to cultivate strong links with industry, promote various activities by faculty and students. To provide continuing education, with the help of persons working in industries so that they can improve their technical knowledge. 68 activities were conducted under Industry interaction cell during the last five years. The industrial collaborations also help in leaning competent core technological skills in respective thrust areas. This is mainly done to enhance the practical learning experience of students beyond the theoretical academic structure of the curriculum and it also helps to enhance the industry institute interactions.

Provide the weblink of the institution
http://www.necg.ac.in/IQAC/pdf/Institutional%20distinctiveness.pdf

8.Future Plans of Actions for Next Academic Year

Getting the autonomous status. Curriculum designing for the next academic year. Strengthening of Teaching-Learning process Increasing the number of journal and conference publications Encouraging faculty to apply for financial assistance from the outsources for organizing Seminars/ Conferences/ Workshops and research projects. Conducting International and National Conferences. Enhancing Communication and Coding skills of students. Developing E-learning resources. Strengthening the documentation standards of OBE Implementation