Yearly Status Report - 2019-2020

Part A	
Data of the Institution	
1. Name of the Institution	**NAGARJUNA COLLEGE OF ENGINEERING AND TECHNOLOGY**
Name of the head of the Institution	**Dr. Srikanata Murthy K**
Designation	**Principal**
Does the Institution function from own campus	**Yes**
Phone no/Alternate Phone no.	**08067462700**
Mobile no.	**9900194584**
Registered Email	**principal@ncetmail.com**
Alternate Email	**srikantamurthyk@ncetmail.com**
Address	**Nagarjuna college of Engineering & Technology Venkatagirikote post, Devanahalli**
City/Town	**Bangalore**
State/UT	**Karnataka**

Pincode	**562110**

2. Institutional Status

Autonomous Status (Provide date of Conformant of Autonomous Status)	**21-Jul-2015**
Type of Institution	**Co-education**
Location	**Rural**
Financial Status	**Self financed**
Name of the IQAC co-ordinator/Director	**Dr. Gururaj M**
Phone no/Alternate Phone no.	**08067462703**
Mobile no.	**9066694433**
Registered Email	**iqac@ncetmail.com**
Alternate Email	**principal@ncetmail.com**

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	https://ncet.co.in/iqac

4. Whether Academic Calendar prepared during the year

4. Whether Academic Calendar prepared during the year	**Yes**
if yes,whether it is uploaded in the institutional website: Weblink :	https://ncet.co.in/news/calendar-of-events-for-odd-semester-2019-20

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	**A**	**3.11**	**2016**	**25-May-2016**	**31-Dec-2021**

6. Date of Establishment of IQAC

6. Date of Establishment of IQAC	**06-Feb-2006**

7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by	Date & Duration	Number of participants/ beneficiaries

IQAC		
NIRF	31-Jul-2020 1	86
AISHE	27-Feb-2020 1	90
LIC	22-Jun-2020 1	116
ARIIA	26-Nov-2020 1	56
IQAC audit	16-Jan-2020 1	67
Submission of AQAR previous year	23-Dec-2019 1	136
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8. Provide the list of Special Status conferred 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
Mechanical Engg	DBT	VGST	2019 1095	1000000
ECE	AICTE MODROB	AICTE	2020 730	800000
Civil	AICTE RPS	AICTE	2019 365	386933
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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)	

IQAC has initiated an Outcomes Based Education (OBE) to reform the teaching and learning process in the institution. 2 IQAC has efficiently guided the departments to conduct the workshops /FDPs /seminars/ conferences in the emerging technologies. 3 IQAC has created a frame work and extended complete support to departments in preparing the SSR for the 2nd cycle of NAAC accreditation. 4 IQAC has created the process for Academic and Administrative audits Certification of Rating ,Ranking Awards and Staff, students achievements. 5 IQAC has Organized Quality technical and nontechnical events, Webinars, workshop, FDP, Seminars, Conferences for career development of the students, faculty and overall wellbeing of the institution.

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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
To participate in NIRF	Submitted the application
To prepare for VTU LIC visit	Successfully completed the visit
Application to AISHE	Submitted the application
To organize workshops/FDPs in collaboration with industry.	Most of the departments have organized the workshops/FDPs in collaboration with industry.
Planning to conduct academic & ISO audits	Conducted successfully
Strengthen Teaching Learning Process	Successfully Implanted
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14. Whether AQAR was placed before statutory body ?	**Yes**

Name of Statutory Body	Meeting Date
Academic council	24-Aug-2020

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	**No**
16. Whether institutional data submitted to AISHE:	**Yes**
Year of Submission	**2019**
Date of Submission	**27-Feb-2019**
17. Does the Institution have Management Information System ?	**Yes**

If yes, give a brief descripiton and a list of modules currently operational (maximum 500 words)	Institution has been effectively deployed and implemented the Management Information System in the areas shown below: SMS Service: Student counsellors were enabled to send the group SMS to all their respective students to inform the progress. CIE Report: Faculty were enabled to schedule the test question papers and map the questions to COs, POs and PSOs. Administration: Created the process for Grievance Redressal Mechanism, Finance and Accounts: Salary for Faculty and Staff, Income Tax Calculation, Balance Sheet, preparation of cheques and Accounting of all funds received from different organizations. Fees Payment: Created the process to pay the all kinds of fees by the students and receipt will be generated for the students. Admission and Support: Created the process for Student Admission, Registration to Higher semesters, Proctorial process, open elective options and registration. Examination System: Created the process to enter marks for Internal and semester end exams, generation of admission tickets, Room allotment, generation of Form A and B. Valuation process, Announce of Results and preparation of Marks/ Grade card.

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Design and Development

1.1.1 – Programmes for which syllabus revision was carried out during the Academic year

Name of Programme	Programme Code	Programme Specialization	Date of Revision
BE	CSE	Computer Science Engineering	01/08/2019
BE	ISE	Information Science & Engineering	01/08/2019
BE	EC	Electronics and Communication Engineering	01/08/2019
BE	ME	Mechanical Engineering	01/08/2019
BE	CE	Civil Engineering	01/08/2019
Mtech	CCT	Construction Technology	01/08/2019
Mtech	CSE	Structural	01/08/2019

| MBA | MBA | Master of Business Administration | 01/08/2019 |

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1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
BE	Computer Science & Engineering-CSE	01/08/2019	Data Structures Laboratory-18CSL36	01/08/2019
BE	Information Science & Engineering-ISE	01/08/2019	Renewable energy resources-17IST462	01/08/2019
BE	Electronics and Communication Engineering-ECE	01/08/2019	LabVIEW-Level 1- 16HOE661	01/08/2019
BE	Mechanical Engineering-ME	01/08/2019	Animation and Multimedia Engineering-16HOE763	01/08/2019
Mtech	Construction Technology-CCT	01/08/2019	Construction and Contract Management-19CCT23	01/08/2019
Mtech	Structural Engineering-CSE	01/08/2019	Research Methodology & IPR- 19CCT17	01/08/2019
MBA	Master of Business Administration-MBA	01/08/2019	Certification course- Advanced Excel & Six Sigma-18MBA 33	01/08/2019

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1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
Nill	---------NA--------	Nill

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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the College level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	Computer Science Engineering	01/08/2019

BE	Information Science & Engineering	01/08/2019
BE	Electronics and Communication Engineering	01/08/2019
BE	Mechanical Engineering	01/08/2019
BE	Civil Engineering	01/08/2019
Mtech	Construction Technology	01/08/2019
Mtech	Structural Engineering	01/08/2019
MBA	Master of Business Administration	01/08/2019

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
Career Skill Development Programme	01/08/2019	125
Renewable Energy Sources	01/08/2019	125
Online Certification Course	01/08/2019	118
MIS(Management Information Systems)	01/08/2019	114
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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
BE	Computer Science & Engineering	87
BE	Information Science & Engineering	40
BE	Electronics and Communication Engineering	99
BE	Mechanical Engineering	63
BE	Civil Engineering	110
Mtech	Construction Technology	15
Mtech	Structural Engineering	19
MBA	Master of Business Administration	81
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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

Feedback form/formats were designed for the stakeholders, this includes faculty feedback, alumina feedback, student feedback, course exit survey, etc. Faculty feedback from the students for the respective course has been taken twice in a semester on various teaching/learning aspects and it has been analysed by the HODs and corrective measures were informed to the respective faculties for further improvements. Course exit feedback and program exit feedbacks were methodically considered to analyse the understanding capability of the students. Feedback about the infrastructural facilities were collected from the final year students at the end of the program for improving the lab facilities. The feedback obtained is analysed for further improvement. Feedback from the parents were taken by interacting with them during Parent Teacher Meetings. Feedback has been collected from alumni for suggestions or improvements in the curriculum. Feedback from the final year students were collected to get their suggestions for improving the curriculum and it was conveyed to the higher authorities. Feedback from faculty were also considered to incorporate their suggestions in syllabus revision. Feedback is also collected from the companies and discussed the same in meetings of training and placement cell. Library has predesignated feedback forms which were kept on the circulation counter and open to fill-up by any user as per their wish. The collected data was entered in excel sheet and has been presented in front of library committee for review and discussion. We have also installed a suggestion box which is accessible to all the stake holders, to receive their feedback/ suggestions for improvements. We have a system of receiving feedback from students on infrastructure and also subject wise teachers, on 10-point scale, which measures parameters like Subject knowledge, Expression, Teaching aids used, methodology etc. which was analysed by our management for taking appropriate decisions for improving the infrastructure and also quality of teachers. The alumni feedback and exit feedbacks were received from all students. From these forms we were able to make out whether the proper teaching learning process was in place or not. Also, this process enabled the institute to improve in the certain areas where ever necessary. Every semester junior faculties evaluation has been processed by senior faculties, subject experts and inform to the faculties for enhancing their skills. The feedback is key tool which triggers continuous improvement for the quality of education. The feedback has been taken from students in order to analyse and implement as per their needs. We also have taken from experts and external examiners on quality of our students. Based on the faculty feedback the probationers and regular faculty were counselled to identify the blank gaps. Based on the above feedbacks and suggestions received we implement corrective actions to complete the loop.

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
MBA	Master of Business Administration	120	110	103
Mtech	Construction	18	12	10

	Technology			
Mtech	Structural Engineering	24	15	13
BE	Civil Engineering	120	96	78
BE	Mechanical Engineering	60	28	25
BE	Information Science and Engineering	60	65	53
BE	Electronics and Communication Engineering	120	125	105
BE	Computer Science & Engineering	120	138	113

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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	1928	203	127	16	143

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
143	143	5	34	2	5
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)

Highly structured mentoring system has been introduced in our institution, from 2013-2014, for establishing a better and effective relationship and bonding between students and teachers and also to monitor continuously, counsel and guide our students on academic and personal matters. All teachers work as mentors students, those who were allotted to them. These students must feel to confide in their mentors. This mentoring process continues till the end of academic span of the student in the campus. The aim of student mentorship is – 1. To enhance teacher –s tudent relationship. 2. To enhance student's academic performance and attendance. 3. To minimize student's dropout ratio. 4. To monitor the student's regularity and discipline. 5. To enable the parents to know about the performance of regularity of wards. The IQAC had taken the initiative of implementing the mentoring of students. Students were based on the streams of studies and also according to their core subjects. They are divided into groups of 20-25 students. Mentors maintain and update the mentoring format after collecting all necessary information. Mentors are expected to offer guidance and counsel as and when mentee

feel requirement. It is the practice of mentors to meet students individually or in groups. In isolated cases parents are called for counselling and their special meeting with the principal would be arranged based on the suggestion of the mentor. If a student identifies any weakness in particular subject, it is duty of the mentor to apprise the concerned subject teacher. At least 3 to 4 meeting would be arranged by mentors for their mentee in each semester. Though, the system has only been implemented in the last few years, significant improvement in the teacher – student relationship has been observed. It has been identified that this system is very useful in identifying slow and advanced learner patterns through a careful examination of each mentor's report, the college organises 'Remedial Classes' in identified topics. HODs would meet all mentors of his/her department at least once in a month to review proper implementation of the system and to advice mentors wherever necessary. Type of mentoring done in our institution are 1. Professional Guidance – Regarding professional goals, selection of career and higher education. 2. Career Advancements – Regarding self-employment, entrepreneurship development, opportunities, morale, honesty, integrity required for career growth. 3. Coursework Specific – Regarding attendance and performance in present semester and overall performance in the previous semester. 4. Lab Specific – Regarding Do's and Donts in the lab. Outcomes of the system a) The attendance percentage of the students, has been increased to greater extent. b) The number of detainment of students has decreased consistently. c) Due to direct communication between mentor and the student, there was good improvement in student-teacher relationship.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
2131	143	1:15

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
145	143	2	20	25

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. Prachi Beriwala	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
BE	EC, CS, IS, ME , CV	1, 3, 5, 7	11/12/2019	23/12/2019
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2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
20	1850	1.08

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)

https://ncet.co.in/civil-engineering/peos-pos-psos

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
MBA	MBA	Master of Business Administration	45	45	100%
CCT	Mtech	Construction Technology	1	1	100%
CSE	Mtech	Structural Engineering	2	2	100%
ME	BE	Mechanical Engineering	127	126	99%
IS	BE	Information Science and Engineering	54	46	85%
EC	BE	Electronics and Communication Engineering	103	102	99%
CS	BE	Computer Science and Engineering	120	118	98%
CV	BE	Civil Engineering	173	173	100%

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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://ncetmech.co.in/?page_id=1258

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Promotion of Research and Facilities

3.1.1 – The institution provides seed money to its teachers for research

Yes

Name of the teacher getting seed money

Dr.Nagesh K N, Dr.H.Venkatesh Kumar Bhargava R, Pramoda R, Gopinath A R				

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3.1.2 – Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
National	Dr. ROHITH S	"Confederation of elite Academicians of IICDC"	21/10/2019	Texas Instruments, DST, AICTE and IIM-B
National	Mr Sanath Kumar	Chhatra Vishwakarma Award-2019	26/10/2020	South Western region AICTE-Chhatra Vishwakarma Award-2019

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3.2 – Resource Mobilization for Research

3.2.1 – 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
Major Projects	365	AICTE, AQIS – RPS	17.05	0
Students Research Projects (Other than compulsory by the University)	365	Karnataka State Council for Science and Technology (KSCST)	0.04	0.04
Students Research Projects (Other than compulsory by the University)	365	Karnataka State Council For Science And Technology	0.05	0.05
Major Projects	730	AICTE MODROB	8	6.4
Major Projects	730	ISRO	16.98	4.62

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3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

14

3.3 – Innovation Ecosystem

3.3.1 – 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
Software engineering practices in Industries	ISE	16/12/2019
Analog and Digital IC Design using CADENCE Tool	EC	12/03/2019
Global Conference of Advancements in Technology (GCAT) - 2019	CS	18/10/2019
Climaveneta Climate Technologies (P) Ltd.	ME	23/08/2019
One Week Virtual FDP on Virtual Lab – Engineering faculty across Karnataka	ME	06/05/2020
Basic Principles and Applications of Geoinformatics workshop	CV	27/09/2019
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3.3.2 – 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
Best paper Award	Swarna Bharathi	Sri Sai Baba National Degree and PG College Ananthapur AP	21/10/2019	Engineering
Best paper Award	Hemanth Tej	Siddaganga Institute of Technology Tumkur	09/12/2019	Engineering
Best paper Award	Jyothi priya S	Siddaganga Institute of Technology Tumkur.Association of Electrical Sciences Techinisium 2019	16/09/2019	Engineering
Appreciation certificate	Dr. ROHITH S	NPTEL,IIT Kanpur	04/11/2019	Engineering
Appreciation certificate	Dr.Venkatesh Kumar H	NPTEL,IIT Kanpur	04/11/2019	Engineering
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3.3.3 – 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
Pre - Incubation Center	Department of Computer Science and Enginering . Nagarjuna	Nagarjuna College of Engineering and Technology	System and method to secure monetary transactions	Technology formulation. Concept and application have been	02/09/2019

College of Engineering and Technology			using block chain technology	formulated.	
Institution Incubation cell	Department of Mechanical Enginering . Nagarjuna College of Engineering and Technology	Nagarjuna College of Engineering and Technology	ZERO ELECTRICAL ENERGY BIODIESEL REACTOR	BIODIESEL REACTOR	04/11/2019
Pre - Incubation Center	Department of Civil Enginering . Nagarjuna College of Engineering and Technology	Nagarjuna College of Engineering and Technology	An improved power generation unit useful for residential requirement suitable to suitable to install in septic tank	Prototype system tested in intended environment close to expected performance.	05/08/2019

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3.4 – Research Publications and Awards

3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
Civil Engg	1
Mechanical Engg	1
ECE	2

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

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Civil	2	1
International	CSE	7	3.98
International	ISE	6	5.75
National	Mechanical Engg	2	1.05
International	Mechanical Engg	14	4.16
International	ECE	7	6.25
International	MBA	6	5.43

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3.4.3 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
MBA	2

Mechanical Engg	2
ECE	2
CSE	1
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3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
Consumption and Simulation of Digital Modems	Filed	202021049607	27/11/2020
Decision Rule Based Supervised Machine Learning for Power Quality Application	Filed	202021003176	04/03/2020
Gaze controlled electronic iron Box	Filed	202041046240	03/10/2020
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3.4.5 – 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
Mechanical properties of chemically treated woven banana/polyvinyl alcohol composites	Mr Amaresh Gunge	Emerging Materials Research	2019	3	NCET	3
Study on mechanical properties of alkali treated plain woven banana fabric reinforced biodegradable composites	Mr Amaresh Gunge	Composites Communications	2019	33	NCET	33
Effect of clogging of stone column on	Dr. Suravi Pal	Soils and Foundations	2019	3	NCET	3

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index		Institutional affiliation as mentioned in the publication
drainage capacity during soil liquefaction						
An efficient production of hybrid recombinant protein comprising non-structural proteins (NS 1 NS 3) of bluetongue virus in prokaryotic expression system	Dr. Nagraj V. K	Protein expression and purification	2019	5	NCET	5
Life cycle energy analysis of a low-cost house in India	Dr. L. Pinky Devi	International Journal of Construction Education and Research	2019	6	NCET	6
Fresh, Strength and Durability Characteristics of Binary and Ternary Blended Self Compacting Concrete	Dr. Venkatesh Babu D.L.	International Journal of Engineering and Advanced Technology (IJEAT)	2019	2	NCET	2

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3.4.6 – 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
Effect of clogging of stone column on drainage capacity	Dr. Suravi Pal	Soils and Foundations	2019	2	2	NCET

during soil liquefaction							
Study on mechanical properties of alkali treated plain woven banana fabric reinforced biodegradable composites	Amaresh Gunge	Composites Communications	2019	2	2	NCET
Mechanical properties of chemically treated woven banana/polyvinyl alcohol composites	Amaresh Gunge	Emerging Materials Research	2019	2	2	NCET
Target Tracking System Using Passive Radar: A Survey	Dr. Nagesh K.N	RESEARCH REVIEW International Journal of Multidisciplinary	2020	1	1	NCET
Security Issues Solutions in Cloud Computing	Basavaraj G. M	Journal of Telecommunication Study	2020	2	2	NCET

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

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	4	3	2	1

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3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultan(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
Dr. Nagesh K N	LED display Board (2)	Sri Consultency and Construction, M G Road, PCR Complex,	140000

Dr Venkatsh Babu, Dr K Kumar	Testing of Materials (Concrete, Aggregates and Bricks)	ZillaNirmithi Kendra, Chickaballapur, Rural Water Supply and Sanitation Department	98400
Dr Venkatsh Babu and Mr SashiKumar	Testing of Materials (Steel Rebars)	India Cements Pvt Ltd Sai infra Unique Space Construction, GSR Projects R.Chandrashekar Nandi construction Andagere project P Chandrashekhar Wapcos Ltd KSRTC	12000
Dr K Kumar	Others(Durability ,vibration ,waterproofing ,etc)	KPSD- Karnataka Pwd Subdivision	110400

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3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
Mr. Sanath Kumar K R	Total Station GIS and GPS Survey Training	South western railway	10000	20
Dr Mamatha and Placement Team	Leadership Development	Career Lab	30000	3
Dr Mamatha	Time Management	BGS Info Tech	18000	4
Dr Rohith and Placement Team	Corporate Builders	Pozibility Technologies	22000	3
Dr. Venkatesh Babu	Super Trainers	KARNIK (Karnataka Rajya Nirman Kendra), Bangalore and Visvesvaraya International Institute	10000	80
Mr. Sanath Kumar K R	Super Trainers	KARNIK (Karnataka Rajya Nirman Kendra), Bangalore and Visvesvaraya International Institute	15000	90

3.6 – Extension Activities

3.6.1 – 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
IRDP by ISE Department	NCET / Satya sai Trust	4	54
IRDP by CSE Department	NCET / Satya sai Trust	4	54
IRDP by ECE Department at Beedeganahalli village	NCET / Satya sai Trust	5	45
Women's welfare association Samanvitha organized Rexona Confidence academy	NCET / Rexona	5	200
Awareness Programme on the Teachings of Swamy Vivekananda	NCET	5	298
The women welfare association Samanvita of NCET has organized pink march on the occasion of national girl child day.	NCET	10	300
IRDP by ECE Department at Chikkamarali village	NCET / Satya sai Trust	5	45
Campus to Community Programme at Jalige and Thindlu village.... painting the walls of Govt schools	NCET / Satya sai Trust	5	65
UNNAT BHARAT ABHIYAN	RED CROSS	10	170
Blood Donation Camp	NSS	5	224

3.6.2 – 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
Sports - TAEKWONDO	GOLD MEDAL FOR 87 KG TAEKWONDO	VISVESVARAYA TECHNOLOGICAL UNIVERSITY		1
Paper presentation	Best paper Award	Sri Sai Baba National Degree and PG College Ananthapur AP		1
Paper presentation	Best paper Award	Siddaganga Institute of Technology Tumkur		1
Paper presentation	Best paper Award	Siddaganga Institute of Technology Tumkur.Association of Electrical Sciences Techinisium 2019		1
Sports - Cricket	Best Bowler	PES University International faculty Cricket Tournament		1
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3.6.3 – 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
Swachh Bharat	NCET / Satya sai Trust	Campus to Community Programme at Jalige and Thindlu village.... painting the walls of Govt schools	5	65
UNNAT BHARAT ABHIYAN	RED CROSS	UNNAT BHARAT ABHIYAN	10	170
Gender Issue	NCET	The women welfare association Samanvita of NCET has organized pink march on the occasion of national girl child day.	10	300
Awareness	NCET	Awareness Programme on the Teachings of Swamy	5	298

| Awareness | NCET / Rexona | Vivekananda | | |
| | | Women's welfare association Samanvitha organized Rexona Confidence academy | 5 | 200 |

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3.7 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
Production and function	Rajeshwari P H	BEL	30
Li2- Technologies	NeerajVenkat	VIJAY RAO DIRECTOR	30
Arduino Microcontroller	Likitha M R	Knowx Innovations (P) Ltd	60
PRODUCTION AND FUNCTION	NeerajVenkat	BHEL	30
METI M2M INDIA	Roopa S R	Yoesh MStaff Apps Engg	60
RAIL WHEEL AND AXLE MANUFACTURING	DHANUSH KUMAR M	INDIAN RAILWAYS	15
DMA Housing Gadag – JCPL	120 students	Nagarjuna Construction Company and Sister Companies (Jampana Construction Pvt. Ltd., and Shri Aruna Constructions Pvt. Ltd.,)	30
BBMP WHITE TOPPING – BANGALORE	120 students+1 faculty	Nagarjuna Construction Company and Sister Companies (Jampana Construction Pvt. Ltd., and Shri Aruna Constructions Pvt. Ltd.,)	30
DMA Housing Gadag – JCPL	120 students	Nagarjuna Construction Company and Sister Companies (Jampana Construction Pvt. Ltd., and Shri Aruna Constructions Pvt. Ltd.,)	30
Provided courses in technical areas	60 students	Indian Instutite of Remote Sensing	120

likeRemote sensing, Transportation Engineering, Urban Development, Environmental Engineering, Geotechnical Engineering, Geology, Disaster management, Occupational Safety and Health Administration			(IIRS) - ISRO		

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3.7.2 – 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
Virtual lab	Virtual lab	Amrita University	01/08/2019	31/07/2020	150
Campus Recruitment Training	,Campus Recruitment Training	Seventh Sense and NGI	12/08/2019	28/12/2020	40
Leadership Skills	Leadership Skills	MTC Global and NGI	02/09/2019	30/12/2020	50
Fundamentals of data Analytics	Advanced excel	EDUPINNACLE and NGI	05/08/2019	30/12/2020	90
Digital Marketing/ Skill Development	Digital Marketing/ Skill Development	Anudip	01/01/2020	31/12/2020	50
Campus to Corporate Training	Campus to Corporate Training	Orate and NGI	06/01/2020	31/12/2020	50
Workshop, Projects , Skill dovelopment	Workshop, Projects , Skill dovelopment	Digital Shark Pvt. Ltd	01/01/2020	31/12/2020	45
Internship	Java Fullstack Internship	ITC Infotech	12/02/2020	30/05/2020	9
Internship	Software Engineer Trainee	JK Technosoft	13/01/2020	30/05/2020	10

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

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
Sri Sathya Sai Institute of Higher Learning, Puttaparthi	02/01/2019	Field of Co-operation,Exchange of Faculty, Exchange of Students,Research projects, Intellectual Property rights (IPR), Funding and finance, Link Management and Administration	10
MTC Global and NGI	04/11/2019	Leadership Skills	50
EDUPINNACLE and NGI	03/02/2020	Advanced excel, Fundamentals of data Analytics	90
Digital Shark Pvt. Ltd	20/01/2020	Workshop, Projects , Skill dovelopment	40
Anudip	20/01/2020	Digital Marketing/ Skill Development	45
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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	311.47

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Value of the equipment purchased during the year (rs. in lakhs)	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Classrooms with Wi-Fi OR LAN	Existing
Video Centre	Existing
Seminar Halls	Existing
Laboratories	Existing
Class rooms	Existing
Campus Area	Existing

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
LIB soft	Fully	9.8.5	2006

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	34716	10193270	99	13498	34815	10206768
Reference Books	7878	2306149	8	2368	7886	2308517
Journals	601	1022832	30	26260	631	1049092
e-Journals	22153	9808887	1700	982143	23853	10791030
e-Books	14004	565000	10113	736607	24117	1301607
Digital Database	10	115140	1	13570	11	128710
CD & Video	3114	50000	4	Nill	3118	50000
Library Automation	1	185380	Nill	11000	1	196380
Weeding (hard & soft)	1633	327710	Nill	Nill	1633	327710
Others(specify)	Nill	2521412	Nill	32597	Nill	2554009

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.M.V.Sarvesha	Solution Of Homogeneous Partial Differential Equations	camstudio	28/03/2020
Dr.M.V.Sarvesha	Solution Of PDE by direct method	camstudio	26/03/2020
Dr.M.V.Sarvesha	Formation PDE by arbitrary function	camstudio	24/03/2020
Mr. Bhargava R Mr. Pramoda R	Creating threads in JAVA	Youtube	23/03/2020
Mr. Bhargava R	Multithreaded	Youtube	22/03/2020

Mr. Pramoda R	Programming		
Mr. Bhargava R Mr. Pramoda R	Single tasking and multitasking using threads	Youtube	23/03/2020
Basic Electrical Engg - Mrs Jyothi S K	Induction Motor - Part 1	Youtube	12/06/2020
Electronic Instru cmentation- Mr.Sreenivasulu K N -	Transducers	Youtube	12/06/2020
Dr Rohith S	S Inverter and Buffer using NI- Multisim Live software	Youtube	02/09/2020
Basic Electrical Engg - Mrs Jyothi S K	Induction Motor - Part 2	Youtube	12/06/2020

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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	620	13	620	0	0	28	100	100	0
Added	0	0	0	0	0	2	10	50	0
Total	620	13	620	0	0	30	110	150	0

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

150 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
E-Learning center, Light Board	http://ncet.co.in/iqac

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
88	73.86	763.5	610.55

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)

Maintenance of Library Facilities: The books and journals are maintained

against disfiguring. Book binding is carried out on regular basis for damaged books to avoid further damage. Stock verification is done as a part of regular monitoring and control. Pest control is done on regular basis for maintaining books safe from termites. Library Committee has been constituted for co-ordination in respect of learning resources. • Procurement of new books renew of journals and recommendation for additional books • Updating and maintaining of all library records • Addressing issues and grievances of users • Update and upgrade the library contents, periodically as per updates in curriculum Computers: The institute has an adequate number of computers with internet connections and utility software's. Computer systems, UPS, Softwares and Servers are maintained by outsourced technicians, Lab Assistants and Lab-InCharges.IT infrastructure is maintained by the head, IT Coordinator along with departmental coordinator. Classrooms, Conference Hall: Classrooms and International Conference hall are provided with enough seating capacity and LCD projectors. Cleanliness of class rooms and International Conference hall is maintained on regular basis .Working condition of audio system, LCD projectors etc. is done on regular basis. Laboratory: Laboratories are regularly maintained by the Laboratory attendant. Records of equipments are maintained in Dead-stock Register (DSR) as per the process. Equipments are maintained properly, calibrated and serviced periodically. Major breakdown maintenance if required, is carried out by external agencies. Maintenance of other support systems: Housekeeping for regular cleanliness of corridors, washrooms, classrooms, laboratories and premises is done by external agencies.Sanitizing of washrooms is done on regular basis.?Greenery is maintained by the gardeners of external agencies.? Solar Panels and power backup facilities like Generators are maintained by Internal Electrical maintenance department. ?Clean and hygienic drinking water is available in the Institute. Water coolers are maintained and cleaned on regular basis. Overhead water tanks and water coolers are cleaned periodically. Quality of drinking water is checked by measures pH and Hardness.?Sports facilities are maintained by the sports committee and the menial staff. The below mentioned points are inspected before start of every semester. 1. Classroom facilities such as lights and fans, LCD projector and sound system, availability of internet connections are inspected before start of every semester. 2. Working condition of computers, devices, and equipments is ensured. 3. Working condition of machines in the workshop is ensured. 4. Stock checking activity is done prior to start of new semester. 5. House-keeping committee of the institute inspects the facilities like toilets, classrooms, corridors. 6. Food committee supervises the cleanliness and hygiene in the canteen and monitors the food quality. 7. Library committee collects specific needs of the students and staff. 8. Sports committee ensures the availability of sports equipments and monitors the usage of the ground, courts and indoor games,.

http://ncet.co.in/iqac

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	Tuition fee concession	791	44170510
Financial Support from Other Sources			
a) National	SC/ST / OBC / Corporation/ KMDC	2418	41320980

| 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
Aadalitha Kannada / Vyavaharika Kannada	05/08/2019	121	NCET
Renewable Energy Sources	01/01/2020	125	NCET
Technical Report writing IRDP	01/01/2020	125	T and P Cell
Dance	01/01/2020	5	Local Expert
Martial Arts	01/01/2020	7	Local Expert
Yoga and Meditation	01/01/2020	71	Art of living
Constitution of India and Professional Ethics and Human Rights	05/08/2019	125	NCET
Online Certification Course	05/08/2019	118	NPTEL MOOCS
Career Skill Development Programme	05/08/2019	125	T and P Cell

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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	Aptitude Training	Nill	200	Nill	78
2019	Placement training for CSE,CV,ECE,ISE,ME departments	Nill	557	Nill	186

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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

23	23	26

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
ITC INFOTEC, I – EXCEED, LT INFOTECH,JK TECHNOSOFT, FSS, MIND TREE, SONATA	229	45	TCS, COGNIZANT, INFOSYS, TECH MAHENDRA, WIPRO , IBM, NTT DATA, DXC	229	49
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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	4	BE	EC	Bangalore university, Manipal University, MSRIT , VTU, RVCE, Bangalore	M. Tech
2019	5	BE	CSE, ISE	PES University, MS Ramaiah Institute of Technology, Dayananda Sagar College Of Engineering.	M. Tech
2019	4	BE	Civil	DAYANAND SAGAR ,BENGALURU, POOJA BAGVATH MEMORIAL MAHAJANA P G CENTRE, VTU RC, BENGALURU	M.Tech
2019	1	BE	ME	MS RAMAIAA COLLEGE	MBA
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5.2.3 – Students qualifying in state/ national/ international level examinations during the year

Items	Number of students selected/ qualifying
GATE	1
GRE	4
TOFEL	4
Any Other	25
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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
Kannada Hand Writing	College	200
Womans day celebration	College	300
Ganesh chaturthi celebration	College	645
One Week carnival	College	2534
Alumni Meet- Rejoice -2018	State Level	128
SCINOVA - Science Fest	State Level	645
Ikya -2019	State Level	3675
Running Race	College	24
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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	WINNER- VTU INTER COLLEGIATE TOURNAMENT 87 KG CTG	National	1	Nill	1NC19EC013	R AVINASH
2019	3rd prize- 54Kg TAEKWONDO	National	1	Nill	1NC17IS054	VINOD B S
2019	2nd Prize- Boeing- IIT National Aeromodelling Competition IIT, Madras	National	Nill	1	1NC17ME070	Rajeev Patra
2019	1St Runner up- Technoxian	National	Nill	1	1NC16ME059	Mintu Kumar

	19 World robotics Championship Competation Delhi Tayagaraj Sports Academy					
2019	1St Runner up- Technoxian 19 World robotics Championship Competation Delhi Tayagaraj Sports Academy	National	Nill	1	1NC18EC038	KAVANA O R
2019	1st prize- Drone Racing Gitam University, Bangalore	National	Nill	1	1NC17ME070	Rajeev Patra
2019	Gold Medal- Taekwond	National	1	Nill	1NC18ME403	Chethan V
2019	Silver Medal- Taekwond	National	1	Nill	1NC18ME403	Chethan V
2019	Bronze Medal- Taekwond	National	1	Nill	1NC18ME403	Chethan V
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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)

Class Committee: The class committee consists of student representatives and faculty representatives. The class committee meeting discusses resolving various issues and better prospects as given below: Result analysis of continuous internal assessment test and end semester results Feedback on teaching performance of faculty. NSS Committee: It aims to involve the maximum number of students in NSS activities. Sports Cultural Committee: Student representatives of this committee encourage and promote various sports and cultural activities. Anti-Sexual Harassment Cell(CICC): The student representative in this committee helps to sustain a healthy and congenial atmosphere to all the female students and staff members.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

One of the assessments for the quality of an institution is the success of its

alumni. Active alumni also mean that the institution is developing strong roots in society. It's a platform where successful alumni from all walks of life meet each other and express openly their thanks and gratitude for the opportunities provided to them by the alma mater. The NCET Alumni association makes a vital contribution by supporting the Institute in the accomplishment of its mission. They can contribute as goodwill ambassadors, student recruiters, and a pool of expertise in a broad range of fields that can be employed in Institute initiatives, both academic and administrative. Objectives of the Alumni Association: ? To arrange expert lectures by eminent alumni other prominent industrialists for the benefit of students. ? To conduct Alumni-Students Knowledge Exchange Programs. ? To bring together the ex-students of NCET and to promote fellowship amongst them and their families. ? To serve as a forum to promote and foster the relationship among the alumni, the present students, the staff, and the management of NCET. ? To maintain continuous interaction between the past and present students by publishing a newsletter, holding periodical Alumni day celebration, or by any other activity as decided by the association. ? To effectively participate in the revision of syllabi and development of curriculum. Activities of the Alumni Association: ? Regular Annual Alumni Meets are being conducted since 2015 either branch-wise separately or combined. ? A Grand departmental Alumni Meet "EC-Milana 2015" was organized by the Dept. of ECE at NCET on 8th August-2015 where 82 Alumni from UG and PG had attended. ? A Grand departmental Alumni Meet was organized by the Dept. of ISE at NCET on 26th June 2015, where more than 35 Alumni had attended ? A Grand Alumni Meet was held at Hotel Taj Vivanta on 9th September-2018 at 6 pm where more than 1500 Alumni attended. ? Alumni community are regularly being greeted with wishes for Festival/ College activities are informed from alumni@ncetmail.com ? NCET alumni LinkedIn account is was created in the month of October 2018. We currently have 1000 active members on the page. ? Alumni website was successfully launched in the month of September 2018. ? Link for Alumni Committee at NCET: https://ncet.co.in/alumni/index-alumni ? Link for Alumni Registration Portal: https://ncet.co.in/alumni-registration-link ? One of our alumni Mohan, Alumni from the CSE branch, Class of 2011 helped us to set up an advanced lab for CSE students. ? Ms. Poorvanchala, Asst. HR Manager, Enworld group, Alumni from Bio-Technology, Class of 2011 delivered a Talk on "HR Practices" as a part of the "Alumni Talk Series" on 23/02/2019 where 150 Students from CSE and ISE attended the event. ? Mr. Balaji, Hynatic technologies Bangalore, Alumni from ECE, Class of 2006 delivered a Talk on "How to peruse Career Electronic domain" as a part of the "Alumni Talk Series" on 23/03/2019 where 100 students from ECE attended and 5 students were given the opportunity to complete an

5.4.2 – No. of registered Alumni:

467

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

45000

5.4.4 – Meetings/activities organized by Alumni Association :

Sl No Date Of the Event Activity detail Name of the alumni Remarks 1 07/08/2019 Resource person for 1st year students orientation program Mr. Santhosh Rover Founder and M.D of Shaast Group Serial Entrepreneur / Mentor, Bengaluru, Karnataka, India 300 1st year student were addressed. 2 07/01/2020 "How to face interview and how to search jobs" Mr Chetan Ramesh Reddy (BE Mechanical Engineering 2018 Batch NCET alumni) 100 6th sem Mechanical Engg students attended. 3 10/01/2020 How to face interview and how to search jobs Mr Pavan Kumar K (BE Mechanical Engineering 2016 Batch NCET alumni) Risk Analyst, Apple, Bengaluru 4th semester Mechanical Engineering students 4 25/01/2020 "Job

Prospects and Expectation in the field of Civil engineering" Mr Reshu Chaudhary (BE Civil Engineering 2018 Batch NCET alumni) Entrepreneur at Kolkata. 150 Final year Civil Engineering students. He assured to help placement opportunities related to Civil engineering 5 25/01/2020 "Job opportunities in the field of Mechanical engineering" Mr. Shashidar (BE Mechanical Engineering 2019 Batch NCET alumni) Catalog associate in Amazon Pvt Ltd, Bangalore Mr. Ashwin (BE Mechanical Engineering 2017 Batch NCET alumni) Entrepreneur at Bangalore 100 Final year Mechanical Engineering students 6 19/02/2020 "How does the industry work" Mr. Avinash Sanji (NCET alumni –ECE-2006 Batch) working as Associate consultant at TCS 100 First year ECE students 7 19/02/2020. . "Career guidance and opportunity in ECE" Mr. Venkata Siddha Reddy (NCET alumni –ECE-2010 Batch) Workday consultant at DRG Analytics, Bangalore 90 1st year ECE students 8 19/02/2020 "Entrepreneurship and International Internship" Mr. Shaan Ibrahim (NCET alumni –ISE-2019 Batch) working as Software Engineer at HP, Bengaluru 50 first year ISE students have participated in this event.

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)

• Governing Body of the college has two representatives from the faculty in addition to the principal, at the top management level. • Academic council of the institution includes HODs of all departments and four senior professors in addition to principal and member-secretary. • Institution got well oriented Co-ordinator/chairman/conveners of various committees to take care of time table, test/CIE, anti-ragging, discipline monitoring, women's welfare, grievance redressal, sports, cultural, magazine, NSS, institution-industry interaction, quality monitoring in canteen and mess, campus maintenance, counseling. These coordinators were chosen from the level of HODs, senior professors and associate professors. Members of the above said committees are chosen from the staff and students.

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	Feedback from all stake holders is collected and suitable changes in the curriculum are implemented.
Teaching and Learning	ICT based teaching tools are used.
Examination and Evaluation	Software is being used which helps in the generation of proper reports and puts checks and balances in Examination and Evaluation methods
Research and Development	faculty members are encouraged to involve in R D activities by providing seed money to R D activities
Library, ICT and Physical Infrastructure / Instrumentation	Library is fully automated with Libsoft software. E-Journals are made available to the students and staff.
Human Resource Management	Staff Leave Management System is

Industry Interaction / Collaboration	A dedicated Industry Institute Interaction cell is formed to have better coordination among industry and academia
Admission of Students	Social media platforms are used effectively to reach out to the prospective students.

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

E-governace area	Details
Administration	2018 NCET Staff Leave Management System https://nagarjunaeducation.com/ncet/slms/login.php?
Finance and Accounts	Orion Soft System - Cheque Printing Software https://orionsoftsystem.com
Student Admission and Support	Entuple Technologies Pvt Ltd (CADENCE TOOL) Email: imports@entuple.com https://www.entuple.com/
Examination	Contineo Software http://www.contineo.in/Contineo Address e-Sutra Chronicles Pvt. No. 953, SLN Plaza, 1st Floor, 21st Main, 15th Cross, BSK II Stage, Bangalore - 560070 BENGALURU, KARNATAKA 560070 India

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	Mr. Subramanya S G	Webinar Millenial Gurus	NCET	2000
2019	Dr. Nagesh K N	IEEE Membership FEE	IEEE SST	3000
2019	Dr. Venkatesh Kumar H	IEEE Membership FEE	IEEE SST	3000
2019	Dr. Basavaraj G M	IEEE Membership FEE	IEEE SST	3000
2019	DR. ROHITH S	IEEE Membership FEE	IEEE SST	3000
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6.3.2 – Number of professional development / administrative training programmes organized by the Colleges for teaching and non teaching staff during the year

Year	Title of the professional development programme	Title of the administrative training programme	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)

	organised for teaching staff	organised for non-teaching staff				
2020	One day Webinar on "Decoding Trends Of Machine Learning and Artifical Intelligence"	NIL	16/07/2020	Nill	100	Nill
2020	Guest Lecture on Recent Trends in Signal processing and its applications	NIL	28/02/2020	Nill	100	Nill
2019	Android Programming	Android Programming	23/03/2019	Nill	45	15
2019	"Retrofitting"and Rehabilitation of structures	NIL	16/09/2020	Nill	250	Nill
2019	Invited Talk on Carrier Opportunities in Aerospace and Engineering.	Invited Talk on Carrier Opportunities in Aerospace and Engineering.	28/08/2020	Nill	120	10
2020	One Week Virtual FDP on Virtual Lab – Engineering faculty across Karnataka	One Week Virtual FDP on Virtual Lab – Engineering faculty across Karnataka	06/05/2020	13/05/2020	144	8
2019	One day workshop on Experience Economy Driving Entrepreneurship Innovation	NIL	25/10/2019	Nill	50	Nill

2020	Webinar on 'Immunity and Its Relevance"	NIL	13/07/2020	Nill	500	Nill
2020	Webinar on 'Invest ments To Create Wealth	NIL	22/07/2020	Nill	350	Nill
2019	--	email co mmunicatio n and computer skills	20/11/2019	Nill	3	75

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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
Robotics	1	01/08/2020	30/08/2020	30
AICTE ATAL Sponsored Artificial Intelligence: Algorithms to Architecture	1	08/06/2020	12/06/2020	5
One Week Faculty Development Program On Biopython1	1	27/04/2020	02/05/2020	6
One Week Faculty Development Program On Next Generation Electronics and Computer Networks	1	02/06/2020	06/06/2020	5
Opportunities Challenges in Electronics Allied Industries in India post COVID-19	1	25/05/2020	30/05/2020	6
Latest trends In IT1	1	12/05/2020	19/05/2020	8
"Covid-19	1	19/04/2020	24/04/2020	6

awareness quiz"				
Swift(ios) Programming Language'1	1	12/05/2020	16/05/2020	5
La TeX	2	17/04/2020	30/04/2020	14

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
135	135	101	101

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Group insurance, covid insurance	Group insurance, covid insurance , ESI	Group insurance, Medical Consultation for hostel students

6.4 – Financial Management and Resource Mobilization

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

The management has appointed both internal and statutory auditors for auditing the accounts of the institutions. The last audit was done by 31st March 2020. There was no major audit objections in the last audit. We are hereby enclosing the last audited balance sheet and income and expenditure A/c for the year ended 31.03.2020 along with audit report for the Nagarjuna Education Society.

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
Institution fund	700000	Incubation Center for Civil Engineering

[View File](#)

6.4.3 – Total corpus fund generated

200000

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	LIC	Yes	IQAC
Administrative	Yes	ISO	Yes	DQAC

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

1. Regular PTMs (parent -teacher meetings) were organized to discuss on the educational and leadership progress of the students 2. Suggestions from the parents - regarding academic and administrative reforms were heartily received and implemented. 3. Parents had always extended their full support for overall development of the institute.

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

1. Expertised counselling, exclusive mentoring sessions and need based training programmes were arranged for the Support Staff to improve their health and performances 2. Health Checkup camps were organized regularly. 3. Yoga Sessions and sports competitions were arranged to develop the responsibility and belongingness.

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

1. The college conducts need analysis and well structured assessments amongst the students with the help of all stakeholders' feedback system to find out the need based syllabus to match with the industry requirement. 2. Teachers were encouraged themselves in various research oriented activities. 3. Many Initiatives were taken to start new industry oriented courses 4. Credits were given for students to encourage them to take online MOOCs from NPTEL, EDx and other platforms. 5. Expertised were called to the campus to discuss enrichment of the curriculum and non curricular activities. .

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b)Participation in NIRF	Yes
c)ISO certification	Yes
d)NBA or any other quality audit	Yes

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	NIRF	31/07/2020	31/07/2020	31/07/2020	95
2019	AISHE	27/02/2019	27/02/2019	27/02/2019	78
2019	LIC	22/06/2020	22/06/2020	22/06/2020	121
2019	ARIIA	26/11/2020	26/11/2020	26/11/2020	34
2019	IQAC audit	16/01/2020	16/01/2020	16/01/2020	56
2019	Submission of AQAR previous year	28/12/2019	28/12/2019	28/12/2019	125
2019	ISO audit	14/12/2020	14/12/2020	14/12/2020	97

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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
International Womens Day	11/03/2020	Nill	221	15
Pink March	14/02/2020	Nill	167	22

Gender Inequality in India	13/05/2020	Nill	158	146
Importance of Gender Equality	16/07/2020	Nill	167	156
how to achieve gender equality	08/09/2020	Nill	144	138

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
10

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	2
Provision for lift	Yes	2
Ramp/Rails	Yes	2

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
2019	1	1	21/09/2019	1	Campus to Community Programme at Jalige and Thindlu village.... painting the walls of Govt schools	painting on the wall gives information about reading alphabets, preserving milk etc	45
2019	1	1	30/09/2019	1	Navaratri festival celebration -Nachare	event gives information about how navratari festival is celebrated	457
2019	1	1	25/11/2019	1	Cultural Exchange Programme	giving information about Indian	25

						culture to other European countries	
2020	1	1	15/02/2020	1	IRDP program by ECE	helping local schools to achieve good result , create awareness to food preservation and packaging, Digital transaction and garbage disposal system	68
2020	1	1	18/02/2020	1	IRDP program by CSE	students served rural government school children by conducting activities like presenting ,guiding and awareness about Health and Cleanliness, Human Rights, Importance of Digitization, Career Guidelines , Fun activities, Plant Sapling etc	46
2020	1	1	26/02/2020	1	Punjabi food fest	varities of food	657

| | | | | | | used in punjabi with DJ |

7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
Human Values and professional ethics	02/11/2020	Article titled Human Values and professional ethics by Prof. Sharada . T, is published in newsletter The effect of the family, society, nation and individual makes every person unique as he develops a unique set of values. The professional ethics are most important at the working environment. The ethics make the personality and growth of the individual. The article covers overview of human values and its importance. Also The article discusses about importance of professional ethics

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
One Student One Tree campaign at NCET	14/08/2019	Nil	95
Independence Day	15/08/2019	Nil	564
Engineers Day	16/09/2019	Nil	800
Constitution Day	26/11/2019	Nil	487
National Girl Child Day	24/01/2020	Nil	300
Kannada rajyotsava	07/11/2019	Nil	224
World Wildlife day	03/03/2020	Nil	145
Republic day	26/01/2020	Nil	498
One Student One Tree Awareness Programme in the local schools.	19/08/2019	Nil	95

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

1. RESTRICTED ENTRY OF AUTOMOBILES 2. USE OF BATTERY POWERED VEHICLES 3. PEDESTRIAN FRIENDLY PATHWAYS 4. BAN ON USE OF PLASTIC 5. LANDSCAPING WITH TREES AND PLANTS

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best Practices (28.2.2020) The management has taken very serious initiative in our college and has invited many eminent Guest lectures from reputed institutions like IIT's, IISc, NIT, s and Industry, this has helped students and faculty to improve their knowledge and skill set. Invited Talks on HAM (Amateur Radio) for the students and staff was also organized. Departments had conducted three days hands on workshop on Internet of Things and Embedded Applications, and many students from different departments have registered and actively took part in these workshops so as to reach out their ideas and techniques from practical point of view. Our college also encourages faculties to conduct FDP'S and and organises webinars by industry experts on core topics like machine learning artificial intelligence, LABVIEW for engineering applications where faculties from NCET and from various colleges participate to improvise their teaching methodologies techniques. Webinars were also conducted for both students faculty so as to upgrade their knowledge skill set. Technical events are also organized such as Technostava, Udbhav, Science Fest These technical fests are an amalgamation of fun and learning where spectacular ideas were displayed, and students learn and feel inspired. International conferences Virtual lab Conference were also organized in our college such as IEEE INOCON 2020 to broaden our thinking and knowledge by listening to new ideas and theories and recent trends related to their field. Parent teacher meetings were also conducted in our college to share academic progress and growth based on classroom observations, testing data, assessments, portfolios, and assignments. learn from parents or guardians so as to be better informed about students strengths, needs, behaviours, and learning styles. Best Practice: 1 1.Title of the practice: Guest lectures by eminent people from reputed institutions like IIT's, IISc, NIT, s and Industry and Project Exhibition. 2.Objective of the Practice: Guest lectures help students improve their learning in a more interactive, topic specific way. These can be very helpful not only for the students, but can also contribute to the teachers knowledge and practices. Guest lectures can be used to make classes more approachable and appealing to students. Major objective of organizing project exhibition was to provide the platform and unleash the potential of the students by showcasing their innovative projects developed in the Final Year either as Industry Defined Problem or User Defined Problem and provide an opportunity for the students to demonstrate their learning experience. The outcome of the project exhibition was that students were able to show their project at higher level and the process boosted their confidence. Best Practice: 2 (06.01.2020) 1.Title of the practice: Encouraging the faculty to upgrade their knowledge and skills through Faculty Development program. 2.Objective of the Practice: The Faculty Development Program (FDP) is a critical factor towards building the strong foundation of an educational system to ensure quality education. In previous and current studies, faculty development has always surfaced as a priority concern. Best Practice: 3 (2018-2019) 1. Title of the Practice : Integrated Rural Development Programme Our students go to nearby villages regularly and help village youth to learn basics of computers and technology and organise various awareness programs to rural people. 2. Objectives of the Practice The idea of designing an Integrated Rural Development Program (IRDP) curriculum is exposing the engineering students of NCET to rural problems with an aim to inculcating in them a desire to understand, analyse and address those problems by leveraging their education and skills. 3. The Context The idea of designing an Integrated Rural Development Program (IRDP) curriculum emerged from a

discussion between the Principal of the Nagarjuna College of Engineering and Technology, Devanahalli, Bangalore (NCET) and the Sri Sathya Sai Annapoorna Trust (SSSAT), Chikkaballapur. When SSSAT explained the various rural-centric programs that the trust was engaged in, The Principal has expressed an interest in exposing the engineering students of NCET to rural problems with an aim to inculcating values in them and a desire to understand, analyse and address those problems by leveraging their education and skills. 4. The Practice The SSSAT agreed to help and formulate a one credit practical course for 2nd year students (3rd and 4th sem) on Integrated rural development This resulted in the formulation of models of a course titled "Integrated Rural Development Program" (IRDP). Since the goal of this course is to give a practical exposure to college students, the lecture sessions in the course were supplemented with practical on-field studies and social activities. 5. Evidence of Success The Annapoorna Breakfast Program has been already serving free morning nutrition to more than 500,000 children attending thousands of rural Government schools across 17 states and 3 union territories in India. This and other welfare activities have enabled SSSAT to earn tremendous good will in many villages and consequently, This outreach enables Annapoorna volunteers to connect with the rural population to provide the right environment for the IRDP to our students, where our students got an opportunity to serve rural government school children by conducting activities like presenting ,guiding and awareness about Health and Cleanliness, Human Rights, Importance of Digitization, Career Guidelines , Fun activities, Plant Sapling etc Best Practice: 4 (2018-2019) 1. Title of the Practice: "Virtual Lab Facility" 2. Goal: • To provide remote access to Labs in various disciplines of Science and Engineering. These Virtual Labs would cater to students at the undergraduate level, postgraduate level as well as level as to research scholars. • To enthuse students to conduct experiments by arousing their curiosity. This help them in learn basics and advanced concepts through remote experimentation. • To share costly equipment and resources, which are otherwise available to limited number of users due to constraints on time and geographical distance. 3. Context • The Virtual labs developed by faculties from the top technical institutions of the country, address the issues of lack of good laboratory facilities, as well as trained teachers, by making remote and simulation based experimentation possible through the internet. • Virtual labs facility for about 250 laboratory courses and about 1750 experiments across multiple disciplines are available. • A virtual lab is one of the largest educational initiatives in the world and a step forward than the traditional learning method. • Training through Virtual lab enable students to conduct innovative experiments round the clock. 4. The Practice: • Institution has been recognized as the Nodal center for Virtual Lab facilities sponsored by MHRD, GOI and supported by all IITs and IISc. This facility is being used by staff and students. 5. Evidence of Success: • Two tables from the web site of Amrita University were given below which highlight the keen interest of our students on virtual lab experiments and is the evidence of success. 6. Problems Encountered and Resources Required: • Teachers have to be trained in conducting experiments using virtual lab facility. • Computer and internet facility is required. Best Practice: 5 (2018-2019) 1. Title of the Practice : Project Based Learning Project Based Learning is introduced as one of the credit course in curriculum for 2nd and 3rd year students where students apply the concepts and learn to design and develop projects for various real world problems, makes their learning practical instead of theoretical. It envisages creating products and technologies that address the societal needs and also nurture the innovative minds. To provide the opportunity for students to use their learning to solve complex engineering challenges, through projects. Promote culture of Project Based Learning through various activities – in association with IEEE that facilitate creativity and innovation. Transform prototypes and concepts into Product/Technology/Service across the campus become a hub for activities. PBL in which students gain knowledge and skills by working for an extended

period of time to investigate and respond to complex problems. The Practice and its uniqueness in the context of Project Based Learning has helped to Imagine, Innovate and Implement at NCET, this has truly contributed to the student placement activities in the campus.

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

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 the Institute is to be an institution of Leadership and excellence in education. NCET has committed to provide quality technical education, promote research innovation and to produce world class graduates who can contribute to the social and economic growth of the country. The institution has established a value based education policy for quality teaching and in-depth learning, state of-art facilities for the overall development of the graduates. The national level accreditations have helped NCET to significantly improve its academic standards and academic processes, such as industry based curriculum design, improved examination processes. With well qualified, experienced and dedicated faculty, institute is practicing outcome based education and experimental learning with a well- balanced curriculum of knowledge, skill and attitude components. The curriculum addresses all the global attributes, which are highly essential for the successful engineering and management graduates. Choice based curriculum has been designed considering the feedback of the stakeholders (Industry, Alumni, faculty and students) to cater to the present and future needs of the society. To have diversification in the curriculum, professional electives and open electives have been introduced in all the engineering programmes. State of the art technological advances have been incorporated into our curriculum, based on feedback obtained from alumni and industry experts. Internet of Things, Machine Learning and Composites are some examples of new curriculum introduced. Emphasis is given for industrial internships, projects to address industry and societal needs. Students were encouraged to use modern tools (mainly software) for problem solving. NCET continuously encourages to adopt innovations in teaching and learning process. All departments have state-of-the-art laboratories to cater the needs of the curriculum. Research centers were established in all the departments to promote research culture among the post and under graduate students. Students are encouraged to publish and present papers in National and International conferences and peer reviewed journals.

Provide the weblink of the institution

8.Future Plans of Actions for Next Academic Year

An internal mechanism for sustenance, assurance and enhancement of the quality culture of education has been imparted by NCET. NCET has established the Internal Quality Assurance Cell (IQAC) as a post accreditation quality sustenance activity. NCET, enlisted/recognized under section 2(f) and eligible to receive central assistance under Section 12B of the UGC Act, 1956 and thoroughly eligible to receive General Development Assistance. Nagarjuna College of Engineering and Technology (NCET) always planned for higher level of excellence. NCET has got the very well structured IQAC action plan to achieve the mission and vision of the institution. IQAC of NCET has equipped with following action plan ? Applying for o NIRF o ARIIA o AISHE ? Audits related to • ISO-QMS • Clean and Green campus • ISO-FSMS • ISO-EMS • Academic Audit • Administrative Audit ? Applying for other

rating and Ranking ? Conducting Quality events and Activities related to technical and non technical ? Effective budget preparation and utilization